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Yearbook of Statistics Singapore 2001

SINGAPORE DEPARTMENT OF STATISTICS



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PREFACE

The Yearbook of Statistics Singapore, 2001 is the thirty-fourth 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 picture 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 Home Page, SingStat DataShop and Time Series Retrieval and Dissemination System. Internet users can now purchase softcopies of statistical tables in the Yearbook through 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 departments and statutory boards. I would like to extend my grateful thanks to all the organisations that have contributed to the success of this publication for the past thirty-four years. I look forward to their continued support.

Dr Paul Cheung
Chief Statistician
Singapore

May 2001

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 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, the following changes are made :

New Tables

The following fourteen tables are included: -

Table 1.14	Cultural, Recreation and Public Safety
Table 6.1	Organisations Performing R&D by Sector
Table 6.2	R&D Manpower by Occupation
Table 6.3	R&D Expenditure by Sector
Table 6.4	R&D Expenditure by Area of Research, 1999
Table 6.5	R&D Expenditure by Type of Costs, 1999
Table 6.6	R&D Output
Table 8.2	Cessation of Companies by Industry
Table 8.3	Formation of Businesses by Industry
Table 8.4	Cessation of Businesses by Industry
Table 13.9	Revenue of the Information and Communication Technology Industry
Table 17.25	Credit and Charge Cards
Table 18.1	General Government Finance
Table 24.9	Registered Arts Societies and Companies

Replacement of Existing Series

The population estimates for 1990-1999 in Table 3.1 Population and Growth Rate have been revised.

Table 10.9 Indices of Unit Business Cost and Unit Labour Cost have been rebased from 1988 to 1993.

The following six tables in the Construction and Real Estate Section replace the previous series: -

Table 12.1	Available and Vacant Private Residential Properties
Table 12.2	Supply of Private Residential Properties in the Pipeline by Development Status
Table 12.3	Approval, Construction Commencement and Completion of Private Residential Properties
Table 12.4	Available and Vacant Commercial and Industrial Properties
Table 12.5	Supply of Commercial and Industrial Properties in the Pipeline by Development Status
Table 12.6	Approval, Construction Commencement and Completion of Commercial and Industrial Developments

NOTES ON CHANGES AND REVISIONS (continued)

Replacement of Existing Series (continued)

Tables 14.6-14.8 on Imports, Exports and Domestic Exports by Commodity Section replace the previous series.

Table 19.2 Consumer Price Index for Households in Different Income Groups has been rebased from October 1992-September 1993 = 100 to November 1997-October 1998 = 100.

Table 19.4 Retail Prices of Food and Groceries replaces the previous series.

Other Changes

Table 2.4 Land Use (in previous editions) has been discontinued.

Data on "Corporate Telephone Lines Installed" have been included in Table 15.14 Postal Articles Handled and Telecommunications. "Outgoing International Telegrams" and "Outgoing International Telex Calls" in the same table have been discontinued.

"Weighted Average Hotel Tariff" in Table 16.7 Hotels and Cess Collection has been discontinued.

KEY INDICATORS

KEY INDICATORS

1.1 NATIONAL INCOME

NOTES ON CHANGES AND REVISIONS

Year	Gross National Product (GNP) \$ M	Per Capita GNP \$	Gross National Saving \$M	Gross Capital Formation \$M	Gross Domestic Product \$M	Gross Fixed Capital Formation \$M
	At Current Market Prices				At 1990 Market Prices	
1990	68,288.4	22,411.0	30,008.0	24,348.8	66,464.4	21,577.8
1995	121,351.3	34,420.0	61,986.3	40,867.2	102,859.4	36,985.8
1996	130,232.3	35,482.0	65,610.9	47,531.4	110,699.2	45,513.7
1997	149,827.3	39,494.0	81,281.7	54,663.9	120,140.2	49,871.1
1998	146,043.1	37,237.0	78,827.9	44,796.7	120,206.9	46,659.2
1999	153,468.9	38,844.0	82,964.5	46,098.6	127,250.0	44,858.4
2000	169,596.5	42,212.0	87,352.5	49,776.4	139,839.5	47,501.1
Percentage Change Over Previous Year						
1990	14.3	10.0	14.8	19.6	9.0	10.3
1995	11.3	8.0	16.7	14.5	8.0	11.8
1996	7.3	3.1	5.8	16.3	7.6	23.1
1997	15.0	11.3	23.9	15.0	8.5	9.6
1998	-2.5	-5.7	-3.0	-18.1	0.1	-6.4
1999	5.1	4.3	5.2	2.9	5.9	-3.9
2000	10.5	8.7	5.3	8.0	9.9	5.9

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 (Nov 97-Oct 98 = 100)	Domestic Supply Price Index (1995 = 100)	Gross Domestic Product Deflator (1990 = 100)	Overall Economy (1993 = 100)	Manufacturing (1993 = 100)	
1990	85.2	114.5	100.0	91.5	90.4	93.1
1995	96.7	100.0	114.5	104.9	95.5	101.1
1996	98.0	97.0	115.8	107.6	97.7	101.6
1997	100.0	93.1	116.7	108.4	98.4	101.5
1998	99.7	90.1	114.4	112.6	97.3	100.9
1999	99.8	92.0	111.7	102.3	80.5	90.4
2000	101.1	101.3	113.7	101.4	74.8	89.5

Percentage Change Over Previous Year

1990	3.4	1.7	4.8	7.5	8.4	6.7
1995	1.7	0.0	2.2	2.5	-1.4	1.4
1996	1.4	-3.0	1.1	2.6	2.3	0.5
1997	2.0	-4.0	0.8	0.7	0.7	-0.1
1998	-0.3	-3.2	-2.0	3.9	-1.1	-0.6
1999	0.0	2.1	-2.4	-9.1	-17.3	-10.4
2000	1.3	10.1	1.8	-0.9	-7.1	-1.1

1.3

MANUFACTURING AND BUILDING & CONSTRUCTION

5.1

Year	Manufacturing			Building & Construction ²			
	Net Investment Commitments	Output ¹	Index of Industrial Production ¹ (1999=100)	Written Permission	Building Plan Approval	Building Commencement	Building Completion
	Million Dollars			Thousand Square Metres of Gross Floor Area			
1990	2,487.4	71,333	55.0	na	na	na	na
1995	6,809.1	113,358	81.6	5,196	3,982	5,486	3,678
1996	8,085.1	119,869	84.3	6,853	5,776	5,807	4,194
1997	8,488.4	126,531	88.1	6,977	6,269	6,728	5,714
1998	7,829.5	121,433	87.8	4,177	4,277	2,163	5,246
1999	8,037.4	133,577	100.0	2,955	1,883	2,233	3,661
2000	9,208.9	158,770	115.3	3,626	2,499	2,744	3,725
Percentage Change Over Previous Year							
1990	27.0	12.1	10.0	na	na	na	na
1995	18.1	12.7	10.4	18.3	0.7	14.7	21.1
1996	18.7	5.7	3.3	31.9	45.1	5.9	14.0
1997	5.0	5.6	4.5	1.8	8.5	15.9	36.2
1998	-7.8	-4.0	-0.3	-40.1	-31.8	-67.9	-8.2
1999	2.7	10.0	13.9	-29.3	-56.0	3.2	-30.2
2000	14.6	18.9	15.3	22.7	32.7	22.9	1.7

1 Refer to establishments engaging 10 or more workers.

With effect from 1999, data are classified according to Singapore Standard Industrial Classification (SSIC) 2000.

Prior to 1999, data are classified according to SSIC 1996.

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

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	Number
1990	205,011.6	95,205.8	62,754.1	32,451.7	109,805.8	5,322.9	22,408
1995	343,828.2	167,514.7	98,472.7	69,042.0	176,313.5	7,136.5	26,322
1996	361,455.3	176,271.9	103,588.8	72,683.2	185,183.4	7,292.4	27,604
1997	382,217.7	185,612.5	107,535.2	78,077.3	196,605.2	7,197.9	27,313
1998	353,626.8	183,763.3	105,917.6	77,845.7	169,863.5	6,242.2	27,412
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
Percentage Change Over Previous Year							
1990	11.4	9.3	13.6	1.8	13.4	10.2	-1.2
1995	13.2	13.7	11.2	17.4	12.7	3.5	7.0
1996	5.1	5.2	5.2	5.3	5.0	2.2	4.9
1997	5.7	5.3	3.8	7.4	6.2	-1.3	-1.1
1998	-7.5	-1.0	-1.5	-0.3	-13.6	-13.3	0.4
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

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		
1990	324,157	299,684	94,388	93,401	5,223	240
1995	577,749	528,024	169,745	135,739	11,846	550
1996	622,019	568,438	175,083	139,081	12,944	579
1997	696,778	639,570	185,559	141,948	14,136	697
1998	651,568	632,093	172,968	139,354	15,136	791
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
Percentage Change Over Previous Year						
1990	9.1	6.9	13.1	2.8	19.7	17.6
1995	9.1	9.9	7.9	2.2	13.9	22.0
1996	7.7	7.7	3.1	2.5	9.3	5.3
1997	12.0	12.5	6.0	2.1	9.2	20.4
1998	-6.5	-1.2	-6.8	-1.8	7.1	13.5
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

1 Refer to Changi Airport only.

2 Exclude calls to Malaysia. Figures prior to 1996 are based on financial year.

Figures from 1998 include Real-Time Fax and Budgetcall Services.

Prior to 1995, data are classified according to SIC 1980.

2. Figures include Inland, YDP, Sea, Wharf, and Terminal, passenger and Tugboat Companies.

1.6 GOVERNMENT FINANCE

Year	Operating Revenue ¹	Operating Expenditure ²	Development Expenditure ³	Public Debt ⁴		
	Total	Domestic	External	Million Dollars		
1990	13,102.2	7,061.6	4,220.3	51,425.6	51,357.7	67.9
1995	24,781.6	10,883.7	4,671.3	86,507.6	86,507.6	-
1996	28,038.3	12,253.6	6,920.7	94,830.7	94,830.7	-
1997	30,612.7	15,159.0	10,705.9	102,371.9	102,371.9	-
1998	28,212.5	14,236.4	10,557.1	115,183.4	115,183.4	-
1999	28,619.2	13,907.4	11,039.3	125,777.1	125,777.1	-
2000	33,526.6	18,896.9	9,117.6	134,370.4	134,370.4	-
Percentage Change Over Previous Year						
1990	13.5	15.7	43.3	11.3	11.5	-51.0
1995	6.4	12.2	5.7	14.8	14.8	-
1996	13.1	12.6	48.2	9.6	9.6	-
1997	9.2	23.7	54.7	8.0	8.0	-
1998	-7.8	-6.1	-1.4	12.5	12.5	-
1999	1.4	-2.3	4.6	9.2	9.2	-
2000	17.1	35.9	-17.4	6.8	6.8	-

1 Refer to receipts credited to the Consolidated Revenue Account, Development Fund Account and Sinking Fund Account, but excludes 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, industrial and commercial enterprises.

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			
1990	15,260.9	48,521.3	134,002.0	32,336.0	11,423.6	390,395.5
1995	25,349.2	97,336.6	224,578.7	50,253.1	21,135.5	478,232.9
1996	27,040.0	107,750.8	252,723.4	53,580.6	21,189.4	506,870.2
1997	27,510.9	119,616.8	289,572.3	66,661.2	22,210.6	557,193.5
1998	27,239.1	124,584.4	309,974.5	60,545.4	21,941.9	503,609.9
1999	31,109.1	128,457.0	326,295.4	56,999.6	20,742.4	480,399.4
2000	33,261.9	139,260.0	344,006.0	59,874.0	19,801.1	486,451.6
Percentage Change Over Previous Year						
1990	11.0	25.7	5.3	-5.0	12.7	16.0
1995	8.3	14.3	11.2	11.6	11.3	14.9
1996	6.7	10.7	12.5	6.6	0.3	6.0
1997	1.7	11.0	14.6	24.4	4.8	9.9
1998	-1.0	4.2	7.0	-9.2	-1.2	-9.6
1999	14.2	3.1	5.3	-5.9	-5.5	-4.6
2000	6.9	8.4	5.4	5.0	-4.5	1.3
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		
1990	63,979.7	57,696.4	8,397.2	1,503.1	1,606.2	40,646.4
1995	108,885.5	108,974.0	15,417.8	4,651.1	2,637.3	66,035.4
1996	118,201.5	126,987.7	15,071.6	4,052.3	3,221.1	72,566.6
1997	124,143.0	143,243.8	15,611.8	3,975.2	3,721.7	79,657.4
1998	162,310.3	151,640.9	15,344.6	3,555.2	3,821.2	85,276.8
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
Percentage Change Over Previous Year						
1990	19.9	13.6	13.7	12.4	-4.6	12.7
1995	9.9	19.8	11.8	-1.7	14.0	14.5
1996	8.6	16.5	-2.2	-12.9	22.1	9.9
1997	5.0	12.8	3.6	-1.9	15.5	9.8
1998	30.7	5.9	-1.7	-10.6	2.7	7.1
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

1 Include bills financing.

1.8 POPULATION AND LAND AREA

Year	Mid-Year Population		Land Area	Population Density	Median Age ²	Dependency Ratio ³	Sex Ratio ²
	Total ¹	Resident					
	Thousand		Square Kilometres	Per Square Kilometre	Years	Per Hundred	Males Per 1,000 Females
1990	3,047.1	2,735.9	633.0	4,814	29.8	40.8	1,027
1995	3,525.6	3,014.6	647.5	5,445	31.9	41.5	1,010
1996	3,670.4	3,067.8	647.5	5,669	32.4	41.3	1,008
1997	3,793.7	3,121.1	647.8	5,856	32.8	41.1	1,006
1998	3,922.0	3,174.8	648.1	6,052	33.2	40.8	1,003
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

- 1 Total population comprises Singapore residents and foreigners staying in Singapore for at least 1 year.
2 Refer to Singapore residents (citizens and permanent residents).
3 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 1,000 Female Population Aged 15-44 years	
1990	2.2	13.5	18.2	4.7	6.6	1,827	880
1995	1.8	10.8	15.6	4.8	3.8	1,670	803
1996	1.8	10.5	15.2	4.7	3.6	1,661	797
1997	1.7	10.0	14.5	4.5	3.6	1,607	773
1998	1.7	8.5	13.1	4.6	4.1	1,473	714
1999	1.5	8.3	12.8	4.5	3.3	1,465	701
2000	1.3	9.1	13.6	4.5	2.5	1,586	759

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				
1990	1,562.8	1.4	66.0	79.0	53.0	67.4	13.8
1995	1,749.3	2.0	64.4	78.4	50.1	67.2	13.8
1996	1,801.9	2.2	64.6	78.7	51.5	66.3	14.6
1997	1,876.0	1.8	64.2	78.3	51.1	65.3	14.2
1998	1,931.8	2.4	63.9	77.5	51.3	62.0	14.6
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

¹ Refer to persons aged 15 years and over in June of the respective years. Unemployment rates were seasonally adjusted.

1.11 HEALTH

Year	Life Expectancy at Birth			Doctors	Dentists	Nurses	Per Capita Government Expenditure on Health ¹
	Total	Males	Females				
	Years			Per 10,000 Population			Dollar
1990	75.3	73.1	77.6	12	2	32	282
1995	76.3	74.2	78.6	13	2	35	469
1996	76.6	74.5	78.9	13	2	36	477
1997	76.9	74.9	79.1	13	2	38	471
1998	77.3	75.3	79.4	13	2	39	493
1999	77.6	75.6	79.7	13	2	39	457
2000	78.0	76.0	80.0	14	3	40	507

¹ Include expenditure of 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			
1990	26	21	79.8	89.1	6.6	36.7
1995	25	23	85.2	90.8	7.7	47.5
1996	26	22	86.4	91.2	7.6	46.1
1997	25	21	87.6	91.5	7.8	46.4
1998	25	20	86.9	91.9	8.0	48.6
1999	25	19	87.1	92.2	8.1	49.5
2000	25	19	87.5	92.5	8.6	54.7

Year	Passes At			Annual Output		
	PSLE ⁴	GCE 'O' Level ⁵	GCE 'A' Level ⁶	ITE ⁷	Polytechnic ⁸	University ⁹
	Per Cent			Number		
1990	88.2	88.9	76.5	8,146	6,960	5,334
1995	94.2	90.9	86.3	7,325	11,008	7,926
1996	95.5	90.8	85.4	5,581	12,105	8,218
1997	95.7	90.3	84.2	4,918	12,919	8,679
1998	95.0	91.1	86.0	6,234	13,904	9,331
1999	96.2	92.1	86.5	8,501	14,641	9,463
2000	95.8	92.3	85.4	8,427	15,074	9,406

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 From 1993, figures refer to students eligible for secondary schools.

5 At least 3 'O' level passes.

6 At least 2A and 2AO 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 Refer to first degree graduates from National University of Singapore and Nanyang Technological University.

1.13

PUBLIC HOUSING AND UTILITIES USAGE

Year	Public Housing ¹				Utilities Usage	
	Public Flats		Per Cent of Population ⁴ Living in		Domestic Electricity Consumption Per Resident	Domestic Water Consumption Per Resident
	Total ² Number Managed	Per Cent ³ Owner-occupied	Public Flats	Owner-occupied Public Flats	Kilowatt Hour	Cubic Metre
1990	623,821	87	87	80	874.3	64.8
1995	700,060	90	86	81	1,271.6	72.3
1996	725,144	91	86	81	1,357.0	73.3
1997	755,313	91	86	81	1,517.7	74.3
1998	790,898	91	86	82	1,678.3	73.9
1999	823,760	92	86	82	1,658.7	72.8
2000	846,649	93	86	82	na	74.0

1 Refer to flats managed by Housing and Development Board.

2 As at end of year.

3 Percentage of sold flats over total units under management.

4 Data from 1990 refer to resident population.

1.14

CULTURAL, RECREATION AND PUBLIC SAFETY

Year	Cable Vision Subscribers ¹	TV Licences ¹	Cinema Attendances	Loan of Library Books ²	Daily Newspaper Circulation	Crime Rate ³ Per 100,000 Population
	Per 1,000 Population					
1990	-	213	6,779	2,992	273	1,783
1995	8	217	5,142	3,525	302	1,223
1996	19	222	4,702	3,871	292	1,132
1997	33	192	4,573	5,931	288	1,038
1998	45	222	4,181	5,947	287	1,078
1999	64	210	3,739	6,266	291	911
2000	78	233	3,345	6,109	298	764

1 Indicator is computed based on resident population.

2 Refer to books loaned from National Library.

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 Telephone Lines	Mobile Phone Subscribers	Pager Subscribers	Dial-up Internet Subscribers	Private Cars	Public Buses ¹
	Per 1,000 Resident Population					
1990	255	17	98	-	91	3
1995	285	97	307	8	109	3
1996	302	132	336	42	114	3
1997	319	238	421	86	116	3
1998	337	321	412	124	113	3
1999	347	457	372	181	113	3
2000	353	748	257	595	114	3

1 Indicator is computed based on total population.

2.1

AIR TEMPERATURE AND SUNSHINE

CLIMATE AND AIR QUALITY

2

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 rain falls occasionally but the rainfall is usually light.

Air Pollution
The ambient air quality in Singapore is closely monitored by the Ministry of the Environment through the Telemetric Air Monitoring and Management System (TAMMS). The system comprises 19 remote air monitoring stations linked to a Central Control Station (CCS) via dial-up telephone.

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The Republic of Singapore is located between latitudes 1° 09' N and 1° 20' N and longitudes 103° 36' E and 104° 25' E.

The land area of Singapore is approximately 683.7 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 150.3 kilometres.

Singapore can be divided into three major areas – the central city area with heavy deposits of granite in Bukit Timah, Bukit Panjang, Bukit Merah and Bukit Batok; the western undulating area comprising Mount Faber Ridge and Puan Panjang Ridge and the eastern coastal area comprising the coastal plain and the coastal plain.

The main features of the climate of Singapore are the relatively stable temperatures 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 maximum and minimum temperatures are around 32°C and 23°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

CLIMATE AND AIR QUALITY

2 CLIMATE AND AIR QUALITY

Geography

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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 maximum and minimum temperatures are around 32°C and 25°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 closely monitored by the Ministry of the Environment through the Telemetric Air Quality Monitoring and Management System (TAQMMS). The system comprises 19 remote air monitoring stations linked to a Central Control Station (CCS) via dial-up telephone lines.

Fifteen of the monitoring stations monitor ambient air quality and three stations monitor roadside air quality. Automated 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, hydrocarbon and respirable suspended particles (PM 10).

The air quality in terms of Pollutant Standards Index (PSI) was 'good' on 70 per cent of the days and 'moderate' on 30 per cent of the days. The overall air pollution levels for 2000 were within the WHO Long Term Goals and the United States Environmental Protection Agency (USEPA) standards.

2.1 AIR TEMPERATURE AND SUNSHINE

	1990	1995	1996	1997	1998	1999	2000
Air Temperature in Degree Celsius							
Means							
Daily Maximum	31.8	31.3	31.3	32.4	32.1	31.3	31.4
Daily Minimum	24.8	24.7	24.5	25.3	25.3	24.7	24.7
Absolute Extremes							
Maximum	35.0	34.1	34.4	35.1	36.0	34.4	34.3
Minimum	21.1	21.8	22.1	22.0	22.5	21.6	20.2
Bright Sunshine							
Daily Mean Hours	6.2	5.1	5.6	5.7	5.7	5.4	5.2

Source : Meteorological Service

2.2 MEAN RELATIVE HUMIDITY AND RAINFALL

	1990	1995	1996	1997	1998	1999	2000
Mean Relative Humidity ¹							
at 2.00 pm (Per Cent)	69	74	72	66	71	73	73
Rainfall							
Total (mm)	1,524	2,333	2,418	1,119	2,623	2,134	2,371
Maximum in a day (mm)	154	199	94	66	84	77	128
Number of rainy days	142	179	170	116	177	177	188

Source : Meteorological Service

- 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

	1995	1996	1997	1998	1999	2000
Sulphur Dioxide (Mean)($\mu\text{g} / \text{m}^3$)						
Industrial	30	32	29	30	25	25
Urban	19	27	18	21	28	23
Sub-Urban	17	22	12	10	19	19
Nitrogen Dioxide (Mean)($\mu\text{g} / \text{m}^3$)						
Industrial	30	39	41	38	43	34
Urban	31	33	33	40	38	35
Sub-Urban	18	23	23	24	29	22
PM 10 (Mean)($\mu\text{g} / \text{m}^3$)						
Industrial	36	36	54	36	36	32
Urban	29	30	49	33	32	29
Sub-Urban	32	34	51	36	35	31
Carbon Monoxide (No of times max 8-hour value exceeded)						
Industrial	-	-	-	-	-	-
Urban	-	-	-	-	-	-
Sub-Urban	-	-	-	-	-	-
Ozone (No of times max 1-hour value exceeded)						
Industrial	-	-	-	-	-	-
Urban	-	-	-	-	-	-
Sub-Urban	-	-	-	-	-	-

Source : Ministry of the Environment

Notes : Standards for Air Quality

Sulphur Dioxide = $80 \mu\text{g}/\text{m}^3$ (annual mean), $122 \mu\text{g}/\text{m}^3$ (monthly mean)

Nitrogen Dioxide = $100 \mu\text{g}/\text{m}^3$ (annual mean), $153 \mu\text{g}/\text{m}^3$ (monthly mean)

PM 10 (Particulate Matter ≤ 10 microns) = $50 \mu\text{g}/\text{m}^3$ (annual mean), $76 \mu\text{g}/\text{m}^3$ (monthly mean)

Carbon Monoxide = $10 \text{ mg}/\text{m}^3$ (maximum 8-hour value)

Ozone = $235 \mu\text{g}/\text{m}^3$ (maximum 1-hour value)

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

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 this same Act, a death must be registered within 7 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 selected police stations and sub-urban police posts. The registration system is comprehensive and the records of vital statistics are virtually complete. Deaths are not in complete.

Measures of natality and mortality include the crude birth and crude death rates. These are defined as the number of live-births and deaths respectively of Singapore residents per thousand mid-year population. The crude birth rate is defined as the number of live-births per thousand mid-year population. The crude death rate is defined as the number of deaths per thousand mid-year population. 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-General of Births and Deaths at least 21 days before the date of the marriage. 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-General of Births and Deaths at least 21 days before the date of the marriage.

Pertinent information on Muslim divorces are compiled from records maintained by the Syariah Court while those on non-Muslim divorces are compiled from petitions filed in the civil courts. The Administration of Muslim Law Act, 1966, repealed and replaced by the Administration of Muslim Law Act, 1966.

Population Census and Statistics Department. The first census was taken in April 1871. After that, regular censuses were conducted in 1881, 1891, 1901, 1911, 1921, 1931, 1941, 1951, 1961, 1971, 1981, 1991, 2001, 2011, 2021, 2031, 2041, 2051, 2061, 2071, 2081, 2091, 2101, 2111, 2121, 2131, 2141, 2151, 2161, 2171, 2181, 2191, 2201, 2211, 2221, 2231, 2241, 2251, 2261, 2271, 2281, 2291, 2301, 2311, 2321, 2331, 2341, 2351, 2361, 2371, 2381, 2391, 2401, 2411, 2421, 2431, 2441, 2451, 2461, 2471, 2481, 2491, 2501, 2511, 2521, 2531, 2541, 2551, 2561, 2571, 2581, 2591, 2601, 2611, 2621, 2631, 2641, 2651, 2661, 2671, 2681, 2691, 2701, 2711, 2721, 2731, 2741, 2751, 2761, 2771, 2781, 2791, 2801, 2811, 2821, 2831, 2841, 2851, 2861, 2871, 2881, 2891, 2901, 2911, 2921, 2931, 2941, 2951, 2961, 2971, 2981, 2991, 3001, 3011, 3021, 3031, 3041, 3051, 3061, 3071, 3081, 3091, 3101, 3111, 3121, 3131, 3141, 3151, 3161, 3171, 3181, 3191, 3201, 3211, 3221, 3231, 3241, 3251, 3261, 3271, 3281, 3291, 3301, 3311, 3321, 3331, 3341, 3351, 3361, 3371, 3381, 3391, 3401, 3411, 3421, 3431, 3441, 3451, 3461, 3471, 3481, 3491, 3501, 3511, 3521, 3531, 3541, 3551, 3561, 3571, 3581, 3591, 3601, 3611, 3621, 3631, 3641, 3651, 3661, 3671, 3681, 3691, 3701, 3711, 3721, 3731, 3741, 3751, 3761, 3771, 3781, 3791, 3801, 3811, 3821, 3831, 3841, 3851, 3861, 3871, 3881, 3891, 3901, 3911, 3921, 3931, 3941, 3951, 3961, 3971, 3981, 3991, 4001, 4011, 4021, 4031, 4041, 4051, 4061, 4071, 4081, 4091, 4101, 4111, 4121, 4131, 4141, 4151, 4161, 4171, 4181, 4191, 4201, 4211, 4221, 4231, 4241, 4251, 4261, 4271, 4281, 4291, 4301, 4311, 4321, 4331, 4341, 4351, 4361, 4371, 4381, 4391, 4401, 4411, 4421, 4431, 4441, 4451, 4461, 4471, 4481, 4491, 4501, 4511, 4521, 4531, 4541, 4551, 4561, 4571, 4581, 4591, 4601, 4611, 4621, 4631, 4641, 4651, 4661, 4671, 4681, 4691, 4701, 4711, 4721, 4731, 4741, 4751, 4761, 4771, 4781, 4791, 4801, 4811, 4821, 4831, 4841, 4851, 4861, 4871, 4881, 4891, 4901, 4911, 4921, 4931, 4941, 4951, 4961, 4971, 4981, 4991, 5001, 5011, 5021, 5031, 5041, 5051, 5061, 5071, 5081, 5091, 5101, 5111, 5121, 5131, 5141, 5151, 5161, 5171, 5181, 5191, 5201, 5211, 5221, 5231, 5241, 5251, 5261, 5271, 5281, 5291, 5301, 5311, 5321, 5331, 5341, 5351, 5361, 5371, 5381, 5391, 5401, 5411, 5421, 5431, 5441, 5451, 5461, 5471, 5481, 5491, 5501, 5511, 5521, 5531, 5541, 5551, 5561, 5571, 5581, 5591, 5601, 5611, 5621, 5631, 5641, 5651, 5661, 5671, 5681, 5691, 5701, 5711, 5721, 5731, 5741, 5751, 5761, 5771, 5781, 5791, 5801, 5811, 5821, 5831, 5841, 5851, 5861, 5871, 5881, 5891, 5901, 5911, 5921, 5931, 5941, 5951, 5961, 5971, 5981, 5991, 6001, 6011, 6021, 6031, 6041, 6051, 6061, 6071, 6081, 6091, 6101, 6111, 6121, 6131, 6141, 6151, 6161, 6171, 6181, 6191, 6201, 6211, 6221, 6231, 6241, 6251, 6261, 6271, 6281, 6291, 6301, 6311, 6321, 6331, 6341, 6351, 6361, 6371, 6381, 6391, 6401, 6411, 6421, 6431, 6441, 6451, 6461, 6471, 6481, 6491, 6501, 6511, 6521, 6531, 6541, 6551, 6561, 6571, 6581, 6591, 6601, 6611, 6621, 6631, 6641, 6651, 6661, 6671, 6681, 6691, 6701, 6711, 6721, 6731, 6741, 6751, 6761, 6771, 6781, 6791, 6801, 6811, 6821, 6831, 6841, 6851, 6861, 6871, 6881, 6891, 6901, 6911, 6921, 6931, 6941, 6951, 6961, 6971, 6981, 6991, 7001, 7011, 7021, 7031, 7041, 7051, 7061, 7071, 7081, 7091, 7101, 7111, 7121, 7131, 7141, 7151, 7161, 7171, 7181, 7191, 7201, 7211, 7221, 7231, 7241, 7251, 7261, 7271, 7281, 7291, 7301, 7311, 7321, 7331, 7341, 7351, 7361, 7371, 7381, 7391, 7401, 7411, 7421, 7431, 7441, 7451, 7461, 7471, 7481, 7491, 7501, 7511, 7521, 7531, 7541, 7551, 7561, 7571, 7581, 7591, 7601, 7611, 7621, 7631, 7641, 7651, 7661, 7671, 7681, 7691, 7701, 7711, 7721, 7731, 7741, 7751, 7761, 7771, 7781, 7791, 7801, 7811, 7821, 7831, 7841, 7851, 7861, 7871, 7881, 7891, 7901, 7911, 7921, 7931, 7941, 7951, 7961, 7971, 7981, 7991, 8001, 8011, 8021, 8031, 8041, 8051, 8061, 8071, 8081, 8091, 8101, 8111, 8121, 8131, 8141, 8151, 8161, 8171, 8181, 8191, 8201, 8211, 8221, 8231, 8241, 8251, 8261, 8271, 8281, 8291, 8301, 8311, 8321, 8331, 8341, 8351, 8361, 8371, 8381, 8391, 8401, 8411, 8421, 8431, 8441, 8451, 8461, 8471, 8481, 8491, 8501, 8511, 8521, 8531, 8541, 8551, 8561, 8571, 8581, 8591, 8601, 8611, 8621, 8631, 8641, 8651, 8661, 8671, 8681, 8691, 8701, 8711, 8721, 8731, 8741, 8751, 8761, 8771, 8781, 8791, 8801, 8811, 8821, 8831, 8841, 8851, 8861, 8871, 8881, 8891, 8901, 8911, 8921, 8931, 8941, 8951, 8961, 8971, 8981, 8991, 9001, 9011, 9021, 9031, 9041, 9051, 9061, 9071, 9081, 9091, 9101, 9111, 9121, 9131, 9141, 9151, 9161, 9171, 9181, 9191, 9201, 9211, 9221, 9231, 9241, 9251, 9261, 9271, 9281, 9291, 9301, 9311, 9321, 9331, 9341, 9351, 9361, 9371, 9381, 9391, 9401, 9411, 9421, 9431, 9441, 9451, 9461, 9471, 9481, 9491, 9501, 9511, 9521, 9531, 9541, 9551, 9561, 9571, 9581, 9591, 9601, 9611, 9621, 9631, 9641, 9651, 9661, 9671, 9681, 9691, 9701, 9711, 9721, 9731, 9741, 9751, 9761, 9771, 9781, 9791, 9801, 9811, 9821, 9831, 9841, 9851, 9861, 9871, 9881, 9891, 9901, 9911, 9921, 9931, 9941, 9951, 9961, 9971, 9981, 9991, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 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1842, 1843, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 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3 DEMOGRAPHY

Population Census

Singapore's first census was taken in April 1871. After that, regular censuses were undertaken in 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. Singapore conducted her first register-based Census in 2000. The other three post-independence censuses were conducted in 1970, 1980 and 1990. In 1995, Singapore also conducted her first mid-decade mini census.

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 away for short periods of time during Census, as well as foreigners 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. Foreigners 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 foreigners (both working and non-working) staying in Singapore for at least one year.

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 gazetted police stations/sub-stations/neighbourhood police posts. 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 1981 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-Muslim divorces are compiled from petitions

3 DEMOGRAPHY (cont'd)

submitted to the Supreme 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 refer 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	418.3	na	3.3	na
1931	557.7	na	2.9	na
1947	938.2	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	2.4	1.8
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

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.

Total population comprises all citizens and permanent residents with local residence and foreigners staying in Singapore for 1 year or more.

Singapore residents refer to citizens and permanent residents with local residence.

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

Deaths

Further information on deaths is compiled from records maintained by the Syariah Court while death or non-Muslim deaths are supplied from hospitals.

3.2 VITAL RATES

Year	Rate of Natural Increase	Crude Birth Rate	Crude Death Rate	Infant Mortality Rate	Total Fertility Rate	Gross Reproduction Rate
	Per 1,000 Population			Per 1,000 Live-births	Per 1,000 Females 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	5,756	2,775
1965	24.1	29.5	5.4	26.3	4,659	2,273
1970	17.0	22.1	5.2	20.5	3,065	1,490
1975	12.6	17.7	5.1	13.9	2,073	1,002
1980	12.7	17.6	4.9	8.0	1,818	879
1990	13.5	18.2	4.7	6.6	1,827	880
1995	10.8	15.6	4.8	3.8	1,670	803
1996	10.5	15.2	4.7	3.6	1,661	797
1997	10.0	14.5	4.5	3.6	1,607	773
1998	8.5	13.1	4.6	4.1	1,473	714
1999	8.3	12.8	4.5	3.3	1,465	701
2000	9.1	13.6	4.5	2.5	1,586	759

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

Thousand

Age Group (Years)	1990	1995	1996	1997	1998	1999	2000
Males							
Total	1,386.3	1,515.0	1,540.4	1,565.2	1,589.8	1,611.6	1,630.3
0 - 4	116.0	126.9	124.2	122.2	118.5	114.0	110.3
5 - 9	106.7	119.4	125.2	130.6	132.7	131.2	129.9
10 - 14	102.7	108.7	108.8	108.1	111.1	117.9	121.7
15 - 19	115.2	103.3	104.5	105.2	107.8	108.0	109.1
20 - 24	121.6	118.9	116.3	113.7	108.7	106.6	106.5
25 - 29	147.8	131.5	129.2	129.2	130.4	131.2	129.5
30 - 34	152.1	155.1	154.8	153.2	151.4	146.6	142.2
35 - 39	130.4	155.7	158.6	159.8	161.3	162.6	162.3
40 - 44	104.5	132.5	138.7	145.0	150.0	154.1	158.0
45 - 49	64.8	105.2	114.1	117.5	122.3	127.9	132.7
50 - 54	59.5	64.3	64.7	73.9	83.2	92.0	104.1
55 - 59	49.9	57.8	61.5	63.8	64.5	64.9	62.2
60 - 64	41.1	46.9	47.7	47.7	48.9	51.9	54.4
65 - 69	29.4	37.0	38.2	39.1	40.1	41.0	42.7
70 - 74	20.5	24.0	25.2	26.9	28.8	30.4	31.9
75 & Over	24.1	28.1	28.7	29.4	30.1	31.3	32.7
Females							
Total	1,349.6	1,499.6	1,527.5	1,555.9	1,584.9	1,610.3	1,632.9
0 - 4	108.0	118.9	116.7	113.9	111.0	106.3	102.9
5 - 9	98.9	111.3	117.0	122.8	124.5	123.3	122.1
10 - 14	95.8	100.9	100.6	100.4	103.5	110.3	113.7
15 - 19	108.1	96.8	98.0	98.5	100.7	100.9	102.3
20 - 24	117.4	118.7	115.8	113.2	108.9	106.7	106.1
25 - 29	143.2	135.8	134.7	136.0	138.4	139.4	138.1
30 - 34	146.2	154.0	154.6	154.0	153.3	150.7	148.7
35 - 39	125.6	152.1	154.8	156.5	158.4	160.4	160.7
40 - 44	101.6	128.7	135.3	141.5	147.1	151.5	155.1
45 - 49	63.6	103.1	112.0	115.4	119.8	124.8	129.9
50 - 54	58.6	64.0	64.0	73.0	82.6	91.1	103.0
55 - 59	50.2	58.1	62.6	65.5	66.2	66.2	63.3
60 - 64	41.9	48.9	49.6	49.5	50.8	54.0	56.7
65 - 69	30.5	39.6	41.0	42.0	42.8	44.2	46.4
70 - 74	24.5	26.8	28.1	29.8	31.9	34.2	36.1
75 & Over	35.4	41.8	42.7	43.8	45.1	46.3	47.7

3.4

SINGAPORE RESIDENTS BY AGE GROUP, ETHNIC GROUP
AND SEX, END JUNE 2000

Thousand

Ethnic Group / Sex	Total	0 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39
Total	3,263.2	213.3	252.1	235.4	211.3	212.6	267.6	290.9	323.1
Males	1,630.3	110.3	129.9	121.7	109.1	106.5	129.5	142.2	162.3
Females	1,632.9	102.9	122.1	113.7	102.3	106.1	138.1	148.7	160.7
Chinese	2,505.4	148.3	177.5	167.1	154.8	167.6	211.7	222.9	245.6
Males	1,245.8	76.8	91.6	86.7	80.1	84.1	102.6	108.4	123.4
Females	1,259.6	71.4	85.9	80.4	74.7	83.5	109.2	114.5	122.2
Malays	453.6	41.1	48.2	44.6	36.9	27.9	32.5	38.3	45.8
Males	228.2	21.3	24.9	22.8	19.0	14.3	16.2	18.8	22.9
Females	225.5	19.8	23.3	21.8	17.9	13.7	16.3	19.4	22.9
Indians	257.8	19.8	22.3	20.2	16.8	14.8	20.2	25.3	26.7
Males	134.5	10.2	11.4	10.3	8.6	7.1	9.5	13.3	13.9
Females	123.2	9.7	10.9	9.8	8.2	7.7	10.7	12.1	12.8
Others	46.4	4.1	4.1	3.6	2.8	2.2	3.2	4.4	4.9
Males	21.8	2.1	2.1	1.8	1.4	1.0	1.2	1.7	2.1
Females	24.6	2.0	2.0	1.7	1.4	1.2	2.0	2.7	2.9

Thousand

Ethnic Group / Sex	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 & Over
Total	313.0	262.6	207.1	125.5	111.1	89.2	68.0	40.1	40.4
Males	158.0	132.7	104.1	62.2	54.4	42.7	31.9	17.9	14.9
Females	155.1	129.9	103.0	63.3	56.7	46.4	36.1	22.2	25.5
Chinese	245.4	211.7	169.8	103.9	90.3	70.1	52.0	31.4	35.4
Males	123.7	107.4	85.5	51.5	44.2	32.9	22.4	12.6	12.0
Females	121.8	104.4	84.3	52.4	46.1	37.2	29.6	18.8	23.3
Malays	39.5	29.4	20.5	11.5	11.6	10.4	8.0	4.6	2.8
Males	19.9	14.5	10.0	5.4	5.6	4.7	4.0	2.4	1.5
Females	19.6	14.9	10.5	6.2	6.0	5.7	4.0	2.1	1.3
Indians	23.7	18.1	13.9	8.5	7.8	7.5	7.0	3.5	1.7
Males	12.4	9.2	7.0	4.5	3.9	4.6	5.0	2.5	1.2
Females	11.3	9.0	6.9	3.9	3.8	2.9	2.0	0.9	0.6
Others	4.4	3.4	2.8	1.6	1.5	1.2	1.1	0.6	0.5
Males	2.0	1.7	1.5	0.9	0.7	0.6	0.5	0.3	0.2
Females	2.4	1.7	1.3	0.8	0.8	0.6	0.6	0.3	0.3

Note : Singapore residents refer to citizens and those who have been granted permanent residence in Singapore.

3.5 AGE-SPECIFIC AND TOTAL FERTILITY RATES

Age Group (Years)	Per Thousand Resident Females						
	1990	1995	1996	1997	1998	1999	2000
15 - 19	8.3	6.6	6.8	6.8	7.5	8.4	8.7
20 - 24	58.7	46.9	44.8	42.0	39.6	37.2	41.9
25 - 29	136.0	125.5	122.7	116.7	105.1	105.0	109.1
30 - 34	110.8	107.4	108.4	107.2	96.0	97.5	107.1
35 - 39	44.3	41.2	42.6	41.7	39.7	38.5	42.9
40 - 44	7.4	6.5	7.0	7.0	6.6	6.4	7.4
Total Fertility Rate	1,827	1,670	1,661	1,607	1,473	1,465	1,586

Note : The rates were computed based on resident live-births per 1,000 resident females.

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

	Number						
	1990	1995	1996	1997	1998	1999	2000
Total	51,142	48,635	48,577	47,333	43,664	43,336	46,631
Males	26,500	25,295	25,306	24,553	22,505	22,572	24,346
Females	24,641	23,339	23,269	22,778	21,158	20,763	22,285
Birth Order							
1st	20,325	20,158	19,804	19,416	18,860	18,778	19,755
2nd	18,232	17,280	17,519	17,127	15,030	15,170	16,836
3rd	9,624	8,279	8,297	7,934	6,966	6,671	7,128
4th	2,258	2,212	2,291	2,184	2,108	1,970	2,107
5th	481	505	470	482	500	523	549
6th & over	218	199	195	189	200	221	256
Place of Occurrence							
Public Sector Hospitals	24,214	21,179	20,979	21,150	20,191	20,091	21,235
Private Sector Hospitals	26,618	27,296	27,449	26,028	23,341	23,096	25,246
Nursing Homes	71	-	-	-	-	-	-
Other Locations	239	160	149	155	132	149	150

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 2000 are based on date of registration.

3.7 MALE AND FEMALE AGE-SPECIFIC DEATH RATES

Age Group (Years)	Per Thousand Residents						
	1990	1995	1996	1997	1998	1999	2000
Males							
Total	5.1	5.4	5.2	5.0	5.0	4.9	4.9
Under 1 ¹	7.1	4.4	3.6	4.1	4.1	3.2	2.8
1 - 4	0.4	0.4	0.4	0.3	0.3	0.2	0.3
5 - 9	0.2	0.2	0.2	0.2	0.1	0.1	0.1
10 - 14	0.3	0.3	0.3	0.2	0.2	0.2	0.3
15 - 19	0.5	0.5	0.5	0.4	0.4	0.4	0.3
20 - 24	0.8	0.7	0.7	0.8	0.6	0.7	0.7
25 - 29	0.8	0.6	0.7	0.6	0.6	0.6	0.6
30 - 34	0.9	0.8	0.8	0.8	0.8	0.7	0.8
35 - 39	1.4	1.3	1.2	1.0	1.1	1.0	1.3
40 - 44	2.1	1.8	2.0	1.9	1.7	1.7	1.8
45 - 49	4.0	3.6	3.1	2.6	2.8	2.5	2.7
50 - 54	6.8	5.8	5.9	5.2	4.9	4.7	4.2
55 - 59	12.0	10.6	9.7	9.2	9.1	8.3	7.8
60 - 64	20.8	17.9	17.8	16.6	16.1	15.9	14.3
65 - 69	30.1	29.3	27.7	26.6	27.0	24.8	24.1
70 & Over	68.0	74.0	70.0	65.6	66.0	63.8	62.4
Females							
Total	4.3	4.2	4.2	4.1	4.1	4.1	4.1
Under 1 ¹	6.2	3.2	3.5	3.1	4.1	3.4	2.2
1 - 4	0.2	0.2	0.3	0.2	0.3	0.2	0.3
5 - 9	0.1	0.2	0.1	0.1	0.1	0.1	0.2
10 - 14	0.2	0.2	0.2	0.1	0.2	0.2	0.2
15 - 19	0.2	0.2	0.3	0.2	0.3	0.3	0.2
20 - 24	0.4	0.3	0.3	0.3	0.2	0.3	0.2
25 - 29	0.4	0.3	0.4	0.3	0.4	0.3	0.3
30 - 34	0.6	0.5	0.5	0.5	0.4	0.4	0.5
35 - 39	1.0	0.8	0.7	0.7	0.6	0.6	0.7
40 - 44	1.4	1.2	1.1	1.1	1.0	1.0	1.0
45 - 49	2.4	2.0	1.8	1.8	1.7	1.9	1.7
50 - 54	4.2	3.5	3.4	3.2	3.2	2.6	2.7
55 - 59	7.4	6.2	5.5	5.3	5.1	4.8	4.3
60 - 64	10.9	9.8	9.4	9.3	9.6	8.2	8.1
65 - 69	18.6	16.7	16.5	16.2	15.8	14.9	15.0
70 & Over	55.2	56.2	55.6	53.2	52.5	51.6	50.0

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	1990	1995	1996	1997	1998	1999	2000
Total	13,891	15,569	15,590	15,305	15,657	15,516	15,692
Infective & Parasitic Diseases	347	369	358	318	361	311	264
of which : Tuberculosis	113	118	132	115	128	107	97
Neoplasms	3,314	3,921	4,034	4,178	4,091	4,168	4,254
of which: Cancer	3,269	3,898	3,985	4,128	4,050	4,134	4,220
Endocrine, Nutritional & Metabolic Diseases	388	327	403	366	401	444	453
of which : Diabetes	332	271	320	282	308	350	351
Diseases of the Blood & Blood-forming Organs	50	37	37	44	35	50	50
Diseases of the Nervous System & Sense Organs	143	89	89	95	110	105	112
Diseases of the Circulatory System	5,152	5,560	5,896	5,680	5,711	5,810	5,674
of which : Heart & Hypertensive Diseases	3,385	3,742	3,984	3,943	3,950	4,061	3,920
Cerebrovascular Disease	1,666	1,701	1,805	1,645	1,633	1,633	1,611
Diseases of the Respiratory System	2,112	2,912	2,534	2,385	2,579	2,357	2,460
of which : Pneumonia	1,191	2,028	1,693	1,553	1,780	1,641	1,758
Bronchitis	32	15	13	13	5	14	15
Diseases of the Digestive System	374	409	416	357	418	412	317
Diseases of the Genito-Urinary System	346	483	444	399	494	470	481
Congenital Anomalies	189	157	130	108	112	95	81
of which : Congenital Anomalies of Heart	84	89	74	68	57	48	44
Certain Causes of Perinatal Mortality	123	51	64	61	62	52	46
Accidents, Poisonings & Violence	1,008	1,113	1,040	1,187	1,110	1,066	677
of which :							
Motor Vehicle Accidents	246	233	237	283	231	215	153
Other Accidents	200	220	226	289	241	240	111
Suicides	354	401	271	346	371	309	273
Other Diseases & Causes ¹	345	141	145	127	173	176	823
of which : Senility	108	4	6	3	6	17	5

Source : Registry of Births and Deaths

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

¹ Figure for 2000 includes causes of death that are pending the Coroner's decision.

Mean Age at First Marriage¹

2 Include annulments of marriages.

3.10 AGE-SPECIFIC MARRIAGE RATES

15 - 19	1.2	1.2	1.5	1.2	1.2	1.4	1.7
20 - 24	35.1	29.2	27.9	33.1	26.8	28.7	23.6
25 - 29	107.6	113.0	108.8	117.3	98.9	116.2	101.1
30 - 34	96.4	107.9	109.9	107.4	97.7	106.8	90.7
35 - 39	68.5	70.7	70.1	75.0	64.9	68.5	57.2
40 - 44	41.6	54.7	51.0	46.7	48.4	49.1	38.3
General Marriage Rate	52.6	55.1	53.2	56.8	49.4	54.7	46.4

3.11 GROOMS BY AGE GROUP

							Number
Age Group (Years)	1990	1995	1996	1997	1998	1999	2000
Women's Charter							
Total	19,191	20,553	19,935	21,300	18,971	21,561	18,550
Under 20	68	61	71	55	64	84	85
20 - 24	2,988	2,626	2,443	2,868	2,237	2,424	1,889
25 - 29	8,654	8,833	8,417	9,366	8,281	9,604	8,025
30 - 34	4,834	5,318	5,155	5,045	4,452	4,970	4,439
35 - 39	1,689	2,196	2,222	2,303	2,134	2,360	2,121
40 - 44	567	902	936	952	1,002	1,133	1,089
45 - 49	196	349	393	415	420	528	501
50 & Over	195	268	298	296	381	458	401
Muslim Law Act							
Total	4,762	4,412	4,171	4,367	4,135	4,087	4,011
Under 20	67	68	83	72	72	76	103
20 - 24	1,164	878	842	858	741	739	688
25 - 29	2,198	1,743	1,606	1,612	1,532	1,542	1,479
30 - 34	746	903	799	884	869	755	705
35 - 39	293	391	387	451	424	427	442
40 - 44	117	206	198	216	235	250	278
45 - 49	60	96	113	113	108	140	140
50 & Over	117	127	143	161	154	158	176

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
	1990	1995	1996	1997	1998	1999	2000	
Women's Charter								
Total	19,191	20,553	19,935	21,300	18,971	21,561	18,550	
Under 20	765	493	475	425	514	496	452	
20 - 24	7,160	7,254	6,564	7,174	5,847	6,387	5,159	
25 - 29	7,678	8,427	8,367	9,093	8,335	9,748	8,509	
30 - 34	2,462	2,811	2,874	2,857	2,615	2,968	2,662	
35 - 39	791	1,018	1,058	1,076	1,000	1,145	1,028	
40 - 44	232	351	391	435	402	484	463	
45 - 49	62	134	132	154	164	210	174	
50 & Over	41	65	74	86	94	123	103	
Muslim Law Act								
Total	4,762	4,412	4,171	4,367	4,135	4,087	4,011	
Under 20	558	420	386	359	421	383	431	
20 - 24	2,109	1,805	1,678	1,676	1,519	1,441	1,327	
25 - 29	1,307	1,164	1,090	1,188	1,118	1,162	1,139	
30 - 34	407	492	489	539	490	460	463	
35 - 39	226	289	248	282	295	320	302	
40 - 44	92	134	146	154	153	173	182	
45 - 49	23	67	86	102	92	93	96	
50 & Over	40	41	48	67	47	55	71	

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						
	1990	1995	1996	1997	1998	1999	2000
Women's Charter							
Total	19,191	20,553	19,935	21,300	18,971	21,561	18,550
Chinese	16,899	17,972	17,242	18,760	16,078	18,689	15,739
Indians	1,140	1,020	1,087	946	999	877	842
Others	106	170	198	200	243	217	208
Inter-ethnic	1,046	1,391	1,408	1,394	1,651	1,778	1,761
Muslim Law Act							
Total	4,762	4,412	4,171	4,367	4,135	4,087	4,011
Malays	3,718	3,270	3,033	3,197	3,021	2,919	2,806
Indians	241	256	248	264	250	218	221
Others	18	27	26	10	19	22	21
Inter-ethnic	785	859	864	896	845	928	963

Source : Registry of Marriages

Registry of Muslim Marriages

Note See note to Table 3.12.

3.14 AGE-SPECIFIC DIVORCE RATES

Age Group (Years)	1990	1995	1996	1997	1998	1999	2000
Males (per thousand married resident males)							
20 - 24	13.4	14.9	16.1	21.2	28.0	32.7	27.1
25 - 29	13.3	12.1	12.5	14.2	18.9	15.6	15.0
30 - 34	10.6	9.7	9.8	11.0	11.7	11.2	11.1
35 - 39	7.5	8.4	8.7	8.7	9.9	9.2	9.3
40 - 44	5.7	6.5	7.1	6.7	7.6	7.4	7.0
45 - 49	4.1	5.5	5.7	5.6	6.1	6.0	5.9
50 & Over	1.6	2.0	2.3	2.5	3.1	2.7	2.7
General Divorce Rate	6.1	6.1	6.4	6.6	7.5	6.9	6.7
Females (per thousand married resident females)							
20 - 24	13.9	15.7	17.0	20.2	29.0	23.6	22.3
25 - 29	12.8	11.2	11.8	14.0	14.8	14.0	13.6
30 - 34	8.4	8.6	9.3	9.3	11.0	10.2	10.1
35 - 39	6.1	7.5	7.5	7.4	8.3	8.0	7.8
40 - 44	4.5	5.5	6.3	5.6	6.7	6.4	6.0
45 - 49	2.7	4.0	4.7	4.5	5.7	4.8	4.6
50 & Over	0.8	1.4	1.4	1.9	2.1	2.0	2.0
General Divorce Rate	6.1	6.2	6.6	6.6	7.6	7.0	6.7

Note : Figures include annulments of marriages.

3.15 MALE DIVORCEES BY AGE GROUP

Age Group (Years)								Number
	1990	1995	1996	1997	1998	1999	2000	
Women's Charter								
Total ¹	2,662	3,315	3,546	3,676	4,186	3,770	3,553	
Under 20	1	-	-	-	-	-	-	
20 - 24	35	33	28	32	43	33	37	
25 - 29	443	367	363	385	487	420	381	
30 - 34	746	703	724	776	833	739	684	
35 - 39	606	774	812	771	866	767	725	
40 - 44	393	573	649	617	696	661	561	
45 - 49	181	410	468	449	515	468	456	
50 & Over	191	326	372	474	573	477	488	
Muslim Law Act								
Total	972	983	1,088	1,212	1,465	1,563	1,607	
Under 20	2	2	2	5	-	4	5	
20 - 24	59	32	47	63	57	62	72	
25 - 29	233	134	152	169	203	204	229	
30 - 34	269	250	270	303	326	322	286	
35 - 39	155	213	239	285	342	343	354	
40 - 44	109	149	165	170	240	251	284	
45 - 49	49	92	94	105	121	167	167	
50 & Over	96	111	119	112	176	210	210	

Source : Supreme Court

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)	1990	1995	1996	1997	1998	1999	2000
Women's Charter							
Total ¹	2,662	3,315	3,546	3,676	4,186	3,770	3,553
Under 20	3	-	1	1	2	1	1
20 - 24	180	182	163	181	223	170	150
25 - 29	761	677	691	749	805	764	725
30 - 34	736	755	813	803	936	829	768
35 - 39	455	703	713	694	756	698	602
40 - 44	288	446	529	493	580	516	490
45 - 49	104	248	333	320	400	330	326
50 & Over	68	174	171	265	312	255	274
Muslim Law Act							
Total	972	983	1,088	1,212	1,465	1,563	1,607
Under 20	18	13	16	19	8	19	24
20 - 24	162	107	133	139	169	158	189
25 - 29	301	178	199	286	292	288	297
30 - 34	178	245	250	270	332	331	315
35 - 39	155	190	200	212	278	294	323
40 - 44	79	118	155	137	189	237	204
45 - 49	36	75	81	81	118	117	120
50 & Over	43	57	54	68	79	119	135

Source : Supreme Court

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						
	1990	1995	1996	1997	1998	1999	2000
Women's Charter							
Total	2,662	3,315	3,546	3,676	4,186	3,770	3,553
Chinese	2,339	2,849	2,980	3,176	3,568	3,109	2,899
Indians	192	258	315	256	339	260	211
Others	22	21	66	19	28	202	226
Inter-ethnic	109	187	185	225	251	199	217
Muslim Law Act							
Total	972	983	1,088	1,212	1,465	1,563	1,607
Malays	762	803	933	1,015	1,141	1,183	1,131
Indians	53	39	24	43	58	52	76
Others	9	5	4	8	20	14	40
Inter-ethnic	148	136	127	146	246	314	360

Source : Supreme Court
Syariah Court

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

4 LABOUR AND PRODUCTIVITY

Labour Force

Labour force data are based on the mid-year Labour Force Surveys since 1974. For 1990, 1995 and 2000, labour force data were based on Population Censuses and the mid-decade (1995) General Household Survey (GHS). Population Censuses and the GHS collect data on the economic activities of the population, including detailed information on employment and unemployment, characteristics of the labour force and economically inactive persons. The data refer to persons aged fifteen years and over.

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 in terms of value added at 1990 prices.

Monthly Earnings and Hours Worked

Statistics on average monthly earnings of workers are compiled based on the payroll of CPF contributors. Statistics on weekly hours worked are compiled from various establishment surveys conducted by the Ministry of Manpower. Prior to 1988, the coverage included public and private sector establishments with at least 10 employees. From 1988, only private sector establishments with at least 25 employees are included. The data for the two periods are thus not strictly comparable.

Definitions

Monthly Earnings : Refers to all remuneration received before deduction of the employee's CPF contributions and personal income tax. It includes annual wage supplement and variable payments/bonuses.

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.

Manpower Deployment

The Manpower Deployment Department of the Ministry of Manpower provides free service to Singapore citizens and permanent residents seeking employment to look for suitable jobs and assists employers to recruit workers. Registration for employment assistance by job seekers and notification of job vacancies by employers are voluntary.

4 LABOUR AND PRODUCTIVITY (cont'd)

Definitions

A registrant refers to an unemployed job seeker who is registered for employment assistance at the Department. Each registration is valid for 2 months. If a registrant wants further assistance after the period, he has to renew his registration.

A new registrant refers to an unemployed registrant seeking employment assistance the first time or an ex-registrant who is re-registered for employment assistance after a break between his previous and current registration.

Statistics on the number of registrants and the number of vacancies notified and filled are compiled from administrative records.

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 CPF contribution rates (as a percentage of the employee's salary) from 1 April–31 December 2000 are as follows:

<u>Age</u>	<u>Employer</u> %	<u>Employee</u> %	<u>Total</u> %
35 years and below	12	20	32
Above 35 to 45 years	12	20	32
Above 45 to 55 years	12	20	32
Above 55 to 60 years	4.5	12.5	17
Above 60 to 65 years	2.5	7.5	10
Above 65 years	2.5	5	7.5

Each member has three accounts - the Ordinary, Medisave and Special Account. 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 hospitalisation and approved medical expenses, and to pay for premiums of approved medical insurance for members and their dependants. *Special Account* is for old age and contingency purposes.

Savings in the CPF earn interest. The rate is based on the 12-month fixed deposit and month-end savings rates of the four major local banks and it is revised quarterly. The CPF Act guarantees members a minimum interest rate of 2.5% p.a. For funds placed for retirement and a longer period of time, like savings in the Special and Retirement Accounts, members earn additional interest of 1.5 percentage points above the prevailing CPF interest rate.

Members can withdraw their CPF savings when they reach 55 years of age after

4 LABOUR AND PRODUCTIVITY (cont'd)

setting aside a 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 minimum sum until 31 December 2000 was \$40,000.

Singapore Productivity and Standards Board

The Singapore Productivity and Standards Board (PSB) was established in April 1996. Its mission is to raise productivity so as to enhance Singapore's competitiveness and economic growth for a better quality of life for our people. The specific areas of focus are as follows:

Small and Medium-sized Enterprises (SMEs)

PSB adopts a total approach to develop SMEs into vibrant and resilient enterprises that enhance Singapore's competitiveness and economic growth. Under the enterprise-level approach, PSB assists promising SMEs to grow into larger and regional enterprises. At the sector level, PSB spearheads the upgrading of the domestic industries. Under the broad-based approach, PSB aims to provide a first point of contact for SMEs with information and assistance needs, accelerate the adoption of e-commerce amongst SMEs, develop Singapore as an SME hub and provide SMEs with access to finance.

Productivity and Innovation

PSB spearheads the national Productivity and Innovation Movement that aims to cultivate a strong commitment to productivity and innovation and to foster a creative and thinking workforce that is able to translate ideas into action.

As the lead agency in charge of in-employment training, PSB works closely with employers, unions and other government agencies to build up the capabilities of the workforce and the training infrastructure in Singapore. PSB administers the Skills Development Fund, which provides financial assistance to employers to train and upgrade the skills of their employees.

PSB also assists organisations to attain world-class standards of business excellence, through the Singapore Quality Award for business excellence and the Singapore Quality Class.

Standardisation and Metrology

PSB improves market access for Singapore's exports through its work on standardisation and metrology. Standardisation is also used as a major strategy to raise the productivity of industries.

PSB enforces the Weights & Measures Act and Regulations to protect both consumers and traders by ensuring that the market transactions based on weights and measurement are accurate and fair. PSB also administers the Singapore Consumer Protection (Safety Requirements) Registration Scheme to ensure compliance by industry on the registration of controlled goods.

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.

Trade Disputes

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

4 LABOUR AND PRODUCTIVITY (cont'd)

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 Division 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 the Labour Force Survey of Singapore."

4.4 AGE-SPECIFIC LABOUR FORCE PARTICIPATION RATES

Age Group (Years)	Year									
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Total	68.0	68.1	68.0	67.8	67.7	67.6	67.5	67.4	67.3	67.2
15-19	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
20-24	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
25-29	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
30-34	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
35-39	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
40-44	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
45-49	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
50-54	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
55-59	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
60-64	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
65-69	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
70-74	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
75 & Over	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

4.1 LABOUR FORCE

	1990	1995	1996	1997	1998	1999	2000
Labour Force ('000)	1,562.8	1,749.3	1,801.9	1,876.0	1,931.8	1,976.0	2,192.3
Males	934.3	1,072.4	1,054.6	1,107.8	1,125.1	1,138.6	1,324.3
Females	628.5	676.9	747.4	768.2	806.7	837.4	868.0
Employed ('000)	1,537.0	1,702.1	1,748.1	1,830.5	1,869.7	1,885.9	2,094.8
Males	916.7	1,044.0	1,023.6	1,081.0	1,089.6	1,087.2	1,270.8
Females	620.3	658.1	724.5	749.4	780.1	798.6	824.0
Unemployed ('000)	25.8	47.2	53.8	45.5	62.1	90.1	97.5
Males	17.6	28.4	31.0	26.8	35.5	51.4	53.5
Females	8.2	18.8	22.8	18.7	26.6	38.7	44.0
Labour Force Participation Rate (%)	66.0	64.4	64.6	64.2	63.9	64.7	68.6
Males	79.0	78.4	78.7	78.3	77.5	77.8	81.1
Females	53.0	50.1	51.5	51.1	51.3	52.7	55.5
Unemployment Rate ¹ (%)	1.4	2.0	2.2	1.8	2.4	3.6	3.5

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

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

1 Seasonally adjusted.

4.2 AGE-SPECIFIC LABOUR FORCE PARTICIPATION RATES

Age Group (Years)	Per Cent						
	1990	1995	1996	1997	1998	1999	2000
Total	66.0	64.4	64.6	64.2	63.9	64.7	68.6
15 - 19	30.9	19.9	20.1	16.8	14.7	17.2	19.1
20 - 24	82.5	76.9	76.1	73.5	71.5	74.0	77.4
25 - 29	86.4	86.6	88.1	88.2	87.9	87.1	91.1
30 - 34	80.5	80.3	82.1	82.5	82.9	83.6	87.1
35 - 39	77.4	77.9	79.0	78.3	80.0	79.4	82.0
40 - 44	75.7	76.6	77.4	77.8	78.6	78.5	79.8
45 - 49	70.7	74.3	75.3	76.0	76.3	78.0	77.3
50 - 54	62.2	65.1	67.5	68.8	68.6	69.1	69.1
55 - 59	45.6	49.7	52.6	50.9	53.0	53.5	51.7
60 - 64	31.4	28.9	31.3	32.4	30.7	34.6	31.7
65 - 69	22.2	17.9	20.5	20.6	18.2	20.2	17.9
70 - 74	13.8	10.1	11.5	9.8	10.3	11.0	9.1
75 & Over	6.5	3.6	4.5	4.0	2.9	4.7	3.2

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

Note : See note to Table 4.1.

4.3 AGE-SPECIFIC MALE LABOUR FORCE PARTICIPATION RATES

Age Group (Years)								Per Cent
	1990	1995	1996	1997	1998	1999	2000	
Total	79.0	78.4	78.7	78.3	77.5	77.8	81.1	
15 - 19	30.0	20.4	21.7	17.1	15.8	17.2	18.0	
20 - 24	82.8	76.3	74.3	72.1	69.8	70.8	75.9	
25 - 29	94.8	94.6	96.4	94.9	94.5	93.4	96.5	
30 - 34	95.4	97.0	98.2	98.5	98.2	97.9	98.3	
35 - 39	96.4	97.6	98.2	98.2	98.7	98.2	98.2	
40 - 44	96.7	97.5	98.2	97.9	98.2	97.5	97.5	
45 - 49	94.7	96.3	96.8	96.9	97.2	96.7	96.3	
50 - 54	88.2	90.6	91.4	92.7	91.7	92.2	91.2	
55 - 59	69.0	73.7	77.8	76.2	76.6	76.1	74.4	
60 - 64	49.5	46.4	48.6	49.9	48.9	51.7	49.6	
65 - 69	35.2	29.9	33.5	34.3	29.6	33.1	29.5	
70 - 74	22.9	16.7	18.9	15.8	18.5	18.7	15.9	
75 & Over	11.8	6.5	8.9	7.8	5.3	9.5	6.3	

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

Note : See note to Table 4.1.

4.4 AGE-SPECIFIC FEMALE LABOUR FORCE PARTICIPATION RATES

Age Group (Years)								Per Cent
	1990	1995	1996	1997	1998	1999	2000	
Total	53.0	50.1	51.5	51.1	51.3	52.7	55.5	
15 - 19	31.8	19.3	18.5	16.4	13.6	17.2	20.1	
20 - 24	82.2	77.4	77.6	74.9	73.1	76.6	78.7	
25 - 29	77.9	78.9	81.4	82.4	82.4	81.9	84.9	
30 - 34	65.4	63.7	68.0	67.9	69.7	70.5	73.6	
35 - 39	57.9	57.7	60.5	59.1	62.0	60.8	63.0	
40 - 44	54.2	53.8	56.9	57.9	59.6	60.2	60.7	
45 - 49	45.9	50.8	53.9	54.9	55.6	59.6	57.4	
50 - 54	35.6	37.1	43.7	44.7	46.0	46.4	46.7	
55 - 59	22.4	25.2	28.5	27.1	30.0	32.0	29.6	
60 - 64	13.8	11.6	14.9	15.5	13.9	19.1	15.3	
65 - 69	9.8	6.8	8.9	8.7	8.0	8.9	7.5	
70 - 74	6.3	4.1	5.3	5.0	3.6	4.2	3.6	
75 & Over	2.9	1.7	1.6	1.6	1.4	1.4	1.2	

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

Note : See note to Table 4.1.

4.5 EMPLOYED PERSONS AGED 15 YEARS AND OVER BY OCCUPATIONAL STATUS

							Thousand
Occupational Status	1990	1995	1996	1997	1998	1999	2000
Total	1,537.0	1,702.1	1,748.1	1,830.5	1,869.7	1,885.9	2,094.8
Employers	46.0	85.1	98.4	99.5	91.5	107.4	89.3
Own Account Workers	103.9	91.6	137.3	124.3	143.9	147.5	121.8
Employees	1,371.1	1,505.6	1,491.6	1,588.1	1,614.7	1,610.8	1,876.1
Contributing Family Workers	16.1	19.9	20.9	18.6	19.6	20.2	7.6

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

Note : See note to Table 4.1.

4.6 EMPLOYED PERSONS AGED 15 YEARS AND OVER BY OCCUPATION

								Thousand
Occupation	1990	1995	1996	1997	1998	1999	2000	
Total	1,537.0	1,702.1	1,748.1	1,830.5	1,869.7	1,885.9	2,094.8	
Legislators, Senior Officials and Managers	132.1	218.0	215.3	230.2	239.1	233.1	249.3	
Professionals	74.7	135.6	128.6	164.1	172.0	187.0	186.6	
Technicians and Associate Professionals	165.9	258.3	307.5	319.7	332.4	339.8	313.1	
Clerical Workers	199.6	217.0	263.3	277.4	278.8	264.5	231.5	
Service Workers, Shop and Market Sales Workers	194.9	193.2	230.2	229.5	236.3	247.5	211.9	
Agricultural and Fishery Workers	4.2	1.4	1.7	2.6	1.5	2.1	1.5	
Production Craftsmen, Plant and Machine Operators, Cleaners and Labourers	704.2	607.9	541.4	546.3	547.6	548.5	847.7	
Others	61.4	70.7	60.1	60.7	62.1	63.4	53.3	

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

Notes : Data for 1990, 1995 and 2000 are classified according to the Singapore Standard Occupational Classification 2000.

Data for 1996 to 1999 are classified according to the Singapore Standard Occupational Classification 1990.

See note to Table 4.1.

4.7

EMPLOYED PERSONS AGED 15 YEARS AND OVER BY INDUSTRY

Industry	Thousand				
	1990	1995	1998	1999	2000
Total	1,537.0	1,702.1	1,869.7	1,885.9	2,094.8
Manufacturing	445.0	403.6	404.4	395.6	434.9
Construction	123.3	114.2	131.3	130.7	274.0
Wholesale & Retail Trade	240.2	242.9	281.2	278.9	286.8
Hotels & Restaurants	96.7	103.5	118.9	121.2	114.5
Transport, Storage & Communications	146.6	183.3	206.4	203.7	196.5
Financial Intermediation	61.1	86.8	108.5	104.6	96.3
Real Estate, Renting & Business Activities	111.9	175.7	184.3	196.8	226.2
Community, Social & Personal Services	299.7	374.0	418.0	436.3	452.7
Others ¹	12.6	18.2	16.8	18.0	12.9

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

Notes : Data for 1990, 1995 and 2000 are classified according to the Singapore Standard Industrial Classification 2000.

Data for 1998 and 1999 are classified according to the Singapore Standard Industrial Classification 1996.

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, 2000

Thousand					
Occupation	Total	Manufacturing	Construction	Wholesale & Retail Trade	Hotels & Restaurants
Total	2,094.8	434.9	274.0	286.8	114.5
Legislators, Senior Officials & Managers	249.3	49.4	22.1	74.7	9.8
Professionals	186.6	34.4	8.6	10.5	0.5
Technicians & Associate Professionals	313.1	67.3	11.9	40.1	3.5
Clerical Workers	231.5	37.7	9.6	47.6	8.4
Service Workers, Shop & Market Sales Workers	211.9	6.2	0.6	70.7	61.0
Production Craftsmen, Plant & Machine Operators, Cleaners & Labourers	847.7	240.0	221.2	43.1	31.3
Others ²	54.8	-	-	0.2	-

Occupation	Transport, Storage & Communications	Financial Intermediation	Real Estate, Renting & Business Activities	Community, Social & Personal Services	Others ¹
Total	196.5	96.3	226.2	452.7	12.9
Legislators, Senior Officials & Managers	20.4	18.0	38.9	14.6	1.4
Professionals	8.9	15.2	48.1	59.5	1.0
Technicians & Associate Professionals	29.9	33.7	52.2	71.5	2.9
Clerical Workers	34.8	26.7	31.0	34.4	1.3
Service Workers, Shop & Market Sales Workers	15.2	0.8	15.3	41.6	0.6
Production Craftsmen, Plant & Machine Operators, Cleaners & Labourers	87.3	1.9	40.8	177.6	4.5
Others ²	-	-	-	53.4	1.1

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

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

Divisional Status	Number						
	1990	1995	1996	1997	1998	1999	2000
Total	63,392	60,023	62,185	62,853	65,742	67,020	63,316
Division I	12,348	16,952	19,509	21,208	23,395	25,017	24,400
Division II	21,095	18,249	18,906	19,604	19,622	19,630	18,939
Division III	20,150	17,941	17,128	15,571	16,242	16,229	14,993
Division IV	9,799	6,881	6,642	6,470	6,483	6,144	4,984

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						
	1990	1995	1996	1997	1998	1999	2000
Total	2,195.2	2,683.5	2,741.8	2,782.0	2,803.4	2,828.1	2,880.0
Up to 20	112.6	105.1	99.2	100.9	94.3	88.8	90.3
> 20 - 25	252.5	238.0	229.9	218.6	204.6	197.0	202.2
> 25 - 30	385.9	315.7	299.7	291.2	285.6	280.6	271.7
> 30 - 35	391.0	413.5	404.3	389.3	370.1	348.1	331.4
> 35 - 40	332.2	404.2	411.6	417.4	422.4	423.2	419.0
> 40 - 45	248.2	343.5	360.4	373.7	384.0	393.8	404.6
> 45 - 50	133.7	263.3	280.7	294.6	310.8	326.3	342.5
> 50 - 55	116.2	144.7	156.0	179.8	199.2	222.9	251.8
Over 55	192.1	425.5	470.1	486.8	503.0	517.8	536.0
Not specified	30.8	30.0	29.9	29.7	29.6	29.6	30.5

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)

Age Group (Years)	Thousand						
	1990	1995	1996	1997	1998	1999	2000
Total	1,021.7	1,174.8	1,193.9	1,224.2	1,198.2	1,224.5	1,272.9
Up to 20	42.8	35.9	33.1	35.5	26.5	31.6	35.0
> 20 - 25	143.0	136.1	129.8	123.1	110.4	108.7	111.0
> 25 - 30	206.9	202.0	198.7	200.5	198.2	199.4	199.9
> 30 - 35	190.4	207.1	207.0	206.0	199.2	196.2	197.5
> 35 - 40	151.6	187.9	191.2	194.0	190.7	192.4	197.3
> 40 - 45	117.9	152.4	160.4	168.9	169.6	174.6	182.3
> 45 - 50	60.6	115.6	123.5	130.0	131.3	136.5	145.9
> 50 - 55	51.7	57.2	63.2	74.5	81.2	91.5	104.8
> 55 - 60	30.1	42.5	46.0	47.6	46.4	46.1	46.4
Over 60	26.2	37.8	40.7	43.9	44.6	47.4	52.7
Not specified	0.7	0.3	0.3	0.2	0.1	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)

Monthly Wage Level (\$)	Thousand						
	1990	1995	1996	1997	1998	1999	2000
Total	1,021.7	1,174.8	1,193.9	1,224.2	1,198.2	1,224.5	1,272.9
Up to 200	19.4	14.5	14.0	14.2	12.4	14.7	14.4
200 - 399	65.7	37.0	35.6	34.8	32.9	33.7	33.3
400 - 599	90.8	47.9	47.4	48.4	47.5	44.9	47.9
600 - 799	149.6	62.5	58.0	53.1	51.0	52.6	52.4
800 - 999	139.9	89.7	75.0	65.1	61.1	61.8	57.3
1,000 - 1,499	229.7	260.9	245.8	228.3	219.0	212.6	193.2
1,500 - 1,999	125.2	214.1	213.3	214.8	209.0	208.5	204.0
2,000 - 2,499	68.1	140.4	152.0	160.0	157.1	162.4	166.8
2,500 - 2,999	40.0	85.3	96.0	107.1	108.7	115.5	125.4
3,000 - 3,499	25.5	57.7	65.3	75.9	75.0	78.9	91.0
3,500 - 3,999	15.8	38.4	40.0	46.8	47.0	50.2	59.8
4,000 - 4,499	11.7	27.9	32.6	41.7	37.5	40.7	45.6
4,500 - 4,999	7.2	16.4	19.6	24.4	28.5	29.6	33.6
5,000 - 5,499	6.9	16.5	21.3	20.7	21.6	23.4	29.0
5,500 & Over	23.9	58.8	71.8	81.7	87.9	93.3	117.1
Not specified	2.1	6.8	6.2	7.2	2.1	1.7	2.1

Source : Central Provident Fund Board

Note : See note to Table 4.11.

4.13

CENTRAL PROVIDENT FUND CONTRIBUTORS BY INDUSTRY
(End of Period)

Industry							Thousand
	1990	1995	1996	1997	1998	1999	2000
Total	1,021.7	1,174.8	1,193.9	1,224.2	1,198.2	1,224.5	1,272.9
Agriculture & Fishing	2.0	2.5	2.6	2.9	3.0	3.0	3.4
Quarrying	0.4	0.4	0.4	0.4	0.4	0.4	0.3
Manufacturing	298.4	294.5	280.4	275.1	255.8	253.3	256.3
Utilities	6.8	6.7	6.7	6.6	6.9	6.8	7.0
Construction	40.1	66.3	76.0	81.3	78.7	79.0	79.1
Commerce	241.8	289.0	291.5	297.1	283.7	290.9	300.6
Transport & Communications	107.4	113.9	115.6	116.8	114.8	116.1	124.6
Financial & Business Services	138.5	200.4	211.3	225.5	230.1	241.7	261.4
Other Services	186.4	201.0	209.0	218.4	224.7	233.2	240.0
Activities Not Adequately Defined	0.1	0.1	0.4	0.1	0.1	0.1	0.2

Source : Central Provident Fund Board

Note : Data prior to 1998 are classified according to the Singapore Standard Industrial Classification 1990. From 1998 onwards, data are classified according to the Singapore Standard Industrial Classification 1996.

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

4.14

EMPLOYMENT SERVICE

							Number
	1990	1995	1996	1997	1998	1999	2000
Number on 'Live' Register ¹	1,187	1,345	2,746	2,352	7,776	5,155	3,457
New Registrants ²	3,462	2,660	4,230	4,777	19,784	29,407	17,676
Males	2,396	1,550	2,068	2,336	10,335	16,010	9,939
Females	1,066	1,110	2,162	2,441	9,449	13,397	7,737
Vacancies Filled	982	530	675	628	1,038	1,662	892
Males	643	324	377	345	498	966	533
Females	339	206	298	283	540	696	359

Source : Ministry of Manpower

¹ Figures are for end of period.² Job registrants can renew their registration after the 2-month validity period.

4.15 CHANGES IN LABOUR PRODUCTIVITY BY INDUSTRY

Industry	1990	1995	1996	1997	1998	1999	2000
Total	4.1	2.9	1.3	2.3	-2.7	6.3	5.6
Total (excluding Construction)	4.2	3.7	2.7	3.8	-2.1	6.5	5.8
Goods Producing Industries	4.1	3.5	-0.6	0.8	-1.3	12.4	8.6
Manufacturing	4.6	6.5	2.9	5.5	1.4	17.6	11.6
Construction	2.6	-2.9	-2.0	-3.3	-4.2	-2.3	-3.3
Services Producing Industries	6.1	3.0	2.8	3.7	-4.2	2.3	3.1
Wholesale & Retail Trade	8.7	6.2	3.2	3.9	-3.3	8.8	10.9
Hotels & Restaurants	-1.7	3.5	2.9	1.9	-9.0	3.9	5.7
Transport & Communications	4.8	6.1	3.4	4.6	4.7	6.2	4.0
Financial Services	5.3	-4.0	1.2	9.3	-10.9	-0.3	-3.9
Business Services	2.2	-0.9	0.2	-0.4	-6.4	-4.5	-3.3

Source : Singapore Department of Statistics and Ministry of Manpower

Note : The industries are classified according to the Singapore Standard Industrial Classification 1996.

4.16 MULTIFACTOR PRODUCTIVITY : CONTRIBUTIONS TO GROWTH IN REAL GDP

	1990	1995	1996	1997	1998	1999	2000
Percentage Change in Real GDP	8.6	7.7	7.3	8.2	0.1	5.7	9.4
Percentage Contribution to Growth in Real GDP of :							
Capital Input	3.3	4.2	5.1	5.1	3.9	3.2	3.3
Labour Input	2.1	2.3	2.9	2.9	1.4	-0.2	1.9
Multifactor Productivity Growth	3.2	1.1	-0.7	0.3	-5.2	2.7	4.2

Note : All growth rates are expressed in log terms.

4.17

AVERAGE MONTHLY EARNINGS BY INDUSTRY

Industry	Dollars						
	1990	1995	1996	1997	1998	1999	2000
Total	1,528	2,219	2,347	2,480	2,740	2,813	3,063
Manufacturing	1,395	2,157	2,320	2,487	2,716	2,803	3,036
Construction	1,275	1,941	1,971	1,991	2,143	2,226	2,333
Wholesale & Retail Trade	1,438	2,080	2,203	2,319	2,539	2,561	2,721
Hotels & Restaurants	914	1,233	1,271	1,303	1,320	1,291	1,332
Transport, Storage & Communications	1,610	2,261	2,425	2,581	2,802	2,836	3,105
Financial Services	2,251	3,079	3,270	3,522	4,399	4,528	4,931
Business & Real Estate Services	1,849	2,485	2,596	2,731	3,004	3,056	3,281
Community, Social & Personal Services	1,678	2,369	2,472	2,576	2,811	2,955	3,336

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.

The industries are classified according to the Singapore Standard Industrial Classification 1996.

4.18

AVERAGE WEEKLY HOURS WORKED BY INDUSTRY

Industry	Hours					
	1995	1996	1997	1998	1999	2000
Total	47.1	47.3	47.4	46.7	46.8	47.1
Total (excl Construction)	46.5	46.5	46.4	45.6	45.9	46.2
Manufacturing	49.3	49.4	49.5	48.4	49.3	50.2
Construction	51.4	51.8	51.7	51.4	51.3	51.6
Wholesale & Retail Trade	43.5	43.6	43.7	43.4	43.8	43.7
Hotels & Restaurants	42.4	42.8	42.6	41.0	40.7	40.8
Transport & Communications	47.3	47.3	46.9	46.4	46.1	46.3
Financial Services	43.1	43.1	43.0	42.8	43.3	43.3
Business Services	44.3	44.6	44.6	44.7	44.9	44.7

Source : Ministry of Manpower

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

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

For 2000, data are based on SSIC 2000.

4.19

AVERAGE MONTHLY RECRUITMENT RATE BY INDUSTRY AND OCCUPATIONAL GROUP

	1990	1995	1996	1997	1998	1999	2000	Per Cent
Total	4.6	3.6	3.2	3.2	2.3	2.6	3.2	
Industry								
Manufacturing	4.4	3.3	2.9	2.9	1.9	2.3	2.8	
Construction	3.3	3.3	2.9	3.1	2.4	2.3	2.6	
Wholesale & Retail Trade	5.4	4.9	4.4	4.3	2.8	3.5	4.3	
Hotels & Restaurants	7.9	6.0	4.5	4.9	3.6	4.6	4.6	
Transport, Storage & Communications	2.9	2.4	2.4	2.2	1.7	1.7	2.4	
Financial Services	3.1	2.5	2.5	2.4	1.8	1.8	2.4	
Real Estate & Business	4.3	4.0	3.9	4.2	3.1	3.8	4.5	
Community, Social & Personal Services	5.9	3.1	3.1	3.2	2.4	2.7	3.0	
Others ¹	4.1	2.4	2.0	2.7	1.9	1.7	1.3	
Occupational Group								
Professional, Technical, Administrative, Managerial, Executive & Related Employees	2.6	2.4	2.5	2.5	1.8	2.1	2.8	
Clerical, Sales, Service & Related Employees	5.8	4.5	4.0	4.0	2.9	3.4	4.1	
Production, Transport & All Other Employees	4.5	3.6	3.1	3.1	2.3	2.5	2.9	

Source : Ministry of Manpower

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

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

Data on industry for 2000 are based on SSIC 2000.

Data on occupation are classified according to the Singapore Standard Occupational Classification 1990.

1 Includes Agriculture, Fishing, Quarrying and Utilities.

4.20

AVERAGE MONTHLY RESIGNATION RATE BY INDUSTRY AND OCCUPATIONAL GROUP

								Per Cent
	1990	1995	1996	1997	1998	1999	2000	
Total	4.0	3.0	2.8	2.7	2.1	2.2	2.5	
Industry								
Manufacturing	4.0	3.0	2.8	2.5	1.9	1.9	2.1	
Construction	3.4	2.3	2.1	2.3	2.1	2.2	2.2	
Wholesale & Retail Trade	4.8	4.2	3.9	3.8	2.7	2.8	3.3	
Hotels & Restaurants	6.9	5.6	4.5	4.8	3.8	4.2	4.3	
Transport, Storage & Communications	2.0	1.9	1.8	1.7	1.4	1.4	1.7	
Financial Services	2.3	1.9	2.1	1.9	1.3	1.4	1.8	
Real Estate & Business	3.3	3.4	3.3	3.4	2.7	3.0	3.5	
Community, Social & Personal Services	4.9	2.6	2.5	2.5	2.0	2.1	2.5	
Others ¹	3.7	1.8	2.1	2.3	1.8	1.1	0.9	
Occupational Group								
Professional, Technical, Administrative, Managerial, Executive & Related Employees	1.8	1.8	1.8	1.9	1.4	1.6	2.0	
Clerical, Sales, Service & Related Employees	5.0	4.0	3.7	3.7	2.9	2.9	3.5	
Production, Transport & All Other Employees	4.1	3.1	2.8	2.7	2.0	2.2	2.2	

Source : Ministry of Manpower

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

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

Data on industry for 2000 are based on SSIC 2000.

Data on occupation are classified according to the Singapore Standard Occupational Classification 1990.

¹ Includes Agriculture, Fishing, Quarrying and Utilities.

4.21 PARTICIPANTS IN TRAINING COURSES CONDUCTED BY SINGAPORE PRODUCTIVITY AND STANDARDS BOARD

Industry	Number						
	1990	1995	1996	1997	1998	1999	2000
Total	21,823	33,619	39,633	44,868	40,672	56,038	73,436
Executive Development Programmes	4,270	3,973	3,205	3,970	4,254	4,034	4,358
Productivity Improvement Programmes ¹	7,226	2,695	3,306	9,574	9,902	13,997	21,868
Quality Circles (QCs) ²	3,988	3,100	5,754	4,426	5,195	2,766	3,219
Total Quality Programmes (TQP)	-	5,569	4,341	3,335	2,933	3,734	3,069
Productivity-Related Management Seminars/Conferences/Talks	4,299	11,230	16,934	17,382	13,597	28,862	35,726
FAST FORWARD Courses ³	2,040	4,216	4,242	3,878	3,395	1,429	1,966
On-the-Job Training (OJT) Courses ⁴	-	2,836	1,851	2,303	1,396	1,216	3,230

Source : Singapore Productivity and Standards Board

1 From 1997, figures include WIN programme which came under the Institute for Productivity Training in October 1996.

2 Prior to 1992, figures include Work Excellence Committees.

3 1990 data refer to July-December 1990.

4 Figures exclude workers who have been trained through their companies' in-house OJT courses.

4.22 QUALITY CIRCLES (End of Period)

Industry	Number						
	1990	1995	1996	1997	1998	1999	2000
Registered Quality Circles	10,363	17,723	19,241	19,651	20,566	24,554	25,646
Organisations (Companies, Government Bodies & Statutory Boards)	212	377	387	389	400	415	428
Membership	76,228	129,434	140,760	144,030	171,818	195,986	205,026

Source : Singapore Productivity and Standards Board

4.23

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

Type of Training	1989	1994	1995	1996	1997	1998	1999
Value of Assistance Committed (Thousand Dollars)							
Total	62,680	62,081	61,935	67,767	82,820	81,883	86,570
Productivity & Quality-related Skills	4,055	12,525	10,231	12,567	10,277	11,899	13,806
Computer-related Skills	7,807	10,040	10,354	12,089	10,884	15,093	11,449
Technical Production & Engineering Skills	11,004	7,039	6,528	9,617	12,394	8,191	15,903
Technical Service Skills	18,237	15,971	14,046	15,524	21,884	21,037	24,685
Management & Supervisory Skills	7,780	11,215	9,816	12,718	13,267	12,757	10,121
Trade & Craft Skills	7,149	4,654	10,299	4,393	13,049	11,832	9,643
Others	6,648	637	660	858	1,066	1,074	962
Training Places (Number)							
Total	280,293	493,338	461,651	483,286	502,686	530,755	575,240
Productivity & Quality-related Skills	31,907	96,099	99,379	112,904	96,381	117,847	157,082
Computer-related Skills	51,061	88,952	97,739	104,636	99,051	128,966	109,356
Technical Production & Engineering Skills	42,100	99,984	64,529	94,796	93,233	66,645	73,684
Technical Service Skills	84,667	126,834	114,613	92,889	128,346	128,993	146,511
Management & Supervisory Skills	54,813	67,946	72,412	68,570	69,631	70,777	70,226
Trade & Craft Skills	4,394	5,659	5,995	2,219	8,359	9,425	10,278
Others	11,351	7,864	6,984	7,272	7,685	8,102	8,103

Source : Singapore Productivity and Standards Board

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).

4.24 TRADE UNIONS AND MEMBERSHIP

(End of Period)

Industry	Number						
	1990	1995	1996	1997	1998	1999	2000
Employee Class							
Unions	83	81	83	82	80	76	72
Members	212,204	235,157	255,020	260,130	272,769	289,707	314,478
Employer Class							
Unions	5	3	3	3	3	3	3
Members	1,039	1,225	1,377	1,522	1,780	1,807	1,827

Source : Ministry of Manpower

4.25 LABOUR RELATIONS

	Number						
	1990	1995	1996	1997	1998	1999	2000
Trade Disputes	303	305	309	253	291	246	231
Claims Registered ¹	303	305	309	253	291	246	231
Wages	200	174	190	157	144	132	142
Others	103	131	119	96	147	114	89
Cases Referred to IAC ²	41	11	14	14	19	20	15
IAC Awards	46	9	11	12	10	12	9
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.

The per capita GNP 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 GNP 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 GNP.

Definitions

Gross National Product (GNP) : It refers to the aggregate value of output produced by productive factors owned by Singapore residents irrespective of whether they are located within Singapore's domestic territory or abroad.

Indigenous GNP : It refers to the aggregate value of output 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 1990 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 1990 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: GNP, 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: This is 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.

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

Foreign Investment

Data on foreign equity investment in Singapore are compiled from the balance sheets of all companies in Singapore which have part of their paid-up capital held by foreign residents.

Data on Singapore's overseas investment are gathered from the Survey of Singapore's Investment Abroad.

Definitions

Equity Capital: For incorporated companies, it refers to the amount of paid-up capital held by investors and the proportionate amount of reserves accrued to them. For branches of banks it is approximately equal to their "net fixed assets". For branches of other companies, it refers to the "net amount owed to their head offices".

Direct Investment: An investment is considered a direct investment when investors have effective influence over the policies and business operations of the companies they

invested in. Ownership of 10 per cent or more of the total paid-up shares is regarded as possession of effective influence.

Portfolio Investment: An investment is considered a portfolio investment when investors do not have effective influence over the policies and business operations of the companies they invested in.

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 and has data series from 1960 to 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 PRODUCT

(At Current Market Prices)

	1990	1995	1996	1997	1998	1999	2000
Million Dollars							
Total Gross Domestic Product	66,464.4	117,768.4	128,201.0	140,227.5	137,464.2	142,110.8	159,041.8
Share of Resident Foreigners & Resident Foreign Companies in GDP	21,487.1	38,715.5	42,926.3	47,860.0	46,546.6	47,738.2	55,332.6
Indigenous GDP	44,977.3	79,052.9	85,274.7	92,367.5	90,917.6	94,372.6	103,709.2
Factor Receipts of Singaporeans from Rest of the World	9,327.5	14,395.1	14,395.9	17,176.3	18,368.6	21,384.5	21,745.2
Indigenous GNP	54,304.8	93,448.0	99,670.6	109,543.8	109,286.2	115,757.1	125,454.3
Per Capita Indigenous GNP (\$)	19,849.0	30,998.0	32,489.0	35,098.0	34,423.0	35,928.0	38,445.0
Percentage Change Over Previous Year							
Total Gross Domestic Product	14.2	10.4	8.9	9.4	-2.0	3.4	11.9
Share of Resident Foreigners & Resident Foreign Companies in GDP	17.9	20.1	10.9	11.5	-2.7	2.6	15.9
Indigenous GDP	12.5	6.2	7.9	8.3	-1.6	3.8	9.9
Factor Receipts of Singaporeans from Rest of the World	30.9	19.7	0.0	19.3	6.9	16.4	1.7
Indigenous GNP	15.3	8.1	6.7	9.9	-0.2	5.9	8.4
Per Capita Indigenous GNP (\$)	11.6	6.2	4.8	8.0	-1.9	4.4	7.0

5.2 OUTPUT, SAVING AND INVESTMENT

(At Current Market Prices)

Million Dollars

	1990	1995	1996	1997	1998	1999	2000
Gross National Product (GNP)							
GNP at Market Prices	68,288.4	121,351.3	130,232.3	149,827.3	146,043.1	153,468.9	169,596.5
Gross Domestic Product (GDP) at Factor Cost	60,700.4	104,971.7	114,696.4	125,487.5	125,243.5	130,075.2	144,287.1
Taxes on Production & on Imports ¹	5,764.0	12,796.7	13,504.6	14,740.0	12,220.7	12,035.6	14,754.7
Net Factor Income from Abroad	1,824.0	3,582.9	2,031.3	9,599.8	8,578.9	11,358.1	10,554.7
Generation of Gross National Saving							
Gross National Saving	30,008.0	61,986.3	65,610.9	81,281.7	78,827.9	82,964.5	87,352.5
Gross Domestic Saving	28,947.3	59,658.7	65,084.8	73,417.4	72,086.1	73,578.5	79,139.9
GDP at Market Prices Less : Private & Government Consumption Expenditure	66,464.4	117,768.4	128,201.0	140,227.5	137,464.2	142,110.8	159,041.8
	37,626.2	58,963.5	64,948.9	69,635.9	68,104.8	71,418.3	80,185.6
Statistical Discrepancy	109.1	853.8	1,832.7	2,825.8	2,726.7	2,886.0	283.7
Net Factor Income from Abroad	1,824.0	3,582.9	2,031.3	9,599.8	8,578.9	11,358.1	10,554.7
Net Current Transfers from Abroad	-763.3	-1,255.3	-1,505.2	-1,735.5	-1,837.1	-1,972.1	-2,342.1
Finance of Gross Capital Formation							
Gross Capital Formation	24,348.8	40,867.2	47,531.4	54,663.9	44,796.7	46,098.6	49,776.4
Gross National Saving	30,008.0	61,986.3	65,610.9	81,281.7	78,827.9	82,964.5	87,352.5
Net Capital Transfers from Abroad	-39.6	-101.0	-195.6	-257.1	-377.8	-324.0	-280.5
Net Borrowing from/Lending (-) to Abroad	-5,619.6	-21,018.1	-17,883.9	-26,360.7	-33,653.4	-36,541.9	-37,295.6

1 Previously referred to as Indirect Taxes.

5.3 GROSS DOMESTIC PRODUCT BY INDUSTRY

Million Dollars

Industry	1990	1995	1996	1997	1998	1999	2000
At Current Market Prices							
Total	66,464.4	117,768.4	128,201.0	140,227.5	137,464.2	142,110.8	159,041.8
Goods Producing Industries	23,081.7	39,688.0	43,639.8	47,924.8	48,331.1	49,442.7	54,738.7
Manufacturing	18,010.0	29,217.5	30,531.0	32,338.8	32,531.7	35,623.1	42,121.5
Construction	3,584.6	8,365.8	10,629.2	12,689.2	12,885.6	11,197.6	9,684.0
Utilities	1,250.0	1,893.2	2,237.4	2,643.1	2,698.0	2,405.5	2,715.4
Other Goods Industries ¹	237.1	211.5	242.2	253.7	215.8	216.5	217.8
Services Producing Industries	44,044.6	80,191.2	87,118.8	95,572.9	92,508.7	96,677.4	107,989.1
Wholesale & Retail Trade	9,999.4	19,828.3	20,981.2	21,690.6	20,010.1	21,959.2	26,797.4
Hotels & Restaurants	2,576.6	3,616.5	3,880.8	4,147.1	3,812.6	3,829.9	4,309.5
Transport & Communications	8,741.9	14,232.8	14,768.2	15,803.8	15,732.9	16,650.5	17,986.0
Financial Services	7,220.9	13,928.1	14,713.9	18,189.4	18,458.6	19,867.7	20,314.4
Business Services	8,102.4	15,958.8	18,566.9	20,265.6	18,805.9	18,357.8	20,900.9
Other Services Industries	7,403.4	12,626.7	14,207.8	15,476.4	15,688.6	16,012.3	17,680.9
Owner-Occupied Dwellings	2,758.4	4,118.8	4,379.8	4,699.8	4,995.2	5,115.7	5,379.9
Add : Taxes and Duties on Imports	608.9	751.9	760.4	752.9	724.2	822.2	1,048.2
Less : Imputed Bank Service Charge	4,029.2	6,981.5	7,697.8	8,722.9	9,095.0	9,947.2	10,114.1
At 1990 Market Prices							
Total	66,464.4	102,859.4	110,699.2	120,140.2	120,206.9	127,250.0	139,839.5
Goods Producing Industries	23,081.7	35,809.0	38,444.0	41,341.5	41,589.8	44,535.2	49,054.3
Manufacturing	18,010.0	26,405.9	27,182.0	28,399.4	28,239.2	32,088.6	36,974.4
Construction	3,584.6	7,459.0	9,183.2	10,661.9	10,983.9	10,012.1	9,555.2
Utilities	1,250.0	1,741.0	1,868.6	2,069.8	2,170.9	2,240.8	2,333.9
Other Goods Industries ¹	237.1	203.1	210.2	210.4	195.8	193.7	190.8
Services Producing Industries	44,044.6	69,493.4	75,093.1	82,308.5	81,468.7	85,159.4	92,713.5
Wholesale & Retail Trade	9,999.4	17,450.5	18,523.2	19,713.4	18,901.6	20,234.2	23,312.8
Hotels & Restaurants	2,576.6	3,371.2	3,573.6	3,804.1	3,519.6	3,659.3	3,959.4
Transport & Communications	8,741.9	13,380.7	14,475.7	15,750.5	16,765.7	17,949.1	19,557.0
Financial Services	7,220.9	12,175.9	13,069.0	15,502.4	14,172.8	14,286.1	14,876.9
Business Services	8,102.4	12,359.6	13,522.2	14,650.9	14,809.3	15,031.0	16,016.9
Other Services Industries	7,403.4	10,755.5	11,929.4	12,887.2	13,299.7	13,999.7	14,990.5
Owner-Occupied Dwellings	2,758.4	3,475.5	3,679.6	3,893.3	4,180.8	4,494.3	4,772.3
Add : Taxes and Duties on Imports	608.9	669.4	672.1	693.9	706.3	834.4	1,035.1
Less : Imputed Bank Service Charge	4,029.2	6,587.9	7,189.6	8,097.0	7,738.7	7,773.3	7,735.7

Note : Data on industry are classified according to the Singapore Standard Industrial Classification 1996.

Prior to 1990, the aggregates may not equal the sum of their components.

¹ Comprise Agriculture, Fishing and Quarrying.

5.4 EXPENDITURE ON GROSS DOMESTIC PRODUCT

Million Dollars

	1990	1995	1996	1997	1998	1999	2000
At Current Market Prices							
Total	66,464.4	117,768.4	128,201.0	140,227.5	137,464.2	142,110.8	159,041.8
Private Consumption Expenditure	30,846.5	48,839.5	52,741.3	56,456.3	54,197.6	57,429.2	63,564.9
Government Consumption Expenditure	6,779.7	10,124.0	12,207.6	13,179.6	13,907.2	13,989.1	16,620.7
Gross Fixed Capital Formation	21,577.8	39,973.3	49,302.6	54,260.3	51,110.0	47,049.8	46,848.3
Increase in Stocks	2,771.0	893.9	-1,771.2	403.6	-6,313.3	-951.2	2,928.1
Net Exports of Goods & Services	4,598.5	18,791.5	17,553.4	18,753.5	27,289.4	27,479.9	29,363.5
Statistical Discrepancy	-109.1	-853.8	-1,832.7	-2,825.8	-2,726.7	-2,886.0	-283.7
At 1990 Market Prices							
Total	66,464.4	102,859.4	110,699.2	120,140.2	120,206.9	127,250.0	139,839.5
Private Consumption Expenditure	30,846.5	42,858.3	46,122.1	48,884.3	47,451.6	49,961.6	54,641.1
Government Consumption Expenditure	6,779.7	9,238.7	11,022.5	11,806.3	12,746.8	13,378.0	15,212.6
Gross Fixed Capital Formation	21,577.8	36,985.8	45,513.7	49,871.1	46,659.2	44,858.4	47,501.1
Increase in Stocks	2,771.0	678.1	-1,415.6	330.1	-4,664.3	-632.8	1,690.0
Net Exports of Goods & Services	4,598.5	13,600.4	11,168.4	11,663.9	20,327.7	22,243.3	23,449.0
Statistical Discrepancy	-109.1	-501.9	-1,711.9	-2,415.5	-2,314.1	-2,558.5	-2,654.3

5.5

PRIVATE CONSUMPTION EXPENDITURE

Million Dollars

	1990	1995	1996	1997	1998	1999	2000
At Current Market Prices							
Total	30,846.5	48,839.5	52,741.3	56,456.3	54,197.6	57,429.2	63,564.9
Food & Beverages	6,197.4	7,815.9	8,210.8	8,514.9	8,214.5	8,453.3	8,790.1
Clothing & Footwear	2,607.0	2,939.7	2,991.7	3,012.7	2,477.7	2,739.1	3,141.3
Rent & Utilities	4,379.9	6,860.2	7,360.7	7,969.1	8,469.5	8,652.6	9,195.3
Furniture & Household Equipment	2,912.5	4,196.4	4,553.0	4,802.2	4,591.9	4,837.4	5,166.7
Medical Services	1,533.5	2,470.2	2,776.1	3,046.8	3,169.6	3,384.8	3,528.4
Transport & Communications	5,620.1	10,649.4	10,503.5	10,607.8	9,810.6	11,413.3	13,919.0
Recreation & Education	5,980.5	8,549.5	8,686.0	8,992.4	8,428.2	8,979.6	10,161.3
Other Goods & Services	7,474.7	11,174.8	11,812.6	12,860.3	11,105.6	11,634.1	12,827.3
Add : Residents' Expenditure Abroad	2,642.8	5,280.0	6,524.2	6,220.7	6,283.8	6,267.5	6,911.2
Less : Non-residents' Expenditure							
Locally	8,501.9	11,096.6	10,677.3	9,570.6	8,353.8	8,932.5	10,075.7
At 1990 Market Prices							
Total	30,846.5	42,858.3	46,122.1	48,884.3	47,451.6	49,961.6	54,641.1
Food & Beverages	6,197.4	7,203.4	7,510.5	7,670.9	7,402.3	7,561.0	7,821.5
Clothing & Footwear	2,607.0	2,714.9	2,751.6	2,753.7	2,293.8	2,524.4	2,913.4
Rent & Utilities	4,379.9	5,916.3	6,250.4	6,675.7	7,198.3	7,649.8	8,002.3
Furniture & Household Equipment	2,912.5	3,880.2	4,205.1	4,416.2	4,188.5	4,440.3	4,767.8
Medical Services	1,533.5	1,842.7	1,979.8	2,071.9	2,051.7	2,220.8	2,277.2
Transport & Communications	5,620.1	8,164.2	8,274.7	8,132.4	8,077.4	9,094.7	10,682.3
Recreation & Education	5,980.5	7,618.8	7,809.3	7,996.6	7,377.0	7,927.0	9,076.7
Other Goods & Services	7,474.7	10,383.5	11,001.4	12,080.9	10,558.4	10,989.6	11,990.9
Add : Residents' Expenditure Abroad	2,642.8	5,140.7	6,138.5	5,873.0	6,091.6	6,023.3	6,503.4
Less : Non-residents' Expenditure							
Locally	8,501.9	10,006.4	9,799.2	8,787.0	7,787.4	8,469.3	9,394.4

5.6 GROSS FIXED CAPITAL FORMATION

Million Dollars

	1990	1995	1996	1997	1998	1999	2000
At Current Market Prices							
Total	21,577.8	39,973.3	49,302.6	54,260.3	51,110.0	47,049.8	46,848.3
Construction & Works	8,464.4	20,989.1	26,937.4	31,417.8	30,081.8	25,726.4	23,329.7
Residential Buildings	3,572.8	10,315.6	14,094.7	16,752.3	15,824.4	13,157.5	10,487.4
Non-residential Buildings	3,692.4	8,537.4	10,226.3	11,209.7	10,379.2	8,774.5	9,078.8
Other Construction & Works	1,199.2	2,136.1	2,616.4	3,455.8	3,878.2	3,794.4	3,763.5
Transport Equipment	3,554.0	5,856.7	7,800.2	7,498.6	6,915.0	6,375.3	4,149.6
Machinery & Equipment	9,559.4	13,127.5	14,565.0	15,343.9	14,113.2	14,948.1	19,369.0
At 1990 Market Prices							
Total	21,577.8	36,985.8	45,513.7	49,871.1	46,659.2	44,858.4	47,501.1
Construction & Works	8,464.4	17,754.6	21,821.2	25,083.2	24,778.4	22,408.8	22,322.2
Residential Buildings	3,572.8	8,372.7	10,853.9	12,835.9	12,812.0	11,212.3	9,699.9
Non-residential Buildings	3,692.4	7,456.2	8,663.9	9,300.1	8,692.3	7,834.0	8,852.7
Other Construction & Works	1,199.2	1,925.7	2,303.4	2,947.2	3,274.1	3,362.5	3,769.6
Transport Equipment	3,554.0	5,879.8	8,340.3	7,950.0	6,545.4	5,767.8	3,530.8
Machinery & Equipment	9,559.4	13,351.4	15,352.2	16,837.9	15,335.4	16,681.8	21,648.1

5.7 GROSS DOMESTIC PRODUCT DEFLATORS BY INDUSTRY

(1990=100)

Industry	1990	1995	1996	1997	1998	1999	2000
Total	100.0	114.5	115.8	116.7	114.4	111.7	113.7
Goods Producing Industries	100.0	110.8	113.5	115.9	116.2	111.0	111.6
Manufacturing	100.0	110.6	112.3	113.9	115.2	111.0	113.9
Construction	100.0	112.2	115.7	119.0	117.3	111.8	101.3
Utilities	100.0	108.7	119.7	127.7	124.3	107.4	116.3
Other Goods Industries ¹	100.0	104.1	115.2	120.6	110.2	111.8	114.2
Services Producing Industries	100.0	115.4	116.0	116.1	113.6	113.5	116.5
Wholesale & Retail Trade	100.0	113.6	113.3	110.0	105.9	108.5	114.9
Hotels & Restaurants	100.0	107.3	108.6	109.0	108.3	104.7	108.8
Transport & Communications	100.0	106.4	102.0	100.3	93.8	92.8	92.0
Financial Services	100.0	114.4	112.6	117.3	130.2	139.1	136.5
Business Services	100.0	129.1	137.3	138.3	127.0	122.1	130.5
Other Services Industries	100.0	117.4	119.1	120.1	118.0	114.4	117.9
Owner-Occupied Dwellings	100.0	118.5	119.0	120.7	119.5	113.8	112.7

Note : Data on industry are classified according to the Singapore Standard Industrial Classification 1996.

1 Comprise Agriculture, Fishing and Quarrying.

5.8 DEFLATORS OF EXPENDITURE ON GROSS DOMESTIC PRODUCT

(1990=100)

	1990	1995	1996	1997	1998	1999	2000
Total	100.0	114.5	115.8	116.7	114.4	111.7	113.7
Private Consumption Expenditure	100.0	114.0	114.4	115.5	114.2	114.9	116.3
Government Consumption Expenditure	100.0	109.6	110.8	111.6	109.1	104.6	109.3
Gross Fixed Capital Formation	100.0	108.1	108.3	108.8	109.5	104.9	98.6
Exports of Goods & Services	100.0	91.4	89.9	88.5	88.4	89.1	93.7
Imports of Goods & Services	100.0	88.5	86.8	85.3	84.6	86.1	91.2

5.9 INCOME COMPONENTS OF GROSS DOMESTIC PRODUCT

(At Current Market Prices)

	Million Dollars						
	1990	1995	1996	1997	1998	1999	2000
Total	66,464.4	117,768.4	128,201.0	140,227.5	137,464.2	142,110.8	159,041.8
Compensation of Employees	28,609.6	50,481.8	55,542.9	60,648.9	63,152.7	61,274.2	67,143.5
Gross Operating Surplus	32,082.1	55,360.8	59,703.8	64,771.6	60,629.5	67,528.8	75,591.1
of Financial Corporations	4,471.2	8,020.5	8,158.9	10,483.6	9,845.0	12,432.3	12,848.0
of Non-financial Corporations	24,157.4	42,723.9	46,548.8	48,972.2	46,090.1	50,634.3	57,945.9
of Others ¹	7,482.7	11,597.9	12,693.9	14,038.7	13,789.4	14,409.4	14,911.3
Less : Imputed Bank Service Charge	4,029.2	6,981.5	7,697.8	8,722.9	9,095.0	9,947.2	10,114.1
Taxes on Production & on Imports	5,764.0	12,796.7	13,504.6	14,740.0	12,220.7	12,035.6	14,754.7
Statistical Discrepancy	8.7	-870.9	-550.3	67.0	1,461.3	1,272.2	1,552.5

1 Refers to unincorporated enterprises and non-profit institutions.

5.10 BALANCE OF PAYMENTS

Million Dollars

	1990	1995	1996	1997	1998	1999	2000
A Current Account Balance	5,659.2	21,119.1	18,079.5	26,617.8	34,031.2	36,865.9	37,576.1
Goods Balance	-2,959.1	1,384.2	3,136.4	1,660.1	24,734.6	18,910.9	19,653.1
Exports of Goods	99,106.7	167,896.5	177,679.6	186,708.1	185,035.2	195,798.4	239,512.0
Imports of Goods	102,065.8	166,512.3	174,543.2	185,048.0	160,300.6	176,887.5	219,858.9
Services Balance	7,557.6	17,407.3	14,417.0	17,093.4	2,554.8	8,569.0	9,710.4
Exports of Services	23,220.3	42,023.2	42,241.3	45,276.4	32,048.4	40,653.4	46,616.2
Transportation	4,033.4	7,025.6	7,322.3	7,658.9	7,457.2	7,757.5	9,198.7
Travel	8,427.8	10,976.6	10,551.7	9,444.9	8,228.2	8,806.6	9,950.1
Insurance	160.3	502.4	559.7	661.2	898.9	870.3	1,343.3
Government	166.8	131.8	137.9	137.9	162.4	137.9	137.6
Others	10,432.0	23,386.8	23,669.7	27,373.5	15,301.7	23,081.1	25,986.5
Imports of Services	15,662.7	24,615.9	27,824.3	28,183.0	29,493.6	32,084.4	36,905.8
Transportation	6,367.6	8,401.4	8,860.7	9,380.3	9,729.7	10,660.2	13,800.8
Travel	3,262.0	6,564.1	8,115.9	7,736.0	7,813.8	7,791.6	8,597.7
Insurance	1,411.9	1,380.3	1,414.5	1,484.4	1,226.6	1,360.5	1,664.5
Government	119.9	167.6	137.2	166.1	189.1	187.9	184.9
Others	4,501.3	8,102.5	9,296.0	9,416.2	10,534.4	12,084.2	12,657.9
Income Balance	1,824.0	3,582.9	2,031.3	9,599.8	8,578.9	11,358.1	10,554.7
Income Receipts	11,796.4	18,365.7	17,672.7	20,628.6	21,705.1	25,381.9	26,294.6
Income Payments	9,972.4	14,782.8	15,641.4	11,028.8	13,126.2	14,023.8	15,739.9
Current Transfers (Net)	-763.3	-1,255.3	-1,505.2	-1,735.5	-1,837.1	-1,972.1	-2,342.1
General Government	-305.9	-313.5	-324.2	-348.3	-241.7	-374.9	-504.3
Other Sectors	-457.4	-941.8	-1,181.0	-1,387.2	-1,595.4	-1,597.2	-1,837.8
B Capital and Financial Account							
Balance	7,115.2	-1,345.4	-6,998.9	-16,554.6	-36,884.3	-31,308.2	-19,931.7
Capital Account (Net)	-39.6	-101.0	-195.6	-257.1	-377.8	-324.0	-280.5
Financial Account (Net)	7,154.8	-1,244.4	-6,803.3	-16,297.5	-36,506.5	-30,984.2	-19,651.2
Direct Investment	6,418.1	7,576.9	4,998.1	5,356.3	9,641.7	5,399.6	3,645.3
Portfolio Investment	-1,880.4	-10,430.2	-16,479.8	-19,310.1	-11,728.4	-12,008.8	-23,889.2
Official	-	-9,352.7	-13,825.8	-16,176.4	-12,499.6	-13,606.0	-13,774.6
Other Sectors	-1,880.4	-1,077.5	-2,654.0	-3,133.7	771.2	1,597.2	-10,114.6
Other Investment	2,617.1	1,608.9	4,678.4	-2,343.7	-34,419.8	-24,375.0	592.7
Assets	-399.1	-17,221.6	-19,088.8	-61,905.1	-5,949.1	-35,720.1	-9,122.0
Banks	4,909.1	1,635.1	-4,981.3	-18,384.6	3,711.2	-18,077.1	2,283.5
Official	-0.8	-4,968.1	-4,165.0	-3,212.8	-2,525.7	-1,119.5	134.4
Other Sectors	-5,307.4	-13,888.6	-9,942.5	-40,307.7	-7,134.6	-16,523.5	-11,539.9
Liabilities	3,016.2	18,830.5	23,767.2	59,561.4	-28,470.7	11,345.1	9,714.7
Banks	-1,863.8	6,268.8	11,324.9	27,746.2	-21,400.5	5,441.4	12,799.4
Other Sectors (incl Official)	4,880.0	12,561.7	12,442.3	31,815.2	-7,070.2	5,903.7	-3,084.7
C Net Errors and Omissions	-2,881.9	-7,599.8	-674.0	1,792.5	7,833.7	1,763.5	-5,809.0
D Overall Balance (A+B+C)	9,892.5	12,173.9	10,406.6	11,855.7	4,980.6	7,321.2	11,835.4
E Official Reserves (Net)¹	-9,892.5	-12,173.9	-10,406.6	-11,855.7	-4,980.6	-7,321.2	-11,835.4
Special Drawing Rights	-27.8	-15.5	-9.4	-38.3	-111.8	12.1	-29.6
Reserve Position in the Fund	3.0	-48.8	1.5	-135.5	-50.2	-294.0	40.5
Foreign Exchange Assets	-9,867.7	-12,109.6	-10,398.7	-11,681.9	-4,818.6	-7,039.3	-11,846.3

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

5.11 STOCK OF FOREIGN EQUITY INVESTMENT IN SINGAPORE BY INDUSTRY

(End of Period)

Million Dollars							
Industry	1988	1993	1994	1995	1996	1997	1998
Total (I+II)	41,276.7	73,285.2	86,811.7	99,215.7	115,648.0	138,960.7	157,839.5
(I) Direct Equity Investment	35,799.2	62,766.9	74,605.2	84,267.0	94,005.3	112,130.6	125,638.2
Agriculture & Fishing	38.3	36.6	34.5	34.3	46.1	52.6	44.5
Mining & Quarrying	-57.5	-1.4	2.1	-2.3	-12.7	-18.2	-5.6
Manufacturing	15,815.4	22,418.3	27,143.1	30,626.4	33,142.1	38,943.9	41,456.9
Construction	349.2	479.0	611.5	969.0	1,010.5	1,174.5	1,558.9
Commerce	3,858.4	9,113.2	11,461.0	11,697.2	12,839.3	14,582.5	18,837.4
Transport & Storage	522.8	1,971.5	2,534.8	2,654.5	3,136.4	3,754.4	4,639.5
Financial & Business Services	15,209.5	28,630.1	32,797.3	38,238.1	43,702.3	53,525.5	58,998.5
Other Services	63.1	119.6	20.9	49.8	141.2	115.3	108.1
(II) Portfolio & Other Equity Investment	5,477.5	10,518.3	12,206.5	14,948.7	21,642.7	26,830.1	32,201.3

Note : Negative figures result when outstanding amount due from foreign head offices to their Singapore branches are larger than the amount due from branches to the head offices.

5.12 STOCK OF SINGAPORE'S EQUITY INVESTMENT ABROAD BY INDUSTRY

(End of Period)

						Million Dollars	
Industry		1993	1994	1995	1996	1997	1998
Total (I+II)		27,952	37,065	50,082	57,865	71,226	64,678
(I)	Direct Equity Investment Abroad ¹	22,181	29,765	39,145	42,224	57,192	52,918
	Manufacturing	4,550	7,042	10,218	9,032	11,414	13,700
	Construction	187	236	411	302	499	558
	Commerce	2,285	2,800	3,777	3,602	4,125	3,947
	Transport & Storage	546	893	1,213	1,186	2,091	2,191
	Financial	12,225	15,473	19,612	24,215	33,582	27,655
	Real Estate	1,420	1,989	2,660	2,979	3,828	3,473
	Business Services	766	1,005	905	538	1,193	859
	Others	202	329	349	371	460	535
(II)	Portfolio Equity Investment Abroad	5,770	7,300	10,937	15,641	14,034	11,761

Notes : Data breakdown by industry prior to 1990 are not available.

Data prior to 1994 exclude investment undertaken by financial institutions such as banks, finance companies and insurance companies.

¹ Figures include stocks of attributable reserve of overseas subsidiaries and associates.

5.13

STOCK OF FOREIGN EQUITY INVESTMENT IN SINGAPORE BY COUNTRY

(End of Period)

Million Dollars								
	1988	1993	1994	1995	1996	1997	1998	
Total (I+II)	41,276.7	73,285.2	86,811.7	99,215.7	115,648.0	138,960.7	157,839.5	
(I) Direct Equity Investment	35,799.2	62,766.9	74,605.2	84,267.0	94,005.3	112,130.6	125,638.2	
Asia	10,859.5	21,965.6	25,800.9	28,388.4	31,016.9	33,717.7	38,706.4	
Asean	1,774.7	3,843.5	4,928.6	5,677.3	5,907.7	6,786.2	7,421.1	
Brunei	84.5	91.5	187.4	206.2	206.4	168.0	176.1	
Indonesia	96.8	170.6	575.0	788.2	873.0	1,092.4	1,389.3	
Malaysia	1,519.7	2,462.5	2,910.9	3,523.9	3,868.9	4,656.3	4,895.2	
Philippines	30.0	167.8	351.0	356.7	135.2	128.5	79.7	
Thailand	43.8	951.0	904.3	801.8	823.2	716.3	777.7	
Cambodia ¹	-	-	-	-	-	-2.3	0.4	
Myanmar ¹	-	-	-	-	-	25.2	98.8	
Vietnam ²	-	-	-	0.4	1.1	1.8	3.8	
China	103.3	223.6	234.0	335.3	445.9	539.1	1,275.1	
Hong Kong	2,245.3	3,758.7	3,623.1	3,910.4	4,172.4	3,772.4	2,928.4	
Japan	6,489.8	13,471.1	15,806.3	16,969.5	19,132.2	20,266.0	22,839.6	
South Korea	-61.1	-132.6	101.2	230.2	-26.7	5.8	592.2	
Taiwan	138.4	503.5	725.2	927.9	1,037.4	1,842.7	2,728.7	
Others	169.1	297.8	382.5	337.8	348.0	505.5	921.3	
Europe	9,662.1	17,847.6	22,383.5	24,815.7	29,734.1	33,833.0	40,498.2	
European Union	7,136.1	13,777.5	15,828.3	17,385.3	20,548.8	22,735.9	26,366.8	
France	289.9	1,099.3	1,999.9	2,103.1	2,109.5	3,271.7	3,607.8	
Germany	843.3	1,069.4	1,345.3	1,894.9	1,967.6	1,773.7	1,497.9	
Netherlands	1,968.1	4,056.6	4,194.6	4,397.2	6,921.8	6,941.8	9,221.6	
United Kingdom	3,920.6	6,165.9	6,616.8	6,666.3	7,011.1	8,305.8	9,570.3	
Others	114.2	1,386.3	1,671.7	2,323.8	2,538.8	2,442.9	2,469.2	
Switzerland	2,021.9	3,348.1	5,753.5	7,106.7	8,642.6	10,418.7	13,350.8	
Others	504.1	722.0	801.7	323.7	542.7	678.4	780.6	
Australia	3,321.6	3,128.1	3,281.2	3,131.6	3,214.9	3,258.2	3,927.8	
Canada	2,192.9	2,368.1	2,280.8	2,870.6	2,992.1	3,685.5	3,275.4	
New Zealand	113.8	164.3	84.4	99.3	139.7	149.8	164.8	
United States	7,672.5	11,251.3	12,051.7	14,253.0	15,775.8	20,679.4	20,002.8	
Other Countries	1,976.8	6,041.9	8,722.7	10,708.4	11,131.8	16,807.0	19,062.8	
(II) Portfolio & Other Equity Investment	5,477.5	10,518.3	12,206.5	14,948.7	21,642.7	26,830.1	32,201.3	

1 With effect from 1997, Cambodia and Myanmar are included in Asean total.

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

5.14 STOCK OF SINGAPORE'S EQUITY INVESTMENT ABROAD BY COUNTRY

(End of Period)

Million Dollars

	Country	1993	1994	1995	1996	1997	1998
	Total (I+II)	27,952	37,065	50,082	57,865	71,226	64,678
(I)	Direct Equity Investment Abroad	22,181	29,765	39,145	42,224	57,192	52,918
	Asia	11,643	17,358	23,264	24,057	30,782	32,743
	Asean	6,107	9,680	12,993	12,440	14,035	14,654
	Brunei	75	77	35	25	17	23
	Indonesia	620	1,997	3,305	3,071	5,416	5,219
	Malaysia	4,619	6,500	7,715	6,945	6,165	6,117
	Philippines	202	382	619	826	879	1,107
	Thailand	591	723	977	1,029	726	1,189
	Cambodia ¹	3	5	65	100	28	47
	Myanmar ¹	8	29	52	55	158	161
	Vietnam ²	70	127	342	543	647	791
	China	652	1,533	3,082	5,083	7,932	8,896
	Hong Kong	3,847	4,940	5,414	4,683	5,779	5,025
	India	22	56	168	267	208	244
	Japan	96	171	395	357	534	449
	Taiwan	394	496	570	523	924	1,171
	Others	444	322	527	549	1,370	2,305
	Europe	1,566	2,200	3,865	5,425	8,114	3,391
	France	4	54	53	73	88	89
	Netherlands	499	453	450	447	164	231
	United Kingdom	328	930	2,447	3,954	5,752	820
	Others	735	764	916	953	2,111	2,252
	Australia	583	999	1,257	1,204	1,114	935
	New Zealand	1,830	2,076	2,038	1,363	1,265	597
	United States	1,773	1,681	2,089	2,275	2,607	2,892
	Other Countries	4,787	5,452	6,632	7,900	13,310	12,359
(II)	Portfolio Equity Investment	5,770	7,300	10,937	15,641	14,034	11,761

Note : Data prior to 1994 exclude investment undertaken by financial institutions such as banks, finance companies and insurance companies.

1 With effect from 1997, Cambodia and Myanmar are included in Asean total.

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

RESEARCH AND DEVELOPMENT

Research Scientists and Engineers

(RSEs) : Refer to personnel who hold formal university qualifications and are principally employed in a research capacity. RSEs also include managers and administrators engaged in the planning and management of the research.

National Science & Technology Board

personnel who are principally employed in a research capacity through without formal qualifications.

RESEARCH

AND

DEVELOPMENT

applied or awarded.

This category

Source: National Science & Technology Board
 RSEs are defined as those who hold formal university qualifications and are principally employed in a research capacity through without formal qualifications.

6.3

R&D EXPENDITURE BY SECTOR

Million Dollars

Sector	1994	1995	1996	1997	1998	1999
Total	1,175.0	1,366.8	1,737.1	2,040.2	2,492.3	2,854.4
Private	756.2	881.4	1,111.4	1,314.5	1,535.1	1,679.9
Higher Education	179.5	193.4	238.7	277.7	305.5	316.0
Government	142.1	136.4	166.8	176.1	225.8	304.9
Public Research Institutes & Centres	217.2	255.6	258.2	296.2	350.5	470.6

Source: National Science & Technology Board

6 RESEARCH AND DEVELOPMENT

The R&D Sector

The data on R&D are collected from the National Survey of R&D in Singapore which covers R&D activities in the private sector, higher education sector, government sector and the public research institutes/centres. The survey is based on the guidelines given in the OECD Frascati Manual and is thus comparable with R&D surveys conducted by other countries which are based on the OECD methodology.

Definitions

R&D Expenditure : Includes capital expenditure (acquisition of fixed tangible assets involved in R&D activities), 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.

Research Scientists and Engineers (RSEs) : Refer to personnel who hold formal university qualifications and are principally employed in a research capacity. RSEs also include managers and administrators engaged in the planning and management of the research.

Researcher : Refers to RSEs plus personnel who are principally employed in a research capacity though without formal university qualifications.

Patents : Refers to those patents which are the result of R&D activities carried out in Singapore. 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	
	1994	1995	1996	1997	1998	1999		
Total	454	470	526	543	604	624		
Private	427	440	496	508	571	593		
Higher Education	6	6	6	6	6	6		
Government	16	14	11	14	13	12		
Public Research Institutes & Centres	5	10	13	15	14	13		

Source : National Science & Technology Board

6.2 R&D MANPOWER BY OCCUPATION

Occupation							Number	
	1994	1995	1996	1997	1998	1999		
Total	11,384	13,025	15,419	17,219	19,007	20,612		
Researchers								
RSE ¹	7,086	8,340	10,153	11,302	12,655	13,817		
Non-Degree	1,574	1,760	2,101	2,039	2,275	2,465		
Technicians	1,757	1,679	1,783	2,297	2,203	2,375		
Supporting Staff	967	1,246	1,382	1,581	1,874	1,955		

Source : National Science & Technology Board

1 RSE denotes Research Scientists and Engineers.

6.3 R&D EXPENDITURE BY SECTOR

Sector							Million Dollars	
	1994	1995	1996	1997	1998	1999		
Total	1,175.0	1,366.6	1,792.1	2,104.6	2,492.3	2,656.4		
Private	736.2	881.4	1,133.4	1,314.5	1,536.1	1,670.9		
Higher Education	179.5	193.4	238.7	277.7	305.8	310.0		
Government	142.1	110.4	166.8	216.1	299.8	304.9		
Public Research Institutes & Centres	117.2	181.4	253.2	296.2	350.5	370.6		

Source : National Science & Technology Board

6.4 R&D EXPENDITURE BY AREA OF RESEARCH, 1999

Million Dollars

Area of Research	Total	Private Sector	Higher Education Sector	Government Sector	Public Research Institutes & Centres
Total	2,656.3	1,670.9	310.0	304.9	370.6
Agricultural Sciences	26.1	4.0	1.2	1.9	19.1
Computer & Related Sciences	540.0	395.8	29.2	56.5	58.5
Engineering	1,263.5	896.1	154.8	62.7	149.8
Biomedical Sciences	113.7	34.2	46.8	29.1	3.6
Natural Sciences	267.9	106.9	54.0	23.6	83.4
Others	445.1	233.8	24.0	131.1	56.2

Source : National Science & Technology Board

6.5 R&D EXPENDITURE BY TYPE OF COSTS, 1999

Million Dollars

Type of Costs	Total	Private Sector	Higher Education Sector	Government Sector	Public Research Institutes & Centres
Total	2,656.3	1,670.9	310.0	304.9	370.6
Capital Costs	607.6	408.4	60.9	45.4	92.9
Land, Buildings & Other Structures	117.2	66.8	0.6	16.4	33.4
Vehicles, Plants, Machinery & Equipment	490.3	341.6	60.2	29.0	59.5
Manpower Costs	1,122.1	647.3	215.8	94.4	164.6
Researchers	967.8	568.9	193.3	75.1	130.6
RSE ¹	873.5	481.1	192.9	71.2	128.3
Non-Degree	94.2	87.8	0.4	3.8	2.3
Technicians	77.3	36.5	15.5	13.5	11.8
Others	77.0	41.9	7.0	5.9	22.2
Other Operating Costs	926.7	615.2	33.3	165.0	113.1

Source : National Science & Technology Board

¹ RSE denotes Research Scientists and Engineers.

6.6 R&D OUTPUT

	1994	1995	1996	1997	1998	1999
Patents Owned ¹ (No)	204	256	614	831	847	1,077
Patents Applied (No)	263	242	316	490	579	673
Patents Awarded (No)	58	51	91	132	136	161
Revenue from Royalties & Licensing of Patents / New Technologies Developed in Singapore (\$m)	53	111	27	27	51	672
Revenue from Royalties & Licensing of Patents / New Technologies Acquired from External Sources(\$m)	60	7	17	31	24	105
Sales revenue derived from commercialised products / processes attributed to R&D performed in Singapore (\$m)	na	na	6,381	9,647	13,370	10,664
Sales revenue derived from commercialised products / processes attributed to R&D performed in Singapore and launched within the last 2 years (\$m)	na	na	5,035	6,097	8,026	8,060

Source : National Science & Technology Board

1 As at end of period.

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
2	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0
3	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0
4	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	19.0
5	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	24.0
6	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	29.0
7	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	34.0
8	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	39.0
9	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	44.0
10	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	49.0
11	50.1	50.2	50.3	50.4	50.5	50.6	50.7	50.8	50.9	51.0	51.1	51.2	51.3	51.4	51.5	51.6	51.7	51.8	51.9	52.0	52.1	52.2	52.3	52.4	52.5	52.6	52.7	52.8	52.9	53.0	53.1	53.2	53.3	53.4	53.5	53.6	53.7	53.8	53.9	54.0
12	55.1	55.2	55.3	55.4	55.5	55.6	55.7	55.8	55.9	56.0	56.1	56.2	56.3	56.4	56.5	56.6	56.7	56.8	56.9	57.0	57.1	57.2	57.3	57.4	57.5	57.6	57.7	57.8	57.9	58.0	58.1	58.2	58.3	58.4	58.5	58.6	58.7	58.8	58.9	59.0
13	60.1	60.2	60.3	60.4	60.5	60.6	60.7	60.8	60.9	61.0	61.1	61.2	61.3	61.4	61.5	61.6	61.7	61.8	61.9	62.0	62.1	62.2	62.3	62.4	62.5	62.6	62.7	62.8	62.9	63.0	63.1	63.2	63.3	63.4	63.5	63.6	63.7	63.8	63.9	64.0
14	65.1	65.2	65.3	65.4	65.5	65.6	65.7	65.8	65.9	66.0	66.1	66.2	66.3	66.4	66.5	66.6	66.7	66.8	66.9	67.0	67.1	67.2	67.3	67.4	67.5	67.6	67.7	67.8	67.9	68.0	68.1	68.2	68.3	68.4	68.5	68.6	68.7	68.8	68.9	69.0
15	70.1	70.2	70.3	70.4	70.5	70.6	70.7	70.8	70.9	71.0	71.1	71.2	71.3	71.4	71.5	71.6	71.7	71.8	71.9	72.0	72.1	72.2	72.3	72.4	72.5	72.6	72.7	72.8	72.9	73.0	73.1	73.2	73.3	73.4	73.5	73.6	73.7	73.8	73.9	74.0
16	75.1	75.2	75.3	75.4	75.5	75.6	75.7	75.8	75.9	76.0	76.1	76.2	76.3	76.4	76.5	76.6	76.7	76.8	76.9	77.0	77.1	77.2	77.3	77.4	77.5	77.6	77.7	77.8	77.9	78.0	78.1	78.2	78.3	78.4	78.5	78.6	78.7	78.8	78.9	79.0
17	80.1	80.2	80.3	80.4	80.5	80.6	80.7	80.8	80.9	81.0	81.1	81.2	81.3	81.4	81.5	81.6	81.7	81.8	81.9	82.0	82.1	82.2	82.3	82.4	82.5	82.6	82.7	82.8	82.9	83.0	83.1	83.2	83.3	83.4	83.5	83.6	83.7	83.8	83.9	84.0
18	85.1	85.2	85.3	85.4	85.5	85.6	85.7	85.8	85.9	86.0	86.1	86.2	86.3	86.4	86.5	86.6	86.7	86.8	86.9	87.0	87.1	87.2	87.3	87.4	87.5	87.6	87.7	87.8	87.9	88.0	88.1	88.2	88.3	88.4	88.5	88.6	88.7	88.8	88.9	89.0
19	90.1	90.2	90.3	90.4	90.5	90.6	90.7	90.8	90.9	91.0	91.1	91.2	91.3	91.4	91.5	91.6	91.7	91.8	91.9	92.0	92.1	92.2	92.3	92.4	92.5	92.6	92.7	92.8	92.9	93.0	93.1	93.2	93.3	93.4	93.5	93.6	93.7	93.8	93.9	94.0
20	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.5	96.6	96.7	96.8	96.9	97.0	97.1	97.2	97.3	97.4	97.5	97.6	97.7	97.8	97.9	98.0	98.1	98.2	98.3	98.4	98.5	98.6	98.7	98.8	98.9	99.0
21	100.1	100.2	100.3	100.4	100.5	100.6	100.7	100.8	100.9	101.0	101.1	101.2	101.3	101.4	101.5	101.6	101.7	101.8	101.9	102.0	102.1	102.2	102.3	102.4	102.5	102.6	102.7	102.8	102.9	103.0	103.1	103.2	103.3	103.4	103.5	103.6	103.7	103.8	103.9	104.0
22	105.1	105.2	105.3	105.4	105.5	105.6	105.7	105.8	105.9	106.0	106.1	106.2	106.3	106.4	106.5	106.6	106.7	106.8	106.9	107.0	107.1	107.2	107.3	107.4	107.5	107.6	107.7	107.8	107.9	108.0	108.1	108.2	108.3	108.4	108.5	108.6	108.7	108.8	108.9	109.0
23	110.1	110.2	110.3	110.4	110.5	110.6	110.7	110.8	110.9	111.0	111.1	111.2	111.3	111.4	111.5	111.6	111.7	111.8	111.9	112.0	112.1	112.2	112.3	112.4	112.5	112.6	112.7	112.8	112.9	113.0	113.1	113.2	113.3	113.4	113.5	113.6	113.7	113.8	113.9	114.0
24	115.1	115.2	115.3	115.4	115.5	115.6	115.7	115.8	115.9	116.0	116.1	116.2	116.3	116.4	116.5	116.6	116.7	116.8	116.9	117.0	117.1	117.2	117.3	117.4	117.5	117.6	117.7	117.8	117.9	118.0	118.1	118.2	118.3	118.4	118.5	118.6	118.7	118.8	118.9	119.0
25	120.1	120.2	120.3	120.4	120.5	120.6	120.7	120.8	120.9	121.0	121.1	121.2	121.3	121.4	121.5	121.6	121.7	121.8	121.9	122.0	122.1	122.2	122.3	122.4	122.5	122.6	122.7	122.8	122.9	123.0	123.1	123.2	123.3	123.4	123.5	123.6	123.7	123.8	123.9	124.0
26	125.1	125.2	125.3	125.4	125.5	125.6	125.7	125.8	125.9	126.0	126.1	126.2	126.3	126.4	126.5	126.6	126.7	126.8	126.9	127.0	127.1	127.2	127.3	127.4	127.5	127.6	127.7	127.8	127.9	128.0	128.1	128.2	128.3	128.4	128.5	128.6	128.7	128.8	128.9	129.0
27	130.1	130.2	130.3	130.4	130.5	130.6	130.7	130.8	130.9	131.0	131.1	131.2	131.3	131.4	131.5	131.6	131.7	131.8	131.9	132.0	132.1	132.2	132.3	132.4	132.5	132.6	132.7	132.8	132.9	133.0	133.1	133.2	133.3	133.4	133.5	133.6	133.7	133.8	133.9	134.0
28	135.1	135.2	135.3	135.4	135.5	135.6	135.7	135.8	135.9	136.0	136.1	136.2	136.3	136.4	136.5	136.6	136.7	136.8	136.9	137.0	137.1	137.2	137.3	137.4	137.5	137.6	137.7	137.8	137.9	138.0	138.1	138.2	138.3	138.4	138.5	138.6	138.7	138.8	138.9	139.0
29	140.1	140.2	140.3	140.4	140.5	140.6	140.7	140.8	140.9	141.0	141.1	141.2	141.3	141.4	141.5	141.6	141.7	141.8	141.9	142.0	142.1	142.2	142.3	142.4	142.5	142.6	142.7	142.8	142.9	143.0	143.1	143.2	143.3	143.4	143.5	143.6	143.7	143.8	143.9	144.0
30	145.1	145.2	145.3	145.4	145.5	145.6	145.7	145.8	145.9	146.0	146.1	146.2	146.3	146.4	146.5	146.6	146.7	146.8	146.9	147.0	147.1	147.2	147.3	147.4	147.5	147.6	147.7	147.8	147.9	148.0	148.1	148.2	148.3	148.4	148.5	148.6	148.7	148.8	148.9	149.0
31	150.1	150.2	150.3	150.4	150.5	150.6	150.7	150.8	150.9	151.0	151.1	151.2	151.3	151.4	151.5	151.6	151.7	151.8	151.9	152.0	152.1	152.2	152.3	152.4	152.5	152.6	152.7	152.8	152.9	153.0	153.1	153.2	153.3	153.4	153.5	153.6	153.7	153.8	153.9	154.0
32	155.1	155.2	155.3	155.4	155.5	155.6	155.7	155.8	155.9	156.0	156.1	156.2	156.3	156.4	156.5	1																								

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. For companies with up-to-date accounts filed with the Singapore Registry of Companies and Businesses (RCB), the data were extracted from those accounts. For the remaining companies, data were collected directly via a postal survey of the companies.

Definitions

Local-controlled companies: Refer to companies with at least 50 per cent of their ordinary paid-up shares owned by shareholders who have their residential or registered address in Singapore, with the exception of subsidiaries of local companies which are foreign-controlled.

Foreign-controlled companies: Refer to companies with at least 50 per cent of their ordinary paid-up shares owned by shareholders who have their residential or registered address outside Singapore. They include branches of foreign corporations as well as subsidiaries of foreign-controlled companies.

Equity Ratio: It is defined as the ratio of shareholders' equity to the total debt or

liabilities. This ratio measures the dependence of companies on external funding i.e. funding which is not from its shareholders or to 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 further 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.

Other References

The report "Singapore's Corporate Sector, 1997-1998", published by the Singapore Department of Statistics, contains analyses of data and detailed tables showing the aggregated balance sheets and profit and loss accounts.

7.1 ACTIVE COMPANIES BY INDUSTRY

(End of Period)

Industry	Number						
	1988	1993	1994	1995	1996	1997	1998
Total	34,071	45,605	49,332	62,390	76,256	89,854	91,283
Agriculture & Fishing	109	90	62	77	197	211	259
Manufacturing	4,595	5,947	6,607	7,849	7,565	8,127	8,789
Construction	2,637	3,398	3,791	5,036	5,296	6,215	6,916
Commerce	14,037	18,870	20,015	24,421	30,432	37,225	37,355
Transport & Storage	2,502	3,591	4,034	4,849	5,500	6,582	6,409
Financial & Business Services	8,950	12,338	13,387	17,726	24,847	28,820	28,899
Social & Personal Services	1,206	1,360	1,416	2,407	2,383	2,640	2,610
Others	35	11	20	25	36	34	56

7.2 LOCAL-CONTROLLED COMPANIES BY INDUSTRY

(End of Period)

Industry	Number						
	1988	1993	1994	1995	1996	1997	1998
Total	26,654	34,362	36,242	51,100	65,271	73,664	71,925
Agriculture & Fishing	102	85	55	72	183	194	247
Manufacturing	3,581	4,624	4,697	6,465	6,444	6,864	7,451
Construction	2,334	2,963	3,132	4,765	4,887	5,726	6,475
Commerce	10,924	13,827	14,725	19,673	25,637	30,050	28,636
Transport & Storage	1,936	2,702	2,937	3,987	4,700	5,286	5,096
Financial & Business Services	6,638	8,938	9,399	14,030	21,171	23,082	21,557
Social & Personal Services	1,110	1,216	1,290	2,092	2,220	2,434	2,410
Others	29	7	7	16	29	28	53

7.3 FOREIGN-CONTROLLED COMPANIES BY INDUSTRY

(End of Period)

Industry	Number						
	1988	1993	1994	1995	1996	1997	1998
Total	7,417	11,243	13,090	11,290	10,985	16,190	19,358
Agriculture & Fishing	7	5	7	5	14	17	12
Manufacturing	1,014	1,323	1,910	1,384	1,121	1,263	1,338
Construction	303	435	659	271	409	489	441
Commerce	3,113	5,043	5,290	4,748	4,795	7,175	8,719
Transport & Storage	566	889	1,097	862	800	1,296	1,313
Financial & Business Services	2,312	3,400	3,988	3,696	3,676	5,738	7,342
Social & Personal Services	96	144	126	315	163	206	190
Others	6	4	13	9	7	6	3

7.4 TOTAL ASSETS / LIABILITIES OF COMPANIES BY MAIN INDUSTRIAL SECTORS

(End of Period)

	Billion Dollars						
	1988	1993	1994	1995	1996	1997	1998
Total	760.1	1,175.8	1,272.8	1,444.2	1,657.4	1,948.6	2,069.3
Financial Services Sector	597.9	840.8	878.6	967.0	1,102.7	1,295.6	1,336.5
Non-Financial Sectors	162.2	335.0	394.2	477.3	554.7	653.0	732.8
Manufacturing	48.5	82.5	96.6	108.3	121.9	146.7	157.8
Construction	7.7	19.0	21.4	27.6	32.6	39.2	50.3
Commerce	41.3	87.8	104.5	119.8	134.9	156.2	174.5
Transport & Storage	19.2	40.7	46.5	50.3	58.6	73.6	83.9
Insurance Services	7.6	16.7	20.2	21.8	25.1	26.6	26.1
Real Estate & Business Services	26.8	82.9	99.5	125.2	155.8	181.6	205.8
Others	2.0	5.4	5.3	24.2	25.9	29.1	34.3

7.5 EQUITY RATIOS OF COMPANIES BY MAIN INDUSTRIAL SECTORS

(End of Period)

	1988	1993	1994	1995	1996	1997	1998
Total	0.16	0.20	0.21	0.26	0.26	0.26	0.25
Financial Services Sector	0.10	0.14	0.14	0.20	0.19	0.20	0.19
Non-Financial Sectors	0.36	0.37	0.38	0.39	0.38	0.37	0.36
Manufacturing	0.51	0.48	0.49	0.51	0.51	0.50	0.52
Construction	0.14	0.11	0.10	0.11	0.12	0.10	0.12
Commerce	0.27	0.25	0.26	0.26	0.26	0.24	0.27
Transport & Storage	0.39	0.47	0.48	0.50	0.47	0.44	0.44
Insurance Services	0.18	0.16	0.16	0.17	0.16	0.16	0.18
Real Estate & Business Services	0.35	0.44	0.45	0.44	0.41	0.38	0.32
Others	0.47	0.44	0.42	0.60	0.63	0.63	0.59

7.6 CURRENT RATIOS OF COMPANIES BY MAIN INDUSTRIAL SECTORS

(End of Period)

	1988	1993	1994	1995	1996	1997	1998
Total	1.03	1.04	1.05	1.08	1.05	1.04	1.04
Financial Services Sector	1.02	1.05	1.04	1.09	1.07	1.06	1.05
Non-Financial Sectors	1.06	1.02	1.08	1.05	1.02	1.01	1.01
Manufacturing	1.42	1.30	1.35	1.33	1.25	1.28	1.28
Construction	0.91	0.84	0.88	0.91	0.98	0.94	0.96
Commerce	1.06	1.08	1.11	1.10	1.08	1.06	1.12
Transport & Storage	0.93	0.88	0.99	0.99	0.99	1.06	1.10
Insurance Services	1.88	2.25	2.53	3.44	4.06	4.01	3.70
Real Estate & Business Services	0.64	0.65	0.74	0.65	0.61	0.58	0.59
Others	0.94	1.06	0.86	0.71	0.78	1.02	1.02

Industry	2002	1999	1997	1995	1993	1991
Total	5,935	5,815	4,570	3,477	2,500	1,717
Agriculture, Fishing, Mining & Quarrying	25	16	19	27	24	12
Manufacturing	545	513	521	633	476	721
Construction	258	318	281	203	169	130
Commerce	2,378	2,620	2,669	1,306	1,316	836
Transport & Communication	44	37	345	252	234	181
Financial & Business Services	1,754	1,729	1,164	936	783	589
Others	156	197	113	38	63	48

Coverage and Sources of Data

Data on business formation and cessation cover all companies and businesses registered with the Registry of Companies & Businesses (RCB) as well as those registered with professional bodies eg legal services, medical services, etc. These data are compiled from the administrative records in RCB and other sources (eg. Singapore Department of Statistics' surveys, government gazettes and newspapers.)

Definitions

Company: Refers to an organisation that operates on a large scale and generally has a large number of employees. By legal status, a company is classified either as a public or private company. A company is typically multi-functional, operates with several business activities, and has proper audited accounts for taxation and regulatory purposes. It can also

operate as an enterprise and have several branches in different locations.

Business: Refers to a firm operating on a small scale. By legal status, a business either operates as a sole-proprietorship or partnership, often with a small number of employees. Due to the nature of business, a business may only operate on a single business activity at establishment level and may or may not keep audited accounts. A business in this context, also refers to a commercial entity registered with professional bodies eg legal services, medical services, accountancy firms, etc.

Formation: Refers to companies and businesses registered with RCB and other professional bodies during the reference year.

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

8.1 FORMATION OF COMPANIES BY INDUSTRY

Industry	Number							
	1990	1995	1996	1997	1998	1999	2000	
Total	6,503	9,468	9,473	8,918	6,592	8,018	11,032	
Agriculture, Fishing, Mining & Quarrying	30	23	25	44	23	21	26	
Manufacturing	1,015	1,104	1,062	1,067	846	809	820	
Construction	305	581	651	680	612	629	667	
Commerce	2,666	3,551	3,557	3,099	2,241	2,663	3,028	
Transport & Communications	558	645	589	559	387	493	1,096	
Financial & Business Services	1,623	3,086	3,151	3,035	2,117	2,976	4,710	
Others	306	478	438	434	366	427	685	

Source : Registry of Companies and Businesses

8.2 CESSATION OF COMPANIES BY INDUSTRY

	Number						
Industry	1990	1995	1996	1997	1998	1999	2000
Total	1,981	2,659	3,062	3,457	4,570	5,811	5,635
Agriculture, Fishing, Mining & Quarrying	12	13	24	27	19	16	25
Manufacturing	255	315	436	435	521	513	545
Construction	130	169	204	203	281	358	358
Commerce	850	1,163	1,316	1,506	2,069	2,620	2,378
Transport & Communications	181	225	234	252	344	378	419
Financial & Business Services	505	713	783	936	1,184	1,729	1,754
Others	48	61	65	98	152	197	156

Source : Registry of Companies and Businesses

8.3 FORMATION OF BUSINESSES BY INDUSTRY

Industry	Number						
	1990	1995	1996	1997	1998	1999	2000
Total	17,818	21,913	23,495	23,412	23,476	26,586	25,425
Agriculture, Fishing, Mining & Quarrying	66	101	103	95	106	88	105
Manufacturing	1,756	1,757	1,686	1,547	1,539	1,697	1,991
Construction	2,022	2,842	3,466	3,266	2,846	3,158	2,847
Commerce	8,485	9,454	9,442	9,356	9,654	10,650	9,754
Transport & Communications	918	1,180	1,313	1,289	1,269	1,664	1,683
Financial & Business Services	2,984	4,330	4,965	5,276	5,202	6,086	6,288
Others	1,587	2,249	2,520	2,583	2,860	3,243	2,757

Source : Singapore Department of Statistics
Registry of Companies and Businesses

8.4 CESSATION OF BUSINESSES BY INDUSTRY

Industry	Number						
	1990	1995	1996	1997	1998	1999	2000
Total	13,630	20,475	19,978	19,532	21,549	22,230	23,205
Agriculture, Fishing, Mining & Quarrying	133	95	88	96	95	93	94
Manufacturing	1,425	2,037	1,940	1,779	1,866	1,801	1,719
Construction	1,499	2,632	2,365	2,631	2,907	3,117	3,105
Commerce	6,909	9,494	9,365	8,817	9,514	9,458	9,886
Transport & Communications	623	1,126	1,045	1,009	1,130	1,260	1,285
Financial & Business Services	1,812	3,237	3,302	3,364	3,971	4,215	4,786
Others	1,229	1,854	1,873	1,836	2,066	2,286	2,330

Source : Singapore Department of Statistics
Registry of Companies and Businesses

1.9

SPONS LADINIRP FO NOTCUDORP

9 AGRICULTURE, LIVESTOCK AND FISHERIES

Year	1991	1992	1993	1994	1995	1996	1997
General	192.71	182.31	171.01	161.11	151.21	141.31	131.41
22	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.						
23	Pigs, sheep, goats and cattle are slaughtered at the various Abattoirs under close supervision of the Agriculture and Veterinary Authority.						

9.2

AGRICULTURE, LIVESTOCK AND FISHERIES

14	The main crops cultivated are vegetables and orchids. Vegetable cultivation is highly intensive, producing mainly leafy vegetables like beans, can xia kai, kai kai and xian kai. These are produced.						
15	A number of farms and nurseries grow orchids, ornamental and foliage plants for export and domestic sale. Singapore is renowned for her orchid cultivation, which are exported to many countries. The orchid and other horticultural enterprises are supported by plant tissue laboratories which produce several hundred thousands of plants.						
16	There are 89 licensed marine farms covering about 50 hectares of coastal waters, and deep sea, cultivating high-value fish like groupers and sea bass for the live fish market and suppliers.						

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.

Land for farming has declined over the years. In order to achieve a significant measure of local production of fresh food supply, the government has initiated the development of agrotechnology parks to house large-scale intensive farms using such technology. Six agrotechnology parks covering a total land area of 1,465 hectares have been successfully developed.

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.

Poultry and Livestock

Hen egg production, an important farming activity in Singapore, meets about 35

per cent of eggs consumed locally. The seven large-scale layer farms in agrotechnology parks are expected to increase their egg production to 1.6 million eggs or 53 per cent of projected daily consumption.

Pigs, sheep, goats and cattle are slaughtered at the Jurong Abattoirs under close supervision of the Agri-food and Veterinary Authority.

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 Fishing Port (JFP) plays an important role as a major fish landing and distribution point in Singapore. The Port handles about 85,000 tonnes of fish per year, which is the bulk of fresh fish landed by foreign vessels as well as those imported by air and road. The Senoko Fishing Port began its operations in September 1997. It serves as a homebase for local fishing vessels. The port handles locally-produced and imported fish, totalling about 15,000 tonnes of fish per year. There are 99 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 89 licensed marine farms covering about 56.5 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

	1990	1995	1996	1997	1998	1999	2000
Vegetables (Tonnes)	8,907	7,336	10,870	16,281	17,291	18,928	19,293
Orchid Flowers (Million Stalks)	na	29	29	16	17	22	22
Plants ¹ (Million Plants)	na	77	65	66	55	50	48

Source : Agri-food & Veterinary Authority

¹ Include potted plants, foliages, ornamental plants, aquatic plants and tissue-cultured plantlets.

9.2 LIVESTOCK SLAUGHTERED

	1990	1995	1996	1997	1998	1999	Number 2000
Pigs	1,152,395	1,291,560	1,252,516	1,257,041	1,256,203	465,004	317,995
Sheep	28,111	14,357	9,077	7,905	6,581	3,333	1,561
Goats	227	19	48	56	80	11	4
Oxen	1,260	441	200	281	170	12	123

Source : Agri-food & Veterinary Authority

9.3 FISH SUPPLY AND AUCTION

	1990	1995	1996	1997	1998	1999	Tonnes 2000
Fish Supply							
Local Production ¹	13,306	13,353	13,129	13,049	11,030	9,477	8,571
Imports	161,718	181,090	156,077	150,257	119,810	135,408	132,032
Exports	116,213	136,909	116,396	102,427	104,549	93,419	96,425
Fish Auction	106,829	93,761	91,460	87,139	87,015	87,305	82,750

Source : Agri-food & Veterinary Authority

Trade Development Board

Note : Exclude dried, salted and fish in brine.

¹ Data include aquaculture production.

MANUFACTURING

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Census of Industrial Production

A census of manufacturing establishments employing ten or more workers 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 two standard questionnaires. The reference period is the calendar year, except for those establishments whose financial years do not coincide with the calendar year.

Definitions

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.

Gross Output: The gross output of industries refers to the total value of all commodities produced (including by-products) and industrial services rendered during the year.

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 gross 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 1996. Rubber processing, granite quarrying and production undertaken by government departments and statutory boards are not covered by the index. The indices published are at the 2-digit industry division level and the total manufacturing level.

The index of industrial production was rebased to 1999=100, using the value added weighting pattern obtained from the 1998 Census of Industrial Production 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, with 1999 as the base year.

10 MANUFACTURING (cont'd)

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 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 Industrial Production.

Other References

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

10.1 PRINCIPAL MANUFACTURING STATISTICS

	Unit	1990	1995	1996	1997	1998	1999	2000
Establishments	No	3,703	4,036	4,068	4,108	4,004	3,928	3,995
Workers	No	351,674	370,281	368,119	366,696	352,289	338,885	346,154
Materials	\$m	45,396	71,680	76,026	79,603	74,427	80,625	94,959
Output	\$m	71,333	113,358	119,869	126,531	121,433	133,577	158,770
Value Added	\$m	16,502	26,903	28,214	29,654	29,627	34,929	41,361
Remuneration	\$m	6,877	10,682	11,253	11,926	11,768	11,219	12,067
Capital Expenditure	\$m	4,184	7,136	8,088	10,428	6,940	7,784	na
Direct Exports	\$m	47,000	69,013	72,964	76,450	75,530	85,360	100,962

Source : Economic Development Board

Notes : Figures refer to establishments engaging 10 or more workers.

Data exclude rubber processing and granite quarrying.

10.2 SELECTED AVERAGES AND RATIOS IN THE MANUFACTURING SECTOR

	Unit	1990	1995	1996	1997	1998	1999	2000
Output Per Worker	\$'000	202.8	306.1	325.6	345.1	344.7	394.2	458.7
Value Added Per Worker	\$'000	46.9	72.7	76.6	80.9	84.1	103.1	119.5
Value Added to Output	%	23.1	23.7	23.5	23.4	24.4	26.1	26.1
Remuneration to Value Added	%	41.7	39.7	39.9	40.2	39.7	32.1	29.2
Remuneration to Output	%	9.6	9.4	9.4	9.4	9.7	8.4	7.6
Direct Exports to Total Sales	%	65.6	61.1	60.7	60.8	62.0	63.5	63.3
Direct Exports to Output	%	65.9	60.9	60.9	60.4	62.2	63.9	63.6

Source : Economic Development Board

Note : See notes to Table 10.1.

10.3 MANUFACTURING ESTABLISHMENTS BY INDUSTRY

Code	Industry	Number						
		1990	1995	1996	1997	1998	1999	2000
15/16	Food, Beverage & Tobacco	279	312	313	323	320	321	326
17	Textiles & Textile Manufactures	65	58	53	45	42	42	43
18	Wearing Apparel except Footwear	370	231	193	162	145	141	144
19	Leather, Leather Products & Footwear	49	33	27	24	23	21	22
20	Wood & Wood Products	84	64	57	52	49	46	47
21	Paper & Paper Products	92	110	104	98	91	89	90
22	Printing & Reproduction of Recorded Media	331	407	415	400	397	329	334
23	Refined Petroleum Products	12	20	18	19	18	18	18
24	Chemicals & Chemical Products	171	187	195	211	210	231	233
25	Rubber & Plastic Products	316	346	355	349	339	321	326
26	Non-metallic Mineral Products	76	85	95	100	91	94	96
27	Basic Metals	31	25	25	26	22	20	21
28	Fabricated Metal Products except Machinery & Apparatus	452	584	605	633	631	629	639
29	Machinery & Equipment	415	515	566	602	597	607	619
30	Electrical Machinery & Apparatus	121	150	152	162	153	145	148
31	Electronic Products & Components	239	239	237	236	223	205	208
32	Medical, Precision & Optical Instruments, Watches & Clocks	61	62	62	67	63	64	65
33	Transport Equipment	220	305	307	316	308	317	322
34	Other Manufacturing Industries	313	295	279	273	270	274	279
35	Recycling of Metal/Non-metal Waste & Scrap	6	8	10	10	12	14	15
Total Manufacturing		3,703	4,036	4,068	4,108	4,004	3,928	3,995

Source : Economic Development Board

Notes : Figures refer to establishments engaging 10 or more workers.

Rubber processing and granite quarrying are excluded.

With effect from 1999, data are classified according to Singapore Standard Industrial Classification (SSIC) 2000.

Prior to 1999, data are classified according to SSIC 1996.

10.4 MANUFACTURING OUTPUT BY INDUSTRY

		Million Dollars						
Code	Industry	1990	1995	1996	1997	1998	1999	2000
15/16	Food, Beverage & Tobacco	2,798.4	3,607.7	3,650.3	3,798.7	3,474.4	3,379.5	3,312.4
17	Textiles & Textile Manufactures	394.6	294.4	237.6	255.5	254.2	234.9	264.2
18	Wearing Apparel except Footwear	1,729.8	973.7	801.6	773.4	787.3	806.6	850.9
19	Leather, Leather Products & Footwear	105.2	116.5	112.1	152.7	131.1	163.4	168.1
20	Wood & Wood Products	352.6	289.6	270.2	290.6	300.4	249.4	206.7
21	Paper & Paper Products	816.3	1,056.9	1,021.9	954.7	819.9	827.2	833.0
22	Printing & Reproduction of Recorded Media	1,752.8	2,660.8	2,755.3	2,799.8	2,687.9	2,663.8	3,031.4
23	Refined Petroleum Products	11,317.7	10,653.8	13,746.5	14,637.5	12,751.9	13,594.7	19,621.3
24	Chemicals & Chemical Products	5,021.5	6,865.1	7,163.1	9,339.0	10,156.7	13,869.9	16,186.2
25	Rubber & Plastic Products	1,575.6	2,588.5	2,601.0	2,654.8	2,428.4	2,655.1	3,280.9
26	Non-metallic Mineral Products	1,102.0	2,055.1	2,372.0	2,628.3	2,114.0	1,685.6	1,594.6
27	Basic Metals	775.9	662.7	636.9	646.2	531.3	546.3	537.0
28	Fabricated Metal Products except Machinery & Apparatus	3,504.9	6,313.2	6,297.8	6,496.0	6,368.5	6,455.7	6,925.0
29	Machinery & Equipment	4,049.8	5,849.2	6,452.3	6,898.3	6,227.0	6,098.5	7,466.9
30	Electrical Machinery & Apparatus	1,911.8	3,344.9	3,110.9	3,082.6	2,524.8	2,387.0	2,642.4
31	Electronic Products & Components	27,749.0	57,872.7	60,912.7	62,903.6	60,846.0	68,718.5	82,281.3
32	Medical, Precision & Optical Instruments, Watches & Clocks	854.5	1,473.1	1,547.1	1,693.3	2,109.1	2,460.4	2,824.6
33	Transport Equipment	3,840.8	5,191.7	4,828.0	5,166.4	5,813.5	5,759.4	5,667.2
34	Other Manufacturing Industries	1,654.9	1,463.3	1,315.0	1,314.8	1,065.3	957.2	1,011.8
35	Recycling of Metal/Non-metal Waste & Scrap	25.1	25.0	36.7	44.6	41.4	64.2	64.2
Total Manufacturing		71,333.2	113,358.0	119,869.0	126,530.9	121,433.1	133,577.3	158,770.2

Source : Economic Development Board

Notes : See notes to Table 10.3.

10.5 VALUE ADDED OF MANUFACTURING ESTABLISHMENTS BY INDUSTRY

		Million Dollars						
Code	Industry	1990	1995	1996	1997	1998	1999	2000
15/16	Food, Beverage & Tobacco	604.6	845.2	853.8	931.1	862.4	879.5	878.6
17	Textiles & Textile Manufactures	95.6	66.4	61.5	69.3	64.1	68.7	66.6
18	Wearing Apparel except Footwear	410.3	220.1	173.7	168.0	182.7	191.3	198.2
19	Leather, Leather Products & Footwear	25.4	33.3	32.2	38.1	32.7	35.4	38.9
20	Wood & Wood Products	62.1	61.3	59.4	68.7	71.0	55.1	49.5
21	Paper & Paper Products	272.4	372.2	378.3	376.4	332.7	326.1	318.9
22	Printing & Reproduction of Recorded Media	695.4	1,304.3	1,322.1	1,436.0	1,279.6	1,319.3	1,497.4
23	Refined Petroleum Products	1,398.1	1,296.9	1,623.8	1,690.8	1,508.1	1,542.7	1,965.7
24	Chemicals & Chemical Products	1,720.1	2,527.8	2,731.1	2,995.5	3,875.9	6,116.4	6,516.2
25	Rubber & Plastic Products	449.7	781.7	796.1	812.0	770.4	839.3	1,002.5
26	Non-metallic Mineral Products	241.3	544.0	590.6	597.8	556.3	490.7	480.4
27	Basic Metals	176.1	148.0	133.7	132.3	120.7	149.1	97.3
28	Fabricated Metal Products except Machinery & Apparatus	879.5	1,680.6	1,704.1	1,755.1	1,737.6	1,784.1	1,861.2
29	Machinery & Equipment	1,143.8	1,636.7	1,753.6	1,857.5	1,841.4	1,839.4	2,286.5
30	Electrical Machinery & Apparatus	511.9	834.4	808.0	813.0	677.1	666.7	682.9
31	Electronic Products & Components	5,921.6	11,987.9	12,672.2	13,135.6	12,533.4	15,234.1	19,758.7
32	Medical, Precision & Optical Instruments, Watches & Clocks	319.9	536.4	578.5	635.9	883.9	1,069.3	1,245.8
33	Transport Equipment	1,256.0	1,731.2	1,655.4	1,824.2	2,030.4	2,069.0	2,143.5
34	Other Manufacturing Industries	313.8	289.1	276.7	304.7	253.0	235.5	254.8
35	Recycling of Metal/Non-metal Waste & Scrap	4.5	5.4	9.1	12.2	13.7	17.6	17.6
Total Manufacturing		16,502.1	26,902.9	28,214.1	29,654.2	29,627.0	34,929.4	41,361.3

Source : Economic Development Board

Notes : See notes to Table 10.3.

10.6 WORKERS IN MANUFACTURING BY INDUSTRY

Code	Industry	Number						
		1990	1995	1996	1997	1998	1999	2000
15/16	Food, Beverage & Tobacco	13,642	13,996	14,215	14,698	14,913	15,216	16,365
17	Textiles & Textile Manufactures	3,406	2,238	1,748	1,653	1,590	1,533	1,564
18	Wearing Apparel except Footwear	27,694	14,684	10,309	8,144	7,756	8,198	8,229
19	Leather, Leather Products & Footwear	1,458	1,076	998	1,164	1,049	905	920
20	Wood & Wood Products	2,604	1,626	1,450	1,720	1,682	1,567	1,577
21	Paper & Paper Products	4,604	5,730	5,474	5,213	4,738	4,722	4,868
22	Printing & Reproduction of Recorded Media	15,917	18,651	18,932	19,005	19,114	17,174	18,462
23	Refined Petroleum Products	3,163	3,700	3,531	3,444	3,306	3,152	2,865
24	Chemicals & Chemical Products	10,202	12,730	13,621	15,247	15,163	15,751	17,153
25	Rubber & Plastic Products	15,460	20,547	21,609	21,329	20,064	20,133	22,183
26	Non-metallic Mineral Products	5,356	5,512	6,505	7,002	6,583	6,055	5,819
27	Basic Metals	2,453	2,215	2,105	1,913	1,831	1,541	1,538
28	Fabricated Metal Products except Machinery & Apparatus	25,923	33,634	34,765	35,696	37,107	38,072	39,434
29	Machinery & Equipment	29,942	32,936	35,154	37,424	37,410	36,363	38,450
30	Electrical Machinery & Apparatus	17,335	18,051	15,652	15,176	12,997	10,976	10,917
31	Electronic Products & Components	122,325	126,891	128,446	123,835	111,590	105,826	105,416
32	Medical, Precision & Optical Instruments, Watches & Clocks	8,843	9,232	9,291	9,104	8,993	8,558	9,166
33	Transport Equipment	26,664	36,620	34,892	34,854	37,118	35,074	32,479
34	Other Manufacturing Industries	14,576	10,085	9,247	9,883	9,046	7,724	8,404
35	Recycling of Metal/Non-metal Waste & Scrap	107	127	175	192	239	345	345
Total Manufacturing		351,674	370,281	368,119	366,696	352,289	338,885	346,154

Source : Economic Development Board

Notes : See notes to Table 10.3.

10.7 REMUNERATION IN MANUFACTURING BY INDUSTRY

		Million Dollars						
Code	Industry	1990	1995	1996	1997	1998	1999	2000
15/16	Food, Beverage & Tobacco	291.5	406.4	435.0	460.9	460.7	433.6	443.7
17	Textiles & Textile Manufactures	55.2	52.4	43.8	41.8	41.2	38.5	40.7
18	Wearing Apparel except Footwear	323.4	224.6	176.5	151.6	145.2	151.1	152.6
19	Leather, Leather Products & Footwear	19.5	25.3	24.8	28.3	25.2	23.0	23.8
20	Wood & Wood Products	44.0	38.8	35.1	42.5	45.1	39.6	40.5
21	Paper & Paper Products	98.6	167.5	171.7	171.9	152.0	149.2	153.7
22	Printing & Reproduction of Recorded Media	380.6	647.9	671.1	716.9	707.2	613.6	690.3
23	Refined Petroleum Products	200.9	277.2	301.8	303.7	321.9	293.1	265.3
24	Chemicals & Chemical Products	360.9	627.9	676.2	857.6	924.0	983.4	1,084.7
25	Rubber & Plastic Products	261.6	505.1	539.4	554.5	527.9	524.1	611.2
26	Non-metallic Mineral Products	111.1	182.9	210.6	229.3	216.8	180.8	199.0
27	Basic Metals	67.6	82.1	87.0	85.5	74.1	65.7	70.5
28	Fabricated Metal Products except Machinery & Apparatus	513.7	945.6	1,006.1	1,078.6	1,059.6	1,035.0	1,100.3
29	Machinery & Equipment	662.9	1,078.3	1,184.0	1,313.3	1,258.0	1,205.9	1,334.6
30	Electrical Machinery & Apparatus	299.9	501.2	484.8	483.2	441.6	368.9	378.8
31	Electronic Products & Components	2,147.8	3,280.1	3,522.2	3,640.8	3,587.7	3,386.0	3,696.4
32	Medical, Precision & Optical Instruments, Watches & Clocks	167.0	258.3	288.8	291.2	302.6	297.9	327.0
33	Transport Equipment	640.7	1,132.7	1,164.9	1,222.0	1,251.8	1,225.8	1,219.7
34	Other Manufacturing Industries	227.7	242.7	223.9	246.1	218.4	194.0	223.5
35	Recycling of Metal/Non-metal Waste & Scrap	2.2	4.6	5.4	6.3	7.1	10.3	10.3
Total Manufacturing		6,876.7	10,681.7	11,253.2	11,926.0	11,768.1	11,219.3	12,066.7

Source : Economic Development Board

Notes : See notes to Table 10.3.

10.8 INDEX OF INDUSTRIAL PRODUCTION

(1999=100)

Code	Industry	1990	1995	1996	1997	1998	1999	2000
15/16	Food, Beverage & Tobacco	99.0	119.7	120.5	113.8	101.0	100.0	101.7
17	Textiles & Textile Manufactures	219.2	132.9	98.9	106.5	102.6	100.0	117.2
18	Wearing Apparel except Footwear	213.6	109.0	90.5	86.8	95.9	100.0	113.8
19	Leather, Leather Products & Footwear	120.3	104.7	89.0	81.3	82.1	100.0	116.0
20	Wood & Wood Products	158.1	112.5	115.7	105.6	106.1	100.0	106.5
21	Paper & Paper Products	117.1	125.1	119.1	110.7	95.8	100.0	98.7
22	Publishing, Printing & Reproduction of Recorded Media	69.1	97.8	97.6	100.7	90.8	100.0	113.9
23	Refined Petroleum Products	84.8	101.1	106.6	110.5	109.3	100.0	91.0
24	Chemicals & Chemical Products	37.0	47.5	49.9	62.8	78.7	100.0	106.8
25	Rubber & Plastic Products	86.8	121.8	112.6	106.7	89.1	100.0	123.3
26	Non-metallic Mineral Products	69.0	118.5	131.4	127.1	111.4	100.0	100.2
27	Basic Metals	104.4	105.1	105.0	110.4	91.9	100.0	106.1
28	Fabricated Metal Products except Machinery & Apparatus	80.5	115.2	112.5	109.0	103.7	100.0	108.8
29	Machinery & Equipment	71.0	102.2	107.6	114.4	104.5	100.0	127.0
30	Electrical Machinery & Apparatus	87.9	115.3	113.8	115.5	100.6	100.0	109.6
31	Electronic Products & Components	38.9	75.3	80.5	83.1	80.5	100.0	125.2
32	Instrumentation Equipment	31.6	68.2	69.4	76.9	89.4	100.0	111.6
33	Transport Equipment	79.6	89.9	85.0	91.5	103.5	100.0	100.9
34	Other Manufacturing Industries	207.6	143.8	137.9	132.4	105.0	100.0	97.8
	Total Manufacturing ¹	55.0	81.6	84.3	88.1	87.8	100.0	115.3

Source : Economic Development Board

Note : The industries are classified according to the Singapore Standard Industrial Classification 1996.

The current index series have been rebased with base year 1999=100. The rebased indices reflect the relative importance of the industry divisions and changing structure within the total manufacturing sector.

¹ Exclude rubber processing.

10.9 INDICES OF UNIT BUSINESS COST AND UNIT LABOUR COST (1993=100)

	Weights ¹	1990	1995	1996	1997	1998	1999	2000
Unit Business Cost of Manufacturing								
Total	100.0	93.1	101.1	101.6	101.5	100.9	90.4	89.5
Unit Labour Cost	46.4	90.4	95.5	97.7	98.4	97.3	80.5	74.8
Services Cost	51.6	97.3	105.6	104.4	103.6	104.3	99.7	102.7
Government Rates & Fees	2.0	81.3	113.9	117.6	117.0	96.4	80.3	88.4
Unit Labour Cost of Overall Economy		91.5	104.9	107.6	108.4	112.6	102.3	101.4

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

10.10 PRINCIPAL STATISTICS OF PIONEER MANUFACTURING ESTABLISHMENTS (End of Period)

	Unit	1989	1994	1995	1996	1997	1998	1999
Establishments	No	440	410	405	397	391	361	360
Workers	No	163,412	166,042	171,206	170,780	165,431	151,901	142,321
Materials	\$m	25,031	43,140	50,880	54,748	56,731	52,912	56,498
Output	\$m	38,900	65,415	76,345	82,418	86,211	82,439	90,835
Value Added	\$m	9,808	14,871	17,581	19,156	19,932	19,736	23,878
Remuneration	\$m	2,956	4,612	5,013	5,352	5,539	5,472	5,174
Paid - up Capital	\$m	6,557	9,752	9,463	10,097	9,790	11,933	14,630
Gross Fixed Assets	\$m	18,803	29,758	32,596	36,115	41,267	43,032	45,736
Direct Exports	\$m	30,526	45,871	53,087	56,293	59,228	59,211	65,755
Value Added Per Worker	\$ '000	60	90	103	112	120	130	168

Source : Economic Development Board

10.11 PRINCIPAL STATISTICS OF PIONEER MANUFACTURING ESTABLISHMENTS BY INDUSTRY, DECEMBER 1999

Industry	Establish- ments	Workers	Materials	Output	Value Added
	Number		Million Dollars		
Total	360	142,321	56,498	90,835	23,878
Food & Beverages	7	855	230	352	75
Textiles & Wearing Apparel	5	547	10	38	21
Paper Products & Printing	8	1,486	163	406	198
Petroleum, Chemicals & Chemical Products	60	8,875	11,798	19,286	5,971
Rubber & Plastic Products	17	2,525	130	316	135
Non-metallic Mineral Products	8	1,512	158	493	217
Basic Metals	5	1,037	243	430	123
Fabricated Metal Products	33	6,954	756	1,348	423
Machinery & Equipment	68	12,282	1,271	2,610	871
Electrical Machinery & Apparatus	16	4,763	501	1,072	383
Electronic Products & Components	80	86,485	39,563	60,162	13,622
Instrumentation Equipment	21	6,368	923	2,135	981
Transport Equipment	23	7,817	661	2,036	822
Miscellaneous	9	815	91	150	37

Industry	Remun- eration	Paid-up Capital	Gross Fixed Assets	Direct Exports	Value Added Per Worker
	Million Dollars				\$ '000
Total	5,174	14,630	45,736	65,755	168
Food & Beverages	31	138	327	207	88
Textiles & Wearing Apparel	11	33	57	28	38
Paper Products & Printing	50	65	423	297	133
Petroleum, Chemicals & Chemical Products	689	4,941	16,424	10,057	673
Rubber & Plastic Products	74	73	440	176	53
Non-metallic Mineral Products	50	189	807	279	143
Basic Metals	49	370	449	73	119
Fabricated Metal Products	210	280	806	561	61
Machinery & Equipment	453	684	2,254	1,724	71
Electrical Machinery & Apparatus	174	178	1,110	777	80
Electronic Products & Components	2,809	6,857	20,117	47,943	158
Instrumentation Equipment	222	184	973	2,037	154
Transport Equipment	333	582	1,419	1,479	105
Miscellaneous	20	56	131	118	45

Source : Economic Development Board

10.12 NET INVESTMENT COMMITMENTS IN MANUFACTURING BY INDUSTRY

Industry	Million Dollars						
	1990	1995	1996	1997	1998	1999	2000
Total	2,487.4	6,809.1	8,085.1	8,488.4	7,829.5	8,037.4	9,208.9
Food, Beverage & Tobacco	43.8	92.5	201.4	142.5	130.8	253.5	0.8
Textiles	3.0	3.3	2.2	-	10.2	-	-
Wearing Apparel except Footwear	-	-	10.1	0.4	-	-	-
Leather & Footwear	-	0.4	-	-	-	-	-
Wood & Wood Products	-	-	-	-	19.4	-	7.3
Paper & Paper Products	2.2	18.5	2.8	3.0	35.7	2.5	18.3
Printing & Publishing	74.0	132.5	319.7	163.2	61.0	75.6	115.3
Petroleum & Petroleum Products	381.0	1,186.4	108.3	581.3	26.5	6.0	97.7
Chemical & Chemical Products	300.9	1,583.9	2,754.8	2,239.6	2,913.7	2,639.5	2,799.4
Rubber & Plastic Products	44.0	54.8	102.9	110.2	164.2	84.6	71.4
Non-metallic Mineral Products	9.0	43.1	84.5	85.7	32.2	39.6	77.0
Basic Metals	-	63.8	9.5	112.0	10.1	14.4	16.0
Fabricated Metal Products	117.3	278.5	350.5	366.6	347.3	299.6	388.6
Machinery & Equipment	200.0	330.9	306.3	323.7	445.5	486.8	435.0
Electrical Machinery & Apparatus	86.5	112.6	5.3	124.4	165.6	112.7	87.7
Electronic Products & Components	1,016.2	2,551.3	3,477.6	3,805.8	3,047.9	3,290.7	4,451.2
Instrumentation Equipment	21.1	49.5	82.6	70.1	44.2	372.7	103.5
Transport Equipment	179.8	296.5	250.5	359.9	357.4	317.3	443.7
Furniture & Other Manufacturing	8.6	10.7	16.2	-	17.7	41.9	95.9

Source : Economic Development Board

Note : Net investment commitments refer to gross commitments less projects withdrawn or uncertain as at 31 December 2000.

The industries are classified according to the Singapore Standard Industrial Classification 1996.

10.13 NET INVESTMENT COMMITMENTS IN MANUFACTURING BY COUNTRY OF ORIGIN

Country	Million Dollars						
	1990	1995	1996	1997	1998	1999	2000
Total	2,487.4	6,809.1	8,085.1	8,488.4	7,829.5	8,037.4	9,208.9
Local	269.5	1,956.7	2,293.3	2,524.6	2,615.9	1,780.3	1,973.6
Foreign	2,217.9	4,852.4	5,791.8	5,963.8	5,213.6	6,257.1	7,235.3
United States	1,054.8	2,075.8	2,336.0	2,422.6	2,293.0	3,586.6	3,692.1
Japan	708.2	1,152.5	1,962.0	2,032.0	1,822.2	1,179.9	1,513.0
Europe	435.3	1,526.3	1,389.1	1,423.7	1,040.0	1,138.8	1,721.7
European Union ¹ (EU)	402.6	1,510.8	1,320.5	1,398.4	880.8	1,099.8	1,663.0
United Kingdom	89.9	771.6	397.6	445.1	8.5	91.7	319.8
Netherlands	72.6	391.4	517.8	384.7	44.0	187.0	379.7
Germany	165.7	183.9	246.4	121.3	522.7	630.7	375.3
France	60.4	140.5	59.1	271.5	138.4	96.1	397.8
Italy	-	12.8	53.9	175.0	89.9	84.8	180.4
Sweden	7.1	-	-	-	24.3	8.4	3.9
Other EU Countries	6.9	10.6	45.7	0.8	53.0	1.1	6.0
Switzerland	32.7	13.2	60.1	25.2	153.8	26.4	51.3
Other European Countries	-	2.2	8.5	-	5.3	12.6	7.4
Others	19.6	97.8	104.8	85.5	58.4	351.8	308.5

Source : Economic Development Board

¹ The European Union (EU) comprises Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, Sweden and the United Kingdom.

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	686	685	684	683	682	681	680	679	678	677	676	675	674	673	672	671	670	669	668	667	666	665	664	663	662	661	660	659	658	657	656	655	654	653	652	651	650	649	648	647	646	645	644	643	642	641	640	639	638	637	636	635	634	633	632	631	630	629	628	627	626	625	624	623	622	621	620	619	618	617	616	615	614	613	612	611	610	609	608	607	606	605	604	603	602	601	600	599	598	597	596	595	594</
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11 UTILITIES

The Public Utilities Board (PUB) is the Water Authority and Regulator of electricity and piped gas industries in Singapore.

As the Regulator, PUB ensures that customers in Singapore continue to enjoy safe and adequate supply of electricity and piped gas at fair prices. The eight companies which have been issued with licences to engage in the production of electricity are: PowerSenoko Ltd, PowerSeraya Ltd, Tuas Power Ltd, SembCorp Cogen Pte Ltd, Island Power Company Pte Ltd, ExxonMobil Asia Pacific Pte Ltd, Singapore Syngas Pte Ltd and Keppel FELS Utilities Pte Ltd. Three companies are licensed to supply electricity. They are Keppel FELS Energy Supply Pte Ltd, SembCorp Power Pte Ltd and Tuas Power Supply Pte Ltd. A Transmission and Distribution licence is issued to PowerGrid Ltd. PowerGas Ltd is licensed to produce and supply piped gas. At the end of 2000, there were 6,368 electrical workers, 1,592 electrical contractors, 428 gas service workers, 798 water service workers and 622 cable detection workers on PUB's register.

Water

Singapore, with a total population of some 4.0 million, uses an average of 1.24 million cubic metres of water per day in 2000. PUB is the authority responsible for providing an adequate and reliable supply of potable water at the most economic cost.

Fresh potable water, drinkable straight from the tap, is supplied by PUB to all parts of the main island of Singapore and to major offshore islands. The water is moderately soft and treated to a quality well within the World Health Organisation's Guidelines for Drinking Water Quality and is fluoridated.

Singapore's water supply comes from both local sources and sources in Johor, Malaysia. PUB's total water supply system comprises 19 raw water reservoirs, 14 storage

or service reservoirs and about 5,060 kilometres of pipeline.

Electricity

Electricity was first made available to the Republic in 1906. Today, electricity is generated by PowerSenoko, PowerSeraya and Tuas Power, which together operate 5 power stations. The total installed generating capacity is 6,160 megawatts (MW).

A network of 400 kilovolt (kV), 230kV, 66kV, 22kV, 6.6kV and 0.4kV cables interlinked by transformers at substations forms PowerGrid's transmission and distribution system whereby electricity is supplied from the power stations to the customers. The network now consists of about 23,146 kilometres of cable circuits, 44,677 megavolt-amperes of transformer capacity and 8,837 substations. In order to meet future demand for electricity, PowerGrid has put in place a new extra high voltage of 400kV transmission system to enhance the fault handling capability of the grid system while at the same time providing economic transmission of electricity supply.

Gas

Built at a cost of \$240 million, PowerGas's Senoko Gasworks replaced Kallang Gasworks and started operations in October 1996.

Senoko Gasworks has a total installed gas production capacity of 1.6 million cubic metres per day. It has 5 cyclic and 3 continuous gasmaking plants, 2 high pressure spherical gasholders and 2 water sealed gasholders, 3 naphtha tanks, a naphtha splitter plant and a jetty for the delivery of naphtha. With an increased production capacity of 45 per cent, Senoko Gaswork will produce enough gas to meet the needs of Singapore into the 21st century.

11.1 ELECTRICITY GENERATION AND SALES AND GAS SALES

	1989	1994	1995	1996	1997	1998	1999
Electricity							
Generation (mkh)	14,038.9	20,675.4	22,057.4	23,458.4	26,188.1	28,283.2	29,520.1
Sales (mkh)	12,687.5	18,901.5	20,239.6	21,906.1	24,627.8	26,072.9	27,082.5
Domestic	1,946.0	3,466.0	3,833.3	4,162.9	4,736.9	5,328.4	5,344.1
Manufacturing	6,053.6	8,528.2	8,978.4	9,659.1	10,946.5	11,117.1	11,655.6
Other Industries	4,687.9	6,907.3	7,427.9	8,084.0	8,944.5	9,627.4	10,082.8
Gas Sales							
Piped (million units) ¹	688.9	1,045.7	1,083.9	1,151.3	1,218.2	1,266.1	1,306.8
LP (Nett Tonnes)	na	144,395.3	142,697.5	127,064.1	125,330.9	124,697.9	122,152.6

Source : Singapore Department of Statistics

PowerGrid Ltd

PowerGas Ltd

mkh = million kilowatt hours

¹ One unit is equivalent to one kilowatt hour

11.2 WATER TREATMENT AND SALES

	Thousand Cubic Metres						
	1990	1995	1996	1997	1998	1999	2000
Treatment	415,128.4	501,932.1	513,020.4	521,709.5	517,297.3	522,229.3	536,682.5
Sales	374,222.5	468,972.0	481,327.0	494,661.5	491,430.8	487,664.6	506,049.8
Domestic	177,343.3	217,889.1	224,979.9	231,758.8	234,563.1	234,638.4	241,388.0
Shipping	2,914.4	3,014.8	2,871.6	2,771.3	2,521.4	1,997.2	1,841.0
Commerce & Industry	113,148.6	152,625.5	163,592.4	176,851.8	175,123.1	175,345.6	181,477.6
Government & Statutory Boards	29,391.8	29,941.3	29,958.4	29,676.4	27,648.4	27,701.1	30,742.5
Johore	51,424.5	65,501.3	59,924.8	53,603.0	51,575.3	47,982.0	50,600.3

Source : Public Utilities Board

CONSTRUCTION AND REAL ESTATE

Construction and Real Estate

Building construction refers to erection of new building and addition/alteration to existing building, 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 Research Section, URA. Statistics on contracts awarded and progress payments certified are collected through surveys conducted by the Economics & Resources Department of BCA. BCA has been formed from the merger of the former Construction Industry Development Board and Public Works Department's Building Control Division on 1 April 1999.

Definitions

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 areas of a building unless exempted and any uncovered areas 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 Research Section, URA. Details on contracts awarded and progress payments certified may be obtained from the "FRAMEwork" and "Construction Economics Report" 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 public housing of a high quality. HDB also develops and maintains other facilities, namely commercial and industrial properties, markets and hawker centres and car parks. To help build communities, HDB provides recreational and communal facilities such as neighbourhood parks and children's playground in its housing estates.

The public housing building programme is carried out through five-year plans. HDB is into its eighth five-year building programme (1996-2000), under which about 140,000 flats are targeted to be built. In 2000, 27,678 flats were completed, bringing the total number of flats built since HDB's inception in 1960 to 924,488.

The Home Ownership for the People Scheme, introduced in 1964, enable citizens to buy HDB flats. HDB sold 26,329 HDB flats in 2000. To-date 86 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, sale of 4-room budget flats, buying of 3-room flats for sale at

subsidised prices, rent & purchase of 3-room flats, and priority allocation of 4-room or smaller flats to tenants of rental flats. To help the singles own flats, HDB has introduced the Singles Grant for the purchase of 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 Selective En Bloc Redevelopment Scheme, Sale of Sites and the Project to Improve the Living Conditions of the Elderly are all part of the Estate Renewal Strategy.

At the end of 2000, the number of precincts selected under the MUP was 98, involving about 101,600 units of HDB flats. Under the MUP, improvements are made to the flat, the apartment block and the precinct. At the end of 2000, the upgrading works at 47 precincts had been completed. Under the IUP carried out by the Town Councils to improve the precincts, seven batches comprising 158 precincts had so far been selected. The upgrading works in 102 precincts had been completed as at end 2000.

The Selective En Bloc Redevelopment Scheme was launched in August 1995. Under the scheme, selected old flats that are economically not viable for upgrading are redeveloped into more intensive and better quality housing. As at December 2000, 40 precincts have been announced for redevelopment.

Since 1993, HDB had selected seven batches of 35 blocks of 1-room rental flats comprising 10,542 units for improvement works under the project to improve the living conditions of the elderly.

12.1

AVAILABLE AND VACANT PRIVATE RESIDENTIAL PROPERTIES

(End of Period)

Number of Units

Type of Property	1995	1996	1997	1998	1999	2000
All Types						
Available	129,106	149,114	161,273	173,573	183,551	193,028
Vacant	7,323	9,262	14,467	15,612	14,710	13,341
Detached Houses						
Available	10,194	10,204	10,138	10,178	10,100	10,004
Vacant	873	962	742	822	935	495
Semi-Detached Houses						
Available	18,286	18,779	19,597	19,803	20,058	20,139
Vacant	667	1,020	1,221	991	1,051	704
Terrace Houses						
Available	31,316	32,611	33,496	34,277	34,818	35,884
Vacant	1,365	1,816	1,827	1,628	1,512	1,667
Apartments						
Available	34,402	48,150	49,678	53,356	55,823	56,429
Vacant	2,076	2,676	4,388	5,850	5,546	4,188
Condominium Units						
Available	34,908	39,370	48,364	55,959	62,752	70,572
Vacant	2,342	2,788	6,289	6,321	5,666	6,287

Source : Urban Redevelopment Authority

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

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

	Number of Units					
	1995	1996	1997	1998	1999	2000
Landed Properties						
Total	18,348	17,460	10,556	8,216	7,236	6,744
Under Construction	6,097	6,337	6,465	5,122	3,945	3,105
Planned						
Written Permission	1,285	1,322	2,031	2,151	2,171	2,121
Provisional Permission	2,853	2,767	1,145	882	888	1,030
Others ¹	8,113	7,034	915	61	232	488
Non-Landed Properties						
Total	69,732	85,574	76,114	54,726	55,174	53,407
Under Construction	31,282	38,058	40,244	29,138	25,729	24,865
Planned						
Written Permission	3,421	5,087	6,070	6,714	6,078	11,215
Provisional Permission	11,478	12,808	8,342	9,432	8,007	9,112
Others ¹	23,551	29,621	21,458	9,442	15,360	8,215

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.

12.3 APPROVAL, CONSTRUCTION COMMENCEMENT AND COMPLETION OF PRIVATE RESIDENTIAL PROPERTIES

	1995	1996	1997	1998	1999	2000
Provisional Permission						
Projects (Number)	1,172	1,019	681	208	282	490
Gross Floor Area ('000 sq m)	3,146	3,218	2,773	1,456	911	2,623
Written Permission						
Projects (Number)	1,178	1,109	888	235	195	411
Gross Floor Area ('000 sq m)	2,699	2,980	3,093	1,142	1,200	2,117
Building Plan Approval						
Projects (Number)	972	1,031	1,078	309	164	309
Gross Floor Area ('000 sq m)	2,256	2,616	3,112	1,304	1,222	1,336
Building Commencement						
Projects (Number)	921	966	806	183	231	344
Gross Floor Area ('000 sq m)	2,385	2,584	2,954	621	1,022	1,472
Building Completion						
Projects (Number)	611	760	997	507	329	294
Gross Floor Area ('000 sq m)	1,226	1,542	2,687	2,230	1,730	1,714

Source : Urban Redevelopment Authority

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

12.4

AVAILABLE AND VACANT COMMERCIAL AND INDUSTRIAL PROPERTIES

(End of Period)

Thousand sq m nett

	1995	1996	1997	1998	1999	2000
Private Sector						
Office Space						
Available	3,798	4,016	4,446	4,700	4,834	5,015
Vacant	373	370	538	750	742	588
Shop Space						
Available	1,789	1,836	1,862	1,921	1,950	1,950
Vacant	172	197	181	199	177	156
Factory Space						
Available	12,819	14,059	15,597	16,868	17,310	17,849
Vacant	357	496	1,073	1,685	1,612	1,327
Warehouse Space						
Available	2,984	3,434	4,318	4,721	4,881	4,955
Vacant	144	244	379	612	625	590
Public Sector						
Office Space						
Available	1,059	1,091	1,035	1,033	1,045	1,122
Vacant	66	65	76	88	87	107
Shop Space						
Available	1,155	1,177	1,168	1,182	1,191	1,187
Vacant	33	32	33	79	84	90
Factory Space						
Available	5,183	5,423	5,516	5,707	5,878	6,172
Vacant	108	259	369	627	771	949
Warehouse Space						
Available	657	656	210	211	231	259
Vacant	19	43	23	40	79	79

Source : Urban Redevelopment Authority

12.5

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

Thousand sq m gross

	1995	1996	1997	1998	1999	2000
Office Space						
Total	2,708	2,823	2,656	1,803	1,706	1,355
Under Construction	1,078	1,200	1,141	1,113	972	657
Planned						
Written Permission	73	185	202	129	132	99
Provisional Permission	391	402	293	106	41	196
Others ¹	1,166	1,036	1,020	455	561	403
Shop Space						
Total	1,013	1,087	745	438	384	315
Under Construction	440	375	290	198	135	112
Planned						
Written Permission	115	112	92	82	81	68
Provisional Permission	109	115	34	36	9	42
Others ¹	349	485	329	122	159	93
Factory Space						
Total	7,101	8,375	10,158	6,491	6,972	6,814
Under Construction	3,367	3,781	4,516	3,450	3,163	3,105
Planned						
Written Permission	368	477	676	1,206	1,311	896
Provisional Permission	677	1,175	1,222	960	559	680
Others ¹	2,689	2,942	3,744	875	1,939	2,133
Warehouse Space						
Total	1,546	1,457	1,202	740	590	607
Under Construction	881	899	959	574	434	303
Planned						
Written Permission	228	209	27	40	50	83
Provisional Permission	250	127	167	109	94	78
Others ¹	187	222	49	17	12	143

Source : Urban Redevelopment Authority

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

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

	1995	1996	1997	1998	1999	2000
Commercial						
Provisional Permission						
Projects (Number)	121	110	80	46	31	31
Gross Floor Area ('000 sq m)	835	697	826	364	194	325
Written Permission						
Projects (Number)	92	115	102	52	31	29
Gross Floor Area ('000 sq m)	519	846	835	292	457	260
Building Plan Approval						
Projects (Number)	93	110	122	98	28	25
Gross Floor Area ('000 sq m)	560	738	605	576	98	180
Building Commencement						
Projects (Number)	104	125	117	72	40	38
Gross Floor Area ('000 sq m)	541	738	688	548	260	113
Building Completion						
Projects (Number)	62	86	105	110	50	45
Gross Floor Area ('000 sq m)	877	614	681	688	577	544
Industrial						
Provisional Permission						
Projects (Number)	226	172	180	75	67	95
Gross Floor Area ('000 sq m)	2,952	3,259	3,760	1,457	1,083	1,361
Written Permission						
Projects (Number)	167	219	171	128	61	76
Gross Floor Area ('000 sq m)	1,978	3,027	3,049	2,743	1,298	1,249
Building Plan Approval						
Projects (Number)	136	213	189	171	64	86
Gross Floor Area ('000 sq m)	1,166	2,422	2,552	2,397	563	983
Building Commencement						
Projects (Number)	207	175	198	97	79	81
Gross Floor Area ('000 sq m)	2,560	2,485	3,086	994	951	1,159
Building Completion						
Projects (Number)	158	186	191	201	99	104
Gross Floor Area ('000 sq m)	1,575	2,038	2,346	2,328	1,354	1,467

Source : Urban Redevelopment Authority

12.7 CONTRACTS AWARDED BY SECTOR AND TYPE OF WORK

Million Dollars

Type of Work	1990	1995	1996	1997	1998	1999	2000
All Sectors							
Total	8,034	17,287	20,291	24,400	16,637	13,096	18,590
Building Work	6,839	14,135	16,257	19,863	12,926	10,778	10,181
Residential	2,695	7,974	7,498	11,309	5,319	4,939	4,319
Commercial	2,051	1,460	2,320	2,222	2,483	882	785
Industrial	1,005	2,700	4,094	3,968	2,980	2,650	2,608
Others	1,089	2,001	2,345	2,364	2,145	2,307	2,470
Civil Engineering Work	1,195	3,152	4,033	4,536	3,711	2,318	8,409
Private Sector							
Total	4,338	8,251	9,654	12,670	5,973	6,652	6,620
Building Work	4,275	7,893	9,386	12,541	5,723	5,913	6,397
Residential	1,241	3,934	3,686	6,850	2,024	2,115	2,747
Commercial	1,931	1,356	2,002	1,434	1,011	763	618
Industrial	767	2,277	3,339	3,646	2,370	2,458	2,447
Others	337	326	358	611	318	577	585
Civil Engineering Work	62	359	269	129	250	739	223
Public Sector							
Total	3,697	9,036	10,637	11,730	10,664	6,445	11,971
Building Work	2,564	6,243	6,872	7,323	7,204	4,866	3,784
Residential	1,454	4,040	3,811	4,459	3,295	2,824	1,572
Commercial	120	104	318	788	1,472	119	167
Industrial	238	423	755	322	610	192	161
Others	752	1,676	1,987	1,753	1,828	1,731	1,884
Civil Engineering Work	1,133	2,794	3,765	4,407	3,460	1,579	8,187

Source : Building and Construction Authority

12.8

PROGRESS PAYMENTS CERTIFIED BY SECTOR AND TYPE OF WORK

Million Dollars

Type of Work	1990	1995	1996	1997	1998	1999	2000
All Sectors							
Total	4,917	12,146	15,772	19,236	19,829	17,249	15,183
Building Work	3,950	10,344	13,597	16,294	16,511	13,849	11,777
Residential	1,674	4,932	6,990	8,718	8,760	6,935	4,967
Commercial	788	1,954	1,775	1,912	1,977	1,470	1,458
Industrial	891	2,080	3,297	3,392	3,181	2,648	2,912
Others	598	1,378	1,536	2,272	2,592	2,796	2,440
Civil Engineering Work	967	1,802	2,175	2,942	3,318	3,400	3,406
Private Sector							
Total	2,401	6,327	8,543	9,734	9,656	7,296	6,986
Building Work	2,326	6,171	8,210	9,351	9,150	6,855	6,601
Residential	822	2,446	3,590	4,453	4,209	3,251	2,586
Commercial	708	1,737	1,566	1,562	1,674	1,053	891
Industrial	691	1,755	2,678	2,932	2,791	2,174	2,698
Others	106	232	376	404	475	376	425
Civil Engineering Work	75	157	333	383	506	441	385
Public Sector							
Total	2,516	5,819	7,230	9,503	10,173	9,954	8,198
Building Work	1,624	4,174	5,388	6,944	7,361	6,995	5,176
Residential	852	2,486	3,400	4,265	4,551	3,684	2,381
Commercial	80	216	210	350	303	416	567
Industrial	200	325	619	461	390	474	214
Others	492	1,147	1,160	1,868	2,117	2,420	2,015
Civil Engineering Work	892	1,646	1,842	2,559	2,812	2,960	3,021

Source : Building and Construction Authority

12.9

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

	1990	1995	1996	1997	1998	1999	Number 2000
Residential	623,821	700,060	725,144	755,313	790,898	823,760	846,649
1-room	28,697	25,930	25,540	25,182	25,161	24,920	23,623
2-room	42,206	35,165	34,939	34,610	34,592	34,180	33,741
3-room	252,044	241,085	240,164	239,562	238,860	237,433	234,997
4-room	202,046	236,798	252,809	267,517	282,601	296,109	306,001
5-room	71,754	111,664	121,486	134,051	150,556	167,365	181,498
Executive ¹	21,602	44,100	46,134	50,320	55,711	60,403	63,439
HUDC ²	5,472	5,318	4,072	4,071	3,417	3,350	3,350
Commercial/Industrial Units	30,473	30,527	30,037	30,351	30,410	32,391	31,353

Source : Housing & Development Board

1 From 1987, figures include multi-generation flats.

2 From 1989-1998, figures include other residential properties.

12.10

**RESIDENTIAL UNITS CONSTRUCTED AND SOLD BY
HOUSING AND DEVELOPMENT BOARD**

	1990	1995	1996	1997	1998	1999	2000
Flats Constructed (No)	13,739	26,185	27,484	31,312	36,609	34,836	27,678
Flats Sold Under ' Home Ownership Scheme ' ¹ (No)	13,692	27,776	26,532	28,220	36,966	29,893	26,329
Percentage of Population Living in Public Flats ² (End of Period)	87	86	86	86	86	86	86

Source : Housing & Development Board

1 Flats are considered 'sold' only when keys are issued to the applicants. From 1989, figures include HUDC units.

2 From 1990 onwards, data refer to resident population.

12.11

RESIDENTIAL UNITS UNDER THE MANAGEMENT OF HOUSING AND
DEVELOPMENT BOARD, DECEMBER 2000

Town ¹	Number						
	Total	1-room	2-room	3-room	4-room	5-room	Executive ²
Total	843,299	23,623	33,741	234,997	306,001	181,498	63,439
Ang Mo Kio	48,567	1,338	3,791	25,515	12,594	4,862	467
Bedok	58,608	2,249	2,004	22,716	19,021	9,911	2,707
Bishan	19,011	396	-	2,363	9,199	5,393	1,660
Bukit Batok	31,029	92	164	11,196	12,786	4,057	2,734
Bukit Merah	49,638	5,866	6,183	19,746	10,860	6,944	39
Bukit Panjang	27,585	-	-	2,620	13,008	8,632	3,325
Bukit Timah	2,424	-	-	443	920	681	380
Central Area	13,524	2,469	2,597	5,579	2,607	263	9
Choa Chu Kang	37,528	-	240	1,316	18,783	12,521	4,668
Clementi	23,877	484	656	12,945	7,000	2,179	613
Geylang	30,508	1,044	4,164	12,310	8,766	3,395	829
Hougang	45,962	538	315	9,615	22,075	9,114	4,305
Jurong East	22,610	-	-	7,873	7,015	5,852	1,870
Jurong West	66,712	786	502	13,072	26,987	18,859	6,506
Kallang/Whampoa	34,747	5,117	3,584	14,193	7,390	3,982	481
Lim Chu Kang	93	-	-	64	29	-	-
Marine Parade	7,866	-	1,350	3,049	1,798	1,669	-
Pasir Ris	27,418	-	21	168	10,716	9,053	7,460
Punggol	460	-	-	-	-	460	-
Queenstown	28,656	620	3,621	16,619	4,580	2,857	359
Sembawang	15,471	-	-	435	5,631	6,535	2,870
Sengkang	31,196	160	-	241	11,164	15,461	4,170
Serangoon	21,241	-	154	4,747	10,231	3,744	2,365
Tampines	61,280	154	126	12,270	27,057	15,830	5,843
Toa Payoh	35,939	1,426	3,933	17,301	7,561	4,866	852
Woodlands	54,928	868	320	5,531	24,920	17,100	6,189
Yishun	46,421	16	16	13,070	23,303	7,278	2,738

Source : Housing & Development Board

Note : Data exclude HUDC and landed properties.

1 Equivalent to Town Registration Boundary.

2 Include multi-generation flats and penthouses.

12.12

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

Factory Space/Industrial Land	1990	1995	1996	1997	1998	1999	2000
Flatted Factory Space ('000 sq m)							
Gross Allocation	106	159	163	236	105	160	208
Termination	61	112	153	172	158	127	110
Net Allocation	45	48	10	64	-53	33	98
Demand	887	1,034	1,018	1,093	1,039	1,072	1,169
Supply	901	1,069	1,131	1,296	1,335	1,415	1,445
Occupancy Rate (%)	98	97	90	84	78	76	81
Standard Factory Space ('000 sq m)							
Gross Allocation	95	159	156	133	38	54	87
Termination	26	20	41	57	63	53	53
Net Allocation	68	140	115	76	-25	1	33
Demand	1,470	2,062	2,185	2,265	2,250	2,254	2,287
Supply	1,497	2,128	2,337	2,384	2,522	2,521	2,526
Occupancy Rate (%)	98	97	94	95	89	89	91
Industrial Land ¹ (hectares)							
Gross Allocation	119	161	161	178	200	125	100
Termination	26	34	30	48	112	98	96
Net Allocation	93	127	131	130	88	27	5
Prepared Land							
Demand	3,060	3,647	3,802	3,941	4,035	4,046	4,061
Supply	3,795	4,022	4,058	4,108	4,607	4,670	4,823

Source : JTC Corporation

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

COMMERCE

COMMERCE AND SERVICES

organization and engaged in one activity and generally operating in a single location.

13 COMMERCE AND SERVICES

The first statistical inquiry on the Services Sector was conducted by the Singapore Department of Statistics for the reference year 1967 and that on the Commerce Sector for the reference year 1968. The next inquiries on these two sectors 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, 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) 1996". 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 stall-holders) engaged in wholesale and retail trades, restaurants and hotels as classified under Sections G and H of the SSIC 1996.

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 1999, 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.

Turnover/Operating Receipts: 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: Comprises 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 stall-holders (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 750 wholesale establishments covered in the quarterly survey of wholesale trade and business expectations surveys. The base year for the WTI is 1994.

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) provides a current indicator for monitoring the performance of the services sector. In addition to the overall index, twelve component indices are compiled for major service industries including land transport, water transport, air transport, transport-related services, post and telecommunications, information technology services, professional services, medical services, real estate services, business services, financial and insurance services. 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.

Data for the compilation of the BRI are collected from some 1,130 establishments covered in the quarterly survey of services, business expectations survey and the survey of national income estimates. The base year for the BRI is 1997.

Revenue of the Information and Communication Technology Industry

Revenue of the Information and Communication Technology Industry refers to the sales of complete systems by IT and telecommunications vendors and service providers to end users. 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 Singapore Standard Industrial Classification. 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.

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 the reference year 1990 onwards, they can be obtained from the various industry-specific reports under the Economic Survey Series, viz "Transport & Communications", "Real Estate & Business Services", "Community, Social & Personal Services", "Wholesale & Retail", "Hotels & Catering" and "The Services Sector". From 1999 reference year, the Economic Surveys Series report on Wholesale & Retail will be published separately, i.e. Wholesale Trade and Retail Trade. There will also be a new consolidated report on The Commerce Sector comprising wholesale, retail, hotels and catering trade.

13.1

PRINCIPAL STATISTICS OF THE COMMERCE SECTOR BY INDUSTRY

Year	Establish- ments	Employ- ment	Remunera- tion	Turnover	Operating Expenditure	Operating Surplus	Value Added
	Number		Million Dollars				
Total							
1989	43,455	265,329	4,219	137,901	133,787	4,822	9,773
1994	47,384	329,651	8,798	296,181	289,799	7,776	20,422
1995	47,792	341,562	9,798	341,296	334,409	8,447	21,980
1996	51,847	354,128	10,886	373,371	366,421	8,749	22,997
1997	54,913	351,273	10,762	378,423	371,797	8,459	22,250
1998	53,929	342,489	10,698	327,230	322,467	6,530	19,830
1999	53,848	347,447	10,668	366,867	359,718	9,041	23,061
Wholesale Trade							
1989	21,576	123,560	2,735	117,921	115,156	3,183	6,015
1994	26,178	173,703	6,147	264,899	260,036	5,785	12,733
1995	26,203	179,430	6,915	311,255	305,882	6,423	14,352
1996	28,832	188,659	7,761	342,733	337,320	6,674	15,456
1997	31,519	178,984	7,475	346,929	341,702	6,507	14,727
1998	31,709	181,781	7,615	300,115	296,405	4,938	13,224
1999	31,907	186,251	7,679	336,783	331,227	6,908	15,315
Retail Trade							
1989	18,638	74,815	713	16,532	15,625	1,013	2,288
1994	17,996	84,726	1,371	26,159	25,257	1,093	5,341
1995	18,415	86,318	1,456	24,623	23,737	1,095	5,094
1996	19,548	87,267	1,553	24,883	23,968	1,136	4,864
1997	19,818	86,361	1,584	25,227	24,450	1,008	4,700
1998	18,751	82,101	1,511	21,586	20,952	858	4,155
1999	18,551	86,511	1,527	24,644	23,561	1,309	5,341
Hotels and Catering							
1989	3,241	66,954	771	3,448	3,006	626	1,471
1994	3,210	71,222	1,280	5,123	4,506	898	2,348
1995	3,174	75,814	1,427	5,419	4,790	929	2,534
1996	3,467	78,202	1,572	5,755	5,133	939	2,677
1997	3,576	85,928	1,703	6,267	5,644	944	2,823
1998	3,469	78,607	1,572	5,529	5,110	734	2,451
1999	3,390	74,685	1,462	5,440	4,930	824	2,405

13.2

SELECTED AVERAGES AND RATIOS IN THE COMMERCE SECTOR

Year	Turnover	Operating Surplus	Value Added	Value Added Per Person Engaged	Operating Surplus to Turnover	Remuneration to Operating Expenditure	Remuneration to Value Added
	Per Establishment			Value Added Per Person Engaged	Operating Surplus to Turnover	Remuneration to Operating Expenditure	Remuneration to Value Added
	Thousand Dollars						
Total							
1989	3,173	111	225	37	3.5	3.2	43.2
1994	6,251	164	431	62	2.6	3.0	43.1
1995	7,141	177	460	64	2.5	2.9	44.6
1996	7,201	169	444	65	2.3	3.0	47.3
1997	6,891	154	405	63	2.2	2.9	48.4
1998	6,068	121	368	58	2.0	3.3	53.9
1999	6,813	168	428	66	2.5	3.0	46.3
Wholesale Trade							
1989	5,465	148	279	49	2.7	2.4	45.5
1994	10,119	221	486	73	2.2	2.4	48.3
1995	11,879	245	548	80	2.1	2.3	48.2
1996	11,887	231	536	82	1.9	2.3	50.2
1997	11,007	206	467	82	1.9	2.2	50.8
1998	9,465	156	417	73	1.6	2.6	57.6
1999	10,555	217	480	82	2.1	2.3	50.1
Retail Trade							
1989	887	54	123	31	6.1	4.6	31.2
1994	1,454	61	297	63	4.2	5.4	25.7
1995	1,337	59	277	59	4.4	6.1	28.6
1996	1,273	58	249	56	4.6	6.5	31.9
1997	1,273	51	237	54	4.0	6.5	33.7
1998	1,151	46	222	51	4.0	7.2	36.4
1999	1,328	71	288	62	5.3	6.5	28.6
Hotels and Catering							
1989	1,064	193	454	22	18.1	25.6	52.4
1994	1,596	280	731	33	17.5	28.4	54.5
1995	1,707	293	798	33	17.1	29.8	56.3
1996	1,660	271	772	34	16.3	30.6	58.7
1997	1,753	264	789	33	15.1	30.2	60.3
1998	1,594	212	707	31	13.3	30.8	64.1
1999	1,605	243	709	32	15.1	29.7	60.8

13.3

PRINCIPAL STATISTICS OF THE SERVICES SECTOR BY INDUSTRY

Year	Establish- ments	Employ- ment	Remunera- tion	Operating Receipts ¹	Operating Expenditure ¹	Operating Surplus ¹	Value Added
	Number		Million Dollars				
Transport, Storage and Communications Services							
1989	5,877	96,949	2,486	17,322	13,399	4,827	7,576
1994	8,149	118,175	4,060	28,097	22,115	7,806	12,369
1995	7,983	123,272	4,555	30,677	23,990	8,593	13,682
1996	8,058	123,991	4,764	32,421	25,706	8,743	14,042
1997	8,724	130,660	5,313	34,091	26,956	9,146	15,076
1998	8,522	128,550	5,302	37,414	31,314	8,916	14,759
1999	8,740	128,730	5,331	40,951	33,667	9,818	15,703
Financial and Insurance Services ²							
1989	2,632	10,928	318	8,551	5,051	3,584	885
1994	4,881	16,453	828	15,932	10,109	5,992	1,883
1995	4,797	17,403	937	17,817	10,944	7,057	2,038
1996	5,156	17,984	1,128	24,308	11,094	13,428	2,476
1997	5,499	18,721	1,257	22,908	10,060	13,075	2,860
1998	5,760	17,573	1,272	24,271	10,884	13,585	2,317
1999	5,771	17,656	1,325	24,965	11,517	13,724	2,716
Real Estate and Business Services							
1989	9,629	75,115	1,787	13,162	10,580	3,043	5,156
1994	17,873	126,845	4,632	35,091	29,160	6,892	12,411
1995	18,137	133,993	5,345	35,789	29,915	6,881	13,304
1996	20,214	139,592	5,936	39,506	33,430	7,445	14,452
1997	21,853	152,161	6,450	40,901	34,923	7,421	15,032
1998	23,545	166,767	7,020	40,091	33,978	7,728	15,731
1999	23,628	174,358	7,251	39,144	32,891	7,893	15,989

(continued on next page)

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 With effect from 1986, data exclude establishments within the purview of the Monetary Authority of Singapore (MAS).

13.3

PRINCIPAL STATISTICS OF THE SERVICES SECTOR BY INDUSTRY (continued)

Year	Establish- ments	Employ- ment	Remunera- tion	Operating Receipts ¹	Operating Expenditure ¹	Operating Surplus ¹	Value Added
	Number		Million Dollars				
Community, Social and Personal Services ³							
1989	9,800	63,597	840	3,385	2,952	572	1,818
1994	11,786	84,298	1,952	7,457	6,487	1,355	4,229
1995	11,706	86,667	2,111	7,988	7,006	1,390	4,560
1996	10,634	84,548	2,316	8,395	7,435	1,369	4,876
1997	11,402	92,545	2,595	9,431	8,379	1,482	5,359
1998	11,561	98,567	2,823	9,461	8,558	1,403	5,509
1999	12,170	99,839	2,671	9,619	8,508	1,588	5,591
Non-profit Organisations ⁴							
1989	4,856	41,898	1,041	774	2,155	186	1,280
1994	5,452	50,922	1,981	1,982	4,444	307	2,396
1995	5,664	52,565	2,169	2,117	5,175	496	2,686
1996	6,070	59,330	2,479	2,639	6,146	635	3,254
1997	6,067	61,547	2,546	2,879	6,746	645	3,364
1998	6,077	66,662	2,633	3,162	7,240	647	3,469
1999	6,769	70,202	2,790	3,485	7,658	772	3,805

3 The formulas for computing operating receipts, operating surplus and value added have been revised in 1993. For comparability, data from 1986 onwards were correspondingly revised.

4 For 1986-1995, data exclude mutual benefit organisations, citizens' consultative committees & residents' committees. With effect from 1996, data exclude mutual benefit organisations.

13.4

SELECTED AVERAGES AND RATIOS IN THE SERVICES SECTOR

(Excluding Non-Profit Organisations)

Year	Operating Receipts ¹	Operating Surplus ¹	Value Added	Value Added Per Person Engaged	Operating Surplus to Operating Receipts ¹	Remuneration to Operating Expenditure ¹	Remuneration to Value Added
	Per Establishment						
	Thousand Dollars						
Total							
1989	1,518	430	552	63	28.3	17.0	35.2
1994	2,028	516	724	89	25.5	16.9	37.1
1995	2,165	561	788	93	25.9	18.0	38.6
1996	2,375	703	814	98	29.6	18.2	39.5
1997	2,261	656	807	97	29.0	19.4	40.7
1998	2,252	641	776	93	28.4	19.4	42.8
1999	2,280	656	795	95	28.8	19.1	41.4
Transport, Storage and Communications Services							
1989	2,947	821	1,289	78	27.9	18.6	32.8
1994	3,448	958	1,518	105	27.8	18.4	32.8
1995	3,843	1,076	1,714	111	28.0	19.0	33.3
1996	4,024	1,085	1,743	113	27.0	18.5	33.9
1997	3,908	1,048	1,728	115	26.8	19.7	35.2
1998	4,390	1,046	1,732	115	23.8	16.9	35.9
1999	4,686	1,123	1,797	122	24.0	15.8	33.9
Financial and Insurance Services ²							
1989	3,249	1,362	336	81	41.9	6.3	35.9
1994	3,264	1,228	386	114	37.6	8.2	44.0
1995	3,714	1,471	425	117	39.6	8.6	46.0
1996	4,714	2,604	480	138	55.2	10.2	45.5
1997	4,166	2,378	520	153	57.1	12.5	43.9
1998	4,214	2,359	402	132	56.0	11.7	54.9
1999	4,326	2,378	471	154	55.0	11.5	48.8

(continued on next page)

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 With effect from 1986, data exclude establishments within the purview of the Monetary Authority of Singapore (MAS).

13.4

SELECTED AVERAGES AND RATIOS IN THE SERVICES SECTOR (continued)

(Excluding Non-Profit Organisations)

Year	Operating Receipts ¹	Operating Surplus ¹	Value Added	Value Added Per Person Engaged	Operating Surplus to Operating Receipts ¹	Remuneration to Operating Expenditure ¹	Remuneration to Value Added
	Per Establishment						
	Thousand Dollars				Per Cent		
Real Estate and Business Services							
1989	1,367	316	536	69	23.1	16.9	34.7
1994	1,963	386	694	98	19.6	15.9	37.3
1995	1,973	379	734	99	19.2	17.9	40.2
1996	1,954	368	715	104	18.8	17.8	41.1
1997	1,872	340	688	99	18.1	18.5	42.9
1998	1,703	328	668	94	19.3	20.7	44.6
1999	1,657	334	677	92	20.2	22.0	45.3
Community, Social and Personal Services ³							
1989	345	58	186	29	16.9	28.5	46.2
1994	633	115	359	50	18.2	30.1	46.2
1995	682	119	390	53	17.4	30.1	46.3
1996	789	129	459	58	16.3	31.2	47.5
1997	827	130	470	58	15.7	31.0	48.4
1998	818	121	477	56	14.8	33.0	51.2
1999	790	131	459	56	16.5	31.4	47.8

3 The formulas for computing operating receipts, operating surplus and value added have been revised in 1993. For comparability, data from 1986 onwards were correspondingly revised.

13.5

RETAIL SALES INDEX
(1997=100)

	Weights ¹	1995	1996	1997	1998	1999	2000
At Current Prices							
Total	10,000	101.1	102.5	100.0	92.2	105.6	128.5
Total (excl Motor Vehicles)	7,360	92.2	97.6	100.0	90.8	96.2	103.0
Department Stores	1,395	98.5	101.4	100.0	89.0	98.0	104.3
Supermarkets	301	78.5	88.5	100.0	117.9	115.8	123.0
Provision & Sundry Shops	592	95.3	96.7	100.0	100.5	97.6	100.6
Food & Beverages	200	102.5	103.2	100.0	76.9	83.1	87.6
Motor Vehicles	2,640	137.6	122.9	100.0	96.2	131.6	199.4
Petrol Service Stations	310	95.0	101.8	100.0	98.9	92.2	104.4
Medical Goods & Toiletries	319	92.9	95.7	100.0	95.8	104.1	113.1
Wearing Apparel & Footwear	713	105.1	106.5	100.0	88.9	102.0	107.7
Furniture & Household Equipment	1,047	82.0	91.4	100.0	98.6	105.9	111.6
Recreational Goods	201	79.2	90.4	100.0	86.2	98.1	103.6
Watches & Jewellery	911	89.3	90.0	100.0	74.4	80.8	80.6
Telecommunications & Computers	356	71.6	94.6	100.0	68.9	72.1	97.3
Optical Goods & Books	381	85.3	94.8	100.0	90.7	97.5	107.2
Others	634	104.1	106.6	100.0	97.4	95.8	105.2
At Constant Prices							
Total	10,000	97.3	100.1	100.0	94.1	109.4	137.1
Total (excl Motor Vehicles)	7,360	90.7	96.5	100.0	91.4	98.5	105.7
Department Stores	1,395	99.9	102.3	100.0	89.7	99.1	105.5
Supermarkets	301	81.7	90.5	100.0	118.3	114.8	120.7
Provision & Sundry Shops	592	99.2	99.2	100.0	100.0	96.5	98.8
Food & Beverages	200	106.3	105.0	100.0	76.8	82.5	86.0
Motor Vehicles	2,640	128.3	117.3	100.0	101.5	139.5	224.4
Petrol Service Stations	310	100.1	106.1	100.0	98.5	95.2	92.5
Medical Goods & Toiletries	319	92.0	95.3	100.0	95.7	103.3	111.5
Wearing Apparel & Footwear	713	105.2	106.5	100.0	90.7	106.0	112.9
Furniture & Household Equipment	1,047	81.4	91.2	100.0	99.8	109.9	118.3
Recreational Goods	201	78.6	90.0	100.0	85.6	99.7	104.9
Watches & Jewellery	911	80.9	82.3	100.0	74.8	85.1	84.5
Telecommunications & Computers	356	60.4	86.9	100.0	74.3	85.6	127.2
Optical Goods & Books	381	86.4	94.9	100.0	90.3	97.5	107.6
Others	634	104.4	105.9	100.0	96.7	95.6	103.9

¹ Based on turnover data derived from the 1997 Annual Survey of Retail Trade.

13.6 SALES INDEX OF CATERING TRADE

(1997=100)

	Weights ¹	1990	1995	1996	1997	1998	1999	2000
At Current Prices								
Total	1,000	68.6	90.6	94.9	100.0	93.7	93.4	99.7
Restaurants	450	72.9	96.2	98.9	100.0	89.8	91.2	98.9
Fast Food Outlets	131	51.5	86.0	92.4	100.0	99.0	105.8	112.0
Others	419	70.8	87.4	92.4	100.0	96.2	91.8	96.7
At Constant Prices								
Total	1,000	81.1	93.9	96.4	100.0	92.1	91.1	96.7
Restaurants	450	88.3	100.3	101.4	100.0	88.4	88.8	95.8
Fast Food Outlets	131	58.9	87.1	91.6	100.1	96.1	102.4	107.6
Others	419	83.0	91.2	94.1	100.0	94.9	90.1	94.3

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.

13.7 WHOLESALE TRADE INDEX

(1994=100)

	Weights ¹	1995	1996	1997	1998	1999	2000
Domestic Wholesale Trade Index							
Total	10,000	109.9	107.5	117.2	104.7	109.4	140.5
Total (excl Petroleum)	8,091	114.4	106.9	115.5	102.4	99.7	109.1
Food, Beverages & Tobacco	839	130.5	128.4	133.6	134.1	130.4	126.9
Textiles, Wearing Apparel & Personal Effects	519	83.7	85.9	93.4	69.5	77.7	77.5
Household Equipment & Furniture	1,138	120.1	99.7	131.5	109.8	89.6	92.6
Petroleum & Petroleum Products	1,909	90.8	110.4	124.6	114.6	150.3	273.7
Electronic & Electrical Components & Industrial Machinery	2,067	124.3	98.6	99.3	84.3	87.2	105.0
Office Equipment, Computers & Accessories	566	111.6	139.4	162.5	171.5	181.7	199.3
Timber, Paints & Construction Materials	767	104.7	113.6	113.7	82.5	81.1	80.0
General Wholesale Trade	513	132.4	120.2	136.2	141.7	110.5	107.2
Other Wholesale Trade	1,682	99.9	99.6	101.1	87.7	91.0	109.7
Foreign Wholesale Trade Index							
Total	10,000	118.9	132.0	141.4	121.2	137.4	191.9
Total (excl Petroleum)	6,550	123.1	125.5	127.2	111.4	111.7	132.9
Food, Beverages & Tobacco	583	112.8	107.8	122.7	146.2	120.9	112.3
Textiles, Wearing Apparel & Personal Effects	257	102.6	103.5	97.0	69.8	74.6	86.0
Household Equipment & Furniture	1,227	100.7	98.6	87.8	76.5	54.0	66.0
Petroleum & Petroleum Products	3,450	111.1	144.3	168.3	139.8	186.2	304.0
Electronic & Electrical Components & Industrial Machinery	1,026	129.3	136.9	134.6	135.3	163.5	215.0
Office Equipment, Computers & Accessories	327	136.2	153.3	169.9	143.4	173.0	205.7
Timber, Paints & Construction Materials	360	105.8	97.1	98.4	58.1	68.9	76.9
General Wholesale Trade	1,472	124.5	122.2	123.7	100.1	87.6	108.4
Other Wholesale Trade	1,298	147.9	158.8	167.9	137.4	152.3	174.6

¹ Based on turnover data derived from the 1994 Annual Survey of Wholesale Trade.

13.8

BUSINESS RECEIPTS INDEX FOR SERVICE INDUSTRIES
 (1997 = 100)

	Weights ¹	1998	1999	2000
Total	10,000	92.4	98.6	110.3
Total (excluding financial & insurance services)	7,365	92.7	96.8	108.6
Land Transport	386	94.0	92.2	101.0
Water Transport	1,967	78.0	88.6	98.7
Air Transport	1,170	98.5	110.1	124.7
Transport Related Services	643	92.1	97.2	104.0
Post & Telecommunications	638	104.8	104.8	123.0
Information Technology				
Services	326	109.2	103.6	114.7
Professional Services	890	95.0	96.0	115.2
Real Estates (excluding developers)	594	98.0	88.8	88.4
Business Services	469	91.9	88.1	104.4
Medical Services	282	107.4	111.1	121.0
Financial Services	2,120	94.7	109.8	111.4
Insurance Services	515	78.6	79.3	131.2

¹ Based on operating receipts derived from the 1997 Annual Survey of Services.

13.9

REVENUE OF THE INFORMATION AND COMMUNICATION TECHNOLOGY INDUSTRY

Million Dollars

	1993	1994	1995	1996	1997	1998
Local and Export Market¹						
Total	3,717.6	5,008.2	6,727.8	9,036.5	11,951.3	19,954.0
Local	2,092.3	2,793.4	3,387.4	3,935.6	4,960.9	10,804.0
Export	1,625.3	2,214.8	3,340.4	5,100.9	6,990.4	9,150.0
Hardware and Software/IT Services Market¹						
Total	3,717.6	5,008.2	6,727.8	9,036.5	11,951.3	19,954.0
Hardware	2,684.2	3,697.8	5,088.3	7,012.7	9,269.5	7,582.5
Software / IT Services	1,033.4	1,310.5	1,639.5	2,023.8	2,681.8	4,988.5
Telecommunications	-	-	-	-	-	7,383.0

Source : Infocomm Development Authority of Singapore

¹ With effect from 1998, data include telecommunications revenue.

two main types of goods: (i) goods which are imported or exported in bulk as defined in the Customs Act, and (ii) goods which are imported or exported in small quantities.

- (v) Television news films, news or other films, and (vi) Press material.
- (vii) Goods imported or exported in bulk as defined in the Customs Act, and (viii) Goods imported or exported in small quantities as defined in the Customs Act.

EXTERNAL TRADE

- (ix) Goods imported or exported in bulk as defined in the Customs Act, and (x) Goods imported or exported in small quantities as defined in the Customs Act.

- (xi) Issued currency notes and coins.

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.

Singapore's external trade statistics are compiled by the Singapore External Trade Statistics Board from import and export data submitted to the Customs and Excise Department by the Singapore Customs and Excise Department.

- (i) Postal packages which are based on particulars furnished by the Singapore Post Ltd. and

(ii) Bankers' non-Singapore remittances, which are compiled from statements furnished by the Singapore Customs and Excise Department to the Singapore External Trade Statistics Board.

Coverage

The "General" system of external trade statistics is adopted in Singapore. Under this system, all goods imported or exported from Singapore are included in the external trade statistics with the following exceptions:

- (i) Transported cargo on through bills of lading or through airway bills;
- (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;

Sources of Data

From April 1987, Singapore's external trade statistics are compiled by the Trade Development Board 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 Trade Development Board.

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.

14 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 1995 Prices: This is obtained by adjusting the recorded value of trade using import/export price indices with base year 1995. The series on trade at 1995 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 1996, the trade classification adopted for documenting Singapore's external trade is the 1996 Singapore Trade Classification and Customs Duties, which is based on the Harmonised System. However, for the publication of external trade statistics, a classification based on the Standard International Trade Classification (Revision 3) is used. Imports are classified by the country of origin and exports by the country of destination.

Other References

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

14.1 EXTERNAL TRADE BY TYPE

Million Dollars

	1990	1995	1996	1997	1998	1999	2000
At Current Prices							
Total Trade	205,012	343,828	361,455	382,218	353,627	382,431	470,001
Exports	95,206	167,515	176,272	185,613	183,763	194,290	237,826
Oil	17,295	13,858	16,728	16,219	13,639	15,335	23,061
Non-oil	77,911	153,657	159,544	169,393	170,124	178,954	214,765
Domestic Exports	62,754	98,473	103,589	107,535	105,918	116,325	135,938
Oil	17,137	13,721	16,551	15,912	13,473	15,143	22,867
Non-oil	45,617	84,751	87,038	91,624	92,445	101,182	113,072
Re-exports	32,452	69,042	72,683	78,077	77,846	77,965	101,888
Imports	109,806	176,314	185,183	196,605	169,864	188,142	232,175
Oil	17,399	14,204	17,313	18,635	13,647	17,075	27,987
Non-oil	92,407	162,110	167,870	177,971	156,217	171,066	204,188
At 1995 Prices							
Total Trade	179,654	343,828	377,767	418,972	390,941	419,710	486,135
Exports	80,098	167,515	184,521	205,923	205,353	216,463	252,809
Oil	10,816	13,858	14,402	14,524	15,649	14,179	13,286
Non-oil	69,282	153,657	170,118	191,399	189,704	202,285	239,522
Domestic Exports	48,967	98,473	107,754	119,806	120,637	130,360	143,689
Oil	10,693	13,721	14,237	14,248	15,459	14,018	13,182
Non-oil	38,274	84,751	93,516	105,558	105,178	116,342	130,507
Re-exports	31,131	69,042	76,767	86,116	84,716	86,103	109,120
Imports	99,556	176,314	193,247	213,049	185,589	203,247	233,327
Oil	12,343	14,204	15,794	16,539	15,725	14,479	14,814
Non-oil	87,213	162,110	177,453	196,510	169,864	188,767	218,513

Source : Trade Development Board

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

14.2 TOTAL TRADE BY AREA/COUNTRY

Area/Country	Million Dollars						
	1990	1995	1996	1997	1998	1999	2000
Total	205,012	343,828	361,455	382,218	353,627	382,431	470,001
America	41,953	62,531	69,099	74,226	74,704	76,228	84,233
Brazil	668	1,127	1,164	1,008	813	877	997
Canada	1,466	1,552	1,396	1,595	1,708	1,445	1,728
United States ¹	37,826	57,017	62,703	67,135	67,759	69,259	75,907
Asia	120,069	217,105	224,019	235,316	206,239	232,557	301,702
Bahrain	524	191	230	245	261	313	366
Bangladesh	797	868	989	897	1,204	1,189	1,505
Brunei	1,211	2,394	2,702	2,337	1,321	1,079	1,294
Cambodia	-	769	796	730	595	780	864
China, People's Republic of	5,217	9,640	11,043	14,484	14,917	16,292	21,564
Hong Kong	9,551	20,173	21,609	23,629	20,178	20,315	24,764
India	2,667	3,967	4,354	4,846	5,085	5,496	6,661
Iran (Islamic Republic of)	1,058	848	676	1,071	988	1,476	2,651
Iraq	78	-	-	239	-	130	768
Japan	30,448	50,355	48,071	47,688	40,524	45,745	57,904
Korea, Republic of	5,326	12,249	11,715	11,539	9,379	13,091	16,788
Kuwait	940	1,757	2,013	1,870	1,259	1,973	2,756
Laos, People's Democratic Rep	-	73	63	52	35	71	53
Malaysia	27,412	59,410	59,551	61,953	54,251	61,447	82,589
Pakistan	655	524	480	495	588	655	725
Philippines	1,782	4,291	5,197	7,335	8,122	9,769	11,632
Saudi Arabia	6,362	5,841	7,577	8,529	6,132	6,082	8,017
Sri Lanka	460	611	618	661	956	852	890
Taiwan	8,099	14,073	14,291	16,575	14,445	17,018	24,492
Thailand	9,284	18,768	20,123	18,613	15,156	17,425	20,130
United Arab Emirates	3,486	3,238	4,168	3,823	3,476	3,536	4,392
Vietnam, Socialist Republic of	-	3,173	3,035	3,281	3,240	3,421	5,024
Europe	34,064	53,055	56,564	60,574	60,003	60,551	67,799
France	4,202	6,816	8,717	9,080	8,629	8,106	7,458
Germany, Federal Republic of ²	7,723	11,793	12,173	12,101	11,406	11,633	14,681
Italy	2,993	3,601	3,904	3,675	2,701	2,761	3,717
Netherlands	2,998	6,061	5,860	6,253	7,954	8,191	9,346
Sweden	892	1,185	1,282	1,529	1,154	1,182	1,059
Switzerland	1,724	2,735	2,911	2,664	3,536	3,258	4,830
United Kingdom	6,407	9,039	10,050	11,703	10,873	11,870	10,849
Oceania	6,131	7,965	8,607	8,878	9,112	9,815	11,966
Australia	4,464	6,230	6,811	6,997	7,442	7,837	9,500
New Zealand	616	837	875	895	893	1,006	970
Africa	2,795	3,172	3,167	3,223	3,569	3,281	4,301

Source : Trade Development Board

¹ Prior to 1986, the United States of America included Puerto Rico.² Figures from Oct 1990 include the former German Democratic Republic.

14.3 IMPORTS BY AREA/COUNTRY

Million Dollars

Area/Country	1990	1995	1996	1997	1998	1999	2000
Total	109,806	176,314	185,183	196,605	169,864	188,142	232,175
America	19,564	28,856	33,209	36,297	34,130	34,797	37,492
Brazil	539	510	477	385	322	428	442
Canada	649	742	830	1,028	767	698	826
United States ¹	17,580	26,470	30,256	33,017	31,253	32,044	34,718
Asia	69,551	115,932	117,093	124,271	105,062	120,522	155,969
Bahrain	481	154	190	201	207	273	320
Bangladesh	83	34	45	71	76	100	150
Brunei	234	317	290	271	293	261	456
Cambodia	-	60	67	92	100	198	129
China, People's Republic of	3,773	5,730	6,259	8,447	8,123	9,649	12,279
Hong Kong	3,365	5,821	5,922	5,780	4,759	5,400	6,059
India	677	1,306	1,427	1,548	1,012	1,252	1,857
Iran (Islamic Republic of)	842	675	511	873	836	1,232	2,279
Iraq	71	-	-	239	-	129	754
Japan	22,146	37,288	33,617	34,564	28,434	31,325	39,955
Korea, Republic of	3,218	7,652	6,362	6,056	5,087	7,063	8,309
Kuwait	843	1,654	1,911	1,769	1,151	1,861	2,614
Laos, People's Democratic Rep	-	15	5	1	1	14	2
Malaysia	14,964	27,285	27,808	29,548	26,252	29,283	39,399
Pakistan	154	91	100	88	64	99	77
Philippines	567	1,558	1,960	2,954	4,002	4,974	5,794
Saudi Arabia	5,863	5,380	7,042	7,974	5,493	5,536	7,478
Sri Lanka	59	77	72	69	80	65	96
Taiwan	4,677	7,251	7,421	8,208	6,517	7,540	10,296
Thailand	2,974	9,097	10,117	10,080	8,118	8,889	10,009
United Arab Emirates	2,677	2,035	2,898	2,430	1,763	2,063	2,596
Vietnam, Socialist Republic of	-	636	615	807	709	888	1,413
Europe	17,510	27,640	30,654	31,944	26,995	28,965	33,003
France	2,646	3,964	5,250	5,431	4,888	4,397	3,774
Germany, Federal Republic of ²	3,898	6,127	6,760	6,723	5,843	6,111	7,304
Italy	1,733	2,510	3,188	2,903	1,840	2,026	2,869
Netherlands	966	1,600	1,787	1,695	1,623	1,654	2,294
Sweden	597	943	1,090	1,345	964	1,032	897
Switzerland	1,285	2,168	2,347	2,292	1,650	2,893	3,928
United Kingdom	3,376	4,687	5,067	5,513	4,636	4,623	4,722
Oceania	2,406	2,910	3,231	3,111	2,546	2,910	4,478
Australia	2,127	2,556	2,797	2,668	2,167	2,464	3,965
New Zealand	248	293	333	335	278	307	332
Africa	775	976	997	982	1,131	948	1,232

Source : Trade Development Board

Note : See notes to Table 14.2.

14.4 EXPORTS BY AREA/COUNTRY

Area/Country	Million Dollars						
	1990	1995	1996	1997	1998	1999	2000
Total	95,206	167,515	176,272	185,613	183,763	194,290	237,826
America	22,389	33,675	35,890	37,929	40,574	41,431	46,741
Brazil	129	618	688	623	491	450	555
Canada	818	810	565	568	941	747	902
United States ¹	20,246	30,547	32,446	34,117	36,506	37,215	41,189
Asia	50,518	101,173	106,926	111,045	101,177	112,035	145,733
Bahrain	43	37	40	44	53	39	45
Bangladesh	714	835	944	825	1,129	1,089	1,355
Brunei	978	2,077	2,412	2,067	1,028	818	838
Cambodia	-	709	729	638	495	582	735
China, People's Republic of	1,443	3,911	4,784	6,038	6,794	6,643	9,285
Hong Kong	6,186	14,352	15,687	17,848	15,418	14,915	18,705
India	1,990	2,661	2,927	3,297	4,073	4,243	4,804
Iran (Islamic Republic of)	216	173	165	198	153	243	372
Iraq	7	-	-	-	-	1	14
Japan	8,302	13,066	14,455	13,125	12,090	14,421	17,949
Korea, Republic of	2,108	4,597	5,353	5,483	4,291	6,027	8,479
Kuwait	98	103	102	101	108	112	142
Laos, People's Democratic Rep	-	58	58	51	33	57	52
Malaysia	12,448	32,125	31,743	32,405	27,999	32,164	43,190
Pakistan	501	433	380	407	524	556	648
Philippines	1,215	2,733	3,238	4,382	4,120	4,795	5,838
Saudi Arabia	500	461	535	555	639	547	539
Sri Lanka	402	534	546	591	876	788	795
Taiwan	3,422	6,822	6,870	8,367	7,929	9,477	14,195
Thailand	6,310	9,672	10,006	8,532	7,037	8,536	10,122
United Arab Emirates	808	1,203	1,270	1,393	1,713	1,473	1,796
Vietnam, Socialist Republic of	-	2,537	2,420	2,473	2,531	2,532	3,611
Europe	16,554	25,415	25,910	28,630	33,008	31,586	34,796
France	1,556	2,852	3,467	3,648	3,741	3,709	3,684
Germany, Federal Republic of ²	3,825	5,666	5,413	5,378	5,564	5,522	7,377
Italy	1,260	1,091	716	771	861	734	848
Netherlands	2,033	4,461	4,073	4,558	6,331	6,536	7,052
Sweden	295	242	192	184	190	151	162
Switzerland	439	567	564	373	1,886	365	903
United Kingdom	3,031	4,352	4,984	6,190	6,236	7,247	6,127
Oceania	3,725	5,055	5,376	5,767	6,566	6,905	7,488
Australia	2,337	3,674	4,014	4,328	5,275	5,373	5,535
New Zealand	368	544	542	559	615	699	638
Africa	2,020	2,196	2,170	2,241	2,438	2,333	3,069

Source : Trade Development Board

Note : See notes to Table 14.2.

14.5 DOMESTIC EXPORTS BY AREA/COUNTRY

Million Dollars

Area/Country	1990	1995	1996	1997	1998	1999	2000
Total	62,754	98,473	103,589	107,535	105,918	116,325	135,938
America	18,159	26,234	27,907	29,193	30,408	31,518	33,185
Brazil	42	335	393	307	249	221	314
Canada	573	545	357	320	667	466	560
United States ¹	16,673	24,213	25,689	26,849	27,778	28,574	29,039
Asia	29,365	50,875	53,835	55,036	50,196	57,028	73,525
Bahrain	24	17	17	23	25	20	20
Bangladesh	409	485	576	372	612	605	757
Brunei	300	379	388	405	285	252	265
Cambodia	-	153	264	275	205	328	465
China, People's Republic of	867	2,350	2,844	3,599	3,849	3,908	5,278
Hong Kong	4,303	8,377	9,538	10,536	8,719	8,836	10,501
India	820	1,116	1,194	1,379	1,954	1,970	2,097
Iran (Islamic Republic of)	62	48	58	47	48	143	299
Iraq	2	-	-	-	-	1	12
Japan	6,211	9,051	9,789	7,956	6,947	8,989	11,544
Korea, Republic of	1,299	2,424	3,019	2,767	2,020	2,934	4,279
Kuwait	51	66	56	51	53	65	99
Laos, People's Democratic Rep	-	9	4	4	10	23	22
Malaysia	5,265	13,441	13,299	13,997	12,641	14,031	18,291
Pakistan	281	160	158	169	235	239	287
Philippines	675	1,345	1,525	2,208	2,012	2,220	2,704
Saudi Arabia	277	174	197	226	232	243	235
Sri Lanka	131	206	214	254	331	352	333
Taiwan	2,314	3,884	3,710	4,223	3,784	4,956	7,716
Thailand	4,583	4,759	4,561	4,041	3,534	4,294	4,648
United Arab Emirates	389	395	416	386	581	452	541
Vietnam, Socialist Republic of	-	1,304	1,168	1,251	1,271	1,341	2,077
Europe	11,572	17,297	17,821	19,360	21,386	22,706	22,458
France	1,181	2,035	2,557	2,520	2,343	2,287	2,272
Germany, Federal Republic of ²	2,817	3,575	3,456	3,579	3,805	3,853	4,763
Italy	998	790	459	463	493	510	523
Netherlands	1,320	3,384	3,168	3,149	4,431	4,825	4,777
Sweden	238	141	109	116	100	80	92
Switzerland	268	216	303	125	201	166	333
United Kingdom	2,255	3,306	3,601	4,557	4,660	5,935	4,200
Oceania	2,644	3,022	3,097	3,004	2,941	3,985	5,008
Australia	1,615	2,139	2,258	2,129	2,215	3,076	3,570
New Zealand	209	312	266	256	280	313	352
Africa	1,014	1,046	929	943	987	1,088	1,763

Source : Trade Development Board

Note : See notes to Table 14.2.

14.6

IMPORTS BY COMMODITY SECTION

Commodity Section	Million Dollars						
	1990	1995	1996	1997	1998	1999	2000
Total	109,806	176,314	185,183	196,605	169,864	188,142	232,175
Food	4,314	5,153	5,160	5,223	4,515	4,984	5,122
Fruits, nuts & vegetables	1,102	1,223	1,222	1,161	1,023	1,079	1,049
Fish & crustaceans	640	929	901	926	694	802	953
Spices, chocolate & coffee	638	603	495	613	546	625	608
Meat & meat preparations	359	392	417	403	366	530	586
Beverages & Tobacco	1,426	2,024	2,393	2,641	2,307	1,964	1,951
Tobacco & tobacco manufactures	893	1,167	1,353	1,749	1,600	1,181	1,087
Beverages	533	857	1,040	892	707	783	864
Crude Materials	2,371	2,086	1,889	1,787	1,367	1,470	1,774
Crude minerals (excl coal, petroleum & precious stones) & fertilizers	144	220	275	309	247	306	560
Crude rubber (incl synthetic & reclaimed)	992	684	553	455	359	333	333
Metalliferous ores & metal scrap	234	178	170	186	138	173	233
Mineral Fuels	17,399	14,204	17,313	18,635	13,647	17,075	27,987
Petroleum (includes crude & refined products)	17,384	14,196	17,304	18,625	13,643	17,070	27,985
Animal & Vegetable Oils	753	753	517	514	524	504	383
Fixed vegetables fats & oils (e.g. refined palm oil)	403	314	418	448	452	441	325
Chemicals & Chemical Products	8,440	11,385	10,940	11,268	10,280	11,212	13,282
Organic chemicals	1,354	2,370	2,181	2,483	2,242	2,283	2,610
Plastics in primary forms	1,485	1,977	1,795	2,010	1,679	2,000	2,512
Perfume, cosmetics & cleansing preparations	619	1,105	1,149	1,173	1,058	1,248	1,376
Manufactured Goods	14,167	19,191	18,255	19,626	15,080	14,973	16,359
Metal manufactures (incl hand tools & structural parts)	2,161	3,006	3,170	3,549	3,301	3,303	3,289
Iron & steel	3,066	3,910	3,758	4,254	3,235	2,744	2,962
Non-ferrous metals	1,887	3,610	2,736	3,499	2,538	2,409	2,855
Non-metallic mineral manufactures	1,513	2,662	3,059	3,025	2,077	2,116	2,304
Textile manufactures	3,212	2,987	2,701	2,555	1,751	1,894	2,200

(continued on next page)

Source : Trade Development Board

14.6 IMPORTS BY COMMODITY SECTION (continued)

Million Dollars

Commodity Section	1990	1995	1996	1997	1998	1999	2000
Machinery & Transport Equipment	49,065	102,055	107,209	113,163	102,692	113,365	141,068
Electronic valves ¹	8,108	30,284	29,637	31,064	30,734	37,461	52,729
Parts for office & DP machines ²	4,328	10,535	11,216	13,248	12,809	14,857	17,030
Data processing machines ³	3,159	7,439	9,602	10,679	9,019	8,916	11,000
Communication equipment ⁴	4,234	8,470	7,602	8,259	6,637	7,298	8,814
Electrical machinery ⁵	1,774	4,272	3,965	4,293	4,155	4,782	6,468
Electrical circuit apparatus ⁶	2,384	4,915	4,886	4,999	5,056	5,608	6,343
Miscellaneous Manufactured Articles	10,450	17,390	19,347	20,685	16,942	19,575	21,694
Disc media products & plastic articles	3,396	6,488	7,833	7,855	6,186	6,616	6,543
Scientific instruments & apparatus	1,668	3,483	3,684	4,566	3,877	4,852	5,862
Photographic supplies, watches & optical goods	2,498	3,329	3,423	3,545	3,058	3,546	4,110
Miscellaneous Transactions nec	1,420	2,072	2,160	3,063	2,509	3,019	2,554

Source : Trade Development Board

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.

14.7 EXPORTS BY COMMODITY SECTION

Commodity Section	Million Dollars						
	1990	1995	1996	1997	1998	1999	2000
Total	95,206	167,515	176,272	185,613	183,763	194,290	237,826
Food	2,734	3,554	3,192	3,220	3,018	2,985	3,029
Spices, chocolate & coffee	778	1,073	818	1,010	1,080	1,039	1,019
Fish & crustaceans	745	824	761	731	658	659	777
Fruits, nuts & vegetables	388	558	554	488	397	403	324
Beverages & Tobacco	1,388	2,274	2,631	2,766	2,677	1,949	1,904
Tobacco & tobacco manufactures	851	1,425	1,807	2,002	2,042	1,287	1,221
Beverages	536	849	824	764	635	662	683
Crude Materials	2,915	2,405	1,987	1,797	1,756	1,562	1,676
Metalliferous ores & metal scrap	349	409	365	401	416	375	502
Crude rubber (incl synthetic & reclaimed)	1,425	981	777	568	445	408	397
Crude vegetable & animal materials (incl seeds & orchid)	341	289	275	250	229	211	217
Mineral Fuels	17,295	13,858	16,728	16,219	13,639	15,335	23,061
Petroleum (includes crude & refined products)	17,156	13,642	16,453	15,898	13,350	15,032	22,613
Animal & Vegetable Oils	761	718	520	508	491	483	377
Fixed vegetables fats & oils (e.g. refined palm oil)	349	280	353	369	346	336	244
Chemicals & Chemical Products	5,970	9,999	9,885	11,136	11,832	15,326	16,488
Organic chemicals	1,915	3,309	3,199	3,853	4,008	5,681	5,258
Plastics in primary forms	1,451	2,089	2,059	2,427	2,557	2,904	3,821
Medical & pharmaceutical products	378	852	869	916	990	1,995	1,745
Manufactured Goods	6,651	10,614	10,072	10,402	8,327	8,445	9,017
Non-ferrous metals	1,060	2,767	2,401	2,666	1,874	2,000	2,097
Metal manufactures (incl hand tools & structural parts)	1,215	1,820	1,852	1,982	1,789	1,699	1,780
Textile manufactures	1,631	2,119	1,900	1,844	1,439	1,445	1,565
Iron & steel	790	1,212	1,168	1,230	929	848	953
Non-metallic mineral manufactures	577	961	1,113	1,104	697	709	858

(continued on next page)

Source : Trade Development Board

14.7

EXPORTS BY COMMODITY SECTION (continued)

Million Dollars

Commodity Section	1990	1995	1996	1997	1998	1999	2000
Machinery & Transport Equipment	47,733	110,007	116,262	122,474	122,116	128,807	160,402
Electronic valves ¹	6,635	26,052	27,849	30,472	32,520	39,029	59,430
Data processing machines ²	12,328	27,675	32,549	34,496	34,060	33,531	33,527
Parts for office & DP machines ³	3,686	12,608	13,334	15,307	16,458	17,165	19,430
Communication equipment ⁴	4,220	9,737	8,891	9,138	8,043	8,742	10,404
Electrical circuit apparatus ⁵	1,397	3,472	3,483	3,724	3,931	4,823	5,629
Electrical machinery ⁶	1,162	3,577	3,678	3,962	4,027	4,141	5,846
Miscellaneous Manufactured Articles	8,500	12,552	13,103	14,260	15,024	16,414	19,382
Disc media products & plastic articles	2,580	4,884	5,187	5,551	6,274	6,847	8,338
Photographic supplies, watches & optical goods	1,341	2,602	2,979	3,199	3,014	3,136	3,682
Scientific instruments & apparatus	1,121	2,257	2,167	2,476	2,775	3,147	3,567
Miscellaneous Transactions nec	1,260	1,532	1,892	2,831	4,883	2,984	2,491

Source : Trade Development Board

- 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.

14.8 DOMESTIC EXPORTS BY COMMODITY SECTION

Million Dollars

Commodity Section	1990	1995	1996	1997	1998	1999	2000
Total	62,754	98,473	103,589	107,535	105,918	116,325	135,938
Food	958	1,197	1,259	1,275	1,221	1,237	1,345
Spices, chocolate & coffee	249	292	320	352	381	382	412
Fish & crustaceans	224	260	271	267	242	253	304
Cereals & cereal preparations	123	163	168	159	150	150	148
Beverages & Tobacco	386	483	493	407	393	263	260
Tobacco & tobacco manufactures	193	302	327	283	294	182	171
Beverages	193	181	166	125	99	81	89
Crude Materials	460	579	495	561	549	498	650
Metalliferous ores & metal scrap	264	340	295	355	375	319	439
Crude vegetable & animal materials (incl seeds & orchid)	100	87	83	74	74	84	85
Pulp & waste paper	31	64	42	40	42	48	72
Mineral Fuels	17,137	13,721	16,551	15,912	13,473	15,143	22,867
Petroleum (includes crude & refined products)	17,005	13,513	16,280	15,593	13,187	14,840	22,419
Animal & Vegetable Oils	587	333	299	316	333	346	282
Fixed vegetables fats & oils (e.g. refined palm oil)	236	102	193	217	233	237	180
Chemicals & Chemical Products	3,619	5,621	5,626	6,650	7,163	10,393	10,718
Organic chemicals	1,317	2,032	2,009	2,585	2,841	4,621	3,948
Plastics in primary forms	958	1,346	1,374	1,711	1,933	2,207	2,939
Medical & pharmaceutical products	251	280	298	282	383	1,291	971
Manufactured Goods	2,127	2,924	2,844	2,935	2,565	2,696	3,077
Metal manufactures (incl hand tools & structural parts)	772	970	949	981	871	878	988
Textile manufactures	249	372	351	372	339	421	506
Paper & paperboard	353	491	463	428	386	412	414
Non-ferrous metals	164	281	262	275	235	251	302
Non-metallic mineral manufactures	171	303	346	384	261	279	291

(continued on next page)

Source : Trade Development Board

14.8

DOMESTIC EXPORTS BY COMMODITY SECTION (continued)

Million Dollars

Commodity Section	1990	1995	1996	1997	1998	1999	2000
Machinery & Transport Equipment	32,352	67,751	70,288	72,845	72,428	76,363	85,851
Electronic valves ¹	4,844	13,501	13,961	15,705	15,963	19,059	26,533
Data processing machines ²	10,995	22,810	26,435	27,248	27,229	27,414	24,867
Parts for office & DP machines ³	3,079	10,507	10,877	12,095	12,586	13,085	13,417
Communication equipment ⁴	2,985	5,745	4,587	4,472	3,894	4,395	5,343
Electrical circuit apparatus ⁵	981	2,178	2,211	2,337	2,388	2,783	2,974
Electrical machinery ⁶	755	1,976	2,009	2,080	1,988	1,738	2,432
Miscellaneous Manufactured Articles	4,866	5,332	5,176	6,017	7,005	8,522	10,068
Disc media products & plastic articles	1,736	2,472	2,527	3,168	3,795	5,002	6,074
Scientific instruments & apparatus	610	1,205	1,155	1,301	1,659	1,877	2,185
Miscellaneous Transactions nec	263	532	558	617	787	865	819

Source : Trade Development Board

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.

14.9 IMPORTS OF SPECIFIC COMMODITIES

Million Dollars

Commodity	1990	1995	1996	1997	1998	1999	2000
Meat	359	392	417	403	366	530	586
Rice	148	164	195	225	203	250	227
Unmilled Cereals	105	64	56	59	44	46	45
Fruits & Nuts	498	531	543	529	473	504	494
Spices	233	170	196	273	248	341	320
Animal Feed	83	59	66	51	44	57	57
Crude Rubber	942	617	486	388	293	260	247
Sawn Timber	306	295	273	272	177	172	164
Crude Petroleum	12,504	9,190	11,256	11,925	8,500	9,029	15,078
Petroleum Products	4,880	5,006	6,048	6,700	5,144	8,041	12,907
Fixed Vegetables Oils	403	314	418	448	452	441	325
Medicinal Products	361	937	964	1,072	990	1,256	1,238
Paper & Paperboard	897	1,172	935	835	691	784	933
Textile Yarn & Thread	343	318	286	293	213	197	236
Woven Textile Fabrics	2,274	1,914	1,648	1,479	1,028	1,099	1,284
Iron & Steel Plates, Sheets, Bars Shapes, etc	1,717	2,620	2,331	2,608	1,895	1,608	1,676
Iron & Steel Pipes & Fittings	914	837	996	1,156	1,053	736	763
Generators	5,605	8,879	8,630	8,864	8,665	9,455	10,915
Industrial Machinery	2,744	3,796	4,661	4,798	4,407	4,370	4,982
Telecommunications Apparatus	6,535	11,421	10,152	10,461	8,072	8,906	10,908
Office Machines	7,861	18,666	21,594	24,750	22,416	24,382	28,805
Motor Vehicles	2,693	3,782	3,589	3,587	2,438	2,840	4,424
Ships, Boats & Oil Rigs	1,662	2,350	3,622	3,294	3,038	2,512	1,198
Clothing	1,656	2,330	2,442	2,682	2,355	2,797	3,249
Scientific & Optical Instruments	2,996	5,359	5,563	6,461	5,544	7,082	8,633
Watches & Clocks	1,171	1,452	1,545	1,650	1,391	1,316	1,340
Toys & Games	435	666	694	648	406	624	773

Source : Trade Development Board

14.10

EXPORTS OF SPECIFIC COMMODITIES

Million Dollars

Commodity	1990	1995	1996	1997	1998	1999	2000
Spices	249	312	269	444	516	537	501
Coffee	127	400	194	222	177	151	168
Animal Feed	76	112	91	86	71	79	84
Crude Rubber	1,405	949	744	531	406	371	360
Sawn Timber	450	231	191	212	167	166	167
Petroleum Products	14,371	11,239	13,575	12,720	10,438	11,643	17,054
Fixed Vegetable Oils	349	280	353	369	346	337	244
Medicinal Products	378	852	869	916	990	1,995	1,745
Manufactured Fertilizers	52	19	21	23	21	25	10
Crude Vegetable Materials	283	270	262	242	220	203	204
Wood Products excluding Furniture	486	316	269	278	252	206	204
Textile Yarn & Thread	278	379	350	354	291	358	423
Woven Textile Fabrics	1,135	1,406	1,214	1,133	869	798	857
Iron & Steel Plates, Sheets, Bars Shapes, etc	428	756	629	628	416	451	484
Iron & Steel Pipes & Fittings	300	350	435	513	444	326	386
Generators	2,811	5,795	5,727	5,984	6,001	6,878	8,195
Office Machines	16,620	41,024	46,637	50,680	51,303	51,325	53,709
Industrial Machinery	1,487	2,652	2,831	2,916	3,034	2,754	3,317
Telecommunications Apparatus	9,471	15,163	14,117	13,062	11,199	11,175	13,179
Household Equipment	588	658	665	691	658	606	629
Motor Vehicles	956	1,647	1,754	1,883	1,461	1,407	1,534
Ships, Boats & Oil Rigs	687	922	945	939	1,519	817	1,237
Furniture	343	295	272	257	171	143	174
Clothing	2,867	2,075	1,972	2,215	2,387	2,716	3,150
Scientific & Optical Instruments	1,953	3,704	3,758	4,165	4,570	5,256	6,195
Watches & Clocks	509	1,156	1,388	1,510	1,218	1,027	1,054
Printed Matters	549	863	839	844	815	920	1,010

Source : Trade Development Board

	1997	1998	1999	2000	2001
15.1 Vessels Entered and Cleared	127,741	127,741	127,741	127,741	127,741
15.2 Data on the movement of vessels and cargo handled by all merchant ships entering or leaving Singapore waters. The data are given in terms of number and gross registered tonnage.	127,741	127,741	127,741	127,741	127,741
15.3 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.	127,741	127,741	127,741	127,741	127,741
15.4 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's stores and mineral oil supplied as bunker fuel to vessels.	127,741	127,741	127,741	127,741	127,741

TRANSPORT

AND

COMMUNICATIONS

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, and compiles and collates statistics on passenger, aircraft, air mail and aircraft traffic passing through Changi Airport and Seletar Aerodrome. Data on passenger arrivals and departures are obtained from manifests submitted by airlines through 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, aircraft landings and mail carried through Singapore MRT Ltd is the operator of the MRT system in Singapore. It provides passenger service along high-density travel corridors in Singapore to satisfy the needs of the travelling public. Since operation has been ordered to a route length of 85 km and a total of 49 stations. Today, over a million passenger trips are made on the MRT daily.

	1997	1998	1999	2000	2001
15.5 Vehicles Registered	127,741	127,741	127,741	127,741	127,741
15.6 Singapore must be registered with the Vehicle and Transport Licensing Division of the Land Transport Authority.	127,741	127,741	127,741	127,741	127,741
15.7 Data on road casualties are compiled from reports made to the police on all traffic accidents occurring on roads.	127,741	127,741	127,741	127,741	127,741

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 manifests submitted by airlines through 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, aircraft landings and mail carried through

Changi Airport and Seletar Aerodrome 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)

Singapore MRT Ltd is the operator of the MRT system in Singapore. It provides passenger service along major high-density travel corridors in Singapore to satisfy the needs of the travelling public. Since operation in 1987, the MRT system has been extended to a route length of 85 km and a total of 49 stations. Today, over a million passenger trips are made on the MRT daily.

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.

15.1 SEA CARGO AND SHIPPING STATISTICS

	1990	1995	1996	1997	1998	1999	2000
Vessel Arrivals (No)	60,347	104,014	117,723	130,333	140,922	141,523	145,383
Shipping Tonnage ('000 GT)	491,200	710,573	768,521	808,305	857,655	877,127	910,160
Total Cargo ('000 tonnes)	187,789	305,484	314,164	327,507	312,322	325,902	325,592
General	94,388	169,745	175,083	185,559	172,968	188,553	199,577
Bulk	93,401	135,739	139,081	141,948	139,354	137,349	126,014
Total Container Throughput ('000 TEUs)	5,223	11,846	12,944	14,136	15,136	15,945	17,087
Bunker Sales ('000 tonnes)	-	17,489	16,938	16,941	18,064	18,891	18,651
Singapore Ship Registry (End of Period)							
Number	1,565	2,910	3,157	3,380	3,412	3,360	3,335
'000 GT	8,872	14,964	18,239	20,774	22,025	23,748	23,043

Source : Maritime and Port Authority of Singapore

Notes : GT = Gross Tonnes

TEU = Twenty-Foot Equivalent Unit

15.2 CIVIL AIRCRAFT LANDINGS, PASSENGERS AND PARCEL MAIL

	1990	1995	1996	1997	1998	1999	2000
Aircraft Landings (No)	48,803	78,134	83,345	86,276	82,590	82,970	86,853
Passengers ('000)							
Arriving	7,237	10,920	11,587	11,916	11,292	12,276	13,546
Departing	7,166	10,823	11,542	11,883	11,231	12,213	13,419
In Transit	1,217	1,453	1,384	1,375	1,281	1,575	1,654
Parcel Mail (Tonnes)							
In-coming	4,159	9,521	10,572	10,813	10,580	10,886	10,847
Out-going	4,535	9,543	10,380	10,977	11,354	11,695	12,074

Source : Civil Aviation Authority of Singapore

Note : Figures refer to Changi Airport only.

15.3

AIR CARGO DISCHARGED BY REGION AND SELECTED
COUNTRY OF ORIGIN

							Tonnes
Region/Country	1990	1995	1996	1997	1998	1999	2000
Total	324,157	577,749	622,019	696,778	651,568	756,771	848,269
South East Asia	97,686	136,795	154,068	168,936	167,875	184,006	197,822
Malaysia	19,373	23,409	21,882	26,945	28,675	32,614	38,203
Philippines	3,730	8,251	11,772	16,500	22,837	25,433	25,851
Thailand	24,780	44,934	47,096	51,049	41,902	47,463	47,136
North East Asia	104,614	183,040	196,745	229,292	216,981	255,523	290,615
Hong Kong	18,992	39,403	40,720	46,764	40,311	51,346	58,804
Japan	44,564	58,314	58,375	71,259	63,021	69,237	81,531
Taiwan	22,702	46,510	50,715	54,607	54,880	65,272	75,405
South Asia	19,399	32,480	37,666	38,684	34,772	42,037	49,595
India	12,268	20,256	24,305	22,394	20,976	27,995	32,589
West Asia	2,850	9,608	8,259	9,869	8,362	9,893	14,535
Oceania	35,390	67,523	69,155	72,437	74,365	96,508	105,235
Australia	32,637	59,067	61,271	64,314	64,412	83,178	91,946
New Zealand	2,420	8,018	7,570	7,808	9,659	12,925	13,066
Europe	49,637	96,429	102,118	116,040	109,179	124,438	147,601
France	2,847	6,626	8,355	14,455	14,269	18,077	20,379
Germany ¹	4,862	11,808	12,297	15,413	18,243	18,282	22,386
Netherlands	8,544	18,209	20,255	16,824	15,893	18,310	26,588
Scandinavia	6,004	9,921	10,471	12,335	13,012	14,424	17,305
Switzerland	3,161	11,966	10,380	14,549	11,393	8,762	7,339
United Kingdom	10,662	13,545	15,454	16,295	17,420	20,376	22,866
North America	13,542	47,944	49,779	57,087	35,994	40,437	38,937
USA	12,354	46,257	48,667	56,275	35,451	40,071	38,519
Other Regions	1,036	3,930	4,229	4,433	4,040	3,929	3,929

Source : Civil Aviation Authority of Singapore

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

¹ Data prior to 1991 referred to Federal Republic of Germany only.

15.4

AIR CARGO LOADED BY REGION AND SELECTED
COUNTRY OF DESTINATION

Region/Country		Tonnes						
		1990	1995	1996	1997	1998	1999	2000
Total		299,684	528,024	568,438	639,570	632,093	743,622	834,220
South East Asia		77,935	126,481	144,984	145,204	113,078	132,550	157,223
Malaysia		20,396	31,272	33,002	31,264	25,842	28,660	38,504
Philippines		6,066	12,791	19,043	24,790	25,983	27,239	26,915
Thailand		20,293	36,446	37,207	38,125	30,661	36,866	40,053
North East Asia		90,310	197,688	206,249	233,576	231,638	279,717	325,651
Hong Kong		24,181	45,106	47,708	56,109	54,633	56,713	65,607
Japan		41,121	74,741	77,706	83,056	79,113	94,971	109,307
Taiwan		8,178	36,626	35,251	45,671	45,968	59,821	68,225
South Asia		13,550	25,979	28,861	31,856	38,561	42,731	45,575
India		7,550	15,855	19,069	20,815	24,694	26,523	30,086
West Asia		7,328	11,264	11,527	13,632	16,838	20,671	26,067
Oceania		25,877	43,573	45,662	54,815	58,958	69,151	67,763
Australia		20,486	35,423	37,636	46,006	49,730	55,978	56,409
New Zealand		4,335	7,226	7,167	7,784	8,561	11,546	10,783
Europe		61,310	82,938	85,833	101,670	114,016	131,619	138,378
France		2,999	4,928	6,195	11,933	15,680	20,149	22,410
Germany ¹		5,856	10,106	11,525	14,230	19,874	22,137	22,610
Netherlands		10,475	14,766	15,496	15,127	16,072	19,141	20,692
Scandinavia		3,843	4,897	5,537	6,241	6,496	6,949	7,781
Switzerland		3,014	8,289	7,896	8,843	8,213	5,299	4,112
United Kingdom		12,923	12,927	16,095	17,346	20,159	25,913	28,084
North America		19,797	35,620	39,667	52,477	52,418	60,518	66,748
USA		18,323	34,408	39,140	51,896	51,529	59,432	65,625
Other Regions		3,578	4,481	5,655	6,340	6,586	6,665	6,815

Source : Civil Aviation Authority of Singapore

Note : See notes to Table 15.3.

15.5 AIR PASSENGER ARRIVALS BY REGION AND SELECTED COUNTRY OF EMBARKATION

Region/Country								Thousand
	1990	1995	1996	1997	1998	1999	2000	
Total	7,237	10,920	11,587	11,916	11,292	12,276	13,546	
South East Asia	3,425	4,944	5,211	5,235	4,602	4,907	5,274	
Brunei	113	133	140	139	132	120	120	
Indonesia	862	1,400	1,583	1,610	1,181	1,346	1,467	
Malaysia	1,439	1,944	1,854	1,820	1,601	1,545	1,677	
Philippines	155	207	279	326	306	347	370	
Thailand	849	1,074	1,134	1,121	1,182	1,316	1,384	
Vietnam	na	119	127	130	131	154	170	
Cambodia	na	na	44	36	30	38	41	
Myanmar	2	39	45	49	37	41	45	
Laos	na	na	na	6	1	-	-	
North East Asia	1,615	2,761	2,956	2,947	2,745	2,989	3,352	
Hong Kong	557	795	887	816	793	826	974	
Japan	759	1,049	1,104	1,086	930	1,008	1,073	
Taiwan	195	467	445	456	436	419	412	
South Asia	394	602	644	755	768	851	961	
India	244	348	383	458	475	546	642	
Pakistan	23	40	43	44	42	42	46	
Sri Lanka	74	100	96	107	109	123	123	
West Asia	56	126	128	133	143	156	169	
Oceania	773	1,056	1,087	1,172	1,300	1,489	1,712	
Australia	656	908	933	1,010	1,113	1,269	1,475	
New Zealand	97	134	142	150	176	208	225	
Europe	782	1,075	1,172	1,259	1,330	1,454	1,591	
France	42	74	84	109	120	145	144	
Germany ¹	103	197	223	228	270	293	303	
Netherlands	85	117	119	116	117	121	132	
Scandinavia	40	46	50	58	64	59	75	
Switzerland	51	89	112	113	102	104	111	
United Kingdom	289	384	426	472	504	578	659	
North America	139	241	264	287	276	282	327	
USA	120	220	247	269	255	260	307	
Other Regions	53	115	125	127	129	148	160	

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.

¹ Data prior to 1991 referred to Federal Republic of Germany only.

15.6

AIR PASSENGER DEPARTURES BY REGION AND SELECTED
COUNTRY OF DISEMBARKATION

Region/Country	1990	1995	1996	1997	1998	1999	Thousand 2000
Total	7,166	10,823	11,542	11,883	11,231	12,213	13,419
South East Asia	3,302	4,825	5,113	5,153	4,397	4,716	5,077
Brunei	113	132	144	139	125	116	117
Indonesia	893	1,467	1,618	1,678	1,207	1,378	1,493
Malaysia	1,321	1,780	1,743	1,723	1,457	1,451	1,579
Philippines	136	215	278	319	316	352	376
Thailand	831	1,053	1,108	1,079	1,095	1,197	1,262
Vietnam	na	119	132	132	130	147	167
Cambodia	na	na	42	36	28	35	39
Myanmar	2	30	44	44	38	40	44
Laos	na	na	na	6	1	-	-
North East Asia	1,603	2,779	2,960	2,962	2,792	3,003	3,354
Hong Kong	531	797	881	782	824	845	944
Japan	778	1,059	1,101	1,103	957	1,020	1,063
Taiwan	187	491	474	508	462	433	460
South Asia	378	553	602	697	765	827	937
India	233	323	359	419	457	524	617
Pakistan	23	40	41	38	34	36	40
Sri Lanka	69	93	92	101	112	122	129
West Asia	59	113	118	120	142	151	154
Oceania	843	1,135	1,164	1,240	1,376	1,573	1,765
Australia	722	979	999	1,072	1,183	1,342	1,524
New Zealand	102	143	153	156	182	220	230
Europe	780	1,048	1,151	1,259	1,321	1,462	1,599
France	41	73	82	111	123	150	148
Germany ¹	103	189	221	229	270	298	305
Netherlands	74	110	114	117	123	127	132
Scandinavia	44	47	53	61	68	70	92
Switzerland	55	94	116	120	106	108	116
United Kingdom	274	372	409	447	473	549	629
North America	150	256	308	327	308	332	373
USA	126	235	290	307	285	306	349
Other Regions	52	115	126	126	130	150	160

Source : Civil Aviation Authority of Singapore

Note : See notes to Table 15.5.

15.7 PUBLIC ROADS

(End of Period)

	Kilometres						
	1990	1995	1996	1997	1998	1999	2000
Paved Roads	2,798	2,972	2,988	3,017	3,038	3,066	3,100
Expressways	104	132	139	148	150	150	150
Major Arterial Roads	529	567	566	559	560	569	571
Collector Roads	260	326	330	340	345	358	375
Local Roads Improved	1,905	1,947	1,953	1,970	1,983	1,989	2,004

Source : Land Transport Authority (with effect from 1995)

15.8 MOTOR VEHICLE POPULATION

(End of Period)

	Number						
	1990	1995	1996	1997	1998	1999	2000
Total	542,352	642,129	668,304	683,204	681,081	688,811	692,807
Cars ¹	271,174	342,245	362,142	373,345	370,804	378,024	386,780
Rental Cars	3,343	5,144	5,451	6,152	6,536	7,112	8,438
Taxis	12,239	16,517	16,857	16,933	17,886	18,029	18,327
Buses	9,448	10,723	10,998	11,240	11,429	11,827	12,569
Motor Cycles & Scooters	122,525	129,587	132,344	132,629	133,375	134,346	131,937
Goods & Other Vehicles	123,623	137,913	140,512	142,905	141,051	139,473	134,756

Source : Land Transport Authority

¹ Include private and company cars.

15.9 CAR POPULATION BY CC RATING

(End of Period)

CC Rating	Number						
	1990	1995	1996	1997	1998	1999	2000
Total	272,475	345,432	365,558	377,365	375,217	382,941	392,961
1,000 cc & below	42,000	48,558	51,094	53,094	52,183	48,552	35,724
1,001 to 1,600 cc	178,933	205,563	214,814	217,830	214,321	220,274	232,638
1,601 to 2,000 cc	39,948	67,726	73,018	77,343	78,775	81,333	87,262
2,001 to 3,000 cc	10,291	18,515	20,815	22,856	23,816	26,660	30,961
3,001 cc & above	1,303	5,070	5,817	6,242	6,122	6,122	6,376

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.

15.10 AGE DISTRIBUTION OF CARS

(End of Period)

Age (Years)	Number						
	1990	1995	1996	1997	1998	1999	2000
Total	272,475	345,432	365,558	377,365	375,217	382,941	392,961
Below 1	31,905	32,701	28,785	25,064	27,898	38,474	58,097
1 - below 2	35,427	33,975	32,672	28,774	24,976	27,883	38,441
2 - below 3	26,475	39,591	33,859	32,594	28,683	24,844	27,856
3 - below 4	12,661	29,531	39,558	33,682	31,984	28,569	24,160
4 - below 5	8,221	28,722	29,471	39,518	32,575	31,136	28,211
5 - below 6	13,516	31,874	28,695	29,390	39,294	31,031	29,790
6 - below 7	22,107	35,317	31,734	28,623	29,100	38,988	29,543
7 - below 8	29,784	25,637	34,432	31,110	28,003	28,570	38,186
8 - below 9	29,451	12,392	25,509	34,214	30,771	27,796	28,030
9 - below 10	16,004	7,345	11,049	23,253	29,976	26,914	25,588
10 - below 11	12,187	2,289	2,256	2,343	2,638	8,653	8,378
11 - below 12	10,337	5,017	2,276	2,245	2,324	2,644	8,675
12 - below 13	6,449	8,375	4,976	2,263	2,232	2,307	2,634
13 - below 14	4,445	11,545	8,283	4,924	2,218	2,213	2,287
14 - below 15	1,617	6,910	11,460	8,060	4,637	2,097	2,151
15 & above	11,889	34,211	40,543	51,308	57,908	60,822	40,934

Source : Land Transport Authority

Note : See notes to Table 15.9.

15.11 ROAD CASUALTIES

	1990	1995	1996	1997	1998	1999	2000	Persons
Total ¹								
Killed	236	225	225	257	222	196	215	
Injured	6,667	6,727	7,628	7,341	7,412	8,915	9,599	
Pedestrians								
Killed	88	63	70	78	67	53	60	
Injured	1,039	831	862	839	804	852	870	
Pedal Cyclists, Trishaw Riders & Passengers								
Killed	16	7	15	16	15	18	15	
Injured	249	239	262	262	252	329	319	
Motor Cyclists & Pillion Riders								
Killed	89	117	94	111	87	85	99	
Injured	3,114	3,538	3,825	3,703	3,641	4,382	5,031	
Motor Vehicle Drivers & Passengers ²								
Killed	42	38	39	47	52	40	39	
Injured	2,198	2,050	2,440	2,370	2,674	3,323	3,336	

Source : Traffic Police Department

1 Include other categories of road users not shown in table.

2 Figures refer to drivers and passengers of motor cars, buses, light goods and heavy goods vehicles only.

15.12 VEHICLES INVOLVED IN ROAD ACCIDENTS BY TYPE OF VEHICLE

	1990	1995	1996	1997	1998	1999	2000	Number
Total	8,967	8,867	9,816	9,652	9,781	11,548	12,551	
Pedal Cycles	280	252	280	283	267	345	338	
Motor Cycles & Scooters	2,969	3,187	3,440	3,374	3,351	3,976	4,540	
Motor Cars & Station Wagons	3,615	3,449	3,941	3,992	4,103	4,905	5,252	
Light Goods Vehicles	729	567	670	634	608	686	699	
Heavy Goods Vehicles ¹	715	872	952	916	967	1,109	1,137	
Buses	508	454	425	380	403	448	492	
Others	151	86	108	73	82	79	93	

Source : Traffic Police Department

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

1 Cover lorries, tippers/trucks and trailers only.

15.13 MASS RAPID TRANSIT OPERATION AND RIDERSHIP

	1990	1995	1996	1997	1998	1999	2000
Total Train Km Operated ('000)	8,670	9,172	11,746	12,212	12,238	12,276	12,506
Total Number of Passengers ('000)	196,387	271,279	312,429	334,016	346,543	361,318	383,354
Average Number of Weekday Passengers (No)	534,800	765,300	877,000	945,400	988,100	1,028,300	1,092,000
Average Weekday Traffic of Selected Stations (No)							
Orchard Station	64,815	85,100	87,800	91,300	88,500	87,600	92,850
Raffles Place Station	58,349	100,400	105,700	108,600	104,600	103,300	111,550
City Hall Station	76,234	81,600	88,100	94,100	94,800	93,200	100,420
Ang Mo Kio	62,568	74,100	83,900	89,400	90,400	90,400	93,940
Tanjong Pagar	44,695	67,500	70,400	71,000	70,800	69,500	71,980

Source : Singapore MRT Ltd

15.14 POSTAL ARTICLES HANDLED AND TELECOMMUNICATIONS

	1990	1995	1996	1997	1998	1999	2000
Postal Articles Handled (million)	870	1,245	1,344	1,454	1,476	1,487	1,525
Subscribers ('000)							
Telephone ¹	1,040	1,400	1,531	1,656	1,751	1,851	1,936
Mobile Phone ¹	46	292	404	743	1,020	1,471	2,442
Pager ^{1,2}	268	925	1,032	1,314	1,309	1,200	839
Dial-up Internet ¹	na	25	129	267	394	583	1,940
International Telephone Call Minutes ³ (million)	240	550	579	697	791	859	1,048
Telephone Lines Installed ¹ ('000)	1,040	1,400	1,531	1,656	1,751	1,851	1,936
Residential	648	858	928	995	1,069	1,117	1,152
Corporate	392	542	603	661	682	733	784

Source : Singapore Post

Infocomm Development Authority of Singapore

¹ As at end of period.² Figures prior to 1992 are as at March of period.³ Exclude calls to Malaysia. Figures prior to 1996 refer to financial year.

From 1998, figures include Real-Time Fax and Budgetcall Services.

16.1

VISITOR ARRIVALS BY REGION AND SELECTED COUNTRY OF RESIDENCE

16 TOURISM

Region/Country	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Visitor Arrivals	5,169,438	5,242,717	5,292,717	5,367,717	5,438,717	5,509,717	5,580,717	5,651,717	5,722,717	5,793,717	5,864,717
from Asia	3,814,717	3,885,717	3,956,717	4,027,717	4,098,717	4,169,717	4,240,717	4,311,717	4,382,717	4,453,717	4,524,717
from Europe	1,114,717	1,185,717	1,256,717	1,327,717	1,398,717	1,469,717	1,540,717	1,611,717	1,682,717	1,753,717	1,824,717
from North America	1,114,717	1,185,717	1,256,717	1,327,717	1,398,717	1,469,717	1,540,717	1,611,717	1,682,717	1,753,717	1,824,717
from Oceania	1,114,717	1,185,717	1,256,717	1,327,717	1,398,717	1,469,717	1,540,717	1,611,717	1,682,717	1,753,717	1,824,717
from Africa	1,114,717	1,185,717	1,256,717	1,327,717	1,398,717	1,469,717	1,540,717	1,611,717	1,682,717	1,753,717	1,824,717
from Latin America	1,114,717	1,185,717	1,256,717	1,327,717	1,398,717	1,469,717	1,540,717	1,611,717	1,682,717	1,753,717	1,824,717
from Middle East	1,114,717	1,185,717	1,256,717	1,327,717	1,398,717	1,469,717	1,540,717	1,611,717	1,682,717	1,753,717	1,824,717
from Other	1,114,717	1,185,717	1,256,717	1,327,717	1,398,717	1,469,717	1,540,717	1,611,717	1,682,717	1,753,717	1,824,717
from Japan	1,114,717	1,185,717	1,256,717	1,327,717	1,398,717	1,469,717	1,540,717	1,611,717	1,682,717	1,753,717	1,824,717
from Korea	1,114,717	1,185,717	1,256,717	1,327,717	1,398,717	1,469,717	1,540,717	1,611,717	1,682,717	1,753,717	1,824,717
from Taiwan	1,114,717	1,185,717	1,256,717	1,327,717	1,398,717	1,469,717	1,540,717	1,611,717	1,682,717	1,753,717	1,824,717
from Hong Kong	1,114,717	1,185,717	1,256,717	1,327,717	1,398,717	1,469,717	1,540,717	1,611,717	1,682,717	1,753,717	1,824,717
from Macao	1,114,717	1,185,717	1,256,717	1,327,717	1,398,717	1,469,717	1,540,717	1,611,717	1,682,717	1,753,717	1,824,717
from Thailand	1,114,717	1,185,717	1,256,717	1,327,717	1,398,717	1,469,717	1,540,717	1,611,717	1,682,717	1,753,717	1,824,717
from Philippines	1,114,717	1,185,717	1,256,717	1,327,717	1,398,717	1,469,717	1,540,717	1,611,717	1,682,717	1,753,717	1,824,717
from Malaysia	1,114,717	1,185,717	1,256,717	1,327,717	1,398,717	1,469,717	1,540,717	1,611,717	1,682,717	1,753,717	1,824,717
from Indonesia	1,114,717	1,185,717	1,256,717	1,327,717	1,398,717	1,469,717	1,540,717	1,611,717	1,682,717	1,753,717	1,824,717
from Brunei	1,114,717	1,185,717	1,256,717	1,327,717	1,398,717	1,469,717	1,540,717	1,611,717	1,682,717	1,753,717	1,824,717
from Singapore	1,114,717	1,185,717	1,256,717	1,327,717	1,398,717	1,469,717	1,540,717	1,611,717	1,682,717	1,753,717	1,824,717
from Other	1,114,717	1,185,717	1,256,717	1,327,717	1,398,717	1,469,717	1,540,717	1,611,717	1,682,717	1,753,717	1,824,717

TOURISM

Source: Singapore Tourism Board

Note: Data for 1999 is preliminary.

1. This table shows the number of visitors arriving in Singapore by region and country of residence. The data is based on the information provided by the visitors at the time of their arrival. The data is not necessarily accurate and should be used with caution.
2. The data for 1999 is preliminary.
3. The data for 1999 is preliminary.
4. The data for 1999 is preliminary.

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" 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 by dividing the sum of the total expenditures of those who indicated the total amount spent in Singapore by the product of the party-size and 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.

16.1 VISITOR ARRIVALS BY REGION AND SELECTED COUNTRY OF RESIDENCE

Region/Country	Thousand						
	1990	1995	1996	1997	1998	1999	2000
Total	5,322.9	7,136.5	7,292.4	7,197.9	6,242.2	6,958.2	7,691.3
Americas	337.1	425.7	459.5	460.4	425.4	444.3	483.0
Canada	61.1	61.9	65.6	62.5	64.3	72.5	71.4
USA	261.4	345.5	374.0	376.4	342.6	351.5	385.6
Asia	3,418.1	5,231.2	5,319.3	5,201.2	4,223.8	4,797.3	5,320.7
ASEAN ¹	1,442.9	2,189.7	2,256.1	2,327.2	1,880.4	2,221.4	2,427.6
Hong Kong SAR	194.1	279.8	288.5	264.8	273.1	260.0	286.0
India	216.5	188.5	204.2	226.6	243.7	288.4	346.4
Japan	971.6	1,178.9	1,171.9	1,094.0	843.7	860.7	929.9
South Korea	108.4	351.0	384.5	298.4	99.3	242.2	354.4
Pakistan	33.2	51.1	45.9	40.8	34.9	36.3	42.5
Saudi Arabia	16.9	18.7	16.9	15.0	20.3	23.1	24.8
Sri Lanka	47.8	48.8	46.4	47.1	53.1	60.1	63.2
Taiwan	224.8	563.3	528.4	499.8	362.4	317.5	290.8
Europe	950.4	965.8	1,002.7	987.5	982.7	1,050.0	1,127.9
Austria	23.2	21.6	23.0	18.9	17.6	16.7	16.0
Belgium & Luxembourg	17.9	18.9	20.2	22.0	20.2	20.0	23.9
France	73.1	74.6	76.7	73.6	75.7	74.0	74.8
Greece	18.3	14.5	13.9	13.0	13.5	13.3	13.2
Italy	56.3	46.9	41.9	41.4	40.8	43.8	42.2
Netherlands	73.8	70.6	66.1	63.2	60.1	64.7	77.3
Scandinavia ²	82.6	80.3	86.9	89.2	82.6	84.4	91.6
Switzerland	60.4	54.3	60.7	53.0	48.3	47.8	48.3
United Kingdom	296.6	288.7	312.5	333.2	357.9	401.5	445.0
Germany ³	141.1	190.2	190.6	169.5	159.2	167.9	169.4
CIS ⁴ & Eastern Europe	49.2	46.9	48.4	46.8	42.0	42.8	47.1
Oceania	550.7	426.6	431.0	462.8	519.8	564.5	616.6
Australia	456.6	346.8	351.6	381.5	427.2	466.1	510.3
New Zealand	72.7	66.2	67.7	70.4	81.6	86.7	94.3
Others	66.6	87.2	79.9	85.9	90.5	102.1	143.2
Africa	56.2	86.9	79.6	70.6	79.1	90.2	99.5

Source : Singapore Tourism Board

Note : Exclude arrivals of Malaysians by land.

With effect from the 1999 edition, 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 may have been revised.

1 ASEAN refers to the ten-country political association comprising Brunei, 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 Data prior to 1991 referred to Federal Republic of Germany only.

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

16.2 VISITOR ARRIVALS BY (a) SEX AND (b) AGE GROUP

									Thousand
			1990	1995	1996	1997	1998	1999	2000
Total			5,322.9	7,136.5	7,292.4	7,197.9	6,242.2	6,958.2	7,691.3
Sex									
Males			3,313.9	4,360.9	4,434.1	4,540.6	3,931.8	4,273.6	4,725.1
Females			2,009.0	2,775.7	2,858.3	2,657.3	2,310.4	2,684.6	2,966.2
Age Group (Years)									
Under 15			338.2	466.0	469.9	485.1	442.4	504.4	547.7
15 - 19			141.8	193.4	195.1	202.7	187.2	222.4	244.5
20 - 24			466.0	567.6	537.1	516.5	441.1	478.2	532.3
25 - 34			1,412.3	1,817.6	1,818.4	1,808.3	1,573.2	1,717.3	1,920.1
35 - 44			1,274.7	1,663.3	1,711.7	1,674.6	1,458.3	1,600.0	1,774.0
45 - 54			892.8	1,317.2	1,376.7	1,343.2	1,157.8	1,280.9	1,418.4
55 - 64			519.7	742.3	788.2	755.6	637.2	738.4	802.9
65 & Over			250.8	348.5	374.0	364.1	312.3	384.8	416.3
Not Stated			26.6	20.6	21.3	47.8	32.7	31.8	35.2

Source : Singapore Tourism Board

Note : Exclude arrivals of Malaysians by land.

With effect from the 1999 edition, 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 may have been revised.

16.3 VISITOR ARRIVALS BY (a) PURPOSE OF VISIT AND (b) TYPE OF ACCOMMODATION

Thousand

	1990	1995	1996	1997	1998	1999	2000
Total	5,322.9	7,136.5	7,292.4	7,197.9	6,242.2	6,958.2	7,691.3
Purpose of Visit							
Holiday	3,312.4	3,965.2	3,880.1	3,442.2	2,828.7	3,411.2	3,701.6
Business	691.5	1,010.7	1,063.1	1,156.0	1,029.8	1,115.2	1,263.3
Business & Pleasure	214.3	212.4	212.2	208.5	172.4	182.4	193.7
Others	623.4	1,233.9	1,452.3	1,724.3	1,600.7	1,549.2	1,759.2
In Transit	481.2	714.4	684.7	667.0	610.7	700.3	773.6
Type of Accommodation							
Hotel	4,010.2	5,120.8	5,100.0	4,553.0	3,683.6	4,372.5	4,794.8
Residence of Friends/Relatives	609.5	766.6	764.6	766.0	708.2	812.6	880.8
Others	426.3	806.6	936.4	1,367.1	1,372.2	1,237.8	1,408.0
No Accommodation Required	276.8	442.5	491.3	511.8	478.1	535.4	607.6

Source : Singapore Tourism Board

Note : Exclude arrivals of Malaysians by land.

With effect from the 1999 edition, 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 may have been revised.

16.4 VISITOR ARRIVALS BY LENGTH OF STAY

							Thousand
Length of Stay (Days)	1990	1995	1996	1997	1998	1999	2000
Total	5,207.4	6,901.6	7,073.0	6,922.9	5,959.5	6,702.1	7,480.9
Under 1	580.8	1,090.6	1,243.5	1,303.7	1,119.6	1,354.4	1,629.3
1	1,079.3	1,714.4	1,825.2	1,778.7	1,507.7	1,723.3	1,893.0
2	1,213.8	1,561.0	1,526.7	1,397.6	1,156.0	1,290.5	1,391.7
3	905.3	1,005.1	1,003.6	975.4	839.2	918.6	997.8
4 - 7	946.2	969.7	959.5	949.1	838.1	916.5	1,015.1
8 - 14	324.6	319.1	316.9	320.6	309.7	316.6	351.0
15 - 29	96.7	125.4	123.1	130.4	124.5	124.9	134.8
30 - 59	40.4	54.5	41.0	40.0	39.6	39.3	45.1
60 & Over	20.3	61.9	33.5	27.5	25.1	18.0	23.1
Average Length of Stay (Days)	3.8	3.7	3.3	3.3	3.4	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.

With effect from the 1999 edition, 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 may have been revised.

16.5 AVERAGE EXPENDITURE PER VISITOR PER DAY BY COUNTRY OF RESIDENCE

							Dollars
Country	1989	1994	1995	1996	1997	1998	1999
Total	299	216	221	220	206	206	203
ASEAN	292	241	277	255	249	193	190
Australia	278	170	194	184	201	200	185
Canada	291	158	131	147	138	191	157
China	na	138	146	165	133	214	237
France	365	165	164	187	245	199	202
Germany	235	177	155	163	170	152	143
Hong Kong SAR	192	153	154	160	171	162	155
India	307	235	231	216	207	271	332
Italy	282	209	215	226	220	172	125
Japan	358	236	229	221	197	225	234
Netherlands	204	170	143	153	138	163	128
New Zealand	238	180	227	216	193	275	264
South Africa	na	320	358	312	284	196	229
South Korea	282	183	160	307	154	171	173
Switzerland	245	185	213	193	158	185	142
Taiwan	363	256	195	203	152	171	174
United Kingdom	237	141	174	148	162	180	180
USA	298	194	163	181	195	220	183

Source : Singapore Tourism Board

16.6 OUTBOUND DEPARTURES OF SINGAPORE RESIDENTS BY MODE OF TRANSPORT

	Number					
	1995	1996	1997	1998	1999	2000
Total	2,867,242	3,304,714	3,671,149	3,744,944	3,971,180	4,443,542
Air	1,979,378	2,204,125	2,391,808	2,197,759	2,315,637	2,563,346
Sea	887,864	1,100,589	1,279,341	1,547,185	1,655,543	1,880,196

Source : Singapore Immigration & Registration

16.7 HOTELS AND CESS COLLECTION

	1990	1995	1996	1997	1998	1999	2000
Tourist Hotels ¹							
Number (At End Year)	65	81	90	94	101	99	103
Number of Rooms Available	22,408	26,322	27,604	27,313	27,412	27,542	28,212
Average Occupancy Rate (%)	84.0	84.0	82.3	79.4	71.3	74.9	83.4
Cess Collected ² (\$ ' 000)	38,607.4	11,896.0	12,493.2	12,515.3	10,342.5	10,044.2	11,774.1
Cess on Food & Beverages ² (\$ ' 000)	51,210.0	17,332.0	17,381.8	17,556.2	15,809.8	16,034.0	17,413.5

Source : Singapore Tourism Board

1 Refer to gazetted hotels.

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

16.8 CONVENTIONS, EXHIBITIONS AND INCENTIVE GROUPS

								Number

Source : Singapore Tourism Board

FINANCE

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) and quasi money supply (M3) and quasi money. The latter includes fixed deposits 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.

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 Monetary Authority of Singapore and the Board of

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. The MAS conducts monetary and exchange rate policies appropriate for sustained and non-inflationary economic growth in Singapore. It administers the various banking, money and banking and foreign exchange policies for the development of a sound financial market and an orderly financial system.

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 2000, there was a total of 182 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 143). The MAS is responsible for supervising and developing the insurance industry in Singapore.

Insurance business in Singapore comprises life and general insurance. The general insurance business covers a wide range

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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 2000, there was a total of 185 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). The MAS is responsible for supervising and developing the insurance industry in Singapore.

Insurance business in Singapore comprises life and general insurance. The general insurance business covers a wide range

of risks such as fire, marine and aviation, motor, workmen's compensation, public liability and personal accident. The main types of insurance plans offered by life insurers are whole life insurance, endowment insurance, term insurance and annuity contracts.

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.

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 Monetary Authority of Singapore and the Board of

Commissioners of Currency, Singapore. The data include gold and foreign exchange, Special Drawing Rights and Singapore's reserve position in the International Monetary Fund. 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.

17.1 CURRENCY IN CIRCULATION

(End of Period)

	1990	1995	1996	1997	1998	1999	2000
Gross Circulation (\$m)	7,711.8	10,756.5	11,276.2	11,732.7	11,337.9	14,209.1	13,017.0
Notes	7,222.3	10,053.9	10,520.9	10,928.1	10,515.1	13,350.8	12,130.7
Coins	489.5	702.6	755.4	804.6	822.8	858.3	886.3
Active Circulation ¹ (\$m)	7,108.5	9,906.5	10,293.1	10,703.8	10,146.2	11,315.4	11,289.2
Ratio of Active to Gross Circulation (%)	92.2	92.1	91.3	91.2	89.5	79.6	86.7

Source : Board of Commissioners of Currency, Singapore

1 Refer to gross circulation less amounts held by Government treasuries and banks as well as commemorative coins issued by the Board of Commissioners of Currency, Singapore.

17.2 MONEY SUPPLY

(End of Period)

	1990	1995	1996	1997	1998	1999	2000
Million Dollars							
Money Supply (M1)	15,260.9	25,349.2	27,040.0	27,510.9	27,239.1	31,109.1	33,261.9
Currency in Active Circulation ¹	7,108.5	9,906.5	10,293.1	10,703.8	10,146.2	11,315.4	11,289.2
Demand Deposits of Private Sector	8,152.4	15,442.7	16,746.9	16,807.1	17,092.9	19,793.7	21,972.7
Money Supply (M2)	61,845.1	101,967.3	111,950.8	123,443.4	160,783.9	174,474.4	170,897.8
M1	15,260.9	25,349.2	27,040.0	27,510.9	27,239.1	31,109.1	33,261.9
Quasi-Money	46,584.2	76,618.1	84,910.8	95,932.5	133,544.8	143,365.3	137,635.9
Fixed Deposits	35,965.9	54,908.2	59,987.0	72,704.6	81,294.6	85,988.3	83,043.8
S\$ Negotiable Cert of Deposits	1,160.3	815.1	844.5	633.5	576.5	549.0	315.3
Savings and Other Deposits	9,458.0	20,894.8	24,079.3	22,594.4	51,673.7	56,828.0	54,276.8
Money Supply (M3) ²	82,492.4	136,736.6	148,494.7	160,766.0	173,581.0	186,183.7	182,912.7
M2	61,845.1	101,967.3	111,950.8	123,443.4	160,783.9	174,474.4	170,897.8
Net Deposits with Non-bank Financial Institutions ³							
Finance Companies	7,419.4	13,273.7	13,192.0	13,969.3	12,797.1	11,709.3	12,014.9
Post Office Savings Bank	13,227.9	21,495.6	23,351.9	23,353.3	-	-	-

Source : Monetary Authority of Singapore

1 Exclude commemorative, numismatic and bullion coins issued by the Board of Commissioners of Currency, Singapore and cash held by commercial banks and other financial institutions.

2 The M3 series has been revised to include the Post Office Savings Bank's (POSBank) fixed deposits with MAS.

3 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.

17.3 MONETARY SURVEY

(End of Period)

Million Dollars

	1997	1998	1999	2000
Money Supply				
M1	27,510.9	27,239.1	31,109.1	33,261.9
Quasi Money	95,932.5	133,544.8	143,365.3	137,635.9
M2	123,443.4	160,783.9	174,474.4	170,897.8
Domestic Credit	162,300.2	181,330.8	182,452.0	197,810.4
Public Sector	18,883.4	26,477.2	32,240.4	38,969.3
Private Sector	143,416.8	154,853.6	150,211.6	158,841.1
Government Deposits	59,049.2	59,250.5	60,626.4	71,423.6
Net Foreign Position	92,836.1	115,512.0	130,949.9	126,583.3
Monetary Authorities	119,342.8	124,335.1	127,137.7	137,807.9
Banks	-26,506.7	-8,823.1	3,812.2	-11,224.6
Other Items	-72,643.7	-76,808.4	-78,301.1	-82,072.3

Source : Monetary Authority of Singapore

17.4 OFFICIAL FOREIGN RESERVES

(End of Period)

Million Dollars

	1990	1995	1996	1997	1998	1999	2000
Total Foreign Reserves	48,521.3	97,336.6	107,750.8	119,616.8	124,584.4	128,457.0	139,260.0
Special Drawing Rights	274.9	240.1	249.5	287.8	399.6	387.5	417.1
Reserve Position in the International Monetary Fund	212.5	430.3	428.8	564.3	614.5	908.5	868.0
Gold & Foreign Exchange	48,033.9	96,666.2	107,072.5	118,764.7	123,570.3	127,161.0	137,974.9
Total Foreign Reserves (million US\$)	27,813.9	68,823.2	76,975.9	71,391.7	75,028.2	77,176.0	80,361.9

Source : Monetary Authority of Singapore

17.5 EXCHANGE RATES

(Average for the Year)

Currency	1990	1995	1996	1997	1998	1999	2000
Singapore Dollar Per							
Malaysian Ringgit	0.6702	0.5651	0.5605	0.5353	0.4271	0.4460	0.4537
US Dollar	1.8125	1.4174	1.4100	1.4848	1.6736	1.6950	1.7240
Euro	na	na	na	na	na	1.8093	1.5930
Pound Sterling	3.2262	2.2369	2.2017	2.4334	2.7722	2.7427	2.6134
100 Japanese Yen	1.2548	1.5154	1.2971	1.2277	1.2823	1.4944	1.6001
100 Korean Won	0.2563	0.1838	0.1754	0.1587	0.1204	0.1426	0.1526
100 New Taiwan Dollar	6.7432	5.3382	5.1354	5.1751	5.0004	5.2544	5.5231
Hong Kong Dollar	0.2327	0.1832	0.1823	0.1918	0.2160	0.2185	0.2212
Australian Dollar	1.4157	1.0510	1.1040	1.1025	1.0518	1.0933	1.0031

Source : Monetary Authority of Singapore

17.6 ASSETS OF BANKS

(End of Period)

Million Dollars

	1990	1995	1996	1997	1998	1999	2000
Total	134,002.0	224,578.7	252,723.4	289,572.3	309,974.5	326,295.4	344,006.0
Cash	471.2	688.8	811.2	802.2	998.2	2,556.7	1,488.9
Amounts Due from Banks	55,205.7	79,837.0	86,112.6	99,935.3	106,345.0	114,900.2	124,665.5
In Singapore	18,438.4	30,926.6	33,555.1	30,220.6	38,215.6	29,458.6	42,535.9
Outside Singapore ¹	36,767.3	48,910.4	52,557.5	69,714.7	68,129.4	85,441.6	82,129.6
Balances with The Monetary Authority of Singapore	3,486.3	6,471.8	7,095.4	7,702.2	5,430.8	7,524.3	5,690.9
S\$ Negotiable Certificates of Deposit Held	296.6	104.9	198.5	212.5	175.0	162.5	149.7
Investments in Securities & Equities	12,365.7	22,299.0	24,633.3	26,405.8	35,238.0	40,260.7	45,666.7
In Singapore	12,024.1	21,169.8	23,339.4	25,078.3	33,857.5	37,595.1	41,820.0
Outside Singapore	341.6	1,129.2	1,293.9	1,327.5	1,380.5	2,665.6	3,846.7
Loans & Advances Including Bills Financing	57,696.4	108,974.0	126,987.7	143,243.8	151,640.9	147,185.5	154,042.1
Bills Discounted or Purchased	4,952.0	6,879.2	8,693.4	9,363.5	4,924.5	5,118.1	3,584.3
Payable outside Singapore	1,535.9	2,211.7	2,928.8	3,812.4	1,937.7	1,669.4	1,438.6
Payable inside Singapore	3,416.1	4,667.6	5,764.6	5,551.1	2,986.8	3,448.8	2,145.6
Loans & Advances	52,744.4	102,094.7	118,294.3	133,880.3	146,716.3	142,067.3	150,457.9
All Other Assets	4,480.9	6,203.2	6,884.7	11,270.6	10,146.6	13,705.5	12,302.3

Source : Monetary Authority of Singapore

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

1. Include Asian Currency Units.

17.7 LIABILITIES OF BANKS (End of Period)

	Million Dollars						
	1990	1995	1996	1997	1998	1999	2000
Total	134,002.0	224,578.7	252,723.4	289,572.3	309,974.5	326,295.4	344,006.0
Deposits of Non-bank Customers	63,979.7	108,885.5	118,201.5	124,143.0	162,310.3	174,454.1	171,316.4
Demand Deposits	9,169.9	17,537.8	18,862.7	18,297.4	18,427.1	21,676.0	23,650.0
Fixed Deposits	44,407.3	67,389.6	71,802.7	80,089.1	88,658.1	92,118.7	89,774.6
Savings Deposits	10,009.8	23,501.3	27,168.2	25,439.4	54,862.4	60,271.8	57,477.4
Other Deposits	392.6	456.8	368.0	317.2	362.7	387.6	414.4
S\$ Negotiable Certificates of Deposit Issued	1,457.0	920.0	1,043.0	846.0	751.5	711.5	465.0
Amounts Due to Banks	52,697.1	86,063.1	101,576.8	125,856.1	105,301.7	103,432.8	126,224.0
In Singapore	14,512.3	29,881.0	34,328.6	31,134.2	29,769.5	23,124.0	34,334.2
Outside Singapore ¹	38,184.8	56,182.1	67,248.2	94,721.9	75,532.2	80,308.8	91,889.8
All Other Liabilities	15,868.3	28,710.1	31,902.1	38,727.2	41,611.0	47,697.0	46,000.6

Source : Monetary Authority of Singapore

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

¹ Include Asian Currency Units.

17.8 BANKS' LOANS AND ADVANCES TO NON-BANK CUSTOMERS BY INDUSTRY (End of Period)

	Million Dollars						
	1990	1995	1996	1997	1998	1999	2000
Total (Including bills financing)	57,696.4	108,974.0	126,987.7	143,243.8	151,640.9	147,185.5	154,042.1
Agriculture, Mining & Quarrying	85.6	159.3	132.8	187.6	223.6	191.4	178.7
Manufacturing	7,488.9	11,003.1	12,248.2	12,472.0	12,249.2	11,574.7	11,628.5
Building & Construction ¹	12,864.3	34,195.6	41,803.5	49,169.6	57,368.5	58,598.1	64,207.2
General Commerce	13,686.1	21,644.0	23,931.8	26,349.5	21,549.1	19,949.3	18,967.5
Transport, Storage & Communications	1,736.7	2,178.1	2,618.7	3,575.7	4,459.7	3,743.3	4,124.2
Financial Institutions	9,923.0	16,888.6	19,448.3	20,997.4	22,724.1	21,062.8	20,864.7
Professional & Private Individuals	7,752.3	16,889.5	20,256.1	22,775.4	21,766.1	21,594.2	24,722.1
Others	4,159.4	6,015.8	6,548.3	7,716.5	11,300.6	10,471.7	9,349.1

Source : Monetary Authority of Singapore

Notes : All data on bills financing include bills refinanced by the Monetary Authority of Singapore.

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

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

17.9

ASSETS AND LIABILITIES OF ASIAN CURRENCY UNITS

(End of Period)

Million US Dollars

	1990	1995	1996	1997	1998	1999	2000
Assets							
Total	390,395.5	478,232.9	506,870.2	557,193.5	503,609.9	480,399.4	486,451.6
Loans to Non-bank Customers	125,516.0	173,264.8	180,505.5	173,286.3	131,712.7	110,593.9	89,446.6
Inter-bank Funds	239,119.8	258,769.9	278,743.1	330,685.5	330,193.3	318,776.6	338,488.2
In Singapore	8,744.6	18,591.6	22,357.2	29,846.3	25,930.5	26,781.7	31,221.6
Inter-Asian Currency Units	34,440.2	39,669.5	40,236.8	48,882.9	40,696.6	34,698.2	31,512.8
Outside Singapore	195,935.0	200,508.8	216,149.1	251,956.3	263,566.2	257,296.7	275,753.8
Other Assets	25,759.6	46,198.2	47,621.5	53,221.7	41,703.9	51,028.9	58,516.8
Liabilities							
Total	390,395.5	478,232.9	506,870.2	557,193.5	503,609.9	480,399.4	486,451.6
Deposits of Non-bank Customers	66,885.6	80,603.6	95,373.8	113,683.4	113,077.0	121,319.5	124,651.5
Inter-bank Funds	309,427.1	376,106.6	389,469.6	414,526.2	365,479.4	326,542.7	321,650.1
In Singapore	11,955.8	25,133.5	25,257.4	32,271.9	20,742.4	28,200.3	27,975.8
Inter-Asian Currency Units	34,438.1	39,670.2	40,243.3	48,905.3	40,694.4	34,701.6	31,517.0
Outside Singapore	263,033.2	311,302.9	323,968.9	333,349.0	304,042.6	263,640.8	262,157.3
Other Liabilities	14,082.8	21,522.7	22,026.8	28,984.0	25,053.3	32,537.4	40,150.0

Source : Monetary Authority of Singapore

17.10

ASSETS AND LIABILITIES OF FINANCE COMPANIES

(End of Period)

Million Dollars

	1990	1995	1996	1997	1998	1999	2000
Assets							
Total	11,423.6	21,135.5	21,189.4	22,210.6	21,941.9	20,742.4	19,801.1
Cash & Balances with The Monetary Authority of Singapore	469.5	849.8	827.0	884.6	414.4	391.1	381.9
Deposits with Banks & Other Institutions	2,389.3	2,666.1	2,165.9	1,904.2	2,721.8	2,729.7	1,664.5
Securities & Equities	579.0	1,089.8	1,139.4	1,201.6	1,705.2	1,691.5	1,680.4
Loans & Advances	7,765.7	16,251.9	16,762.7	17,900.2	16,779.4	15,636.4	15,790.9
Hire Purchase Finance	2,076.8	5,580.2	4,982.4	4,958.8	4,331.6	4,413.3	5,700.1
Housing Loans	1,606.2	2,637.3	3,221.1	3,721.7	3,821.2	3,500.1	2,768.0
Other Loans & Advances	4,082.7	8,034.4	8,559.2	9,219.7	8,626.6	7,723.0	7,322.8
Other Assets	220.1	277.9	294.5	320.0	321.1	293.6	283.3
Liabilities							
Total	11,423.6	21,135.5	21,189.4	22,210.6	21,941.9	20,742.4	19,801.1
Capital & Reserves	1,415.8	2,620.9	3,014.7	3,268.5	3,371.2	3,408.1	3,164.9
Deposits from Individuals & Institutions	8,397.2	15,417.8	15,071.6	15,611.8	15,344.6	14,321.9	13,645.9
Savings Deposits	273.2	348.8	371.6	392.7	341.7	344.3	194.6
Fixed Deposits	7,719.2	13,584.6	13,311.8	15,124.9	14,882.9	13,875.5	13,425.4
Other Deposits	404.9	1,484.4	1,388.2	94.2	120.0	102.1	26.0
Other Liabilities	1,610.6	3,096.7	3,103.1	3,330.2	3,226.0	3,012.4	2,990.3

Source : Monetary Authority of Singapore

17.11

FINANCE COMPANIES' LOANS AND ADVANCES BY INDUSTRY

(End of Period)

Million Dollars

	1990	1995	1996	1997	1998	1999	2000
Total	2,935.4	6,402.6	7,177.1	7,784.9	7,642.9	7,008.0	6,558.4
Agriculture, Mining & Quarrying	1.0	0.9	0.5	0.1	0.1	0.1	5.5
Manufacturing	180.0	263.3	325.4	419.6	424.1	394.4	381.0
Building & Construction	715.4	1,508.4	1,799.2	1,886.5	1,890.1	1,636.7	1,616.4
General Commerce	369.6	535.0	635.9	637.8	627.3	630.4	574.9
Transport, Storage & Communications	145.1	313.5	318.7	359.2	368.5	286.6	273.3
Financial Institutions	502.1	953.3	1,156.3	1,319.4	1,285.0	1,260.7	1,247.1
Professional & Private Individuals	736.2	2,568.6	2,585.6	2,766.7	2,634.5	2,372.1	2,087.1
Others	286.0	259.5	355.5	395.7	413.4	427.0	373.0

Source : Monetary Authority of Singapore

17.12

ASSETS AND LIABILITIES OF MERCHANT BANKS

(End of Period)

								Million Dollars
	1990	1995	1996	1997	1998	1999	2000	
Assets								
Total	32,336.0	50,253.1	53,580.6	66,661.2	60,545.4	56,999.6	59,874.0	
Amounts Due from Banks	12,920.6	21,678.6	21,796.7	28,222.0	27,632.0	27,337.8	30,386.1	
In Singapore	664.0	715.2	771.9	1,221.3	1,771.2	1,704.7	1,554.7	
Outside Singapore ¹	12,256.6	20,963.4	21,024.8	27,000.7	25,860.8	25,633.1	28,831.4	
Loans & Advances to Non-bank Customers	11,271.9	15,258.2	17,348.9	21,777.5	19,321.2	20,846.5	21,835.0	
Securities & Equities	7,173.1	10,550.1	11,678.3	14,339.0	9,662.9	6,934.8	6,262.0	
Other Assets	970.4	2,766.3	2,756.7	2,322.8	3,929.2	1,880.5	1,390.9	
Liabilities								
Total	32,336.0	50,253.1	53,580.6	66,661.2	60,545.4	56,999.6	59,874.0	
Capital & Reserves	4,662.6	6,089.9	6,646.0	8,193.7	7,597.8	8,008.6	8,298.4	
Amounts Due to Banks	19,229.5	30,543.6	34,571.8	41,111.3	30,363.7	26,501.8	26,946.1	
In Singapore	543.7	657.5	481.5	974.2	1,083.2	649.0	674.4	
Outside Singapore ¹	18,685.8	29,886.1	34,090.3	40,137.1	29,280.5	25,852.8	26,271.7	
Borrowings from Non-bank Customers	6,845.9	8,779.6	9,030.0	13,814.9	17,751.6	18,914.6	21,584.3	
Other Liabilities	1,598.1	4,840.0	3,332.9	3,541.2	4,832.3	3,574.6	3,045.3	

Source : Monetary Authority of Singapore

Notes : Data include operations of Asian Currency Units of merchant banks.

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

¹ Include Asian Currency Units.

17.13

DOMESTIC INTEREST RATES
(End of Period)

	Per Cent Per Annum						
	1990	1995	1996	1997	1998	1999	2000
Banks ¹							
Prime Lending Rate	7.73	6.26	6.26	6.96	5.90	5.80	5.80
Deposit Rates							
3 Months	5.05	3.41	3.41	4.10	1.72	1.68	1.70
6 Months	5.37	3.67	3.67	4.20	2.08	2.04	2.04
12 Months	5.48	4.01	3.99	4.41	2.51	2.46	2.42
Savings Deposit Rate	3.83	2.72	2.72	3.08	1.43	1.36	1.30
Finance Companies							
Deposit Rates ²							
Up to 3 Months	5.20	3.18	3.20	4.00	1.85	1.80	1.80
12 Months	5.80	4.01	3.98	4.40	2.75	2.80	2.74

Source : Monetary Authority of Singapore

¹ Refer to the average quoted by 10 leading banks.² Refer to the average quoted by 10 leading finance companies.

17.14

CONTRIBUTIONS AND WITHDRAWALS OF CENTRAL PROVIDENT FUND

	Million Dollars						
	1990	1995	1996	1997	1998	1999	2000
Amount							
Contributed	7,174.2	13,536.1	14,623.0	15,873.8	15,999.8	12,826.6	14,093.5
Withdrawn	3,994.7	7,252.7	10,529.6	11,456.5	13,609.8	12,788.6	14,556.5
Due to Members (End of Period)	40,646.4	66,035.4	72,566.6	79,657.4	85,276.8	88,396.9	90,298.3

Source : Central Provident Fund Board

17.15 WITHDRAWALS OF CENTRAL PROVIDENT FUND BY TYPE

	1990	1995	1996	1997	1998	1999	2000
Million Dollars							
Total	3,995	7,253	10,530	11,457	13,610	12,789	14,557
Housing Schemes ¹							
Public Housing	1,252	2,782	3,000	3,460	4,796	5,428	5,443
Residential Properties	1,007	1,809	2,059	2,327	3,039	4,100	3,212
Reached 55 Years of Age ²	803	1,112	1,205	1,070	1,286	1,159	1,219
Leaving Singapore & Malaysia Permanently ³	156	241	310	350	395	347	304
Death	54	88	109	116	151	152	145
Medisave Scheme	208	296	316	339	349	348	421
Others ^{1,4}	514	925	3,532	3,794	3,595	1,254	3,813
Number							
Housing Schemes ⁵							
Public Housing	33,317	59,720	55,178	53,544	99,534	76,468	57,413
Residential Properties	10,082	18,482	17,773	17,867	17,670	36,488	19,979
Reached 55 Years of Age ²	34,550	137,829	101,757	117,592	64,928	63,874	186,525
Leaving Singapore & Malaysia Permanently ³	4,838	7,799	8,841	8,218	8,744	7,669	7,280
Death	3,852	6,207	10,545	12,446	15,084	15,376	12,649

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 1995, the increase in the number of withdrawals was due to the withdrawal of the government top-up under Sotus II and CPF Top-up Scheme. In 2000, the increase in the number of withdrawals was due to the withdrawal of the government top-up under the CPF Top-up Scheme.
- 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, Dependants' Protection, Education, Non-Residential Properties, Investment and DelGro Corporation Ltd shares.
- 5 Refer only to members who joined the scheme in the year.

17.16

TURNOVER ON THE SINGAPORE EXCHANGE (EQUITIES)

	1998	1999	2000
SGX Mainboard (S\$ trades)			
Volume (million)	35,938.1	96,608.8	78,483.0
Multi-industry	5,751.1	7,861.8	4,992.4
Manufacturing	6,574.1	26,855.2	27,899.8
Commerce	2,149.5	9,302.1	5,620.6
Transport/Storage/ Communications	3,926.1	9,823.2	8,133.6
Finance	5,173.5	5,991.8	6,023.3
Construction	1,686.5	8,587.9	6,221.9
Properties	6,908.4	7,889.6	3,761.7
Hotels/Restaurants	302.8	1,629.5	638.6
Services	882.2	2,560.9	8,119.7
Electricity/Gas/Water	-	202.3	56.5
Agriculture	-	1,131.7	428.8
Debentures, Bonds & Loan Stocks	2,583.8	14,772.7	6,586.0
Value (million \$)	74,479.4	151,107.5	151,179.0
Multi-industry	8,834.0	13,804.1	9,487.6
Manufacturing	13,199.6	33,248.7	57,282.2
Commerce	1,982.1	7,762.4	2,674.1
Transport/Storage/ Communications	11,079.0	20,532.3	16,547.8
Finance	23,278.9	40,043.2	41,461.5
Construction	861.3	5,637.8	3,886.3
Properties	12,999.1	18,196.8	9,419.6
Hotels/Restaurants	204.4	1,156.3	533.2
Services	1,221.7	3,789.3	7,569.1
Electricity/Gas/Water	-	64.5	13.6
Agriculture	-	433.3	162.2
Debentures, Bonds & Loan Stocks	819.3	6,438.8	2,141.8

Source : Singapore Exchange

17.17

SINGAPORE EXCHANGE - SECURITY TRADING SECTORAL INDICES

(3 January 1997=1,000)

(End of Period)

	1997	1998	1999	2000
Multi-industry	565.8	783.4	1,152.2	989.8
Manufacturing	892.9	847.9	1,502.5	968.8
Commerce	588.8	474.6	599.0	370.8
Transport/Storage/ Communications	942.8	792.4	1,264.3	1,039.9
Finance	799.7	832.0	1,835.2	1,408.8
Construction	437.0	374.9	802.5	414.5
Properties	561.4	483.1	692.7	570.4
Hotels/Restaurants	720.8	533.6	783.3	731.2

Source : Singapore Exchange

17.18

PLEDGES AT PAWNSHOPS

	1990	1995	1996	1997	1998	1999	2000
Pledges (' 000)							
Received	2,373.0	2,653.7	2,709.7	2,677.5	2,783.7	2,738.8	2,696.9
Redeemed	2,157.7	2,323.0	2,394.4	2,292.0	2,265.7	2,359.0	2,311.0
Amount of Loans (\$m)							
Given Out	717.4	1,022.7	1,097.3	1,133.0	1,159.2	1,109.0	1,113.8
Redeemed including Interest	701.5	973.1	1,041.6	1,021.4	1,043.1	1,064.4	1,053.8

Source : Registry of Pawnbrokers

17.19 LIFE INSURANCE POLICIES

	1989	1994	1995	1996	1997	1998	1999
Thousand							
Policies in Force (End of Period)	870	2,126	2,454	2,792	3,117	3,308	3,555
New Policies	216	391	417	440	453	355	413
Policies Matured or Discontinued	48	88	90	101	129	164	166
Million Dollars							
Policies in Force							
Amount Insured (End of Period)	48,677	125,382	146,426	169,868	187,986	209,568	230,200
Premiums	896	2,547	3,016	3,538	4,202	4,469	4,680
New Policies							
Amount Insured	13,335	27,237	28,866	34,940	37,835	37,777	38,728
Premiums	250	578	584	657	837	540	553
Policies Matured or Discontinued							
Amount Insured	3,130	6,817	8,944	11,498	19,717	16,195	18,096
Premiums	50	101	118	135	173	274	341

Source : Monetary Authority of Singapore

17.20

REVENUE AND EXPENDITURE ACCOUNTS OF LIFE INSURANCE FUNDS

Million Dollars

	1989	1994	1995	1996	1997	1998	1999
Revenue							
Total	3,665	11,220	13,911	17,130	21,353	23,622	29,896
Balance of Revenue Account at Beginning of Year	2,470	7,332	9,483	12,006	14,835	17,425	20,158
Premiums	844	3,020	3,523	4,215	5,505	5,015	6,508
Net Interest, Dividends & Rents	183	409	476	559	680	903	978
Miscellaneous	167	459	429	350	333	279	2,252
Expenditure							
Total	3,665	11,220	13,911	17,130	21,353	23,622	29,896
Claims on Death, Disability & Maturity	138	439	522	622	1,035	1,062	925
Surrenders	64	161	191	262	323	598	899
Cash Bonuses & Annuities	43	49	55	63	82	93	94
Management Expenses							
Commission	240	647	697	788	856	702	691
Salaries	33	78	92	107	126	133	133
Others	50	157	162	177	199	194	205
Miscellaneous	44	206	186	274	1,258	682	473
Balance of Revenue Account at End of Year	3,054	9,483	12,006	14,837	17,474	20,158	26,476

Source : Monetary Authority of Singapore

17.21

ASSETS OF LIFE INSURANCE FUNDS
 (End of Period)

Million Dollars

	1989	1994	1995	1996	1997	1998	1999
Total	3,299	10,481	13,228	16,303	19,199	21,848	28,453
Land & Buildings	105	497	884	1,174	1,565	1,861	1,850
Loans	666	1,621	2,089	2,519	2,892	3,655	4,017
On Mortgages	323	818	1,021	1,293	1,274	1,452	1,542
On Policies	238	582	713	866	1,082	1,423	1,649
Others	105	220	355	360	536	780	826
Investments	1,703	6,124	7,404	9,000	10,462	11,179	17,411
Government & Statutory Authorities	741	1,222	1,231	896	990	1,224	2,764
Debentures & Shares ¹	962	4,902	6,173	8,104	9,472	9,955	14,647
Cash & Deposits	700	1,915	2,496	3,168	3,768	4,446	4,557
Miscellaneous (including Outstanding Premiums) ²	125	324	355	442	512	707	618

Source : Monetary Authority of Singapore

¹ Include other investments.² Include furniture.

17.22

PREMIUMS AND CLAIMS OF GENERAL INSURANCE FUNDS

Million Dollars

	1989	1994	1995	1996	1997	1998	1999
Net Premiums ¹							
Total	589	1,099	1,221	1,306	1,352	1,251	1,208
Marine, Aviation or Transit	84	138	148	153	156	130	117
Others	505	961	1,073	1,153	1,196	1,121	1,091
Fire	78	111	121	130	140	144	145
Motor Vehicles	254	458	497	492	488	437	413
Miscellaneous	173	392	455	531	568	540	533
Net Claims ²							
Total	259	509	525	582	626	726	706
Marine, Aviation or Transit	39	48	43	51	47	53	61
Others	220	461	482	531	579	673	645
Fire	28	37	34	43	43	41	44
Motor Vehicles	122	264	277	300	321	346	348
Miscellaneous	70	160	171	188	215	286	253

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.

17.23

REVENUE AND EXPENDITURE ACCOUNTS OF
GENERAL INSURANCE FUNDS

Million Dollars

	1989	1994	1995	1996	1997	1998	1999
Revenue							
Total	1,724	3,298	3,597	3,999	4,384	4,444	4,507
Balance of Revenue Account at Beginning of Year	249	661	758	862	982	1,053	1,171
Reserves for Unexpired Risks at Beginning of Year	228	439	488	545	582	600	547
Loss Reserves at Beginning of Year	543	932	1,003	1,108	1,194	1,292	1,317
Net Premiums Written	589	1,099	1,221	1,306	1,352	1,251	1,208
Net Interest, Dividends & Rents	64	94	94	103	127	158	115
Miscellaneous	52	73	33	75	147	90	149
Expenditure							
Total	1,724	3,298	3,597	3,999	4,384	4,444	4,507
Net Claims Settled, Loss Reserves at End of Year	868	1,515	1,640	1,792	1,927	2,074	2,070
Management Expenses							
Commission	93	150	161	171	183	166	160
Others	136	272	297	332	338	339	341
Miscellaneous	54	112	81	111	263	90	70
Balance of Revenue Account at End of Year	307	760	871	1,009	1,074	1,217	1,322
Reserves for Unexpired Risks at End of Year	266	489	547	584	599	558	544

Source : Monetary Authority of Singapore

17.24

ASSETS OF GENERAL INSURANCE FUNDS

(End of Period)

Million Dollars

	1989	1994	1995	1996	1997	1998	1999
Total	1,427	2,931	3,291	3,610	3,787	3,919	4,006
Land & Buildings	50	135	194	202	230	221	222
Loans	16	42	53	66	79	84	103
Investments	638	1,185	1,306	1,428	1,338	1,418	1,831
Government & Statutory Authorities	267	346	320	273	259	355	465
Debentures & Shares	371	839	986	1,155	1,079	1,063	1,366
Cash & Deposits	555	1,155	1,276	1,435	1,636	1,691	1,383
Miscellaneous	168	414	462	479	504	505	467

Source : Monetary Authority of Singapore

17.25

CREDIT AND CHARGE CARDS

	1996	1997	1998	1999	2000
Main Cards ¹ ('000)	1,117.1	1,241.1	1,369.1	1,505.6	1,685.9
Supplementary Cards ¹ ('000)	577.4	626.4	681.5	725.7	775.1
Total Card Billings (\$m)	6,985.9	7,915.1	7,689.2	8,948.3	10,557.2
Rollover Balance ¹ (\$m)	893.6	1,035.3	1,113.4	1,371.2	1,724.3
Bad Debts Written Off (\$m)	23.9	31.6	53.7	67.7	62.1

Source : Monetary Authority of Singapore

¹ As at end of period.

the 1997-98 financial year, the Government has introduced a new corporate income tax rate of 25 per cent. This is a significant reduction from the previous rate of 30 per cent. The new rate is intended to encourage investment and economic growth.

The Government has also introduced a new capital gains tax rate of 10 per cent. This is a significant reduction from the previous rate of 15 per cent. The new rate is intended to encourage investment and economic growth.

The Government has also introduced a new goods and services tax (GST) rate of 7 per cent. This is a significant reduction from the previous rate of 10 per cent. The new rate is intended to encourage investment and economic growth.

The Government has also introduced a new development fund. This fund is intended to provide financial assistance to businesses and individuals who are engaged in development activities.

Development Fund

The Development Fund is established by the Development Fund Act.

The Development Fund is established by the Development Fund Act. The fund is intended to provide financial assistance to businesses and individuals who are engaged in development activities.

Government Revenue and Expenditure

The main revenue-collecting agencies are the Customs and Excise Department and the Inland Revenue Authority of Singapore (IRAS). The IRAS is responsible for the collection of income tax, property tax, goods and services tax, estate and stamp duties, duties on newspapers and printed matter, and other taxes. The IRAS is also responsible for the collection of land and building taxes, and other taxes.

The Government's revenue is used to fund its expenditure. The expenditure is divided into two main categories: capital expenditure and current expenditure. Capital expenditure is used to fund the construction and maintenance of infrastructure, and the acquisition of fixed assets. Current expenditure is used to fund the day-to-day operations of the Government, including the payment of salaries and wages, and the provision of social services. The Government's revenue and expenditure are reported in the annual financial statements.

Government Revenue and Expenditure

The main revenue-collecting agencies are the Customs and Excise Department and the Inland Revenue Authority of Singapore (IRAS). The former is responsible for the collection of import and excise duties on liquor, tobacco, petroleum, motor vehicles, film hire and entertainment duties. The IRAS is responsible for the collection of income tax, property tax, goods and services tax, estate and stamp duties, duties on sweepstakes and lotteries. It also ensures that liabilities of all persons 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 income of the preceding year after appropriate deductions have been made. Residents in this context refer to persons having stayed in Singapore for a period of 6 months or more during the reference year. For the Year of Assessment 2000, the tax rates range from 2 per cent to 28 per cent and a one-off tax rebate of 5 per cent is given. This one-off tax rebate is given in addition to the \$500 rebate granted to offset the Goods and Services Tax (GST). Deductions include allowances for personal relief, earned income, maintenance of wife, children and dependants, delivery and hospitalisation expenses for a new born fourth child, life insurance premiums, contributions to the Central Provident Fund (CPF) or other approved pension or provident funds, payments to top up an individual's or his parents' 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 (15 per cent on employment income and from the Year of Assessment 1997, 26 per cent on other income).

For the Year of Assessment 2000, the corporate income tax rate is 26 per cent. 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 consultancy services, research and development and overseas ventures.

The government has concluded comprehensive agreements for the avoidance of double taxation with countries which have trading and 40 such agreements in force.

A 3 per cent Goods and Services Tax (GST) has been introduced since 1 April 1994 to broaden the revenue base and to shift the reliance from direct taxes to indirect taxes. 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.

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.

18 PUBLIC FINANCE (cont'd)

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 incomes 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.

18.1 GENERAL GOVERNMENT FINANCE

Million Dollars

	1998	1999
Deficit (-) or Surplus	4,714	10,004
Total Revenue and Grants	43,073	44,007
Revenue ¹	43,073	44,007
Grants	-	-
Expenditure & Lending minus		
Repayments	38,359	34,003
Expenditure ²	27,479	26,254
Lending minus Repayments	10,880	7,749
Total Financing	-4,714	-10,004
Domestic Financing	-4,714	-10,004
From Monetary Authorities	2,295	-2,125
From Deposit Money Banks	1,536	4,882
Other Domestic Financing	-8,545	-12,761
Foreign Financing	-	-

Source : Accountant-General's Department

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

2 General government finance includes budgetary and extra-budgetary accounts.

18.2 GOVERNMENT FINANCE

Million Dollars

	1990	1995	1996	1997	1998	1999	2000
Deficit (-) or Surplus	6,225.7	14,825.9	21,275.1	17,780.9	23,163.5	14,577.8	18,092.1
Total Revenue and Grants	18,315.9	38,982.3	50,022.9	61,151.4	59,725.2	49,949.1	52,254.6
Revenue ¹	18,315.9	38,982.3	50,022.9	61,151.4	59,725.2	49,949.1	52,254.6
Grants	-	-	-	-	-	-	-
Expenditure & Lending minus							
Repayments	12,090.2	24,156.4	28,747.8	43,370.5	36,561.7	35,371.3	34,162.5
Expenditure ²	13,256.8	17,419.0	20,680.9	30,541.7	25,588.3	26,664.2	30,069.9
Lending minus Repayments	-1,166.6	6,737.4	8,066.9	12,828.8	10,973.4	8,707.1	4,092.6
Total Financing	-6,225.7	-14,825.8	-21,275.1	-17,780.9	-23,163.5	-14,577.8	-18,092.1
Total Net Borrowing	4,921.8	7,054.8	10,861.6	11,411.9	22,537.9	17,146.6	16,484.2
Use of Cash Balances	-11,147.5	-21,880.6	-32,136.7	-29,192.8	-45,701.4	-31,724.4	-34,576.3
Use of Foreign Exchange	-7,796.8	-11,339.9	-21,716.7	-27,258.9	-42,128.8	-35,032.7	-19,644.1
Use of Domestic Cash Balances	-3,350.7	-10,540.7	-10,420.0	-1,933.9	-3,572.6	3,308.3	-14,932.2

Source : Ministry of Finance

1 Revenue refers to receipts credited to the Consolidated Revenue Account, Development Fund Account and Sinking Fund Account, including investment income, capital receipts and investment adjustments.

2 Expenditure refers to the outlays made out from the Consolidated Revenue Account, Development Fund Account and Sinking Fund Account.

18.3 GOVERNMENT OPERATING REVENUE

Million Dollars

	1990	1995	1996	1997	1998	1999	2000
Total ¹	13,102.2	24,781.6	28,038.3	30,612.7	28,212.5	28,619.2	33,526.6
Tax Revenue	10,534.0	19,578.6	21,919.5	24,441.4	22,154.1	21,578.1	25,277.4
Income Tax	4,908.2	8,766.1	9,539.0	11,464.3	10,966.0	11,623.5	13,422.9
Corporate & Personal Income Tax	4,396.0	8,138.3	8,904.0	9,520.4	9,798.2	9,315.5	12,230.5
Contributions by Statutory Boards	512.2	627.8	635.0	1,943.9	1,167.8	2,308.0	1,192.4
Assets Taxes	1,111.4	1,838.9	1,629.5	2,403.4	1,849.5	1,181.1	1,484.7
Taxes on Motor Vehicles ²	1,337.5	1,817.5	2,443.5	1,765.8	1,547.5	1,337.2	2,179.7
Customs & Excise Duties	1,305.5	1,597.5	1,646.4	1,676.5	1,611.9	1,536.5	1,766.2
Betting Taxes	521.6	981.6	1,151.4	1,256.7	1,266.6	1,309.3	1,452.2
Stamp Duty	654.8	1,364.3	1,834.5	1,694.5	1,080.8	1,280.1	1,380.0
Goods & Services Tax ³	-	1,647.4	1,788.3	1,989.2	1,688.7	1,776.7	2,244.0
Others	695.0	1,565.3	1,886.9	2,191.0	2,143.1	1,533.7	1,347.7
Fees & Charges	1,498.7	3,665.0	4,055.9	4,030.5	3,354.9	3,732.8	5,572.3
Other Receipts ⁴	1,069.5	1,538.0	2,062.9	2,140.8	2,703.5	3,308.3	2,676.9

Source : Ministry of Finance

1 Operating revenue refers to receipts credited to the Consolidated Revenue Account and Development Fund Account, but excludes Investment Income and Capital Receipts.

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

3 Goods and Services Tax was implemented on 1 April 1994.

4 Other Receipts exclude repayment of direct loans and advances but include Interest on Loans.

18.4 GOVERNMENT OPERATING EXPENDITURE

Million Dollars

	1990	1995	1996	1997	1998	1999	2000
Total ¹	7,061.6	10,883.7	12,253.6	15,159.0 ²	14,236.4	13,907.4	18,896.9
Security	3,405.4	5,245.9	6,215.6	6,667.3	7,189.8	7,063.0	8,882.9
Social & Community Services	2,604.2	4,119.9	4,387.8	5,268.2	5,254.4	4,859.6	6,047.4
Education	1,742.3	2,677.7	2,848.4	3,352.6	3,327.4	2,967.2	3,901.9
Health	457.0	685.0	701.8	979.2	934.2	874.7	990.2
Environment	188.5	273.8	289.5	303.9	319.1	321.9	357.2
Public Housing	45.1	164.0	150.0	194.5	166.5	169.1	185.6
Others	171.3	319.4	398.1	438.0	507.2	526.8	612.4
Economic Services	428.3	688.3	910.7	962.9	976.0	1,143.3	3,053.0
National Development	245.8	357.1	268.8	264.4	236.0	222.7	132.7
Communications and							
Information Technology	30.5	76.4	277.3	311.4	317.7	458.0	2,427.8
Trade & Industry	127.3	214.2	315.8	336.5	334.7	340.8	391.3
Manpower	24.7	40.6	48.8	50.6	87.6	121.9	101.2
General Services	367.1	720.3	739.5	760.6	816.2	841.4	913.7
Pensions	256.6	109.3	-	-	-	-	-

Source : Ministry of Finance

- 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 Figure for 1997 includes one-off compensation of \$1.5 billion paid to Singapore Telecom for early termination of its exclusive telecommunication privileges.

18.5 GOVERNMENT DEVELOPMENT EXPENDITURE

	Million Dollars						
	1990	1995	1996	1997	1998	1999	2000
Total ¹	4,220.3	4,671.3	6,920.7	10,705.9	10,557.1	11,039.3	9,117.6
Security	266.5	379.6	786.5	1,216.0	1,314.2	1,518.5	1,508.7
Social & Community Services	2,716.2	2,044.7	3,134.9	2,823.3	4,270.4	5,197.5	3,843.9
Education	228.7	779.6	646.4	909.2	1,377.0	1,505.2	1,542.5
Health	48.4	326.9	356.0	266.4	231.4	112.1	124.1
Environment	209.3	282.7	520.6	649.2	907.3	1,046.4	579.6
Public Housing	2,143.9	498.1	1,021.2	717.7	1,475.3	2,278.2	1,369.2
Others	85.9	157.4	590.7	280.8	279.4	255.6	228.5
Economic Services	988.0	1,816.7	1,986.2	3,201.3	4,228.6	3,287.5	3,380.5
National Development	405.0	375.5	174.1	117.2	113.3	252.0	301.8
Communications and Information Technology	333.7	788.1	787.6	1,261.5	1,734.5	538.9	830.2
Trade & Industry	219.4	386.7	501.3	1,161.8	1,566.1	1,551.2	1,598.0
Manpower	9.5	1.7	0.9	3.0	5.0	11.3	53.1
Research & Development	20.4	264.7	522.3	657.8	809.7	934.1	597.4
General Services	249.6	430.3	1,013.1	3,465.3	743.9	1,035.8	384.5

Source : Ministry of Finance

¹ Government development expenditure excludes loans to statutory boards, industrial and commercial enterprises.

18.6 SOURCES AND USES OF DEVELOPMENT FUND

	Million Dollars						
	1990	1995	1996	1997	1998	1999	2000
Balance (Beginning of Financial Year)	47,170	36,351	25,770	24,073	23,037	31,721	42,613
Sources							
Total	6,796	5,596	18,333	24,597	35,349	33,042	8,183
Consolidated Revenue Account	-	-	12,331	17,729	25,096	22,985	-
Consolidated Loan Account	2,496	-	-	-	-	-	-
Others	4,300	5,596	6,002	6,868	10,253	10,057	8,183
Uses							
Total	5,004	16,177	20,030	25,632	26,665	22,149	11,827
Government Development Expenditure	3,356	5,962	9,128	8,963	12,282	10,211	5,391
Loans to Statutory Boards & Enterprises	1,648	9,215	10,902	16,669	14,383	11,938	6,436
Others	-	1,000	-	-	-	-	-

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 2000 refer to the period from 1 April 2000 to 31 December 2000.

18.7 GOVERNMENT DEBT BY INSTRUMENT

(End of Period)

	Million Dollars						
	1990	1995	1996	1997	1998	1999	2000
Total	51,425.6	86,507.6	94,830.7	102,371.9	115,183.4	125,777.1	134,370.4
Domestic Debt	51,357.7	86,507.6	94,830.7	102,371.9	115,183.4	125,777.1	134,370.4
Registered Stocks & Bonds	41,149.8	59,701.9	67,853.9	73,305.7	80,667.4	86,548.1	91,011.2
Treasury Bills	2,070.0	5,750.0	5,990.0	6,920.0	8,540.0	12,160.0	13,380.0
Advance Deposits	8,137.9	21,055.7	20,986.8	22,146.2	25,976.0	27,069.0	29,979.2
External Debt ¹	67.9	-	-	-	-	-	-
UK Special Aid	35.0	-	-	-	-	-	-
World Bank	13.5	-	-	-	-	-	-
Asian Development Bank	14.3	-	-	-	-	-	-
Others	5.1	-	-	-	-	-	-
Memorandum item :							
Debt Guarantees	-	-	-	660.0	510.0	1,564.2	350.4

Source : Accountant-General's Department
Monetary Authority of Singapore

1 Figures were computed at market rates.

18.8 GOVERNMENT DEBT BY MATURITY

(End of Period)

	Million Dollars						
	1990	1995	1996	1997	1998	1999	2000
Domestic Debt (excluding Advance Deposits)	43,219.8	65,451.9	73,843.9	80,225.7	89,207.4	98,708.1	104,391.2
1 year maturity or less	3,709.5	9,700.0	10,998.2	12,358.4	15,089.2	19,797.0	20,460.0
More than 1 year maturity	39,510.3	55,751.9	62,845.7	67,867.3	74,118.2	78,911.1	83,931.2
External Debt ¹	68.0	-	-	-	-	-	-
1 year maturity or less	9.7	-	-	-	-	-	-
More than 1 year maturity	58.3	-	-	-	-	-	-

Source : Accountant-General's Department
Monetary Authority of Singapore

1 Figures were computed at market rates.

18.9 REVENUE COLLECTED BY CUSTOMS AND EXCISE DEPARTMENT

Million Dollars							
	1990	1995	1996	1997	1998	1999	2000
Total	1,346	1,630	1,682	1,698	1,646	1,584	1,789
Import & Excise Duties							
Liquors	236	313	327	359	337	343	340
Tobacco	257	348	394	405	419	427	452
Petroleum	500	563	587	615	589	462	485
Motor Vehicles	256	369	340	289	269	317	473
Others	57	2	3	2	3	4	5
Entertainment Duties	20	5	5	5	4	5	7
Film Hire Duty	4	-	-	-	-	-	-
Licence Fees	8	12	16	15	15	15	16
Anti-Dumping Duty ¹	-	10	2	2	1	1	-
Miscellaneous Receipts	6	8	9	7	10	11	11

Source : Customs and Excise Department

¹ Duty collected with effect from 27 January 1995 for selected items.

18.10 REVENUE COLLECTED BY INLAND REVENUE AUTHORITY

Million Dollars							
	1990	1995	1996	1997	1998	1999	2000
Total	6,706	13,985	15,279	16,857	15,628	15,081	18,734
Income Tax	4,415	8,148	8,893	9,533	9,731	9,444	12,209
Property Tax	1,065	1,776	1,564	2,356	1,809	1,147	1,409
Goods & Services Tax ¹	-	1,649	1,761	1,959	1,722	1,806	2,231
Estate Duty	46	59	76	55	44	46	84
Stamp Duty	644	1,356	1,843	1,699	1,063	1,313	1,381
Betting, Sweepstakes & Private Lotteries	514	998	1,144	1,255	1,259	1,324	1,420
Others ²	22	-	-	-	-	-	-
Miscellaneous Receipts ³	-	-	-	-	-	-	1

Source : Inland Revenue Authority of Singapore.

¹ Goods & Services tax was implemented on 1 April 1994.² Include Skills Development Levy. With effect from June 1991, exclude Skill Development Levy as Inland Revenue Authority is no longer collecting this item.³ Prior to April 1999, it was included under Property Tax.

18.11 TAXABLE INDIVIDUALS BY ASSESSED INCOME GROUP, 1999

	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)	578,922	12,186	31,507	70,671	148,138	91,865
Resident	566,060	2,029	31,022	70,345	147,656	91,530
Non-resident	12,862	10,157	485	326	482	335
Assessable Income (\$m)	38,070	96	721	1,953	5,141	4,097
Resident	37,852	40	710	1,944	5,125	4,082
Non-resident	218	56	11	9	16	15
Net Tax Assessed (\$m)	2,684	9	5	13	56	76
Resident	2,645	-	3	11	53	73
Non-resident	39	9	2	2	3	3

	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)	56,188	63,034	32,061	49,712	22,775	785
Resident	55,951	62,733	31,888	49,415	22,709	782
Non-resident	237	301	173	297	66	3
Assessable Income (\$m)	3,076	4,320	2,863	6,797	7,492	1,514
Resident	3,063	4,300	2,847	6,759	7,473	1,508
Non-resident	13	20	16	38	19	6
Net Tax Assessed (\$m)	83	170	164	659	1,200	248
Resident	81	166	161	652	1,197	247
Non-resident	2	4	3	7	3	1

Source : Inland Revenue Authority of Singapore

18.12

TAXABLE COMPANIES BY ASSESSED INCOME GROUP, 1999

	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)	22,352	5,402	2,309	1,600	2,854	2,019
Resident	21,385	5,262	2,222	1,548	2,731	1,918
Non-resident	967	140	87	52	123	101
Assessable Income (\$m)	27,564	23	35	40	125	161
Resident	25,111	22	34	39	120	153
Non-resident	2,453	1	1	1	5	8
Net Tax Assessed (\$m)	5,520	5	8	9	30	38
Resident	5,118	5	8	9	29	36
Non-resident	402	-	-	-	1	2

	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)	3,431	1,137	1,265	1,257	368	710
Resident	3,247	1,082	1,185	1,188	348	654
Non-resident	184	55	80	69	20	56
Assessable Income (\$m)	607	445	909	2,160	1,442	21,617
Resident	575	424	850	2,041	1,362	19,491
Non-resident	32	21	59	119	80	2,126
Net Tax Assessed (\$m)	144	104	209	495	318	4,158
Resident	136	99	195	468	301	3,831
Non-resident	8	5	14	27	17	327

Source : Inland Revenue Authority of Singapore

PRICES

Wholesale Price Indices

Other price indices consist of the Domestic Supply Price Index and Indices on Singapore manufactured products, imported products and finished products. For imported products, the prices are valued at cost, insurance and freight; for exported products, they refer to fob (free on board) prices; and for locally manufactured products, they are ex-factory prices. The indices are compiled monthly using the fixed-weighted Laspeyres' formula. The base year for the Domestic Supply Price Index, Singapore Manufactured Products Price Index, Import Price Index and Export Price Index is 1992.

The list of items and weighting patterns for the Singapore manufactured products were derived from data collected in the 1992 Census of Industrial Production, while those for the exported and imported products were derived from exports and imports statistics for 1992. The weights for the Domestic Supply Price Index were made proportionate to the combined value of retained imports and locally manufactured goods sold in the domestic market.

Data are collected monthly by mail from importers, exporters and manufacturers. Indices at commodity division level are

Consumer Price Index (CPI) is a measure of the changes in the prices of goods and services commonly bought by the majority of the households. The latest series was compiled based on the results of the seventh Household Expenditure Survey conducted from November 1997 to October 1998. The sample included 2,487 households with monthly expenditure of \$1,000 to \$4,000. The sample was selected to represent the composition of goods and services in the CPI basket. The households constituted the central 90 per cent of all households surveyed. The top 5 per cent and bottom 5 per cent and top 2 per cent of the households were excluded as their consumption pattern of these households differed greatly from the average households.

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 publication "The Consumer Price Index, Singapore, based on Household Expenditure Survey 1997/98".

Retail Prices

Retail prices of selected goods are collected regularly from markets, supermarkets, provision shops, econ-mini malls 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.

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 was compiled based on the results of the seventh Household Expenditure Survey conducted from November 1997 to October 1998. The expenditure records of 5,487 households with monthly expenditure of \$1,010-\$9,540 were used to derive the weighting pattern as well as the composition of goods and services in the CPI basket. These households constituted the central 90 per cent of all households surveyed. The remaining bottom 5 per cent and top 5 per cent of the households were excluded as their consumption pattern of these households differed greatly from the average households.

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.

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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 are revised. A total of 4,940 items or varieties are selected for regular pricing.

Wholesale Price Indices

Other price indices consist of the Domestic Supply Price Index and Indices on Singapore manufactured products, imported products and exported products. For imported products, the prices are valued at cif (cost, insurance and freight); for exported products, they refer to fob (free on board) prices; and for locally manufactured products, they are ex-factory prices. The indices are compiled monthly using the fixed-weighted Laspeyres' formula. The base year for the Domestic Supply Price Index, Singapore Manufactured Products Price Index, Import Price Index and Export Price Index is 1995.

The list of items and weighting patterns for the Singapore manufactured products were derived from data collected in the 1995 Census of Industrial Production, while those for the exported and imported products were derived from exports and imports statistics for 1995. The weights for the Domestic Supply Price Index were made proportionate to the combined value of retained imports and locally manufactured goods sold in the domestic market.

Data are collected monthly by mail from importers, exporters and manufacturers. Indices at commodity division level are

published in the Department's "Monthly Digest of Statistics". Details on methodology, commodity coverage, weighting pattern and methods of computation can be found in the Information Paper : Rebasing and Revision of Wholesale Price Indices (1995=100).

Commercial Property Rental Index are undertaken by the Urban Redevelopment Authority (URA) and Building Materials Price Index by the Construction Industry Development Board.

Other Price Indices

Data on selected farm products are obtained from the Primary Production Department. The collection and compilation of data for the Property Price Index and

Produce Prices

Prices of rubber are obtained weekly from the Singapore Commodity Exchange. Weekly prices for other types of produce are obtained from the Singapore Chinese Produce Exchange.

19.1 CONSUMER PRICE INDEX

	Weights ¹	1990	1995	1996	1997	1998	1999	2000
November 1997 - October 1998=100								
All Items	10,000	85.2	96.7	98.0	100.0	99.7	99.8	101.1
Food	2,752	87.1	95.7	97.7	99.7	99.9	100.8	101.4
Clothing	443	91.6	99.9	100.4	101.1	99.8	97.9	97.1
Housing	2,292	87.1	95.4	95.9	98.1	99.9	98.6	100.6
Transport & Communications	1,803	82.5	100.1	100.4	104.3	99.2	98.7	100.7
Education	729	75.0	92.8	95.6	97.1	100.1	101.6	102.9
Health	305	74.4	90.7	92.7	96.1	100.2	100.8	102.3
Miscellaneous	1,676	84.0	98.6	100.4	100.6	99.5	100.3	101.9
Percentage Change Over Previous Year								
All Items	10,000	3.4	1.7	1.4	2.0	-0.3	0.0	1.3
Food	2,752	0.8	2.3	2.1	2.0	0.2	0.9	0.6
Clothing	443	0.9	1.5	0.5	0.7	-1.3	-1.9	-0.8
Housing	2,292	5.7	0.7	0.5	2.3	1.9	-1.4	2.0
Transport & Communications	1,803	7.8	0.6	0.4	3.9	-4.9	-0.6	2.1
Education	729	5.1	4.2	3.0	1.5	3.1	1.5	1.3
Health	305	4.8	1.6	2.3	3.7	4.3	0.6	1.5
Miscellaneous	1,676	3.6	2.5	1.8	0.2	-1.1	0.8	1.5

¹ 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. The weights refer to the consumption pattern of 1997/98 and are used in the computation of the indices for the years from 1998 to 2000. Indices for the years 1990 and 1995-1997 relate to the consumption patterns of 1987/88 and 1992/93 respectively.

19.2

CONSUMER PRICE INDEX FOR HOUSEHOLDS IN DIFFERENT
INCOME GROUPS

Income Group	All Items	Food	Clothing	Housing	Transport & Comm - unications	Education & Stationery	Health	Miscel- laneous
Weights ¹ 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)								
1997								
Lowest 20%	98.7	99.9	100.4	97.7	97.9	97.3	95.6	99.1
Middle 60%	99.4	99.7	101.1	98.3	100.8	97.2	95.9	100.3
Highest 20%	103.3	99.5	101.1	98.0	113.4	96.4	96.8	101.2
1998								
Lowest 20%	99.9	99.9	99.8	100.0	99.8	100.1	100.3	99.8
Middle 60%	99.6	99.9	99.8	99.9	98.5	100.1	100.1	99.6
Highest 20%	99.2	100.0	99.6	99.9	97.8	100.0	100.2	99.3
1999								
Lowest 20%	100.4	100.8	98.0	99.9	98.9	103.3	100.9	100.7
Middle 60%	100.0	100.8	97.9	99.4	99.2	101.6	100.3	100.5
Highest 20%	99.2	101.0	97.6	96.4	99.5	101.2	100.4	100.0
2000								
Lowest 20%	102.0	101.3	97.2	102.9	101.1	104.7	102.2	102.9
Middle 60%	101.4	101.3	97.1	101.9	100.6	102.9	102.0	102.2
Highest 20%	99.9	101.6	97.4	96.7	99.9	102.7	101.9	101.1
Percentage Change Over Previous Year								
1998								
Lowest 20%	1.2	-	-0.6	2.3	2.0	2.9	5.0	0.7
Middle 60%	0.2	0.2	-1.3	1.7	-2.3	3.0	4.5	-0.7
Highest 20%	-4.0	0.5	-1.5	2.0	-13.8	3.7	3.4	-1.9
1999								
Lowest 20%	0.5	0.9	-1.8	-0.1	-0.8	3.2	0.6	0.9
Middle 60%	0.5	0.9	-1.9	-0.5	0.8	1.5	0.2	0.9
Highest 20%	-	1.0	-2.0	-3.6	1.7	1.3	0.3	0.7
2000								
Lowest 20%	1.6	0.5	-0.8	3.0	2.2	1.4	1.3	2.1
Middle 60%	1.3	0.5	-0.8	2.5	1.3	1.3	1.7	1.7
Highest 20%	0.7	0.6	-0.3	0.3	0.4	1.5	1.5	1.1

¹ 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.

The weights refer to the consumption pattern of 1997/98 and are used in the computation of the indices for the years from 1998 to 2000. Indices for the year 1997 relate to the consumption pattern of 1992/93.

19.3

PRICE INDICES OF SELECTED CONSUMER ITEMS

(November 1997-October 1998 =100)

	Weights	1990	1995	1996	1997	1998	1999	2000
Utility								
Water Tariff	70	64.0	70.2	70.2	81.4	103.6	125.2	146.5
Electricity Tariff	194	100.0	93.6	98.6	100.7	98.6	93.4	115.1
Gas Tariff	20	69.2	88.1	94.5	99.7	100.0	100.0	109.5
Liquefied Petroleum Gas	18	86.7	98.6	99.7	100.2	99.9	99.6	112.5
Private Road Transport								
Petrol, Premium	248	91.1	93.4	94.4	98.5	98.8	95.4	111.4
Petrol, Intermediate	6	94.7	92.8	93.9	98.5	98.9	95.9	112.3
Other Running Costs	348	98.0	102.2	101.6	101.3	99.7	97.6	96.7
Education								
Primary School								
Miscellaneous Fees	13	64.5	98.4	99.8	100.0	100.0	157.2	157.2
Secondary, Pre-U & JC								
School & Miscellaneous Fees	23	65.1	98.5	98.5	98.6	100.3	126.5	128.0
Health								
Consultation Fees for Adult & Children at Outpatient Dispensary	93	68.1	85.6	88.4	93.7	100.5	102.6	104.5

Note : See note to Table 19.1.

19.4 RETAIL PRICES OF FOOD AND GROCERIES

Dollars								
Item	Unit	1990	1995	1996	1997	1998	1999	2000
Rice & Other Cereals								
Thai Rice 100% Fragrant	5 kg pkt	5.85	6.35	6.41	7.88	8.78	8.38	8.47
Instant Noodles	5 pkts	1.80	1.79	1.77	1.74	1.68	1.63	1.58
Ordinary White Bread	400 g	0.70	0.86	0.93	0.98	1.24	1.24	1.24
Vitamin Enriched Bread	400 g	1.25	1.50	1.48	1.49	1.33	1.33	1.33
High Fibre Bread	400 g	na	1.73	1.73	1.73	1.66	1.65	1.66
Chocolate Cake	Per kg	na	25.42	26.48	26.88	27.23	27.35	27.81
Meat & Poultry								
Lean Pork	Per kg	6.50	6.15	6.78	6.98	6.72	7.93	8.75
Pork Rib Bones	Per kg	7.33	7.20	7.80	8.03	7.72	9.19	10.18
Fresh Beef	Per kg	12.98	13.38	12.63	12.49	13.16	13.06	13.13
Fresh Mutton	Per kg	10.84	10.23	10.29	10.36	10.34	10.12	10.22
Hen	Each	4.15	4.46	4.41	4.49	4.41	4.51	4.41
Duck	Each	4.53	5.20	5.27	5.38	5.22	5.31	5.22
Fresh Chicken Wing	Each	0.45	0.49	0.48	0.49	0.49	0.52	0.52
Chicken Extract	½ doz	na	16.83	16.83	16.83	14.70	14.65	15.89
Fish & Other Sea Products								
White Pomfret	Per kg	13.95	19.08	18.78	20.03	17.49	17.78	18.23
Flowery Grouper	Per kg	11.18	12.80	13.07	13.98	12.83	12.79	12.69
Kurau (cut)	Per kg	25.40	38.03	37.60	38.11	36.29	35.83	37.95
Gold Banded Scad (kuning)	Per kg	5.24	5.59	5.43	5.83	5.52	5.55	5.37
Spanish Mackerel (tenggiri)	Per kg	7.31	8.31	8.92	9.10	8.29	8.49	8.75
Golden Snapper	Per kg	na	na	na	na	13.93	12.93	13.33
Sea Bream (kerisi)	Per kg	na	6.14	6.51	6.93	6.31	6.43	6.58
Sea Bass	Per kg	9.92	12.60	11.23	11.29	9.59	10.06	10.12
Small Prawns	Per kg	10.78	12.05	11.87	12.43	12.30	12.41	12.70
Medium Prawns	Per kg	14.99	16.22	16.25	17.34	17.50	18.00	18.91
Large Prawns	Per kg	19.35	21.50	21.20	22.28	22.24	22.93	24.45
Squids	Per kg	4.99	7.31	7.33	7.57	7.34	7.18	6.74
Fish Balls	Per 10	0.99	1.05	1.05	1.06	1.06	1.06	1.05
Milk & Eggs								
Fresh Milk	1 litre pkt	3.07	2.57	2.54	2.54	2.56	2.46	2.43
Condensed Milk	397 g tin	1.13	1.03	1.01	1.02	1.03	1.02	1.00
Infant Milk Powder	1 kg tin	12.78	17.16	17.24	17.84	18.82	19.19	19.29
Milk Powder	2 kg tin	18.04	17.09	16.95	17.39	17.26	16.25	15.40
Ice-cream	1.5 litre tub	5.29	5.57	5.51	5.49	5.44	5.43	5.17
Hen Eggs	Per 10	1.45	1.34	1.58	1.55	1.47	1.51	1.51

(continued on next page)

Note : Prices may not be strictly comparable with those published earlier due to changes in specifications.

19.4 RETAIL PRICES OF FOOD AND GROCERIES (continued)

Dollars								
Item	Unit	1990	1995	1996	1997	1998	1999	2000
Oils								
Cooking Oil	2 kg bottle	3.66	4.21	4.18	4.13	4.18	4.23	3.92
Corn Oil	2 kg bottle	5.94	5.88	5.87	5.91	6.13	6.05	5.96
Vegetables								
Cabbage	Per kg	1.64	1.91	1.88	1.83	1.85	1.75	1.71
Spinach (bayam)	Per kg	1.82	2.02	1.97	1.88	2.15	2.18	2.11
Small Mustard	Per kg	2.21	2.15	2.17	2.04	2.35	2.35	2.26
Kale	Per kg	3.42	3.02	2.78	2.80	3.33	3.16	3.12
Broccoli	Per kg	6.05	5.82	5.51	5.50	5.08	4.86	4.89
Long Beans	Per kg	2.01	2.52	2.56	2.62	2.75	2.76	2.74
Tomatoes	Per kg	2.21	2.51	2.65	2.63	2.74	2.65	2.56
Potatoes	Per kg	1.09	1.09	1.13	1.10	1.17	1.36	1.18
Large Onions	Per kg	1.03	1.04	1.06	1.07	1.84	1.65	1.20
Garlics	Per kg	3.39	2.97	3.05	3.22	3.65	3.44	2.75
Carrots	Per kg	2.03	2.05	2.00	1.99	2.03	2.00	1.97
Dried Mushrooms	100 g	7.84	7.57	7.70	7.55	7.60	7.65	7.36
Fruits								
Papaya	Per kg	1.00	1.10	1.20	1.16	1.25	1.13	1.12
Bananas (emas)	Per kg	1.27	1.30	1.33	1.32	1.32	1.31	1.31
Watermelon	Per kg	1.36	1.40	1.42	1.37	1.35	1.30	1.32
Orange	Each	0.28	0.32	0.33	0.33	0.33	0.34	0.33
Apple	Each	0.35	0.34	0.34	0.33	0.33	0.33	0.33
Grapes	Per kg	6.41	6.64	6.68	6.78	6.70	6.98	6.62
Pear	Each	0.65	0.67	0.67	0.66	0.70	0.71	0.68
Miscellaneous								
Sugar	2 kg pkt	2.37	2.01	2.02	2.00	1.92	1.86	1.74
Coffee Powder	Per kg	10.70	11.75	11.75	11.75	11.75	11.75	11.75
Instant Coffee	200 g bottle	8.23	7.81	7.88	8.03	8.64	7.99	7.85
Food Beverage	400 g tin	3.62	3.19	3.17	3.21	3.30	3.22	3.14
Aerated Soft Drinks	330 ml can	0.53	0.58	0.55	0.55	0.54	0.54	0.54
Chocolate	100 g bar	1.99	1.77	1.75	1.75	1.72	1.79	1.79

19.5

DOMESTIC SUPPLY PRICE INDEX

(1995=100)

Item	Weights ¹	1990	1995	1996	1997	1998	1999	2000
All Items	10,000	114.5	100.0	97.0	93.1	90.1	92.0	101.3
Food	305	103.5	100.0	101.9	102.9	105.1	105.4	103.3
Live animals	21	111.4	100.0	113.4	107.0	100.2	130.1	121.8
Meat & meat preparations	30	106.2	100.0	101.8	99.0	100.9	102.4	101.1
Dairy produce & eggs	31	109.7	100.0	105.5	100.4	101.1	99.7	101.4
Fish & fish preparations	44	89.8	100.0	99.2	109.5	105.7	103.0	108.2
Cereals & cereal preparations	47	104.7	100.0	102.8	109.8	110.8	105.2	107.2
Vegetables & fruits	45	102.1	100.0	99.0	94.6	100.5	105.5	94.2
Sugar & sugar preparations	18	119.7	100.0	98.1	94.0	95.7	82.5	81.9
Coffee etc & spices	34	107.3	100.0	99.8	105.8	119.8	112.1	102.2
Animal feeding stuff	4	102.3	100.0	101.0	105.4	109.6	108.9	106.1
Miscellaneous food preparations	31	97.6	100.0	101.5	100.8	103.3	106.2	108.9
Beverages & Tobacco	62	88.1	100.0	101.7	101.8	105.4	104.5	105.1
Beverages	44	92.5	100.0	100.3	98.9	99.0	98.8	97.6
Tobacco & manufactures	18	83.5	100.0	105.3	109.0	121.2	118.9	123.9
Crude Materials	96	98.5	100.0	102.0	100.7	91.4	83.6	86.3
Hides, skins & furskins raw	1	na	100.0	109.1	102.1	93.0	89.6	108.0
Oil seeds, nuts & kernels	3	103.2	100.0	103.6	117.0	107.6	89.5	94.1
Crude rubber incl synthetic	6	71.6	100.0	88.0	67.8	52.8	49.2	52.4
Cork & wood	18	81.5	100.0	97.3	97.1	96.1	97.4	104.6
Pulp & waste paper	1	na	100.0	66.0	53.6	71.4	78.1	109.0
Textile fibres & waste	3	117.3	100.0	134.4	133.7	117.2	119.2	116.5
Crude fertilizers & minerals	44	119.3	100.0	107.3	107.0	89.5	71.0	69.1
Metallic ores & scrap	10	119.9	100.0	92.4	93.4	94.4	95.5	99.2
Crude materials nec	10	99.9	100.0	97.8	97.5	102.2	112.2	122.6
Mineral Fuels	1,279	146.8	100.0	112.0	113.3	89.0	116.6	181.7
Petroleum & products	1,262	147.0	100.0	112.1	113.2	88.6	116.1	181.5
Gas	17	108.6	100.0	105.2	118.9	119.9	154.5	202.3
Animal & Vegetable Oils	49	65.6	100.0	91.6	91.4	104.9	95.5	80.8
Vegetable oil unprocessed	22	63.5	100.0	96.2	94.4	103.6	100.2	90.2
Other animal & vegetable oils	27	68.2	100.0	87.9	89.0	106.0	91.5	73.1

(continued on next page)

- 1 The weight for each commodity item is proportional to the value of its total supply or availability in the domestic market in 1995.

19.5 DOMESTIC SUPPLY PRICE INDEX (continued)

(1995=100)

Item	Weights ¹	1990	1995	1996	1997	1998	1999	2000
Chemicals & Chemical Products	672	110.0	100.0	94.4	93.1	91.4	94.1	99.8
Organic chemicals	119	110.5	100.0	87.0	89.4	80.1	86.2	103.3
Inorganic chemicals	40	115.1	100.0	99.4	94.7	97.2	96.6	94.3
Dyes & colours	53	106.8	100.0	99.2	96.8	95.9	96.9	94.1
Medicinal products	90	97.4	100.0	98.1	92.4	92.8	93.1	94.9
Perfume, toilet preparations	43	106.7	100.0	98.6	98.0	100.5	99.0	96.4
Plastics in primary forms	130	102.1	100.0	90.6	92.7	87.3	87.4	96.4
Plastics in non-primary forms	43	110.0	100.0	90.6	91.1	90.7	92.0	93.6
Chemical products nec	154	116.1	100.0	98.0	94.2	97.2	104.2	108.9
Manufactured Goods	1,204	103.2	100.0	98.4	96.5	95.6	91.4	93.4
Leather products nec	3	96.8	100.0	100.8	103.1	99.6	89.3	86.7
Rubber manufactures nec	31	93.2	100.0	97.9	96.9	98.8	95.3	95.5
Wood & cork manufactures	28	94.6	100.0	99.5	96.6	85.1	93.4	94.8
Paper manufactures	146	98.9	100.0	96.4	92.7	96.6	98.2	104.9
Textile manufactures	89	114.8	100.0	98.9	99.9	100.1	97.0	97.8
Non-metal mineral manufactures	229	100.6	100.0	102.5	100.8	90.7	78.4	77.8
Iron & steel	235	110.6	100.0	99.0	96.8	99.2	93.7	95.5
Non-ferrous metals	144	100.8	100.0	91.3	90.8	90.2	85.1	91.4
Metal manufactures	299	98.0	100.0	99.0	96.6	98.0	97.1	97.5
Machinery & Transport								
Equipment	5,357	114.0	100.0	93.2	86.5	87.1	85.0	85.8
Power generating machinery	163	112.5	100.0	90.1	87.2	90.2	90.0	90.9
Industrial machinery	187	89.8	100.0	92.5	98.1	97.6	97.8	90.5
Metalworking machinery	44	84.2	100.0	93.0	90.5	93.5	99.1	102.5
General industrial machinery	297	94.5	100.0	98.0	96.3	99.4	102.3	104.6
Office & data machines	1,651	124.8	100.0	91.9	83.4	82.9	77.0	68.3
Telecommunications apparatus	652	107.8	100.0	97.1	95.6	96.1	94.3	95.5
Electrical machinery nec	2,222	131.1	100.0	92.4	83.3	84.1	83.2	91.2
Road vehicles	141	88.6	100.0	96.3	92.7	95.0	100.7	103.2
Miscellaneous Manufactures	976	103.8	100.0	96.2	94.4	93.7	92.8	93.1
Prefab building, sanitary, lighting	15	99.7	100.0	97.8	97.9	96.2	94.9	93.7
Furniture, bedding, mattresses	67	95.4	100.0	99.0	100.5	96.8	94.0	93.7
Travel goods	22	102.0	100.0	96.7	95.9	101.0	105.2	104.6
Clothing	123	102.6	100.0	103.0	99.7	102.2	103.2	100.6
Footwear	17	108.5	100.0	100.8	103.7	104.6	103.3	105.0
Scientific instruments	166	92.8	100.0	97.5	99.6	100.2	102.7	104.2
Photographic apparatus	98	102.7	100.0	99.4	98.6	99.4	97.6	99.2
Miscellaneous mfd articles nec	468	108.7	100.0	92.6	88.8	86.8	84.4	84.8

19.6

SINGAPORE MANUFACTURED PRODUCTS PRICE INDEX

(1995=100)

Item	Weights ¹	1990	1995	1996	1997	1998	1999	2000
All Items	10,000	123.7	100.0	94.8	87.1	83.4	83.0	88.5
Food	170	101.7	100.0	100.2	102.4	107.8	104.9	102.5
Meat & meat preparations	16	102.1	100.0	102.3	100.7	99.0	104.0	103.8
Dairy produce & eggs	20	108.5	100.0	100.0	99.3	100.3	96.0	96.1
Fish & fish preparations	4	83.3	100.0	100.2	138.0	137.5	139.6	124.5
Cereals & cereal preparations	37	94.7	100.0	101.3	101.3	101.4	98.5	98.9
Vegetables & fruits	8	99.7	100.0	102.1	100.9	100.5	99.4	99.0
Sugar & sugar preparations	14	116.5	100.0	96.2	89.9	90.7	82.8	85.0
Coffee etc & spices	43	111.6	100.0	99.6	109.2	128.3	121.3	112.3
Animal feeding stuff	6	102.4	100.0	99.3	101.8	106.3	104.4	100.4
Miscellaneous food preparations	22	92.5	100.0	100.6	96.6	99.9	101.5	102.8
Beverages & Tobacco	66	77.9	100.0	100.6	101.4	104.0	102.5	105.1
Beverages	35	90.0	100.0	101.1	99.9	98.7	97.9	96.9
Tobacco & manufactures	31	64.1	100.0	99.9	103.3	110.2	107.8	114.7
Crude Materials	53	92.9	100.0	102.8	100.4	93.1	87.9	90.3
Hides, skins & furskins raw	2	na	100.0	92.7	92.0	97.9	97.9	98.3
Cork & wood	10	90.8	100.0	100.4	101.0	101.4	101.4	113.7
Crude fertilizers & minerals	20	120.6	100.0	111.4	113.5	93.2	78.5	75.0
Metallic ores & scrap	19	120.0	100.0	96.2	87.4	88.6	89.0	92.9
Crude materials nec	2	127.7	100.0	96.5	93.3	90.4	96.5	97.2
Mineral Fuels	1,164	159.8	100.0	113.0	115.3	96.6	116.2	172.6
Petroleum & products	1,099	161.3	100.0	113.4	115.1	95.3	114.0	170.8
Gas	65	97.1	100.0	105.2	118.9	119.9	154.5	202.3
Animal & Vegetable Oils	61	84.4	100.0	96.6	101.5	108.5	111.4	103.3
Vegetable oil unprocessed	36	89.0	100.0	98.8	111.2	116.8	122.6	115.7
Other animal & vegetable oils	25	79.4	100.0	93.7	87.9	96.7	95.8	85.8

(continued on next page)

1 Based on 1995 production value of the commodity item.

19.6 SINGAPORE MANUFACTURED PRODUCTS PRICE INDEX (continued)

(1995=100)

Item	Weights ¹	1990	1995	1996	1997	1998	1999	2000
Chemicals & Chemical Products	602	108.4	100.0	93.0	94.7	87.8	90.7	99.7
Organic chemicals	135	113.2	100.0	86.3	96.6	75.1	87.6	115.1
Inorganic chemicals	24	119.2	100.0	103.2	97.1	97.7	94.8	92.7
Dyes & colours	55	100.1	100.0	100.6	101.4	101.1	102.5	98.4
Medicinal products	75	100.8	100.0	99.5	92.7	93.5	94.1	96.5
Perfume, toilet preparations	29	109.4	100.0	97.8	99.2	97.4	96.9	97.5
Plastics in primary forms	167	113.3	100.0	87.3	88.8	81.6	83.5	93.0
Plastics in non-primary forms	24	109.1	100.0	95.3	95.5	94.2	93.5	95.6
Chemical products nec	93	105.3	100.0	98.8	97.9	97.5	94.4	96.0
Manufactured Goods	883	106.4	100.0	99.7	96.9	93.5	88.0	87.3
Rubber manufactures nec	14	113.7	100.0	102.6	103.7	106.3	106.0	108.6
Wood & cork manufactures	17	94.9	100.0	100.2	99.6	98.6	98.1	100.6
Paper manufactures	98	96.8	100.0	100.6	97.6	95.9	93.5	96.1
Textile manufactures	46	121.6	100.0	98.2	97.8	96.4	93.0	91.8
Non-metal mineral manufactures	164	98.1	100.0	103.7	99.5	81.8	65.9	64.7
Iron & steel	193	126.6	100.0	99.7	96.2	97.7	92.0	88.7
Non-ferrous metals	98	130.4	100.0	92.9	92.2	88.8	86.2	87.6
Metal manufactures	253	105.1	100.0	99.3	96.7	97.2	95.2	94.6
Machinery & Transport								
Equipment	6,412	132.9	100.0	90.4	78.3	76.9	73.4	70.9
Power generating machinery	77	101.5	100.0	98.8	101.5	104.3	112.8	115.4
Industrial machinery	95	97.5	100.0	97.9	94.7	92.4	91.4	90.6
Metalworking machinery	14	103.9	100.0	98.6	97.2	92.2	90.1	82.8
General industrial machinery	191	110.4	100.0	99.7	96.1	98.0	100.2	102.1
Office & data machines	3,255	177.2	100.0	85.5	68.2	67.7	62.3	55.2
Telecommunication apparatus	889	111.2	100.0	96.3	92.6	90.3	83.8	83.9
Electrical machinery nec	1,843	124.2	100.0	94.0	85.0	81.9	81.5	85.2
Road vehicles	48	120.4	100.0	99.4	99.3	99.3	110.9	111.8
Miscellaneous Manufactures	589	108.6	100.0	98.6	95.2	95.4	95.0	95.8
Prefab building, sanitary, lighting	11	92.9	100.0	99.0	98.1	93.4	87.5	86.8
Furniture, bedding, mattresses	46	90.4	100.0	99.9	99.8	97.0	97.4	97.7
Travel goods	3	99.2	100.0	96.7	94.9	94.5	94.4	93.3
Clothing	57	102.1	100.0	101.6	97.3	100.9	99.2	95.6
Footwear	3	105.0	100.0	100.9	101.7	101.6	99.6	99.3
Scientific instruments	72	113.4	100.0	102.4	100.4	103.4	102.8	104.0
Photographic apparatus	26	99.2	100.0	98.0	96.6	96.7	93.6	89.7
Miscellaneous mfd articles nec	371	116.3	100.0	97.3	93.1	92.7	92.8	94.8

19.7

IMPORT PRICE INDEX

(1995=100)

Item	Weights ¹	1990	1995	1996	1997	1998	1999	2000
All Items	10,000	110.4	100.0	96.1	92.8	92.0	93.5	101.9
Food	337	101.3	100.0	100.7	104.2	108.6	109.2	105.1
Live animals	22	111.4	100.0	113.4	106.9	100.2	130.0	121.7
Meat & meat preparations	22	107.8	100.0	102.1	99.6	103.7	103.8	102.4
Dairy produce & eggs	28	109.1	100.0	107.7	101.1	101.5	100.0	103.1
Fish & fish preparations	67	92.4	100.0	100.6	108.4	104.3	100.7	110.9
Cereals & cereal preparations	30	113.4	100.0	102.5	111.9	112.8	107.2	110.1
Vegetables & fruits	73	105.5	100.0	98.9	96.8	106.0	112.1	100.2
Sugar & sugar preparations	13	118.4	100.0	101.2	98.5	100.6	84.1	81.1
Coffee etc & spices	54	89.4	100.0	93.2	109.3	128.2	122.4	101.6
Animal feeding stuff	3	101.9	100.0	104.1	111.7	115.1	116.7	116.1
Miscellaneous food preparations	25	103.3	100.0	99.6	101.1	103.9	106.0	107.0
Beverages & Tobacco	115	96.6	100.0	100.6	103.2	111.2	112.2	112.6
Beverages	49	92.8	100.0	98.4	97.8	97.7	98.4	97.8
Tobacco & manufactures	66	99.1	100.0	102.3	107.2	121.1	122.5	123.7
Crude Materials	176	80.8	100.0	98.8	92.5	81.1	75.3	79.4
Hides, skins undressed	2	76.2	100.0	109.1	102.1	93.0	89.6	108.0
Oil seeds, nuts, kernels	7	102.8	100.0	105.6	117.9	107.6	89.6	93.7
Crude rubber incl synthetic	55	66.7	100.0	86.6	68.6	51.8	47.0	51.7
Cork & wood	29	80.1	100.0	97.3	99.1	96.2	96.4	103.9
Pulp & waste paper	3	na	100.0	66.0	53.6	71.4	78.1	109.0
Textile fibres & waste	10	112.0	100.0	150.3	146.9	115.7	117.0	115.2
Crude fertilizers & minerals	41	117.3	100.0	106.4	105.6	88.9	69.9	68.5
Metallic ores & scrap	10	125.9	100.0	89.5	90.8	89.3	90.5	95.6
Crude materials nec	19	101.3	100.0	99.7	91.5	93.8	99.7	105.8
Mineral Fuels	852	143.9	100.0	109.9	112.9	87.0	119.1	189.1
Petroleum & products	852	143.9	100.0	109.9	112.9	87.0	119.1	189.1
Animal & Vegetable Oils	43	63.8	100.0	86.3	89.2	109.5	90.2	67.5
Vegetable oil unprocessed	18	61.4	100.0	90.9	88.2	103.1	94.2	73.4
Other animal & vegetable oils	25	66.8	100.0	82.9	89.8	114.1	87.3	63.2

(continued on next page)

¹ Based on value of the commodity item imported in 1995.

19.7 IMPORT PRICE INDEX (continued)

(1995=100)

Item	Weights ¹	1990	1995	1996	1997	1998	1999	2000
Chemicals & Chemical Products	651	109.9	100.0	94.9	93.2	95.2	95.9	99.4
Organic chemicals	137	107.8	100.0	88.3	83.0	86.7	84.5	92.8
Inorganic chemicals	33	110.9	100.0	96.6	93.0	98.5	97.7	96.2
Dyes & colours	41	112.0	100.0	95.5	91.8	93.9	93.2	91.6
Medicinal products	53	97.3	100.0	94.5	95.5	94.9	93.4	90.7
Perfume, toilet preparations	64	106.6	100.0	99.0	98.0	102.0	99.6	95.9
Plastics in primary forms	113	101.3	100.0	96.9	102.1	99.2	96.5	103.3
Plastics in non-primary forms	41	111.6	100.0	89.4	90.4	90.1	92.1	95.1
Chemical products nec	169	117.0	100.0	98.2	94.1	97.8	105.5	109.8
Manufactured Goods	1,148	103.0	100.0	96.9	95.7	97.4	94.1	98.0
Leather products nec	9	97.0	100.0	100.8	103.1	99.6	89.3	86.7
Rubber manufactures nec	47	91.5	100.0	97.4	96.2	99.1	92.0	90.9
Wood & cork manufactures	28	94.0	100.0	99.2	94.0	78.5	89.1	89.0
Paper manufactures	101	99.0	100.0	90.2	88.4	96.6	100.7	111.2
Textile manufactures	183	113.8	100.0	100.4	100.2	100.8	99.4	101.0
Non-metal mineral manufactures	156	102.7	100.0	99.9	100.0	99.4	92.2	91.7
Iron & steel	224	106.2	100.0	98.8	96.0	99.2	92.3	97.3
Non-ferrous metals	227	106.2	100.0	91.1	90.3	91.3	84.8	92.4
Metal manufactures	173	90.7	100.0	98.7	97.6	100.7	102.2	104.8
Machinery & Transport								
Equipment	5,652	110.3	100.0	93.5	87.8	89.4	88.2	91.5
Power generating machinery	253	111.0	100.0	92.1	90.1	94.6	94.5	97.7
Industrial machinery	334	88.2	100.0	94.4	101.1	100.5	101.3	96.2
Metalworking machinery	62	82.8	100.0	94.1	92.9	99.2	105.5	109.6
General industrial machinery	415	91.2	100.0	97.6	96.3	99.9	101.8	104.2
Office & data machines	1,091	120.4	100.0	94.5	87.3	87.6	82.6	75.9
Telecommunications apparatus	798	107.2	100.0	95.5	92.8	93.2	92.8	92.1
Electrical machinery nec	2,473	132.9	100.0	91.3	82.2	84.4	82.9	93.3
Road vehicles	226	86.3	100.0	97.3	93.8	95.7	100.9	103.4
Miscellaneous Manufactures	1,026	103.7	100.0	96.7	95.9	96.1	95.3	95.6
Prefab building, sanitary, lighting	20	102.8	100.0	97.2	97.7	96.8	97.7	96.8
Furniture, bedding, mattresses	37	103.6	100.0	99.1	101.0	96.6	96.3	95.6
Travel goods	25	102.2	100.0	96.9	96.1	101.5	106.0	105.4
Clothing	142	104.9	100.0	103.3	100.7	101.9	106.1	103.9
Footwear	25	109.6	100.0	100.4	103.0	103.7	102.8	104.8
Scientific instruments	198	92.5	100.0	95.1	96.9	99.6	101.9	102.5
Photographic apparatus	200	104.2	100.0	99.4	99.0	98.9	97.6	99.8
Miscellaneous mfd articles nec	379	108.8	100.0	93.0	91.0	89.8	85.2	85.3

19.8

EXPORT PRICE INDEX

(1995=100)

Item	Weights ¹	1990	1995	1996	1997	1998	1999	2000
All Items	10,000	122.7	100.0	95.6	90.2	89.2	89.8	95.0
Food	214	101.0	100.0	98.1	105.2	112.4	108.2	105.3
Dairy produce & eggs	11	114.1	100.0	102.6	105.6	106.8	105.1	106.2
Fish & fish preparations	48	97.5	100.0	98.8	107.2	106.2	105.9	119.9
Cereals & cereal preparations	18	102.4	100.0	103.6	104.6	108.6	108.9	109.0
Vegetables & fruits	37	117.1	100.0	101.5	98.6	100.7	97.2	90.5
Sugar & sugar preparations	6	107.7	100.0	106.5	106.0	108.9	98.4	100.1
Coffee etc & spices	61	91.2	100.0	92.2	110.5	132.0	124.4	108.0
Animal feeding stuff	8	122.5	100.0	97.2	97.1	96.5	91.6	91.0
Miscellaneous food preparations	25	96.6	100.0	98.7	100.8	104.8	97.9	95.6
Beverages & Tobacco	133	101.2	100.0	98.7	98.2	101.5	103.2	104.4
Beverages	51	101.7	100.0	97.2	93.8	98.9	100.9	104.7
Tobacco & manufactures	82	100.9	100.0	99.6	101.0	103.2	104.6	104.2
Crude Materials	145	79.7	100.0	88.7	81.5	71.6	68.9	78.1
Hides, skins undressed	1	126.6	100.0	119.4	114.7	113.8	102.0	148.5
Oil seeds, nuts, kernels	6	122.2	100.0	101.7	114.0	110.7	105.0	108.4
Crude rubber incl synthetic	62	66.1	100.0	86.4	68.3	52.5	46.4	50.7
Cork & wood	18	77.8	100.0	108.8	109.6	103.1	105.5	109.9
Pulp & waste paper	11	76.2	100.0	56.8	52.1	48.6	57.6	76.5
Metallic ores & scrap	29	116.6	100.0	85.8	86.1	75.3	71.3	82.8
Crude materials nec	18	110.1	100.0	93.2	95.5	97.0	97.2	118.0
Mineral Fuels	833	161.6	100.0	116.7	112.0	87.5	110.0	173.4
Petroleum & products	821	162.1	100.0	116.8	112.1	87.6	110.1	173.3
Gas	12	117.2	100.0	107.1	103.3	82.0	104.5	176.3
Animal & Vegetable Oils	40	80.7	100.0	91.8	90.4	107.9	86.0	72.4
Vegetable oil unprocessed	16	81.7	100.0	93.9	90.8	109.5	92.6	76.1
Other animal & vegetable oils	24	79.7	100.0	90.3	90.2	106.9	81.7	70.0

(continued on next page)

1 Based on value of the commodity item exported in 1995.

19.8

EXPORT PRICE INDEX (continued)

(1995=100)

Item	Weights ¹	1990	1995	1996	1997	1998	1999	2000
Chemicals & Chemical Products	641	114.7	100.0	92.6	94.6	94.0	95.7	107.2
Organic chemicals	214	126.3	100.0	91.3	91.1	85.0	84.7	98.6
Inorganic chemicals	22	108.6	100.0	95.5	95.6	103.9	105.1	106.5
Dyes & colours	50	124.1	100.0	95.4	94.5	101.1	98.1	98.8
Medicinal products	52	112.1	100.0	100.1	102.6	104.0	95.0	94.2
Perfume, toilet preparations	58	113.9	100.0	96.4	99.1	98.7	105.6	107.9
Plastics in primary forms	129	114.9	100.0	85.4	84.7	79.2	79.7	91.6
Plastics in non-primary forms	25	103.8	100.0	96.5	105.4	105.9	103.8	108.5
Chemical products nec	91	99.4	100.0	96.2	106.1	118.2	132.3	160.8
Manufactured Goods	695	109.4	100.0	98.3	98.8	100.0	97.0	97.9
Leather products nec	8	90.4	100.0	97.7	98.1	98.0	99.8	99.4
Rubber manufactures nec	35	105.7	100.0	100.1	105.4	108.1	106.7	106.6
Wood & cork manufactures	18	97.9	100.0	98.5	99.7	94.6	98.9	102.0
Paper manufactures	51	96.3	100.0	100.7	100.9	108.1	108.1	107.7
Textile manufactures	141	123.9	100.0	97.9	96.2	94.9	90.2	87.8
Non-metal mineral manufactures	64	98.4	100.0	98.6	99.8	102.9	101.9	104.8
Iron & steel	87	115.2	100.0	96.5	93.1	93.2	86.9	91.6
Non-ferrous metals	163	115.4	100.0	96.5	99.4	100.4	96.3	99.5
Metal manufactures	128	103.7	100.0	100.4	101.4	103.6	102.2	101.0
Machinery & Transport								
Equipment	6,520	125.5	100.0	92.5	84.6	85.7	84.2	82.7
Power generating machinery	179	102.3	100.0	104.8	104.7	113.3	111.6	111.5
Industrial machinery	274	101.2	100.0	100.0	102.7	112.7	110.5	115.4
Metalworking machinery	44	97.0	100.0	107.3	107.4	104.4	104.1	105.1
General industrial machinery	359	106.9	100.0	97.8	98.2	101.6	103.9	104.5
Office & data machines	2,327	162.6	100.0	88.2	77.0	75.4	70.4	65.8
Telecommunication apparatus	1,108	119.5	100.0	96.5	96.0	104.7	111.0	114.3
Electrical machinery nec	2,085	110.8	100.0	91.4	78.4	76.6	73.9	71.8
Road vehicles	144	125.7	100.0	101.5	109.0	104.3	109.6	110.9
Miscellaneous Manufactures	779	109.5	100.0	99.0	98.7	101.0	100.7	101.0
Prefab building, sanitary, lighting	13	111.0	100.0	98.7	98.7	101.4	100.9	114.6
Furniture, bedding, mattresses	18	98.4	100.0	98.3	97.5	101.4	91.7	93.8
Travel goods	7	na	100.0	100.0	97.8	116.7	116.8	119.0
Clothing	122	103.8	100.0	98.5	99.6	101.1	98.1	97.6
Footwear	14	109.0	100.0	106.1	101.2	103.6	103.9	104.3
Scientific instruments	142	99.4	100.0	106.1	106.6	111.3	121.0	116.2
Photographic apparatus	159	116.6	100.0	98.4	102.7	106.1	102.6	103.2
Miscellaneous mfd articles nec	304	120.2	100.0	95.9	92.7	93.1	91.4	93.6

19.9 BUILDING MATERIALS PRICE INDEX

(1985=100)

Section	Weights ¹	1990	1995	1996	1997	1998	1999	2000
All Items	10,000	119.3	119.9	120.8	119.4	115.9	111.9	112.4
Timber & Wood Products	585	114.9	127.2	126.9	126.9	126.1	125.6	125.5
Concrete Ingredients								
(Granite)	872	105.4	95.4	102.5	99.4	91.8	83.6	83.5
Paints	292	114.4	126.0	124.9	125.0	125.4	125.8	125.7
Cement	1,338	143.9	136.2	141.7	138.6	127.6	110.0	109.4
Bricks & Concrete Blocks	2,076	106.3	115.7	115.5	115.1	114.0	112.8	113.0
Tiles	952	113.7	113.7	111.7	111.7	111.7	111.7	111.7
Iron & Steel Products	1,764	122.9	105.2	102.5	100.7	100.6	96.9	97.5
Cables	646	126.7	123.1	121.2	120.6	116.0	114.0	118.4
Sanitary & Plumbing								
Fixtures	69	104.1	107.4	107.5	107.6	107.8	107.8	107.8
Others	1,406	123.2	143.1	145.9	144.3	138.5	139.5	141.0

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.

1 Based on the 1984 distribution pattern of building materials.

19.10 PRICE INDICES OF SELECTED FARM PRODUCTS

(1997=100)

Farm Product	1990	1995	1996	1997	1998	1999	2000
Pigs	92.4	88.8	112.9	100.0	96.7	134.6	144.4
Chickens	105.3	100.3	102.4	100.0	95.4	95.3	89.5
Ducks	119.3	99.6	101.8	100.0	96.6	96.9	87.0
Hen Eggs	104.8	85.2	110.1	100.0	90.4	101.4	100.9
Fresh Fish ¹	80.3	92.0	101.2	100.0	84.8	95.5	99.5
Fresh Prawns	92.1	96.4	99.1	100.0	91.5	102.5	103.9
Leafy Vegetables	123.1	121.5	104.7	100.0	104.1	104.6	97.1
Orchid Flowers	na	na	na	100.0	91.8	97.7	108.7

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.

19.11 PRODUCE PRICES

	1990	1995	1996	1997	1998	1999	2000
Rubber (Cents per kg, fob)							
Ribbed Smoked Sheet							
Int 2	153.98	227.73	199.09	149.08	120.18	106.34	116.82
Int 3	148.94	227.05	199.09	149.02	120.18	106.34	116.82
Int 4	144.96	221.80	193.84	144.39	115.93	102.51	113.07
Thin Pale Crepe							
Int 1	231.11	286.17	259.84	212.56	174.12	156.76	168.54
Int 9	237.11	292.17	265.84	218.55	180.12	162.76	174.54
SSR 20	141.30	223.54	188.90	150.39	116.20	105.00	113.17
SSR 50	139.30	221.54	186.90	148.39	114.20	103.00	111.17
Pepper (\$ per 100 kg, fob)							
Black Lampong	321.47	357.04	326.96	625.18	843.18	869.81	761.23
White Muntok Genuine	335.81	519.83	503.91	914.01	1,154.51	1,144.48	745.90
Coffee AP1 (\$ per 100 kg, fob)	201.75	425.50	289.79	327.27	386.35	355.67	206.42
Crude Coconut Oil (\$ per 100 kg, fob)							
(in Drums)	74.91	112.14	120.83	110.58	116.94	134.95	113.33
Tin (RM/kg, fob)	16.44	15.35	15.34	15.54	21.18	20.09	20.45

Source : Singapore Commodity Exchange

Chinese Produce Exchange

Note : Int = International

SSR = Singapore Specified Rubber

AP1 = After Polished Grade 1

RM = Ringgit Malaysia

19.12

PRIVATE PROPERTY PRICE INDEX BY TYPE OF PROPERTY

(4th Quarter 1998 =100)

Type of Property	1990	1995	1996	1997	1998	1999	2000
Residential	57.7	157.9	175.9	160.4	118.3	121.3	137.1
Landed	55.4	181.4	188.4	171.2	122.8	122.3	136.4
Detached	51.9	199.6	206.3	188.6	127.3	122.3	135.5
Semi-detached	51.9	167.9	175.0	164.5	121.8	120.1	137.2
Terrace	61.3	176.0	183.2	161.3	119.7	123.5	136.7
Non-landed	59.5	138.8	165.7	151.7	114.6	120.9	137.3
Apartment	64.3	150.2	172.6	154.5	115.4	118.9	137.0
Condominium	57.5	134.2	162.9	150.5	114.3	121.6	137.4
Commercial							
Office Space	94.1	153.7	161.9	147.8	117.8	93.3	116.6
Shop Space	112.7	139.9	145.8	134.1	112.2	91.1	99.3
Industrial	60.3	124.9	151.6	152.6	115.9	92.5	105.2
Multiple-user Factory	59.0	123.8	148.3	151.0	116.6	92.4	104.5
Multiple-user Warehouse	69.9	132.7	176.5	164.6	110.6	93.4	109.1

Source : Urban Redevelopment Authority

Note : The price index is computed based on the Laspeyres method before 4th Quarter 1998 and based on the Moving Average method from 4th Quarter 1998.

19.13

COMMERCIAL PROPERTY RENTAL INDEX BY TYPE OF PROPERTY

(1990=100)

Type of Property	Weights ¹	1990	1995	1996	1997	1998	1999	2000
Office Space								
Central Region	10,000	100.0	96.3	106.9	101.9	88.5	74.8	79.7
Central Area	8,469	100.0	97.5	106.1	101.3	88.6	74.8	79.9
Fringe Area	1,531	100.0	89.7	111.6	105.3	87.9	74.8	78.1
Shop Space								
Central Region	10,000	100.0	75.0	68.0	65.3	56.5	50.0	54.0
Central Area	9,227	100.0	76.0	68.5	65.7	56.8	50.1	54.2
Fringe Area	773	100.0	63.3	62.3	60.3	53.6	48.6	51.5

Source : Urban Redevelopment Authority

Note : Data refer to properties owned by the private sector.

1 Based on rental values in 1990.

EDUCATION

primary education in Singapore is compulsory for all children aged 6 to 12 years. The Ministry of Education (MOE) is responsible for the development and implementation of the national curriculum. The curriculum is designed to provide a broad-based education that equips students with the knowledge, skills, and values needed for life and work. The curriculum is divided into three main areas: Language, Mathematics, and Science. Language includes English and Mother Tongue. Mathematics includes Arithmetic and Algebra. Science includes Biology, Chemistry, and Physics. The curriculum is reviewed and updated regularly to ensure it remains relevant and effective. The MOE also oversees the assessment system, which includes the Primary School Leaving Examination (PSLE) at the end of primary school. The PSLE is a standardized test that assesses students' knowledge and skills in the core subjects. The results of the PSLE are used to allocate students to secondary schools. The MOE also provides support and resources for teachers and schools to ensure the quality of education. The MOE's commitment to excellence in education has led to Singapore's success in various international assessments, such as the Programme for International Student Assessment (PISA) and the Trends in International Mathematics and Science Study (TIMSS).

At the foundation stage, the emphasis is on basic literacy and numeracy skills. Fifty per cent of curriculum time is devoted to giving pupils a working knowledge of English and a good command of mother tongue and Mathematics. Science and Moral Education will be taught in the mother tongue. Pupils will also have Music, Art and Crafts and Science and Extra-curricular Activities. Science will be taught from Primary 3 onwards and Social Studies from Primary 4 onwards. At the end of Primary 4, pupils are placed in different language streams according to their abilities. At the end of Primary schooling, all pupils will take the Primary

School Leaving Examination (PSLE) at the purpose of which is to assess pupils' ability and place them in the appropriate secondary school. The PSLE is a standardized test that assesses students' knowledge and skills in the core subjects. The results of the PSLE are used to allocate students to secondary schools. The MOE also provides support and resources for teachers and schools to ensure the quality of education. The MOE's commitment to excellence in education has led to Singapore's success in various international assessments, such as the Programme for International Student Assessment (PISA) and the Trends in International Mathematics and Science Study (TIMSS).

Secondary education may take four or five years, depending on the ability of the student. The curriculum is designed to provide a broad-based education that equips students with the knowledge, skills, and values needed for life and work. The curriculum is divided into three main areas: Language, Mathematics, and Science. Language includes English and Mother Tongue. Mathematics includes Arithmetic and Algebra. Science includes Biology, Chemistry, and Physics. The curriculum is reviewed and updated regularly to ensure it remains relevant and effective. The MOE also oversees the assessment system, which includes the Primary School Leaving Examination (PSLE) at the end of primary school. The PSLE is a standardized test that assesses students' knowledge and skills in the core subjects. The results of the PSLE are used to allocate students to secondary schools. The MOE also provides support and resources for teachers and schools to ensure the quality of education. The MOE's commitment to excellence in education has led to Singapore's success in various international assessments, such as the Programme for International Student Assessment (PISA) and the Trends in International Mathematics and Science Study (TIMSS).

Every child in Singapore undergoes at least ten years of general education. A fundamental feature of Singapore's education system is the bilingual policy which ensures that each child learns both English and his mother tongue, so as to maintain an awareness of his cultural heritage whilst learning the skills to function in a modern economy.

Creative thinking skills and learning skills are essential for the future. The Ministry of Education has taken on the challenge to develop and expand our students' creative potential and instil in them the desire for continual learning. In addition, Information Technology will be 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.

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 will be taught in the mother tongue. Pupils will also have Music, Art and Crafts and Science, and participate in Physical Education and Extra-Curricular Activities. Science will be taught from Primary 3 onwards and Social Studies from Primary 4 onwards.

At the end of Primary Four, pupils are placed in different language streams according to their abilities. At the end of primary schooling, all pupils will take the Primary

School Leaving Examination (PSLE), the purpose of which is to assess 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 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 do 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 the General Certificate of Education 'Advanced' Level (GCE 'A' Level) Examination, the results of which determine their eligibility for tertiary education.

Pupils interested in technical and commercial studies can join the polytechnics for diploma courses or the Institute of Technical Education's for Industrial Technician Certificate, National Technical Certificate Grade 2, Certificate in Business Studies or Certificate in Office Skills 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 which provides pre-employment training for secondary school leavers and Continuing Education and Training (CET) for adult learners.

At ITE, full-time training and traineeship programmes are offered to school leavers. For adult learners, skills training and academic education programmes are offered. Employees can also undergo On-the-Job Training in companies which are Certified On-the-Job Training Centres. In addition, ITE conducts tests and examinations for public candidates and instructional skills and related programmes for industry trainers.

Full-time training is offered to secondary school leavers with GCE 'O' and 'N' qualifications in engineering, business and technical skills. The full-time courses lead to the award of the Industrial Technician Certificate (ITC), the National Technical Certificate Grade 2 (NTC-2), the Certificate in Business Studies (CBS), Certificate in Office Skills (COS) and the National Certificate in Nursing.

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 to which the apprentice is attached, usually on its premises. Off-JT could be provided by ITE, industry training centres or Approved Training Centres certified by ITE.

In skills training for adult learners, ITE offers a range of 121 NTC-2, NTC-3 and Certificate of Competency (CoC) modules grouped under 16 skills areas. These are collectively marketed under the Modular

Skills Training (MOST), a national training programme for working adults who wish to acquire a new skill or upgrade their existing skills. To cater to the needs of specific groups of workers, ITE also offers the Training Initiative for Mature Employees (TIME) and Adult Cooperative Training Scheme (ACTS). The TIME programme is designed for workers who are 40 years and above to take up NTC-3 courses. The Adult Cooperative Training Scheme (ACTS) is aimed at young working adults between the ages of 20 and 40.

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 or Mathematics 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 and/or Mathematics.
- ITE 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, NgeeAnn

Polytechnic, Temasek Polytechnic and Nanyang 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 seven faculties and two faculty-level schools, namely, Arts and Social Sciences; Business Administration; Dentistry; Engineering; Law; Medicine; Science; the School of Computing and School of Design and Environment.

All faculties offer courses leading to first degrees as well as higher degrees. There are also two graduate schools, namely, the Graduate School of Medical Studies and the Graduate School of Dental Studies.

Research is accorded top priority at the University. NUS has established specialist research institutes and centres. These include the Bioinformatics Centre, Centre for Management of Innovation and Technopreneurship, Chemical and Process Engineering Centre, Institute of Engineering Science, Institute for Mathematical Sciences, Medical Informatics Programme, National University Medical Institutes, Singapore Synchrotron Light Source, Temasek Laboratories, The Centre for Financial Engineering, The Logistics Institute – Asia Pacific, Tropical Marine Science Institute and the NSTB supported centres.

There are 10 national level research institutes and centres which are affiliated to the University, namely, Centre for Natural Product Research, Data Storage Institute, East Asian Institute, Institute of High Performance Computing, Institute of Molecular Agrobiolgy, Institute of Molecular and Cell Biology, Institute of Microelectronics, Institute of Materials Research and Engineering and Institute of Systems Science.

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 seven schools, namely, the Nanyang Business School, the Schools of Civil and Structural Engineering, Computer Engineering, Communication Studies, Electrical and Electronic Engineering, Materials Engineering, and Mechanical and Production Engineering. 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, 34 research centres have been set up. These include the Satellite Engineering Centre and the Global Positioning Systems Centre. With its focus on pioneering innovative and reliable homegrown technologies, NTU has more than 10 spin-off companies specialising in e-commerce, IT, electronics and manufacturing process. NTU also has links with over 170 overseas institutions with programme 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.

The Singapore Management University (SMU) is Singapore's first university to offer an American-style university education, being modeled on the Wharton School of the University of Pennsylvania.

SMU presently offers the Bachelor of Business Management (BBM) and the Bachelor in Accountancy (BAcc) degrees with several other relevant real-world degrees in the pipeline. It also offers MSc and PhD programmes by research.

The Open University: Since 1994, the Singapore Institute of Management has been appointed by the Ministry of Education to run the Open University Degree Programme (OUDP). The undergraduate programmes are accredited and examined to the standards maintained by the Open University in the United Kingdom (UKOU).

The OUDP offers courses leading to Bachelor's degrees majoring in English Language and Literature, Mathematics, Computer Science, Technology (Electronics) Psychology, Business Studies, Information Technology and Computing, and Chinese

Language and Literature. The OUDP also offers courses leading to Certificates and Diplomas under the Programme for Associate Student Studies (PASS) Scheme

Polytechnics: There are four polytechnics offering a wide range of courses at diploma and advanced diploma levels. They are the Singapore Polytechnic, NgeeAnn Polytechnic, Temasek Polytechnic and Nanyang Polytechnic. Each of the polytechnics specialises in specific fields, in addition to various basic engineering, general business and management and computing courses. The specialised fields include maritime studies, publishing, information technology and 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 the working adults.

Expenditure on Education

Education has been a major item of public expenditure, accounting for about 24.5 per cent of the total government recurrent expenditure. A substantial proportion of the cost of education is subsidised by the State.

20.1 ENROLMENT IN EDUCATIONAL INSTITUTIONS

	1995	1996	1997	1998	1999	2000
Total	557,062	574,639	595,444	605,679	622,372	634,611
Primary Schools	261,553	269,590	280,108	288,311	300,153	305,992
Secondary Schools	180,982	184,726	187,415	178,795	173,007	176,132
Pre-University ¹	21,690	22,032	22,419	23,692	25,032	24,975
Institute of Technical Education ²	9,476	8,233	9,906	13,337	16,390	15,974
Polytechnics ³	47,761	51,186	53,676	55,223	57,126	58,374
National Institute of Education	1,604	2,276	2,422	3,350	3,317	3,308
Universities ⁴	33,996	36,596	39,498	42,971	47,347	49,856

Source : Ministry of Education

Note : Figures for primary, secondary and pre-university exclude private schools.

1 Include Pre-U Centres, Centralised Institutes and Junior Colleges. Pre-U Centres were phased out in 1997.

2 For 2000, figure refers to full-time peak student enrolment. Prior to 2000, figures refer to full-time average student enrolment.

3 Refer to full-time and part-time diploma and advanced diploma students in Singapore Polytechnic, NgeeAnn Polytechnic, Temasek Polytechnic and Nanyang 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.

20.2 STUDENTS AND TEACHERS IN EDUCATIONAL INSTITUTIONS, 2000

	Instituti- ons ¹	Students			Teachers		
		Total	Males	Females	Total	Males	Females
Total	399	634,611	335,017	299,594	32,202	12,599	19,603
Primary Schools	201	305,992	158,430	147,562	12,287	2,478	9,809
Secondary Schools	163	176,132	91,955	84,177	9,462	3,349	6,113
Pre-University ²	17	24,975	11,377	13,598	1,878	795	1,083
Institute of Technical Education ³	10	15,974	11,631	4,343	1,257	914	343
Polytechnics ⁴	4	58,374	32,685	25,689	3,931	2,550	1,381
National Institute of Education	1	3,308	1,008	2,300	561	298	263
Universities ⁵	3	49,856	27,931	21,925	2,826	2,215	611

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, NgeeAnn Polytechnic, Temasek Polytechnic and Nanyang Polytechnic.

5 Include National University of Singapore, Nanyang Technological University and Singapore Management University.

20.3

ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED PRIMARY SCHOOLS BY LEVEL AND AGE

	1990	1995	1996	1997	1998	1999	Number 2000
Total	257,757	261,553	269,590	280,108	288,311	300,153	305,992
Level							
Primary 1	39,317	53,117	48,082	51,520	49,793	49,864	50,258
Primary 2	41,582	43,847	53,407	48,242	51,803	49,948	49,874
Primary 3	41,254	38,577	44,054	53,623	48,512	52,146	50,033
Primary 4	40,401	42,209	38,775	44,214	53,770	48,787	52,169
Primary 5	40,242	41,269	42,338	38,904	44,280	53,862	48,811
EM1	-	7,187	7,561	7,203	8,507	10,090	10,247
EM2	-	30,439	31,071	28,389	31,948	39,235	34,419
EM3	-	3,643	3,706	3,312	3,825	4,537	4,145
Primary 6	38,555	42,534	42,934	43,605	40,153	45,546	54,847
EM1	-	6,384	6,744	6,933	6,556	7,528	9,257
EM2	-	28,553	28,889	29,390	26,656	29,957	36,978
EM3	-	7,597	7,301	7,282	6,941	8,061	8,612
Primary 7	7,979	-	-	-	-	-	-
Primary 8	8,427	-	-	-	-	-	-
Age (in years)							
Under 7	39,047	52,655	47,515	50,868	49,074	49,169	49,673
7 & Under 8	41,322	43,467	53,060	47,851	51,353	49,412	49,463
8 & Under 9	41,075	38,083	43,685	53,251	48,067	51,626	49,475
9 & Under 10	40,250	41,912	38,237	43,821	53,413	48,287	51,560
10 & Under 11	40,058	40,970	42,077	38,397	43,918	53,664	48,321
11 & Under 12	39,058	40,012	41,060	42,144	38,435	43,972	53,670
12 & Under 13	9,942	2,887	2,600	2,493	2,529	2,436	2,430
13 & Under 14	6,714	1,418	1,189	1,069	1,186	1,227	1,047
14 & Over	291	149	167	214	336	360	353

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.

20.4

ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED SECONDARY SCHOOLS AND JUNIOR COLLEGES BY LEVEL AND AGE

	Number						
	1990	1995	1996	1997	1998	1999	2000
Total	189,756	202,672	206,758	209,834	202,487	198,039	201,107
Level							
Secondary 1	35,759	43,500	40,888	41,614	42,284	38,950	44,498
Special	2,354	4,127	3,980	4,049	4,139	3,782	4,233
Express	20,113	22,128	21,292	21,244	21,635	19,923	22,561
Normal (Academic)	13,292	9,985	8,932	9,344	9,673	8,925	9,864
Normal (Technical)	-	7,260	6,684	6,977	6,837	6,320	7,840
Secondary 2	37,781	53,968	43,768	40,965	41,639	42,540	39,126
Special	2,278	3,527	4,091	3,880	3,912	4,242	3,830
Express	22,336	25,326	22,311	21,507	21,478	21,771	19,920
Normal (Academic)	13,167	17,173	10,673	9,475	9,929	10,207	9,515
Normal (Technical)	-	7,942	6,693	6,103	6,320	6,320	5,861
Secondary 3	36,354	37,366	53,395	44,617	41,811	43,177	43,776
Special	2,228	2,937	3,523	3,870	3,815	4,352	4,393
Express	21,503	21,835	25,554	23,398	22,194	22,164	22,589
Normal (Academic)	12,623	12,594	16,935	11,019	10,031	10,573	10,732
Normal (Technical)	-	-	7,383	6,330	5,771	6,088	6,062
Secondary 4	39,097	36,238	36,283	50,478	42,548	40,058	41,287
Special	2,167	2,753	2,778	3,410	3,730	3,745	4,151
Express	23,733	20,670	21,257	24,270	22,199	21,253	21,295
Normal (Academic)	13,197	12,815	12,248	15,974	10,873	9,684	10,133
Normal (Technical)	-	-	-	6,824	5,746	5,376	5,708
Secondary 5	11,551	9,910	10,392	9,741	10,513	8,282	7,445
Normal (Academic)	11,551	9,910	10,392	9,741	10,513	8,282	7,445
Pre-University 1	2,532	611	409	325	444	497	402
Pre-University 2	2,327	926	539	305	272	371	437
Pre-University 3	2,260	1,033	882	516	298	249	277
Junior College 1	11,047	10,051	10,575	11,197	11,983	12,502	11,914
Junior College 2	11,048	9,069	9,627	10,076	10,695	11,413	11,945
Age (in years)							
Under 12	23	43	42	35	36	42	33
12 & Under 13	28,287	39,268	37,713	38,796	39,872	36,307	41,727
13 & Under 14	35,731	40,451	40,981	39,174	40,042	41,208	37,674
14 & Under 15	34,730	39,931	40,930	41,332	39,267	40,517	41,635
15 & Under 16	36,261	38,897	39,389	40,420	40,725	39,226	40,402
16 & Under 17	27,628	24,390	27,577	27,821	22,969	23,655	22,283
17 & Under 18	19,950	15,472	16,238	18,805	16,219	14,332	14,697
18 & Under 19	5,359	3,474	3,134	2,936	2,938	2,276	2,173
19 & Under 20	1,441	649	650	425	371	431	409
20 & Over	346	97	104	90	48	45	74

Source : Ministry of Education

20.5

PRIVATE REGULAR SCHOOLS, STUDENTS AND TEACHERS

	1990	1995	1996	1997	1998	1999	Number 2000
Schools	4	4	4	3	3	3	2
Students	1,878	1,085	1,059	1,118	1,032	991	783
Primary	175	95	98	90	94	73	67
Secondary	487	566	598	690	646	652	609
Pre-university	1,216	424	363	338	292	266	107
Teachers	71	57	56	50	48	65	57

Source : Ministry of Education

20.6

ENROLMENT AT PRIMARY, SECONDARY AND PRE-UNIVERSITY LEVELS IN
PRIVATE REGULAR SCHOOLS BY LEVEL

Level	1990	1995	1996	1997	1998	1999	Number 2000
Total	1,878	1,085	1,059	1,118	1,032	991	783
Primary	175	95	98	90	94	73	67
Primary 1	15	6	5	6	10	8	5
Primary 2	17	10	10	5	8	11	9
Primary 3	19	10	16	12	9	10	11
Primary 4	25	16	19	17	14	6	9
Primary 5	15	13	13	24	21	14	12
Primary 6	84	40	35	26	32	24	21
Secondary	487	566	598	690	646	652	609
Secondary 1	183	117	101	66	61	91	95
Secondary 2	114	120	77	77	54	84	112
Secondary 3	132	144	133	98	124	145	164
Secondary 4	58	185	287	449	407	332	238
Pre-university	1,216	424	363	338	292	266	107

Source : Ministry of Education

20.7 STUDENTS ADMITTED TO INSTITUTIONS OF HIGHER LEARNING BY SEX

	1995	1996	1997	1998	1999	Number 2000
FULL-TIME						
Polytechnics ¹	15,418	15,883	16,531	17,385	17,612	17,721
Males	8,413	8,592	8,797	9,210	9,325	9,324
Females	7,005	7,291	7,734	8,175	8,287	8,397
National Institute of Education ²	1,034	1,659	1,565	2,388	2,167	1,857
Males	296	458	478	693	600	551
Females	738	1,201	1,087	1,695	1,567	1,306
Universities ³	8,669	8,952	9,254	9,763	10,619	11,232
Males	4,068	4,300	4,487	4,892	5,256	5,470
Females	4,601	4,652	4,767	4,871	5,363	5,762
PART-TIME						
Polytechnics ¹	1,464	1,975	1,023	988	1,073	1,051
Males	1,219	1,673	856	831	905	894
Females	245	302	167	157	168	157
National Institute of Education ²	70	46	47	42	34	59
Males	29	22	23	20	11	23
Females	41	24	24	22	23	36
Universities ³	217	385	383	375	478	466
Males	187	348	327	316	357	341
Females	30	37	56	59	121	125

Source : National University of Singapore
Nanyang Technological University
Singapore Management University

National Institute of Education
Singapore Polytechnic
NgeeAnn Polytechnic

Temasek Polytechnic
Nanyang Polytechnic

Note : Data refer to academic year.

Figures include direct entry to second and subsequent years.

1 Figures for polytechnics refer to diploma students only.

2 National Institute of Education figures exclude higher degrees and BA/BSc with Dip Ed which are included under universities.

3 Figures for universities refer to undergraduates.

Source : National University of Singapore
Nanyang Technological University
Singapore Management University

Temasek Polytechnic
Nanyang Polytechnic

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20.9 GRADUATES FROM INSTITUTIONS OF HIGHER LEARNING BY SEX

	1995	1996	1997	1998	1999	2000
FULL-TIME						
Polytechnics ¹	10,158	11,171	11,848	12,807	13,674	14,059
Males	5,518	6,149	6,298	6,850	7,317	7,349
Females	4,640	5,022	5,550	5,957	6,357	6,710
National Institute of Education ²	1,056	946	1,467	1,499	1,573	2,424
Males	323	267	366	471	450	761
Females	733	679	1,101	1,028	1,123	1,663
Universities ³	7,926	8,218	8,679	9,331	9,355	9,244
Males	4,003	4,022	4,276	4,455	4,485	4,391
Females	3,923	4,196	4,403	4,876	4,870	4,853
PART-TIME						
Polytechnics ¹	850	934	1,071	1,097	967	1,015
Males	688	728	855	898	794	834
Females	162	206	216	199	173	181
National Institute of Education ²	50	50	55	44	39	36
Males	22	20	27	23	21	10
Females	28	30	28	21	18	26
Universities ³	-	-	-	-	108	162
Males	-	-	-	-	88	145
Females	-	-	-	-	20	17

Source : National University of Singapore
Nanyang Technological University
National Institute of Education

Singapore Polytechnic
NgeeAnn Polytechnic
Temasek Polytechnic

Nanyang Polytechnic

1 Figures for polytechnics refer to diploma students only.

2 National Institute of Education figures exclude higher degrees and BA/BSc with Dip Ed which are included under universities.

3 Figures for universities refer to undergraduates.

20.10

ENROLMENT IN POLYTECHNIC DIPLOMA COURSES BY TYPE OF COURSE

Type of Course	Number							
	1995	1996	1997	1998	1999	2000		
MALES	27,000	28,412	29,681	30,035	30,725	31,110		
Education	-	-	-	-	4	11		
Applied Arts ¹	335	504	507	645	769	841		
Mass Communication	148	185	177	171	156	172		
Library Science	-	-	4	7	9	8		
Business & Administration ²	2,648	2,962	2,907	2,920	2,947	3,064		
Legal Studies	53	62	84	88	98	109		
Science & Related Technologies	304	337	366	397	409	444		
Health Sciences	232	276	300	331	360	350		
Information Technology	1,812	2,136	2,534	3,252	3,974	4,801		
Architecture & Building ³	1,045	1,112	1,085	952	892	745		
Engineering Sciences	20,113	20,630	21,400	20,947	20,677	20,099		
Services ⁴	310	208	317	325	430	466		
FEMALES	19,156	20,702	21,954	23,142	24,209	24,937		
Education	-	-	-	-	82	194		
Applied Arts ¹	377	501	602	733	818	864		
Mass Communication	280	324	385	424	438	412		
Library Science	-	-	34	53	68	44		
Business & Administration ²	7,087	7,755	7,740	7,811	7,838	7,929		
Legal Studies	176	182	203	218	222	229		
Science & Related Technologies	493	652	793	927	1,073	1,168		
Health Sciences	1,508	1,632	1,661	1,762	1,800	1,793		
Information Technology	1,293	1,433	1,675	2,011	2,423	2,898		
Architecture & Building ³	904	935	926	907	918	917		
Engineering Sciences	6,966	7,201	7,840	8,192	8,412	8,353		
Services ⁴	72	87	95	104	117	136		

Source : Singapore Polytechnic Temasek Polytechnic
 NgeeAnn Polytechnic Nanyang 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.

20.11 ENROLMENT IN UNIVERSITY FIRST DEGREE COURSES BY TYPE OF COURSE

Type of Course	1995	1996	1997	1998	1999	2000
MALES	14,711	15,624	16,251	17,186	18,319	19,556
Applied Arts ¹	-	-	-	-	14	22
Humanities & Social Sciences ²	1,413	1,495	1,514	1,499	1,578	1,596
Mass Communication	75	110	122	125	141	136
Accountancy	806	833	853	839	760	715
Business & Administration	1,354	1,367	1,249	1,165	1,136	1,159
Law	333	335	297	300	269	248
Natural, Physical & Mathematical Sciences ³	1,186	1,170	1,151	1,109	1,128	1,243
Medicine	547	553	564	584	604	611
Dentistry	95	89	84	81	83	83
Health Sciences	22	29	37	54	66	66
Information Technology	1,054	1,031	958	960	1,062	1,236
Architecture & Building ⁴	467	453	426	431	504	578
Engineering Sciences	7,359	8,159	8,996	10,039	10,974	11,861
FEMALES	13,934	14,750	15,477	15,907	16,783	18,092
Applied Arts ¹	-	-	-	-	11	26
Humanities & Social Sciences ²	4,265	4,282	4,328	4,288	4,337	4,447
Mass Communication	238	323	330	349	339	361
Accountancy	1,426	1,476	1,517	1,512	1,548	1,567
Business & Administration	2,680	2,731	2,770	2,669	2,563	2,593
Law	387	360	355	329	334	350
Natural, Physical & Mathematical Sciences ³	1,824	1,941	2,007	2,040	2,188	2,430
Medicine	215	208	225	250	284	336
Dentistry	52	53	58	57	53	56
Health Sciences	160	164	171	177	183	223
Information Technology	691	712	683	555	603	688
Architecture & Building ⁴	566	646	669	746	815	847
Engineering Sciences	1,430	1,854	2,364	2,935	3,525	4,168

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.

20.12 GRADUATES FROM POLYTECHNIC DIPLOMA COURSES BY TYPE OF COURSE

Type of Course	Number							
	1995	1996	1997	1998	1999	2000		
MALES								
Applied Arts ¹	6,206	6,877	7,153	7,748	8,111	8,183		
Mass Communication	66	101	93	96	140	192		
Library Science	27	33	45	56	59	49		
Business & Administration ²	-	-	-	-	-	4		
Legal Studies	631	690	769	861	884	832		
Science & Related Technologies	-	19	6	20	19	29		
Health Sciences	57	83	91	95	112	113		
Information Technology	35	35	70	74	85	83		
Architecture & Building ³	269	451	522	581	795	904		
Engineering Sciences	232	227	314	325	283	308		
Services ⁴	4,791	5,098	5,142	5,531	5,622	5,525		
	98	140	101	109	112	144		
FEMALES								
Applied Arts ¹	4,802	5,228	5,766	6,156	6,530	6,891		
Mass Communication	86	88	100	137	178	211		
Library Science	68	84	83	89	119	151		
Business & Administration ²	-	-	-	-	-	33		
Legal Studies	2,101	2,120	2,192	2,355	2,389	2,474		
Science & Related Technologies	-	49	39	53	59	71		
Health Sciences	105	114	121	222	253	262		
Information Technology	244	400	453	449	518	488		
Architecture & Building ³	299	337	347	441	508	576		
Engineering Sciences	320	270	282	260	277	310		
Services ⁴	1,562	1,748	2,122	2,128	2,196	2,279		
	17	18	27	22	33	36		

Source : Singapore Polytechnic
NgeeAnn 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 and Nautical Studies.

20.13 GRADUATES FROM UNIVERSITY FIRST DEGREE COURSES BY TYPE OF COURSE

Type of Course	1995	1996	1997	1998	1999	2000
MALES	4,003	4,022	4,276	4,455	4,573	4,536
Humanities & Social Sciences ¹	503	525	583	583	604	597
Mass Communication	-	-	28	27	19	34
Accountancy	289	262	227	264	297	250
Business & Administration	365	358	448	461	349	328
Law	94	75	90	70	92	74
Natural, Physical & Mathematical Sciences ²	466	467	453	442	417	390
Medicine	93	97	107	106	104	119
Dentistry	20	24	20	24	18	17
Health Sciences	12	9	9	8	14	11
Information Technology	306	362	370	377	355	348
Architecture & Building ³	140	142	135	141	104	101
Engineering Sciences	1,715	1,701	1,806	1,952	2,200	2,267
FEMALES	3,923	4,196	4,403	4,876	4,890	4,870
Humanities & Social Sciences ¹	1,317	1,529	1,517	1,653	1,614	1,533
Mass Communication	-	-	67	74	93	80
Accountancy	395	433	453	487	482	495
Business & Administration	788	848	808	869	905	851
Law	100	106	97	103	77	79
Natural, Physical & Mathematical Sciences ²	596	575	637	705	710	689
Medicine	48	53	40	42	41	37
Dentistry	8	13	10	12	14	15
Health Sciences	46	59	60	69	77	30
Information Technology	193	194	218	296	218	187
Architecture & Building ³	156	136	163	153	167	192
Engineering Sciences	276	250	333	413	492	682

Source : National University of Singapore
Nanyang Technological 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 Arts with Diploma in Education.

2 Include Science with Diploma in Education.

3 Include Real Estate.

20.14 ENROLMENT IN POLYTECHNIC ADVANCED DIPLOMA COURSES BY TYPE OF COURSE

Type of Course	Number					
	1995	1996	1997	1998	1999	2000
Total	1,605	2,072	2,041	2,046	2,192	2,327
Applied Arts ¹	23	29	47	1	52	65
Business & Administration ²	385	668	550	544	482	400
Science & Related Technologies	55	74	40	18	26	25
Health Sciences	172	186	143	133	210	162
Information Technology	205	257	340	418	538	796
Architecture & Building ³	211	168	104	56	18	-
Engineering Sciences	540	644	727	794	738	652
Services ⁴	14	46	69	64	113	179
Others	-	-	21	18	15	48

Source : Singapore Polytechnic

Temasek Polytechnic

NgeeAnn 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.

20.15 ENROLMENT IN HIGHER DEGREE COURSES BY TYPE OF COURSE

Type of Course	Number					
	1995	1996	1997	1998	1999	2000
Total	5,535	6,410	8,047	10,240	12,759	12,774
Education	129	104	136	169	267	321
Humanities & Social Sciences	419	445	579	821	1,181	1,324
Mass Communication	124	189	241	301	344	78
Business & Administration ¹	1,254	1,234	1,458	1,724	2,217	2,054
Law	132	127	128	115	150	136
Natural, Physical & Mathematical Sciences	438	526	746	781	921	962
Medicine & Dentistry ²	328	353	402	479	580	599
Information Technology	245	442	480	709	864	919
Architecture & Building ³	360	355	454	563	640	617
Engineering Sciences	2,085	2,596	3,378	4,532	5,551	5,724
Services	21	39	45	46	44	40

Source : National University of Singapore

Nanyang Technological University

National Institution 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 and Nanyang Technological University and higher degree courses offered by National Institute of Education.

1 Include Accountancy.

2 Include Pharmacy.

3 Include Real Estate.

20.16 GRADUATES FROM POLYTECHNIC ADVANCED DIPLOMA COURSES BY TYPE OF COURSE

Type of Course	1995	1996	1997	1998	1999	Number 2000
Total	843	654	956	1,228	1,140	1,298
Applied Arts ¹	-	23	-	44	1	27
Business & Administration ²	167	39	259	436	298	289
Science & Related Technologies	12	-	47	18	18	-
Health Sciences	61	116	177	139	112	209
Information Technology	186	116	97	135	220	239
Architecture & Building ³	104	88	86	65	33	16
Engineering Sciences	313	257	248	302	397	368
Services ⁴	-	15	42	68	61	135
Others	-	-	-	21	-	15

Source : Singapore Polytechnic
NgeeAnn Polytechnic

Temasek 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.

20.17 GRADUATES FROM HIGHER DEGREE COURSES BY TYPE OF COURSE

Type of Course	1995	1996	1997	1998	1999	Number 2000
Total	1,103	1,488	1,795	2,165	2,588	3,677
Education	20	17	21	21	36	35
Humanities & Social Sciences	114	141	132	159	216	308
Mass Communication	-	10	39	40	54	82
Business & Administration ¹	272	459	428	554	585	827
Law	32	65	82	91	58	85
Natural, Physical & Mathematical Sciences	72	73	96	141	158	165
Medicine & Dentistry ²	120	127	152	154	214	232
Information Technology	107	99	199	153	232	342
Architecture & Building ³	68	86	82	96	125	157
Engineering Sciences	298	410	552	742	891	1,424
Services	-	1	12	14	19	20

Source : National University of Singapore
Nanyang Technological University

National Institution 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 and Nanyang Technological University and higher degree courses offered by National Institute of Education.

1 Include Accountancy.

2 Include Pharmacy.

3 Include Real Estate.

20.18

STUDENTS ADMITTED TO OPEN UNIVERSITY, 2000

	Total	Sex		Age Group (Years)			Number
		Males	Females	Below 30	30 - 39	40 & Over	
Total	1,256	702	554	738	367	151	
Arts	377	86	291	143	145	89	
Science	879	616	263	595	222	62	

Source : Singapore Institute of Management

20.19

INTAKE OF TRAINEES UNDER THE FULL-TIME INSTITUTIONAL TRAINING AND TRAINEESHIP PROGRAMMES AND TRAINEES WHO COMPLETED THE PROGRAMMES, 2000

Type of Training/Level	Intake of Trainees			Trainees who Completed the Programmes			Number
	Total	Males	Females	Total	Males	Females	
Total	10,738	7,155	3,583	8,427	5,782	2,645	
Engineering							
Industrial Technician Certificate	1,938	1,560	378	1,349	1,152	197	
Business Studies							
Certificate in Business Studies	640	122	518	625	135	490	
Certificate in Office Skills	1,742	266	1,476	1,531	209	1,322	
National Certificate in Nursing ¹	131	10	121	-	-	-	
Technical Skills							
National Technical Certificate (Incl Certificate of Vocational Training)	6,082	5,096	986	4,809	4,238	571	
Service Skills							
Certificate in Service Skills ²	205	101	104	113	48	65	

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 A new course introduced in 2000.

2 Includes Travel Services (General), Retailing (Sales & Customer Service), Health Care (In-Patient/Out-Patient) and Computer Operations.

20.20

**TRAINING PLACES TAKEN UP BY WORKERS UNDER THE SKILLS
TRAINING PROGRAMMES AND WORKERS WHO COMPLETED
THE PROGRAMMES, 2000**

Type of Training/Level	Number					
	Training Places Taken Up			Workers who Completed the Programmes		
	Total	Males	Females	Total	Males	Females
Total	51,757	21,941	29,816	27,704	18,486	9,218
Engineering						
Industrial Technician Certificate	560	531	29	230	216	14
Business Studies						
Certificate in Business Studies	14,359	1,263	13,096	2,574	172	2,402
Certificate in Office Skills	13,095	1,000	12,095	3,164	278	2,886
Technical Skills						
National Technical Certificate (incl Certificate of Vocational Training)	18,046	15,969	2,077	16,695	14,740	1,955
Certificate of Competency	2,644	923	1,721	2,025	823	1,202
Service Skills						
Certificate in Service Skills	412	130	282	375	132	243
Others						
(incl Continuing Training, Customised, Theory Only and Certificate of Endorsement courses)	2,641	2,125	516	2,641	2,125	516

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.

20.21

**TRAINING PLACES TAKEN UP BY WORKERS UNDER THE CONTINUING
ACADEMIC EDUCATION PROGRAMMES AND WORKERS WHO
COMPLETED THE PROGRAMMES, 2000**

Type of Programme	Number					
	Training Places Taken Up			Workers who Completed the Programmes		
	Total	Males	Females	Total	Males	Females
Total	44,644	19,070	25,574	31,604	11,196	20,408
Basic Education for Skills Training (BEST)	20,449	6,515	13,934	14,735	4,578	10,157
Workers Improvement through Secondary Education (WISE)	13,209	8,006	5,203	8,901	3,412	5,489
Continuing Education (Secondary & Pre-University)	10,986	4,549	6,437	7,968	3,206	4,762

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.

20.22

GOVERNMENT EXPENDITURE ON EDUCATION

Thousand Dollars

	1990	1995	1996	1997	1998	1999	2000
Total	2,056,374	3,443,857	3,771,955	4,449,754	4,853,121	4,857,488	5,801,033
Recurrent Expenditure	1,794,522	2,682,419	2,997,158	3,347,775	3,171,725	3,256,874	4,300,980
Primary Schools	524,660	694,703	764,064	829,887	818,646	820,842	1,063,940
Secondary Schools & Junior Colleges ¹	570,969	831,401	944,274	1,019,209	973,076	1,000,479	1,238,795
Institute of Technical Education	84,300	109,670	112,899	124,332	120,441	126,371	133,241
Tertiary	526,477	900,171	999,364	1,133,984	1,015,285	1,018,907	1,434,332
National University of Singapore & Nanyang Technological University & Singapore Management University	351,476	520,289	546,120	656,619	541,749	569,971	863,837
National Institute of Education	23,591	40,922	59,620	48,131	53,862	61,697	85,062
Polytechnics	151,410	338,960	393,624	429,234	419,674	387,239	485,433
Others ²	88,116	146,474	176,557	240,363	244,277	290,275	430,672
Development Expenditure	261,852	761,438	774,797	1,101,979	1,681,396	1,600,614	1,500,053

Source : Ministry of Education

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

1 Include Centralised Institutes.

2 Include Headquarters, Institute of Southeast Asian Studies, Open University, Science Centre Board, Special Education, Nanyang Academy of Fine Arts and Laselle-SIA College of the Arts.

20.23

GOVERNMENT RECURRENT EXPENDITURE ON EDUCATION PER STUDENT

	Dollars						
	1990	1995	1996	1997	1998	1999	2000
Primary Schools	2,013	2,653	2,837	2,960	2,808	2,655	3,200
Secondary Schools ¹	2,843	3,680	4,152	4,469	4,472	4,852	5,200
Junior Colleges ²	3,956	6,363	6,726	7,052	6,346	6,011	7,200
Institute of Technical Education	4,883	9,547	11,646	10,586	7,200	6,900	7,600
Polytechnics	5,916	7,776	8,406	9,018	8,144	8,016	9,500
Universities ³	13,615	17,241	15,037	15,125	12,580	14,922	16,600

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, Nanyang Technological University and National Institute of Education.

Statutory Boards

The statutory boards under the Ministry of Health are established on a full-time basis. The Health Services Board (HSB) provides the framework for a grant-in-aid health services. A grant-in-aid health services includes 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 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 health 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 HSB 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 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, data are compiled from special returns prescribed by the Ministry of Health and from the Central Claims Processing System.

The Ministry of Health plays a major role in educating and providing information to the public on how they can maintain good health. The Ministry also provides key roles in reducing illness and promoting control and management 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 characterised 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.

Reorganisation and Restructuring of Public 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, Woodbridge Hospital and the polyclinics. Each cluster will provide the full range of acute services ranging from primary care to 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 good 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.

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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.

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Hospital Statistics

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Registration Act, the Nurses and Midwives Act. Separate computer manpower registers for each of these personnel groups are maintained by the professional bodies themselves and the statistics pertaining to these health personnel are derived from the registers.

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

21.1 HOSPITALS AND GOVERNMENT CLINICS

	1990	1995	1996	1997	1998	1999	Number 2000
Hospitals	21	22	25	23	22	26	26
Public Sector ¹	11	12	12	10	10	13	13
Private Sector ²	10	10	13	13	12	13	13
Hospital Beds	9,759	10,498	10,668	11,276	11,389	11,747	11,798
Public Sector ¹	7,922	8,326	8,511	9,091	9,277	9,560	9,556
Private Sector ²	1,837	2,172	2,157	2,185	2,112	2,187	2,242
Public Sector Dental Clinics ³	192	195	199	194	205	205	202
Polyclinics	21	20	20	20	18	18	16

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.

3 Include dental clinics in schools.

21.2 HOSPITAL ADMISSIONS AND PUBLIC SECTOR OUTPATIENT ATTENDANCES

	1990	1995	1996	1997	1998	1999	Number 2000
Hospital Admissions	337,103	357,709	373,413	369,456	369,530	374,390	390,370
Public Sector Hospitals ¹	259,541	266,142	277,785	275,339	283,953	290,706	305,532
Private Sector Hospitals	77,562	91,567	95,628	94,117	85,577	83,684	84,838
Public Sector Outpatient Attendances							
Specialist Outpatient Clinics	1,455,985	2,071,310	2,233,262	2,343,765	2,424,180	2,656,712	2,743,313
Accident & Emergency							
Departments	533,571	520,132	541,833	547,178	518,814	532,916	537,342
Walk-in Clinics ²	-	22,402	67,273	69,111	57,745	28,682	19,241
Polyclinics	2,806,948	2,821,586	2,892,141	2,910,366	2,933,348	2,924,918	2,728,377
Dental Clinics	1,109,043	1,086,737	1,081,583	1,050,652	1,036,304	1,021,181	912,815
Day Surgeries	38,126	62,196	69,199	74,589	78,264	87,890	100,025

Source : Ministry of Health

1 The number of hospitals in public sector includes specialty centres.

2 Started at : Tan Tock Seng Hospital with effect from 1 November 1994.

Singapore General Hospital with effect from 10 August 1995 and closed with effect from 1 April 1999.

21.3 REGISTERED HEALTH PERSONNEL

	1990	1995	1996	1997	1998	1999	2000
Doctors	3,573	4,495	4,661	4,912	5,148	5,325	5,577
Public	1,831	2,124	2,177	2,312	2,416	2,535	2,616
Private	1,593	2,194	2,302	2,380	2,489	2,606	2,779
Not in active practice	149	177	182	220	243	184	182
Dentists ¹	672	791	835	878	914	942	1,028
Public	185	163	176	187	180	167	194
Private	466	602	626	666	696	726	754
Not in active practice	21	26	33	25	38	49	80
Pharmacists	587	815	858	944	998	1,043	1,098
Public	96	167	175	177	204	219	238
Private	452	553	578	593	610	598	638
Not in active practice	39	95	105	174	184	226	222
State Registered Nurses	7,184	9,536	10,141	10,867	11,491	11,765	12,353
Public	4,238	5,373	5,724	6,144	6,441	6,454	6,713
Private	1,980	2,736	2,881	2,973	2,936	2,981	3,198
Not in active practice	966	1,427	1,536	1,750	2,114	2,330	2,442
State Enrolled Nurses	2,511	2,762	3,052	3,365	3,621	3,733	3,821
Public	1,612	1,548	1,727	1,918	2,028	2,030	2,012
Private	526	693	735	807	800	805	883
Not in active practice	373	521	590	640	793	898	926
Midwives	543	499	487	473	456	449	437
Public	300	245	228	215	212	208	202
Private	104	104	103	100	91	86	85
Not in active practice	139	150	156	158	153	155	150

Source : Ministry of Health

Note : Registered health personnel in the public sector refer to Government,
Government Restructured Hospitals and University personnel.

1 Refer to those with professional degrees only.

21.4 VISITS TO GOVERNMENT DENTAL CLINICS

	Number						
	1990	1995	1996	1997	1998	1999	2000
Dental Clinics	1,109,043	1,086,737	1,081,583	1,050,652	1,036,304	1,021,181	912,815
School	825,279	813,405	797,231	795,158	788,556	771,940	677,774
Hospital ¹	181,284	175,882	187,980	38,122	24,868	9,739	-
Community	102,480	97,450	96,372	100,084	89,063	103,804	99,018
National Dental Centre ²	-	-	-	117,288	133,817	135,698	136,023

Source : Ministry of Health

1 All Hospital Dental Clinics closed permanently with effect from 30 June 1999.

2 Started functioning with effect from March 1997.

21.5 NOTIFICATIONS OF SPECIFIC NOTIFIABLE DISEASES

	Number						
Notifiable Diseases	1990	1995	1996	1997	1998	1999	2000
Dengue/DHF	1,733	2,008	3,128	4,300	5,258	1,355	673
Malaria	216	316	364	421	405	316	266
Enteric fever ¹	231	171	316	112	80	64	101
Viral Hepatitis	440	267	318	345	367	248	211
Cholera	26	14	19	11	31	11	10
Poliomyelitis	-	-	-	-	-	-	-
Diphtheria	1	-	1	-	-	-	-
Chicken pox	18,934	23,224	49,763	27,723	27,183	30,396	24,074
Viral Encephalitis	4	4	1	2	1	17	4
Tuberculosis	1,591	2,167	2,483	2,772	2,747	2,428	2,244
Leprosy	36	34	23	23	19	22	18

Source : Ministry of the Environment

Ministry of Health

Note : No cases of plague, smallpox and yellow fever were reported during the period.

1 Refer to typhoid and paratyphoid.

21.6 IMMUNISATION COVERAGE BY PUBLIC AND PRIVATE SECTORS

										Per Cent
										2000
BCG										
National			99	97	97	98	98	98	98	98
Public			47	42	42	47	50	48	48	38
Private			52	58	58	51	48	50	50	60
Diphtheria										
National			86	96	95	96	96	94	94	95
Public			63	56	68	64	65	61	61	58
Private			23	44	32	32	31	33	33	38
Poliomyelitis										
National			86	94	93	96	96	95	95	94
Public			63	71	70	64	65	60	60	55
Private			23	29	30	32	31	35	35	39
Measles										
National			82	90	94	94	96	85	85	87
Public			60	76	72	66	66	62	62	58
Private			22	24	28	28	30	23	23	29

Source : Ministry of Health

21.7 VACCINATION AND IMMUNISATION OF SCHOOL CHILDREN

									Thousand Doses
									2000
BCG Vaccination									47.7
Diphtheria Tetanus									101.2
Poliomyelitis Immunisation									100.6
Rubella ¹									53.0

Source : Ministry of Health

¹ Figures from 1998 refer to MMR (Measles, Mumps and Rubella).

21.8 STUDENT MEDICAL CHECK-UP

	1990	1995	1996	1997	1998	1999	2000
Thousand							
Total	589.7	642.9	648.0	680.1	612.8	613.3	612.4
New Entrants	39.0	53.2	48.0	52.6	48.7	49.4	49.9
Primary School Leavers and equivalent levels	38.5	42.4	43.0	43.5	40.0	45.5	54.3
Secondary School Leavers and equivalent levels	36.7	35.9	35.9	49.3	42.2	39.9	41.2
Re-examination	472.6	507.9	517.1	530.7	475.7	476.5	466.3
Others ¹	2.8	3.6	4.0	4.0	6.2	2.0	0.7

Source : Ministry of Health

¹ Figures from 1988 refer to Institute of Technical Education and Special School Students.

21.9 COMMON DEFECTS OF STUDENTS EXAMINED

	1990	1995	1996	1997	1998	1999	2000
Per 10,000 Males Examined							
Incidence of :							
Defective Vision	4,106	4,836	5,040	5,083	5,107	5,269	5,251
Obesity							
Primary School Entrants	1,188	1,227	1,256	1,057	1,131	1,057	1,080
Primary School Leavers	1,881	1,382	1,383	1,410	1,547	1,499	1,629
Secondary School Leavers	1,401	1,069	1,120	1,223	1,203	1,184	1,343
Scoliosis	505	191	153	174	213	188	199
Asthma	468	503	866	979	945	838	969
Phimosis	330	256	253	209	135	291	211
Per 10,000 Females Examined							
Incidence of :							
Defective Vision	4,424	5,035	5,219	5,327	5,395	5,580	5,518
Obesity							
Primary School Entrants	977	1,213	1,199	1,087	1,038	985	1,074
Primary School Leavers	1,159	1,175	1,217	1,151	1,202	1,192	1,288
Secondary School Leavers	1,136	1,126	1,096	1,218	1,160	1,136	1,273
Scoliosis ¹	853	379	314	357	401	384	417
Asthma	334	651	631	688	717	727	773
Heart Conditions	294	273	272	180	188	120	111

Source : Ministry of Health

¹ Figure for 2000 refer to Primary 6 and Secondary 2 students.

21.10

BLOOD DONATIONS AND TRANSFUSIONS

	1990	1995	1996	1997	1998	1999	2000
Donors (Persons)	43,383	49,011	48,155	49,156	42,808	43,510	45,414
Blood Donations Received (No of Units)	61,403	69,190	70,814	74,940	65,857	67,707	75,083
National Blood Centre ¹	36,679	33,542	34,036	35,682	32,894	33,507	39,799
Apheresis Donations ²	-	3,989	3,837	4,986	4,832	4,697	4,350
Mobile	18,934	28,210	27,056	31,080	25,111	26,155	29,986
Red Cross ³	3,098	2,674	4,097	3,167	2,530	3,621	246
National University Hospital Blood Centre ⁴	2,692	4,764	5,625	5,011	5,322	4,424	5,052
Blood Transfusions Given (No of Units)	57,683	57,067	58,790	60,779	53,980	56,523	58,885
Public Sector Hospitals	49,186	47,179	47,564	49,417	45,108	47,955	50,149
Private Sector Hospitals	8,497	9,888	11,226	11,362	8,872	8,568	8,736

Source : Ministry of Health

Notes : One unit of blood is approximately 430 millilitres.

Figures do not account for blood donated and issued at the blood bank in Mt Alvernia Hospital.

Apheresis is a specialised blood component donation process in which cell-separator machines draw out whole blood, separate specified components by centrifugation and return the rest of the blood to the donor.

1 Formerly known as Blood Transfusion Service.

2 With effect from 1991, Apheresis donations in parenthesis, have been included in the total number of donations for National Blood Centre.

3 Ceased blood collection operation with effect from February 2000.

4 Blood collections from NUH Blood Centre were included in the National blood collection programme with effect from 1 November 1989.

22.1

LICENSED HAWKERS BY TYPE OF PREMISES AND (b) TYPE OF GOODS SOLD (End of Period)

22

Type of Premises	1991		1992		1993		1994		1995	
	No.	%	No.	%	No.	%	No.	%	No.	%
Market Food Centre	404	3.4	404	3.4	404	3.4	404	3.4	404	3.4
Shaw Centre	11	0.1	11	0.1	11	0.1	11	0.1	11	0.1
Other	101	0.9	101	0.9	101	0.9	101	0.9	101	0.9
Total	516	4.4	516	4.4	516	4.4	516	4.4	516	4.4

The total number of licensed hawkers has been on the rise over the past decade. Due to the increasing number of hawkers, there is a significant number of premises managed by the Government.

HAWKERS

AND

22.2

FOOD ESTABLISHMENTS

(b) TYPE OF GOODS SOLD
(End of Period)

Type of Goods Sold	1991		1992		1993		1994		1995	
	No.	%	No.	%	No.	%	No.	%	No.	%
Market Produce	8,332	7.4	7,468	6.6	7,501	6.7	7,064	6.3	6,690	5.9
Cooked Food	3,043	2.7	3,741	3.3	5,795	5.1	8,377	7.5	11,111	9.9
Food & Beverage	2,199	2.0	1,879	1.7	1,826	1.6	1,807	1.6	1,769	1.6
Others	134	0.1	199	0.2	298	0.3	410	0.4	427	0.4
Total	11,708	10.4	13,387	11.9	15,424	13.7	17,658	15.8	19,997	17.8

Management Authority

Housing & Development Board	15,814	13.5	15,127	13.3	14,950	13.2	14,500	12.8	13,739	12.1
ITC Corporation	326	0.3	308	0.3	219	0.2	195	0.2	189	0.2
Port of Singapore Authority	70	0.0	59	0.0	47	0.0	38	0.0	31	0.0
Private Market	374	0.3	334	0.3	187	0.2	410	0.4	427	0.4

Source: Ministry of the Environment

The Ministry of the Environment issues licences to hawkers and operators of food establishments. It ensures 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

The number of licensed hawkers in various types of premises managed by the

Ministry of the Environment has been decreasing over the years because of clearance of several markets and food centres for re-development.

Licensed Food Establishments

The total number of licensed food establishments has been on the rise over the past decade. Due to the increasing affluence among Singaporeans, there is a significant increase in the number of restaurants.

22.1

**LICENSED HAWKERS BY (a) TYPE OF PREMISES AND
(b) TYPE OF GOODS SOLD**
(End of Period)

	Number						
	1990	1995	1996	1997	1998	1999	2000
Total	5,358	3,955	3,868	3,867	3,698	3,369	3,224
Type of Premises							
Market/Food Centre	5,184	3,840	3,765	3,772	3,614	3,288	3,149
Show Case	19	11	8	6	4	4	4
Itinerant ¹	155	104	95	89	80	77	71
Type of Goods Sold							
Market Produce	2,198	1,504	1,490	1,471	1,437	1,238	1,174
Cooked Food	2,634	2,001	1,958	1,909	1,808	1,697	1,634
Piece & Sundries	526	450	420	487	453	434	416

Source : Ministry of the Environment

Note : Exclude private markets/food centres of Statutory Boards.

¹ Hawkers selling ice-cream, cakes or/and bread.

22.2

**LICENSED HAWKERS BY (a) MANAGEMENT AUTHORITY AND
(b) TYPE OF GOODS SOLD**
(End of Period)

	Number						
	1990	1995	1996	1997	1998	1999	2000
Total	16,484	15,526	15,411	15,168	14,864	14,503	14,416
Management Authority							
Housing & Development Board	15,814	15,125	14,950	14,608	14,200	13,863	13,739
JTC Corporation	226	208	210	207	190	196	189
Port of Singapore Authority	70	59	58	57	58	57	61
Private Market	374	134	193	296	416	387	427
Type of Goods Sold							
Market Produce	8,352	7,668	7,503	7,279	7,064	6,814	6,690
Cooked Food	5,963	5,745	5,753	5,667	5,577	5,512	5,506
Piece & Sundries	2,169	1,979	1,962	1,926	1,807	1,790	1,793
Others	-	134	193	296	416	387	427

Source : Ministry of the Environment

22.3

LICENSED FOOD ESTABLISHMENTS

(End of Period)

	Number						
	1990	1995	1996	1997	1998	1999	2000
Total	8,240	9,199	9,512	9,743	10,172	10,480	10,604
Restaurants	1,125	1,704	1,807	1,942	2,065	2,146	2,247
Eating Houses	1,670	1,467	1,465	1,436	1,471	1,497	1,478
Snack Bars	754	1,231	1,348	1,469	1,665	1,756	1,735
Canteens	1,529	1,639	1,689	1,653	1,615	1,556	1,538
School	400	405	417	409	399	418	438
Others	1,129	1,234	1,272	1,244	1,216	1,138	1,100
Coffee Shops	180	105	92	83	73	61	46
Food Factories	1,439	1,203	1,236	1,174	1,199	1,214	1,194
Supermarkets	140	179	184	192	191	191	193
Others	1,403	1,671	1,691	1,794	1,893	2,059	2,173

Source : Ministry of the Environment

COMMUNITY SERVICES

The Ministry of Community Development and Sports (MCDS) provides a wide range of community services, which include: (i) the care, protection and rehabilitation of children and youth, and (ii) assistance programmes for the aged, the destitutes, the disabled, families with problems and victims of civil calamities. It also promotes neighbourliness, racial harmony and social cohesion among the people through a network of effective grassroots organisations.

In addition, the MCDS promotes the establishment of childcare centres to meet the needs of working mothers for alternative childcare arrangements for their children.

Grassroots organisations

Grassroots organisations include Residents' Committees, Community Centre/Club Management Committees, Women's Executive Committees, Senior Citizens' Executive Committees and Constituency Sports Clubs. These provide ample opportunities for residents to participate in the affairs of their communities and to interact with one another to promote better communication and closer rapport between the Government and the people.

Volunteers

"Volunteers", in the MCDS 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 MCDS plans, co-ordinates and monitors the implementation of a range of services for senior citizens. The main services under the Aged Programme include community-based services and residential care services.

Data on residential homes for the aged are obtained from the Government welfare homes, sheltered housing/community homes as well as voluntary and commercial nursing homes. With effect from 1 Jan 1993, the nursing homes are administered by the Private Hospitals and Medical Clinics Act, which is under the purview of Ministry of Health.

Child Care Programme

The main objectives of the child care programme are to promote and develop childcare centres and to supervise centres in accordance to the ChildCare Centres Act (Cap 37A) and Regulations (Cap 3A Section 19). The MCDS encourages individuals, organisations and employers in the public and private sectors to set up child care facilities. Most centres provide full-day and half-day care services for children between the ages of two and seven years.

Public Assistance

Public assistance (PA) is provided to help the financially distressed regain their independence. It is not intended as an unemployment, retirement or disability support. PA recipients are categorised as follows:

- (i) aged destitutes;
- (ii) the disabled, the mentally ill and the chronically sick who are rendered unfit to work;
- (iii) widows or deserted wives with dependent children;
- (iv) orphans; and
- (v) residents of residential institutions who require assistance to pay for their upkeep.

23.1 GRASSROOTS ORGANISATIONS

(End of Period)

	Number						
	1990	1995	1996	1997	1998	1999	2000
Community Development Councils (CDCs) ¹	-	-	-	9	9	9	9
Residents' Committees (RCs)	395	444	454	477	490	509	515
Citizens' Consultative Committees (CCCs)	81	81	81	82	83	83	83
CCC Area Committees	49	57	59	63	63	55	49
Community Centres/Club Management Committees (CCMCs)	112	110	115	111	104	103	104
Women's Executive Committees (WECs)	88	93	98	102	97	99	100
Neighbourhood Committees (NCs) ²	-	-	-	-	14	36	57
Youth Executive Committees (YECs)	93	92	93	92	93	94	95
Civil Defence Executive Committees (CDECs) ³	-	-	-	-	82	83	83
Senior Citizens' Executive Committees (SCECs)	83	219	237	243	252	297	338
Constituency Sports Clubs	80	81	81	83	83	83	83

Source : Ministry of Community Development and Sports

1 Community Development Councils were formed in 1997.

2 Neighbourhood Committees were formed in May 1998.

3 Civil Defence Executive Committees were formed in August 1998.

23.2 VOLUNTEERS AND VOLUNTEER GROUPS

(End of Period)

	1990	1995	1996	1997	1998	1999	Number 2000
Community Service							
Total (Volunteers)	18,132	22,996	23,800	25,203	27,424	28,952	29,455
Community Development Councils	-	-	-	227	227	233	293
RC/Block Representatives ¹	8,590	10,518	10,869	11,072	11,202	11,499	11,131
CCC/CCC Area-Committees ¹	2,610	2,897	2,964	3,434	3,586	3,577	3,568
Community Centre/Club Management Committees	2,134	2,282	2,418	2,772	2,742	2,776	2,750
Women's Executive Committees	1,130	1,295	1,410	1,469	1,502	1,529	1,548
Neighbourhood Committees	-	-	-	-	227	528	867
Civil Defence Executive Committees	-	-	-	-	1,357	1,442	1,443
Senior Citizen's Executive Committees	1,146	3,245	3,473	3,480	3,792	4,512	4,975
Youth Executive Committees	1,371	1,531	1,451	1,527	1,516	1,535	1,522
Constituency Sports Club Members	1,151	1,228	1,215	1,222	1,273	1,321	1,358
Welfare Service							
Total (Volunteers)	565	502	558	360	509	531	646
Welfare Service Boards/Committees	90	74	165	64	31	31	31
Befrienders for the Aged Destitutes ²	127	65	64	20	26	20	30
Volunteer Probation Officers	300	349	315	266	316	302	338
Volunteers in Children Homes/Hostels ³	48	14	14	10	136	178	247
Total (Groups) ⁴	-	-	70	37	40	32	45
Groups of Befrienders for the Aged Destitutes	-	-	65	29	29	22	27
Groups of Volunteers in Children Homes/Hostels	-	-	5	8	11	10	18

Source : Ministry of Community Development and Sports

Note : See notes to Table 23.1.

1 RC = Residents' Committees.

CCC = Citizens' Consultative Committees.

2 Woodlands Home for the Aged was closed in May 1997. From 1997 onwards, figures refer to Pelangi Home and Woody Lodge.

3 Figures from 1998 include individual volunteers from the Groups of Volunteers in Children Homes/Hostels.

4 "Groups" refers to volunteering services provided on a group basis.

23.3

ENROLMENT IN CHILD CARE CENTRES BY TYPE OF PROGRAMME AND ORGANISATION (End of Period)

	Number						
	1990	1995	1996	1997	1998	1999	2000
Total	12,474	25,800	28,575	31,242	33,001	34,980	35,201
Full-Day Programme	11,105	23,506	26,051	28,408	29,804	31,186	30,985
People's Association	847	1,174	1,399	1,406	1,322	1,137	934
NTUC	1,057	2,057	2,227	2,333	2,472	2,455	2,699
Voluntary	3,961	7,617	7,910	8,271	9,082	9,894	9,753
Workplace ¹	975	1,560	1,820	2,071	2,373	2,386	2,125
Private	4,265	11,098	12,695	14,327	14,555	15,314	15,474
Half-Day Programme	1,369	2,294	2,524	2,834	3,197	3,794	4,216

Source : Ministry of Community Development and Sports

Notes : NTUC = National Trades Union Congress.

¹ Include 14 centres set up by employers at workplace but run by private operators and 3 workplace centres run by NTUC Childcare Co-operative Ltd.

23.4

PUBLIC ASSISTANCE RECIPIENTS BY CATEGORY (End of Period)

	Number						
	1990	1995	1996	1997	1998	1999	2000
Total	2,791	1,958	2,008	1,960	2,070	2,238	2,409
Aged Destitutes	2,463	1,695	1,707	1,659	1,687	1,789	1,930
Medically Unfit for Work	84	86	106	103	150	169	178
Abandoned/Distressed Wives & Orphans	71	57	58	54	63	76	78
Handicapped & Disabled	126	98	115	121	147	187	211
Widows with Children under 12 years old	47	22	22	23	23	17	12

Source : Ministry of Community Development and Sports

23.5

RESIDENTS IN OLD FOLKS' HOMES BY TYPE OF ORGANISATION AND SEX
(End of Period)

	Number						
	1990	1995	1996	1997	1998	1999	2000
Total	3,864	4,371	4,795	5,203	5,393	5,834	6,022
Males	1,736	1,913	1,946	2,181	2,297	2,511	2,667
Females	2,128	2,458	2,849	3,022	3,096	3,323	3,355
Government Welfare Home ¹	794	703	582	743	805	825	908
Males	657	603	487	631	672	684	745
Females	137	100	95	112	133	141	163
Sheltered Housing/ Community Homes	na	488	529	538	510	540	586
Males	na	192	205	206	191	205	243
Females	na	296	324	332	319	335	343
Voluntary Nursing Homes ²	2,074	1,945	2,398	2,593	2,688	2,979	3,190
Males	738	697	836	905	952	1,075	1,195
Females	1,336	1,248	1,562	1,688	1,736	1,904	1,995
Commercial Nursing Homes	996	1,235	1,286	1,329	1,390	1,490	1,338
Males	341	421	418	439	482	547	484
Females	655	814	868	890	908	943	854

Source : Ministry of Community Development and Sports
Ministry of Health

1 Figures include only those aged 60 years and above.

Woodlands Home for the Aged was closed in May 1997. From 1997 onwards, figures refer to Pelangi Home and Woody Lodge.

2 Data prior to 1993 include certain Sheltered Housing/Community Homes.

CULTURE AND

CULTURE AND RECREATION

RECREATION

Media Corporation of Singapore

Media Corporation of Singapore (MediaCorp) which incorporates the former TCS (Television Corporation of Singapore), STV12 (Singapore Television Twelve) and RCS (Radio Corporation of Singapore) has more than 60 years of broadcasting history in Singapore. Today, it operates Singapore's largest radio network and also the local television network, including TV Mobile which is the world's first digital TV channel on buses. The MediaCorp Group of Companies comprises MediaCorp TV, MediaCorp TV12, MediaCorp News, MediaCorp Radio, MediaCorp Press, MediaCorp Publishing, MediaCorp Studios and MediaCorp Interactive.

NTUC Radio Heart

NTUC Voice Co-operative Society Limited was restructured in October 1997 to NTUC Media Co-operative Ltd. NTUC Radio Heart, which runs 2 radio stations FM91.3 and FM100.3, is the broadcast media for the co-operative. It broadcasts 24 hours daily in 4 languages over 2 frequencies FM91.3 and FM100.3

SAFRA Radio

SAFRA Radio launched its English radio station, Power 98FM in October 1994, followed by a Chinese station, Dongli 88.3FM in June 1995. Both 24-hour stations play popular hits and new releases, targeted at reaching those aged between 18 to 35. The stations also provide in-depth news bulletins, features and interviews with celebrities and news-makers as well as the latest results of key sporting events. More information about Power 98FM and Dongli 88.3FM is available at websites <http://power98.com.sg> and <http://fm883.com.sg> respectively.

Rediffusion

Rediffusion (Singapore) 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 Chinese programmes daily from 6 am to 12 midnight and the Silver Channel carries 24 hours of non-stop English/Chinese programmes. The monthly subscription is \$10/- per set.

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 Customs and Excise Department. Total attendances are based on the number of tickets sold.

Library

The National Library Board provides essential library facilities as well as a variety of cultural, educational and recreational programmes for the community. Membership is opened to Singaporeans and permanent residents free of charge and to foreigners at an annual subscription of \$10.30. Both permanent residents and foreigners need to pay a one-time registration fee of \$10.30.

In addition to the Central Community Library at Stamford Road, there are 18 Community Libraries, one Regional Library and 43 Community Children's Libraries. They provide books and materials for loan, audio-visual services, reference and information services.

The National Reference Library at Stamford Road provides books and collections of special interest for reference and research, as well as periodicals, newspapers, maps, etc. It has a comprehensive collection of reference materials and information published in Singapore. The National Reference Library also provides reference and enquiry services, both for on-site and remote users. On-site facilities include a Student Reference Centre, a Multimedia Centre and a General Reference Centre.

The computerised National Library Network is a centralised system, which links all the libraries under the National Library Board. The computerised functions 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 computer system. The NLLine provides an electronic link via the Internet to information and services from the National Library Board.

Sports Facilities

The Singapore Sports Council (SSC) 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 SSC also provides a wide range of sports facilities for the public. Apart from the National Stadium and the Singapore Indoor Stadium, the SSC maintains and operates a number of stadiums, multi-purpose fields, sports halls, netball courts, squash courts, tennis courts, swimming pools and fitness parks and corners.

Sports Courses and Performing Arts

The People's Association (PA), a statutory board established on 1 July 1960, is a

community development agency. The PA organises and promotes group participation in social, cultural, educational, youth, sports, recreational and other wholesome activities to nurture inter-racial understanding at its community centres and community clubs. The community centres and community clubs conduct regular sports and performing arts courses.

The Arts

The National Arts Council (NAC) compiles data on arts activities from performing venues, arts groups and impresarios, newspapers and magazines. Prior to the implementation of goods and services tax in April 1994, pertinent data were also provided by the Customs & Excise Department. Popular entertainment shows (such as 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-discipline performances (eg. 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.

24.1

TELEVISION LICENCES, CABLE VISION SUBSCRIBERS, REDIFFUSION SUBSCRIBERS AND CINEMAS (End of Period)

	1990	1995	1996	1997	1998	1999	2000
Television Licences ¹ (No)	582,540	652,970	681,597	600,382	704,296	677,008	760,640
Cable Vision Subscribers (No)	-	24,027	57,580	104,027	144,000	207,000	255,000
Rediffusion Subscribers (No)	45,376	27,017	24,903	22,132	19,013	16,236	14,496
Cinemas (No)	56	108	131	135	133	144	134
Seating Capacity ('000)	48	49	51	53	46	46	40
Attendances ('000)	20,655	18,128	17,258	17,347	16,397	14,774	13,441

Source : Singapore Broadcasting Authority

Singapore Cable Vision Ltd

Rediffusion (Singapore) Pte Ltd

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.

24.2

RADIO AND TELEVISION TRANSMISSION

	1990	1995	1996	1997	1998	1999	2000
	Hours Per Week						
Radio (MediaCorp, NTUC ¹ & SAFRA ²)	1,218	2,158	2,277	2,590	2,828	2,843	2,499
Television (MediaCorp)	172	336	491	488	483	455	710

Source : Media Corporation of Singapore

NTUC Media Co-operative Ltd

SAFRA Radio

1 Operated with effect from January 1991.

2 Operated with effect from October 1994.

24.3

NATIONAL LIBRARY MEMBERSHIP, BOOK COLLECTIONS
AND LOANS OF BOOKS

	Thousand						
	1990	1995	1996	1997	1998	1999	2000
Membership	722.3	1,035.0	1,254.5	1,318.8	1,559.8	1,719.6	1,839.3
Persons Aged 12 years and Over ¹	545.8	827.0	1,006.7	985.6	1,268.9	1,394.6	1,486.7
Children Under 12 Years ²	176.5	208.0	247.8	333.2	290.9	325.0	352.6
Book Collections	2,437.1	3,134.1	4,123.5	4,846.1	5,162.7	5,419.8	6,065.4
English	1,492.4	1,949.7	2,706.2	3,210.7	3,236.4	3,454.7	3,897.2
Chinese	613.7	736.7	891.5	1,084.5	1,371.1	1,409.2	1,537.9
Malay	264.2	352.5	411.6	415.0	412.4	416.1	473.7
Tamil	66.8	95.2	114.2	136.0	142.8	139.8	156.6
Loan of Books	9,118.1	12,429.2	14,209.5	22,500.1	23,323.1	24,757.1	24,543.4
Persons Aged 12 Years and Over ¹	4,290.6	5,965.2	6,664.7	10,717.7	11,852.8	12,432.1	13,477.3
Children Under 12 Years ²	4,827.5	6,464.0	7,544.8	11,782.4	11,470.3	12,325.0	11,066.1

Source : National Library Board

1 From 1997 onwards, figures refer to persons aged 13 years and over.

2 From 1997 onwards, figures refer to children under 13 years.

24.4

DAILY NEWSPAPER CIRCULATION

	Number						
	1990	1995	1996	1997	1998	1999	2000
Total	833,037	1,063,305	1,071,732	1,092,898	1,125,520	1,148,137	1,197,301
English	398,397	508,399	511,488	524,525	539,495	545,523	551,463
Chinese	383,810	488,874	493,934	500,479	514,531	528,219	570,775
Malay	46,680	60,237	58,357	58,933	61,612	64,289	65,103
Tamil	4,150	5,795	7,953	8,961	9,882	10,106	9,960

Source : Singapore Press Holdings Ltd

Notes : Refer to daily average circulation for January-December.

English Newspapers - The Straits Times/Sunday Times, Business Times, New Paper/New Paper Sunday.

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.

24.5 VISITORS TO PLACES OF INTEREST

	1990	1995	1996	1997	1998	1999	2000
Thousand							
Singapore History Museum ¹	-	293.0	251.8	262.6	242.5	335.1	308.7
Singapore Art Museum ²	-	-	104.8	159.6	183.5	180.8	133.9
Asian Civilisations Museum ³	-	-	-	47.7	85.9	141.6	71.3
Singapore Philatelic Museum ⁴	-	12.9	23.2	29.5	38.7	43.3	37.8
Singapore Science Centre	711.9	542.9	427.9	637.5	469.4	510.1	489.6
Singapore Zoological Gardens	1,341.3	1,438.5	1,509.0	1,410.6	1,319.4	1,386.3	1,323.3
Sentosa ⁵	2,590.0	3,868.0	4,100.0	3,497.0	3,309.4	3,370.7	3,392.5
Chinese/Japanese Gardens ⁵	453.0	243.0	251.6	247.6	216.5	209.7	205.8
Jurong Bird Park ⁵	1,009.6	1,513.6	1,510.9	1,107.9	817.6	889.1	965.1

Source : National Heritage Board

Sentosa Development Corporation

Singapore Science Centre

Singapore Leisure Industries Pte Ltd

Singapore Zoological Gardens

Jurong Bird Park

1 Major renovation and repair were carried out during January 1989 - November 1990.

2 Opened in January 1996.

3 Opened in April 1997.

4 Opened in August 1995.

5 Figures refer to financial years from April to March of the following year.

24.6 UTILISATION OF SPORTS FACILITIES

	1990	1995	1996	1997	1998	1999	2000
Number							
Attendances							
Swimming	6,011,906	5,743,594	6,801,879	6,446,163	6,819,658	6,368,590	6,367,394
Bookings							
Tennis	161,476	108,327	99,902	108,432	99,639	102,250	105,220
Badminton	78,188	150,157	149,193	155,399	181,858	205,474	228,684
Squash	60,074	44,360	41,519	35,459	35,433	28,298	23,818
Netball	397	3,614	4,613	5,133	5,044	5,042	6,016
Soccer	8,156	10,757	9,874	9,911	9,108	7,796	7,892
Hockey	1,129	1,553	1,801	1,777	2,098	3,328	4,154
Rugby	81	301	345	474	417	535	485
Athletics	464	592	641	649	694	616	693
Golf (Persons)	18,256	5,791	4,762	4,657	4,003	5,159	4,413

Source : Singapore Sports Council

Note : Data refer to sports facilities provided by Singapore Sports Council.

24.7

SPORTS AND CULTURAL COURSES CONDUCTED
BY COMMUNITY CENTRES/CLUBS

Type of Course	Number						
	1990	1995	1996	1997	1998	1999	2000
Classes							
Sports Courses	2,452	2,371	2,540	2,243	2,795	3,010	3,355
Ball Games	387	136	133	75	67	94	62
Board / Intellectual Games	4	-	11	2	-	1	29
Keep Fit	347	331	313	308	343	478	601
Martial Arts	835	809	824	904	908	1,022	1,192
Performing Sports	117	109	96	120	108	98	140
Water Sports	762	986	1,163	834	1,369	1,317	1,331
Performing Arts Courses	5,474	6,700	5,700	4,018	4,492	14,500	12,420
Dance	3,022	2,900	2,300	1,596	1,679	5,400	3,941
Drama	29	500	300	270	318	500	688
Music	2,420	2,100	2,000	1,350	1,659	6,300	6,332
Vocal ¹	-	1,200	1,100	797	836	2,300	1,459
Others	3	-	-	5	-	-	-
Participants							
Sports Courses	45,219	35,327	38,788	36,631	40,872	43,773	46,220
Ball Games	3,601	1,372	1,670	994	806	1,251	526
Board / Intellectual Games	41	-	84	14	-	9	358
Keep Fit	6,974	6,217	4,767	4,518	4,979	6,438	8,574
Martial Arts	24,328	15,734	17,067	19,256	18,844	21,913	22,858
Performing Sports	3,853	3,043	2,114	2,933	2,432	1,852	1,626
Water Sports	6,422	8,961	13,086	8,916	13,811	12,310	12,278
Performing Arts Courses	88,277	95,000	99,000	130,052	137,477	156,200	108,665
Dance	57,207	46,000	46,000	62,681	69,559	79,600	60,399
Drama	461	8,000	9,000	9,327	8,056	7,500	7,933
Music	30,525	16,000	18,000	19,768	22,447	26,500	12,399
Vocal ¹	-	25,000	26,000	38,105	37,415	42,600	27,934
Others	84	-	-	171	-	-	-

Source : People's Association

Note : Prior to 1998, period refers to financial year from April to March of the following year.

From 1998 onwards, period refers to calendar year.

¹ Prior to financial year 1993, Vocal was grouped under Music.

24.8 THE ARTS

Art Form	Number						
	1990	1995	1996	1997	1998	1999	2000
Performing Arts							
Total Performances ¹	1,693	2,038	2,824	2,510	3,777	3,765	3,788
Music	492	516	845	854	1,125	1,265	1,309
Dance	123	177	339	253	369	474	507
Theatre	931	1,187	1,297	1,212	1,624	1,642	1,629
Others	147	158	343	191	659	384	343
Ticketed Performances	949	1,569	1,658	1,511	1,749	2,066	2,055
Music	333	348	361	399	389	501	521
Dance	57	106	192	133	166	155	195
Theatre	495	1,010	992	926	1,139	1,278	1,265
Others	64	105	113	53	55	132	74
Attendances ²	721,539	749,556	705,142	754,115	821,698	914,020	857,892
Music	348,689	218,812	223,407	245,158	258,252	287,931	300,008
Dance	49,619	54,080	98,579	84,204	89,009	87,639	147,474
Theatre	274,041	414,891	337,741	391,612	432,912	369,120	349,183
Others	49,190	61,773	45,415	33,141	41,525	169,330	61,227
Visual Arts Exhibitions							
Number	203	255	273	346	399	406	520
Days	1,892	3,265	3,270	4,115	6,164	7,654	8,376

Source : National Arts Council

Note : Data for 2000 are preliminary.

1 Include non-ticketed performances.

2 Refer to ticketed attendance.

24.9 REGISTERED ARTS SOCIETIES AND COMPANIES

Arts Discipline	Number					
	1995	1996	1997	1998	1999	2000
Societies ¹						
Total	198	205	215	213	224	228
Music	53	53	55	54	59	61
Dance	19	19	20	21	21	23
Chinese Opera	10	10	10	10	10	12
Theatre	32	35	40	39	41	43
Literature	13	13	13	13	13	14
Visual Arts	36	36	36	35	39	36
Photography	9	9	9	9	9	10
Multi-Discipline	26	30	32	32	32	29
Companies ²						
Total	187	201	198	212	220	256
Music	10	10	10	11	14	19
Dance	5	5	5	5	8	10
Chinese Opera	21	24	24	29	27	27
Theatre	18	17	18	19	25	32
Visual Arts	122	134	130	137	135	150
Multi-Discipline	11	11	11	11	11	18

Source : National Arts Council.

1 Include arts societies registered under the Registrar of Societies.

2 Include arts companies registered under the Registrar of Companies and Businesses.

Type of Property	1990	1991	1992	1993	1994	1995	1996
Total	1,095	1,095	1,095	1,095	1,095	1,095	1,095
Commercial, residential purpose, such as shops, offices, etc.	1,095	1,095	1,095	1,095	1,095	1,095	1,095
Manufacturing, storage, sales, services and public buildings	1,095	1,095	1,095	1,095	1,095	1,095	1,095
Non-building : Refers to all other properties or things other than buildings, such as vehicles, vessels, aircraft, electrical cables, etc.	1,095	1,095	1,095	1,095	1,095	1,095	1,095

Definitions

Residential building : Refers to all buildings, either permanent or temporary, used for residential purpose or for hotels, boarding houses, etc.

MISCELLANEOUS

Singapore's crime statistics are compiled from offences reported to the police during the reference period and not the time the offences were actually committed.

Public commercial and industrial buildings : Refers to all buildings, either permanent or temporary, used for other than residential purpose.

Offence	1990	1991	1992	1993	1994	1995	1996
Robbery	1,095	1,095	1,095	1,095	1,095	1,095	1,095
Housebreaking	1,095	1,095	1,095	1,095	1,095	1,095	1,095
Motor Vehicle Theft	1,095	1,095	1,095	1,095	1,095	1,095	1,095
Search Theft	1,095	1,095	1,095	1,095	1,095	1,095	1,095

Offence	1990	1991	1992	1993	1994	1995	1996
Robbery	1,095	1,095	1,095	1,095	1,095	1,095	1,095
Housebreaking	1,095	1,095	1,095	1,095	1,095	1,095	1,095
Motor Vehicle Theft	1,095	1,095	1,095	1,095	1,095	1,095	1,095
Search Theft	1,095	1,095	1,095	1,095	1,095	1,095	1,095

Source: Public Intelligence Department

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.

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, canal, discarded material, 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.

25.1 FIRE OCCURRENCES

Type of Property							Number
	1990	1995	1996	1997	1998	1999	2000
Total	6,444	5,091	5,508	6,705	6,047	5,850	5,280
Building	2,898	3,831	4,021	4,430	4,604	4,696	4,320
Residential	2,253	3,262	3,287	3,620	3,796	3,876	3,560
Commercial & Industrial	645	569	734	810	808	820	760
Non-Building	3,546	1,260	1,487	2,275	1,443	1,154	960

Source : Singapore Civil Defence Force

25.2 SELECTED CRIMINAL OFFENCES

Type of Offence	1990	1995	1996	1997	1998	1999	2000
	Number of Cases Reported						
Robbery	1,577	784	768	741	895	663	463
Housebreaking	3,790	1,921	1,737	1,526	1,687	1,562	993
Motor Vehicle Theft	3,685	2,647	2,467	2,242	2,736	2,149	1,651
Snatch Theft	999	409	313	315	452	348	299
	Per 100,000 Population						
Robbery	52	22	21	20	23	17	12
Housebreaking	124	54	47	40	43	40	25
Motor Vehicle Theft	121	75	67	59	70	54	41
Snatch Theft	33	12	9	8	12	9	7

Source : Police Intelligence Department

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