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YEARBOOK OF STATISTICS SINGAPORE 1991



DEPARTMENT OF STATISTICS
SINGAPORE

PREFACE

The Yearbook of Statistics, Singapore, 1991 is the twenty-fifth edition published by the Department of Statistics. This Yearbook puts together important statistical series on the demographic, economic and social characteristics of Singapore and relevant statistical charts highlighting socio-economic trends. Annual series for eleven years are included wherever available to facilitate time series analysis.

The Department regularly reviews and updates the contents of the Yearbook to keep pace with the latest developments in Singapore. It has included sixteen new series of interest in this edition. Details of the new series are given in the Notes on Changes and Revisions in pages xiii - xv. Brief notes on coverage, definitions and data sources are given in each section. A 'Feedback' page is enclosed at the end of this publication and we would appreciate readers' response to help us further improve the Yearbook.

Most of the data are compiled from series maintained by the Department of Statistics and other government departments and statutory bodies. The Department of Statistics gratefully acknowledges the cooperation and assistance of all the organisations that have provided data for publication in this Yearbook.

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NOTATIONS

p preliminary
na not available

nec not elsewhere classified
- nil or negligible

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 16 new tables are included in this edition:

- | | | |
|-------|-------|---|
| Table | 3.10 | Average Monthly Earnings by Industry, 1981-1991; |
| | 6.15 | Indices of Unit Labour Cost and Unit Business Cost, 1981 - 1991; |
| | 9.5 | Retail Sales Index, 1988 - 1991; |
| | 9.6 | Sales Index of Catering Trade, 1988 - 1991; |
| | 11.21 | Vehicles Involved in Road Accidents by Type of Vehicle, 1980 - 1990; |
| | 13.3 | Government Development Expenditure, 1981 - 1991; |
| | 14.2 | Price Indices of Selected Consumer Items, 1981-1991; |
| | 18.1 | Grassroots Organisations, 1981 - 1991; |
| | 18.2 | Volunteers by Volunteer Group and Type of Service, 1981 - 1991; |
| | 18.3 | Enrolment in Child Care Centres by Type of Programme and Organisation, 1981 - 1991; |
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| | 20.1 | Fire Occurrences and Value of Property Damaged, 1981 - 1991. |

NOTES ON CHANGES AND REVISIONS *(continued)*

Replacement of Existing Series

Data obtained from the complete count in the 1990 Population Census are provided in Tables 2.1 - 2.3 and 2.5. The mid-year population estimates and pertinent vital rates for the intercensal years 1981 - 1989 have been revised to refer to Singapore residents only.

Table 3.11 which shows the Average Basic and Gross Wages for Major Occupational Groups, 1991 replaces the previous table on Average Monthly Earnings by Industry and Occupation.

In Table 12.14, data on **Post Office Savings Bank** refer to Savings and Current Accounts. The new series replaces the previous series which refers to Savings Accounts only.

Other Changes

Data on contracts awarded and progress payments certified by type of work are available in Table 8.18 **Contracts Awarded by Sector and Type of Work** and Table 8.19 **Progress Payments Certified by Sector and Type of Work**.

Separate data for individual ASEAN countries are presented in Table 11.11 **Air Passengers by Region and Selected Country of Embarkation and Disembarkation**.

The list of items in Table 14.3 **Retail Prices of Selected Foodstuffs** has been revised.

Detailed data by commodity are available for Table 14.4 **Domestic Supply Price Index**, Table 14.5 **Singapore Manufactured Products Price Index**, Table 14.6 **Import Price Index** and Table 14.7 **Export Price Index**. Explanations for these price indices can be found in the respective Technical Notes published by the Department of Statistics.

Other Changes (*continued*)

The following two tables (in previous editions) have been removed:

Table 3.20 Industrial Stoppages and Trade Disputes;

Table 4.4 Quarterly Gross Domestic Product by Industry.

KEY INDICATORS

ECONOMIC INDICATORS I, 1981-1991

Year	National Income									Manufacturing		
	Gross National Product	Per Capita Indigenous Gross National Product	Gross National Saving	Gross Capital Formation	Gross Domestic Product	Gross Fixed Capital Formation	Consumption Expenditure			Net Investment Commitments	Output ²	Index of Industrial Production ² (1989 = 100)
							Total	Public	Private			
	At Current Market Prices				At 1985 Market Prices							
	\$ Million	\$	\$ Million									
1981	28,191.2	9,854	10,482.5	13,587.0	31,603.1	12,810.3	18,902.9	3,411.6	15,491.3	1,863.0	37,694.0	61.7
1982	31,775.7	11,085	12,885.2	15,658.8	33,772.3	15,405.7	19,950.2	3,863.8	16,086.4	1,704.5	37,141.1	58.3
1983	36,561.1	12,533	16,306.1	17,595.8	36,537.2	17,067.7	21,088.0	4,235.9	16,852.1	1,775.8 ¹	37,888.3	59.5
1984	40,815.1	13,599	18,596.4	19,417.3	39,572.5	18,677.4	22,168.8	4,457.2	17,711.6	1,828.4	41,704.1	64.9
1985	40,330.4	13,044	16,543.4	16,551.2	38,923.5	16,424.8	23,101.4	5,548.5	17,552.9	1,120.4	38,817.8	60.2
1986	39,612.5	12,824	15,588.5	14,894.8	39,641.4	14,540.2	23,894.5	5,606.8	18,287.7	1,450.0	37,502.9	65.3
1987	42,207.1	13,733	16,304.8	16,636.6	43,387.5	15,028.0	25,706.4	5,653.9	20,052.5	1,743.0	46,337.7	76.7
1988	49,862.0	15,424	20,224.0	18,435.0	48,221.6	16,259.6	28,096.9	5,339.1	22,757.8	2,007.4	56,804.5	90.8
1989	57,278.1	17,093	24,518.3	19,782.1	52,678.0	18,796.6	30,216.5	5,594.8	24,621.7	1,958.7	63,924.1	100.0
1990	64,467.4	18,865	28,850.5	24,918.1	57,072.7	21,625.4	32,481.0	6,228.8	26,252.2	2,487.4	71,578.5	109.9
1991 ^p	70,657.1	20,031	33,107.6	25,838.0	60,895.9	24,641.1	34,032.5	6,730.7	27,301.8	2,934.0	75,043.6	115.7

1 Exclude petrochemicals.

2 Refer to establishments engaging 10 or more workers.

GROWTH RATES IN ECONOMIC INDICATORS I, 1981-1991 *(continued)*

Per Cent

Year	National Income									Manufacturing		
	Gross National Product	Per Capita Indigenous Gross National Product	Gross National Saving	Gross Capital Formation	Gross Domestic Product	Gross Fixed Capital Formation	Consumption Expenditure			Net Investment Commitments	Output	Index of Industrial Production (1989=100)
							Total	Public	Private			
At Current Market Prices					At 1985 Market Prices							
1981	16.5	18.1	26.6	16.9	9.6	15.1	4.7	5.2	4.6	31.8	14.9	9.8
1982	12.7	12.5	22.9	15.2	6.9	20.3	5.5	13.3	3.8	-8.5	-1.5	-5.5
1983	15.1	13.1	26.5	12.4	8.2	10.8	5.7	9.6	4.8	4.2	2.0	2.1
1984	11.6	8.5	14.0	10.4	8.3	9.4	5.1	5.2	5.1	3.0	10.1	9.1
1985	-1.2	-4.1	-11.0	-14.8	-1.6	-12.1	4.2	24.5	-0.9	-38.7	-6.9	-7.2
1986	-1.8	-1.7	-5.8	-10.0	1.8	-11.5	3.4	1.1	4.2	29.4	-3.4	8.5
1987	6.5	7.1	4.6	11.7	9.4	3.4	7.6	0.8	9.7	20.2	23.6	17.5
1988	18.1	12.3	24.0	10.8	11.1	8.2	9.3	-5.6	13.5	15.2	22.6	18.4
1989	14.9	10.8	21.2	7.3	9.2	15.6	7.5	4.8	8.2	-2.4	12.5	10.1
1990	12.6	10.4	17.7	26.0	8.3	15.0	7.5	11.3	6.6	27.0	12.0	9.9
1991 ^p	9.6	6.2	14.8	3.7	6.7	13.9	4.8	8.1	4.0	18.0	4.8	5.3

ECONOMIC INDICATORS II, 1981-1991

Year	Building & Construction				External Trade								
	Gross Floor Area				Total	Exports							Imports
	Planning Approval	Building Plan Approval ¹	Building Commence-ment	Building Completed		Total	Domestic Exports			Re-exports			
							Total	Oil	Non-oil	Total	Oil	Non-oil	
	Thousand Square Metres				Million Dollars								
1981	9,952.8	3,486.8	8,849.9	4,842.3	102,538.8	44,290.8	29,452.0	16,778.0	12,674.0	14,838.8	346.0	14,492.8	58,248.0
1982	12,053.2	3,406.4	12,445.7	6,123.3	104,717.4	44,472.8	29,157.8	17,161.2	11,996.6	15,315.0	770.1	14,544.9	60,244.6
1983	11,669.0	5,538.6	12,454.5	6,725.1	105,659.1	46,154.9	29,206.4	15,233.6	13,972.8	16,948.5	776.7	16,171.8	59,504.2
1984	8,932.8	2,822.2	8,112.0	14,989.5	112,473.6	51,340.0	33,051.2	15,743.8	17,307.4	18,288.8	435.5	17,853.3	61,133.6
1985	7,769.0	1,958.7	6,141.2	11,423.9	107,996.3	50,178.8	32,575.5	15,840.1	16,735.4	17,603.3	612.1	16,991.2	57,817.5
1986	8,615.9	889.1	5,428.1	9,040.9	104,530.9	48,985.5	32,062.4	11,980.3	20,082.1	16,923.1	380.9	16,542.2	55,545.4
1987	7,517.1	1,178.7	4,309.9	7,160.0	128,680.9	60,265.7	39,070.6	11,753.5	27,317.1	21,195.1	444.5	20,750.6	68,415.2
1988	5,078.6	1,900.9	4,278.2	6,382.7	167,278.0	79,051.3	49,555.2	11,341.0	38,214.2	29,496.1	1,011.8	28,484.3	88,226.7
1989	5,234.5	2,832.9	6,635.3	4,167.9	183,980.2	87,116.5	55,251.7	13,223.9	42,027.8	31,864.8	219.1	31,645.7	96,863.7
1990	6,876.3	2,836.9	7,496.9	4,897.2	205,011.9	95,206.0	62,754.1	17,136.6	45,617.5	32,451.9	158.5	32,293.4	109,805.9
1991	7,689.2 ^p	3,964.9 ^p	8,707.2 ^p	4,588.8 ^p	216,074.4	101,879.5	66,031.1	17,201.8	48,829.3	35,848.4	169.2	35,679.2	114,194.9

¹ Refer to private sector only.

GROWTH RATES IN ECONOMIC INDICATORS II, 1981-1991 (continued)

Per Cent

Year	Building & Construction				External Trade								
	Gross Floor Area				Total	Exports							Imports
	Planning Approval	Building Plan Approval	Building Commence-ment	Building Completed		Total	Domestic Exports			Re-exports			
							Total	Oil	Non-oil	Total	Oil	Non-oil	
1981	6.5	25.5	20.1	-3.4	10.5	6.8	14.1	18.3	9.0	-5.2	-2.1	-5.2	13.4
1982	21.1	-2.3	40.6	26.5	2.1	0.4	-1.0	2.3	-5.3	3.2	122.6	0.4	3.4
1983	-3.2	62.6	0.1	9.8	0.9	3.8	0.2	-11.2	16.5	10.7	0.9	11.2	-1.2
1984	-23.4	-49.0	-34.9	122.9	6.4	11.2	13.2	3.3	23.9	7.9	-43.9	10.4	2.7
1985	-13.0	-30.6	-24.3	-23.8	-4.0	-2.3	-1.4	0.6	-3.3	-3.7	40.6	-4.8	-5.4
1986	10.9	-54.6	-11.6	-20.9	-3.2	-2.4	-1.6	-24.4	20.0	-3.9	-37.8	-2.6	-3.9
1987	-12.8	32.6	-20.6	-20.8	23.1	23.0	21.9	-1.9	36.0	25.2	16.7	25.4	23.2
1988	-32.4	61.3	-0.7	-10.9	30.0	31.2	26.8	-3.5	39.9	39.2	127.6	37.3	29.0
1989	3.1	49.0	55.1	-34.7	10.0	10.2	11.5	16.6	10.0	8.0	-78.3	11.1	9.8
1990	31.4	0.1	13.0	17.5	11.4	9.3	13.6	29.6	8.5	1.8	-27.7	2.0	13.4
1991	11.8 ^P	39.8 ^P	16.1 ^P	-6.3 ^P	5.4	7.0	5.2	0.4	7.0	10.5	6.8	10.5	4.0

ECONOMIC INDICATORS III, 1981-1991

Year	Transport & Communications								Utilities		
	Sea Cargo Handled			Air Cargo Handled			Outgoing Telex Calls	Inter- national Telephone Calls ¹	Electricity Generation	Gas Production	Water Consumption
	Total	Inward	Outward	Total	Discharged	Loaded					
	Thousand Freight Tonnes			Tonnes			Thousand		Million Kilowatt Hours		Million Cubic Metres
1981	92,563.0	54,936.2	37,626.8	197,103	100,931	96,172	9,563	5,058	7,461.6	625.6	276.4
1982	101,489.3	61,356.3	40,133.0	222,304	120,715	101,589	12,043	7,091	7,883.4	624.8	288.5
1983	106,348.4	65,882.6	40,465.8	260,925	144,722	116,203	13,893	9,673	8,665.1	605.4	307.3
1984	111,897.3	67,411.0	44,486.3	297,937	163,726	134,211	15,668	12,643	9,451.8	609.4	317.9
1985	105,835.8	62,086.2	43,749.6	300,019	167,388	132,631	16,243	15,725	9,917.0	569.9	322.7
1986	120,715.9	69,756.8	50,959.1	352,808	192,624	160,184	16,496	21,611	10,576.5	577.3	324.7
1987	129,458.3	75,779.7	53,678.6	419,097	222,160	196,937	16,026	30,797	11,813.8	623.5	334.7
1988	154,738.8	90,648.7	64,090.1	512,507	263,639	248,868	13,633	43,672	13,017.5	681.1	344.1
1989	174,297.8	98,367.0	75,930.8	577,610	297,198	280,412	11,419	58,653	14,039.0	722.4	355.6
1990	187,789.3	106,222.5	81,566.8	623,841	324,157	299,684	9,534	73,888	15,617.6	807.1	374.2
1991	206,400.0 ^P	116,500.0 ^P	89,900.0 ^P	643,209	342,261	300,948	7,808	88,438	16,596.6	883.7	399.0

¹ Exclude calls to Peninsular Malaysia.

GROWTH RATES IN ECONOMIC INDICATORS III, 1981-1991 *(continued)*

Per Cent

Year	Transport & Communications								Utilities		
	Sea Cargo Handled			Air Cargo Handled			Outgoing Telex Calls	Inter- national Telephone Calls	Electricity Generation	Gas Production	Water Consumption
	Total	Inward	Outward	Total	Discharged	Loaded					
1981	7.3	9.6	4.0	8.4	11.3	5.6	30.0	43.1	7.1	1.9	7.8
1982	9.6	11.7	6.7	12.8	19.6	5.6	25.9	40.2	5.7	-0.1	4.4
1983	4.8	7.4	0.8	17.4	19.9	14.4	15.4	36.4	9.9	-3.1	6.5
1984	5.2	2.3	9.9	14.2	13.1	15.5	12.8	30.7	9.1	0.7	3.4
1985	-5.4	-7.9	-1.7	0.7	2.2	-1.2	3.7	24.4	4.9	-6.5	1.5
1986	14.1	12.4	16.5	17.6	15.1	20.8	1.6	37.4	6.7	1.3	0.6
1987	7.2	8.6	5.3	18.8	15.3	22.9	-2.8	42.5	11.7	8.0	3.1
1988	19.5	19.6	19.4	22.3	18.7	26.4	-14.9	41.8	10.2	9.2	2.8
1989	12.6	8.5	18.5	12.7	12.7	12.7	-16.2	34.3	7.8	6.1	3.3
1990	7.7	8.0	7.4	8.0	9.1	6.9	-16.5	26.0	11.2	11.7	5.2
1991	9.9 ^P	9.7 ^P	10.2 ^P	3.1	5.6	0.4	-18.1	19.7	6.3	9.5	6.6

ECONOMIC INDICATORS IV, 1981-1991

End of Year	Exchange Rate of S\$ Per US\$ (Average)	Money Supply (M1)	Official Foreign Reserves		Commercial Banks					Asian Currency Units	Merchant Banks
			Total	Ratio to Imports	Total Assets/Liabilities	Deposits of Non-bank Customers	Advances to Non-bank Customers ¹	Prime Lending Rate	12-month Deposit Rate	Total Assets/Liabilities	
			\$ Million	Months	\$ Million			Per Cent		US\$ Million	\$ Million
1981	2.1127	7,242.1	15,491.1	3.19	44,630.7	20,007.9	25,229.1	11.83	8.95	85,775.2	19,279.6
1982	2.1400	8,156.8	17,917.9	3.57	48,537.2	23,408.7	29,442.9	9.33	7.08	103,295.7	22,020.4
1983	2.1136	8,607.7	19,755.3	3.98	56,537.8	26,265.5	34,045.8	8.98	6.75	111,860.9	23,625.0
1984	2.1331	8,866.3	22,768.0	4.47	65,707.2	28,026.3	36,867.5	9.40	6.80	128,054.7	25,844.9
1985	2.2002	8,785.0	27,070.9	5.62	70,618.0	28,744.5	37,403.1	7.20	4.88	155,374.2	28,207.0
1986	2.1774	9,821.3	28,157.5	6.08	76,833.3	30,612.6	35,792.8	6.10	3.30	200,601.8	31,581.4
1987	2.1060	11,030.5	30,441.7	5.34	86,483.6	36,393.0	37,868.6	6.10	3.56	244,868.5	32,119.5
1988	2.0124	11,957.7	33,276.6	4.53	96,441.2	42,475.3	41,848.8	6.13	4.03	280,477.2	36,925.1
1989	1.9503	13,744.6	38,607.2	4.78	127,201.7	53,351.1	50,785.9	6.25	4.55	336,581.8	34,048.0
1990	1.8125	15,260.9	48,521.3	5.30	134,002.0	63,979.7	57,696.4	7.73	5.48	390,395.5	32,336.0
1991	1.7276	16,430.0	55,795.2	5.86	136,093.4	72,241.1	64,009.1	7.10	4.17	357,725.0	30,022.5

1 Include bills financing.

GROWTH RATES IN ECONOMIC INDICATORS IV, 1981-1991 *(continued)*

Per Cent

End of Year	Exchange Rate of S\$ Per US\$ (Average)	Money Supply (M1)	Official Foreign Reserves	Commercial Banks					Asian Currency Units	Merchant Banks
				Total Assets/ Liabilities	Deposits of Non-bank Customers	Advances to Non-bank Customers	Prime Lending Rate	12-month Deposit Rate	Total Assets/Liabilities	
1981	-1.3	18.1	12.6	34.0	24.8	24.9	-13.0	-15.2	57.7	45.0
1982	1.3	12.6	15.7	8.8	17.0	16.7	-21.1	-20.9	20.4	14.2
1983	-1.2	5.5	10.3	16.5	12.2	15.6	-3.8	-4.7	8.3	7.3
1984	0.9	3.0	15.3	16.2	6.7	8.3	4.7	0.7	14.5	9.4
1985	3.1	-0.9	18.9	7.5	2.6	1.5	-23.4	-28.2	21.3	9.1
1986	-1.0	11.8	4.0	8.8	6.5	-4.3	-15.3	-32.4	29.1	12.0
1987	-3.3	12.3	8.1	12.6	18.9	5.8	-	7.9	22.1	1.7
1988	-4.4	8.4	9.3	11.5	16.7	10.5	0.5	13.2	14.5	15.0
1989	-3.1	14.9	16.0	31.9	25.6	21.4	2.0	12.9	20.0	-7.8
1990	-7.1	11.0	25.7	5.3	19.9	13.6	23.7	20.4	16.0	-5.0
1991	-4.7	7.7	15.0	1.6	12.9	10.9	-8.2	-23.9	-8.4	-7.2

ECONOMIC INDICATORS V, 1981-1991

Year	Finance Companies ¹			POSBank ¹	CPF ¹	Stock Exchange		Insurance Companies			
	Deposits from Individuals & Institutions	Loans for		Total Deposit Base	Amount Due to Members	Turnover of Stocks & Shares		Life Insurance		General Insurance	
		Hire Purchase of Motor Vehicles	Housing			Value	Volume	Policies in Force ¹		Net Premiums ²	Net Claims ³
								Number	Amount Insured		
	Million Dollars				Million Units	Number	Million Dollars				
1981	2,942.2	628.6	763.6	3,293.3	12,149.8	13,472.0	2,777.8	271,214	7,778.4	397.7	146.7
1982	3,711.5	590.1	879.7	5,076.1	15,655.5	5,176.7	1,666.1	314,375	10,721.0	431.0	165.6
1983	4,564.1	608.7	1,165.8	6,240.9	19,504.7	11,807.1	3,605.2	359,902	13,810.3	441.0	186.7
1984	5,278.3	565.8	1,348.9	7,333.1	22,670.4	8,211.2	3,042.6	379,880	16,421.8	440.9	195.4
1985	5,014.0	414.3	1,386.5	9,192.6	26,829.5	6,319.3	3,024.7	405,452	19,466.9	433.6	220.6
1986	4,889.1	288.9	1,445.1	10,637.5	28,341.4	8,000.5	3,951.4	463,139	23,439.8	421.4	230.1
1987	5,362.9	359.9	1,544.6	11,281.1	30,607.8	22,478.2	9,757.9	565,032	28,612.3	442.9	218.1
1988	5,824.9	754.9	1,506.7	12,261.7	32,529.3	12,817.0	7,152.3	702,986	38,472.5	508.6	225.2
1989	7,384.4	1,337.5	1,683.4	13,210.1	36,051.6	39,149.9	21,646.0	870,304	48,676.9	588.8	258.7
1990	8,397.2	1,503.1	1,606.2	13,387.6	40,646.4	36,756.0	18,487.0	1,055,353	59,455.1	692.7	302.7
1991	8,972.1	1,674.7	1,523.9	15,645.5	46,049.0 ^P	30,549.1	15,556.9	na	na	na	na

¹ Refer to end of year.

² Refer to gross premiums less premiums paid for re-insurance in and out of Singapore.

³ Refer to gross claims paid less recoveries from re-insurance placed in and out of Singapore.

GROWTH RATES IN ECONOMIC INDICATORS V, 1981-1991 (continued)

Per Cent

Year	Finance Companies			POSBank	CPF	Stock Exchange		Insurance Companies			
	Deposits from Individuals & Institutions	Loans for		Total Deposit Base	Amount Due to Members	Turnover of Stocks & Shares		Life Insurance		General Insurance	
		Hire Purchase of Motor Vehicles	Housing			Value	Volume	Policies in Force		Net Premiums	Net Claims
								Number	Amount Insured		
1981	38.7	17.0	19.8	18.2	27.2	72.2	25.0	9.3	22.8	16.7	3.6
1982	26.1	-6.1	15.2	54.1	28.9	-61.6	-40.0	15.9	37.8	8.4	12.9
1983	23.0	3.2	32.5	22.9	24.6	128.1	116.4	14.5	28.8	2.3	12.7
1984	15.6	-7.0	15.7	17.5	16.2	-30.5	-15.6	5.6	18.9	-	4.7
1985	-5.0	-26.8	2.8	25.4	18.3	-23.0	-0.6	6.7	18.5	-1.7	12.9
1986	-2.5	-30.3	4.2	15.7	5.6	26.6	30.6	14.2	20.4	-2.8	4.3
1987	9.7	24.6	6.9	6.1	8.0	181.0	146.9	22.0	22.1	5.1	-5.2
1988	8.6	109.8	-2.5	8.7	6.3	-43.0	-26.7	24.4	34.5	14.8	3.3
1989	26.8	77.2	11.7	7.7	10.8	205.5	202.6	23.8	26.5	15.8	14.9
1990	13.7	12.4	-4.6	1.3	12.7	-6.1	-14.6	21.3	22.1	17.6	17.0
1991	6.8	11.4	-5.1	16.9	13.3 ^P	-16.9	-15.8	na	na	na	na

ECONOMIC INDICATORS VI, 1981-1991

Year	Government Finance						Measures of Inflation			Tourism	
	Revenue ¹	Recurrent Expendi- ture ²	Public Debt ³			Debt Servicing Ratio	Consumer Price Index (Sep 87- Aug 88 = 100)	Domestic Supply Price Index (1985 = 100)	Gross Domestic Product Deflator (1985 = 100)	Visitor Arrivals ⁴	Hotel Occupancy Rate
			Total	Domestic	External						
	Million Dollars						Per Cent				Thousand
1981	7,344.6	3,936.3	17,138.2	16,241.8	896.4	0.8	92.1	111.5	92.8	2,828.6	85.7
1982	8,989.5	4,738.9	20,730.4	19,855.7	874.7	0.8	95.7	106.8	96.7	2,956.7	80.8
1983	10,612.6	5,726.4	25,031.5	24,359.9	671.6	1.3	96.8	102.9	100.5	2,853.6	75.5
1984	11,250.7	6,034.4	28,077.3	27,435.9	641.4	1.0	99.3	102.3	101.2	2,991.4	75.5
1985	10,829.4	6,678.3	32,164.4	31,568.1	596.3	2.4	99.8	100.0	100.0	3,031.0	65.9
1986	10,970.4	6,281.9	33,793.1	33,341.7	451.4	2.3	98.4	84.9	97.5	3,191.1	64.7
1987	10,470.9	8,465.9	38,274.3	37,971.1	303.2	1.3	98.9	91.3	98.3	3,678.8	68.7
1988	13,775.9	7,202.3	41,830.7	41,589.9	240.8	0.4	100.4	89.6	103.7	4,186.1	79.3
1989	15,508.9	7,681.9	46,209.7	46,071.0	138.7	0.7	102.8	91.9	107.9	4,830.0	86.4
1990	16,424.7	9,036.8	51,425.6	51,357.7	67.9	0.2	106.3	93.5	111.6	5,322.9	84.0
1991	19,569.4 ^P	10,338.8 ^P	59,041.1	59,000.3	40.8	0.1 ^P	110.0	88.2	113.4 ^P	5,414.6	76.7

1 Refer to receipts credited to the Consolidated Revenue Account, Development Fund Account and Sinking Fund Account, but excludes Capital Receipts.

2 Refer to payments from the Consolidated Revenue Account, but excludes contributions to the Development Fund, Revolving Fund, Sinking Fund and repayment of loans.

3 Refer to end of year.

4 Exclude Malaysian arrivals by land.

GROWTH RATES IN ECONOMIC INDICATORS VI, 1981-1991 (continued)

Per Cent

Year	Government Finance					Measures of Inflation			Tourism	
	Revenue	Recurrent Expenditure	Public Debt			Consumer Price Index	Domestic Supply Price Index	Gross Domestic Product Deflator	Visitor Arrivals	Hotel Occupancy Rate
			Total	Domestic	External					
1981	23.7	7.8	16.8	18.3	-4.3	8.2	3.9	6.7	10.4	-0.5
1982	22.4	20.4	21.0	22.3	-2.4	3.9	-4.2	4.2	4.5	-5.7
1983	18.1	20.8	20.7	22.7	-23.2	1.2	-3.7	3.9	-3.5	-6.6
1984	6.0	5.4	12.2	12.6	-4.5	2.6	-0.6	0.7	4.8	-
1985	-3.7	10.6	14.6	15.1	-7.0	0.5	-2.3	-1.2	1.3	-12.7
1986	1.3	-5.9	5.1	5.6	-24.3	-1.4	-15.1	-2.5	5.3	-1.8
1987	-4.6	34.8	13.3	13.9	-32.8	0.5	7.5	0.8	15.3	6.2
1988	31.6	-14.9	9.3	9.5	-20.6	1.5	-1.9	5.5	13.8	15.4
1989	12.6	6.7	10.5	10.8	-42.4	2.4	2.6	4.1	15.4	9.0
1990	5.9	17.6	11.3	11.5	-51.0	3.4	1.7	3.4	10.2	-2.8
1991	19.1 ^P	14.4 ^P	14.8	14.9	-39.9	3.4	-5.7	1.6 ^P	1.7	-8.7

SOCIAL INDICATORS I, 1981-1991

Year	Resident Population						Vital Statistics					
	Mid-year Estimates	Rate of Growth	Population Density	Median Age	Dependency Ratio ¹	Index of Ageing ²	Crude Birth Rate	Crude Death Rate	Proportional Mortality Ratio ³	Infant Mortality Rate	Total Fertility Rate	Gross Reproduction Rate
	Thousand	Per Cent	Per Square Kilometre	Years	Per Cent		Per 1,000 Resident Population		Per Cent	Per 1,000 Live-births	Per 1,000 Resident Female population Aged 15-44 years	
1981	2,324.4	1.9	3,762	24.9	52.3	28.3	17.6	4.9	78.2	10.7	1,742	838
1982	2,365.7	1.8	3,827	25.5	51.0	29.5	17.5	4.9	78.0	10.7	1,707	817
1983	2,406.2	1.7	3,893	26.1	50.1	30.6	16.3	5.0	79.2	9.4	1,575	758
1984	2,443.7	1.6	3,940	26.7	49.4	31.7	16.5	4.8	79.1	8.8	1,582	756
1985	2,482.6	1.5	4,001	27.2	48.9	32.7	16.6	4.9	79.9	9.3	1,580	761
1986	2,518.6	1.5	4,051	27.8	48.3	34.1	14.8	4.6	80.0	9.4	1,396	670
1987	2,553.9	1.4	4,102	28.3	47.6	35.9	16.6	4.7	80.7	7.4	1,583	762
1988	2,598.5	1.7	4,154	28.8	47.3	37.4	19.8	4.9	80.9	6.9	1,902	920
1989	2,647.6	1.9	4,227	29.3	47.5	38.4	17.5	4.9	82.2	6.6	1,707	822
1990	2,705.1	2.2	4,273	29.8	47.7	39.4	18.4	4.8	81.7	6.7	1,823	878
1991	2,762.7	2.1	4,323	30.2	48.0	40.0	17.3 ^p	4.7 ^p	84.6 ^p	5.5 ^p	1,735 ^p	830 ^p

1 Residents under 15 years and those 60 years and over divided by residents aged 15-59 years.

2 Residents aged 60 years and over divided by those under 15 years.

3 Deaths at 50 years and over as percentage of total deaths.

SOCIAL INDICATORS II, 1981-1991

Year	Education										
	Pupils Per Teacher		Graduates of Institutions of Higher Learning	Student Enrolment Ratio ¹	Literacy Rate ²	Passes at			Government Recurrent Expenditure Per Student		
	Primary	Secondary				PSLE	GCE 'O' Level	GCE 'A' Level	Primary	Secondary	Tertiary
Number				Per Cent					Dollars		
1981	30	21	6,367	84.2	84.0	81.7	70.1	61.2	846	1,382	6,400
1982	30	21	6,519	86.7	84.6	87.3	75.4	64.1	1,176	1,827	8,496
1983	29	21	6,951	90.8	85.1	87.0	74.5	65.4	1,229	1,910	9,369
1984	28	23	8,332	93.6	85.5	85.5	79.9	65.3	1,399	2,090	9,742
1985	27	22	8,955	94.0	85.9	85.9	89.0	66.2	1,521	2,269	9,702
1986	26	23	10,418	95.5	86.4	85.6	85.3	70.8	1,429	1,981	8,574
1987	26	22	11,883	94.5	86.8	86.5	88.1	73.9	1,501	2,092	9,195
1988	26	22	12,582	93.9	87.3	86.5	89.2	72.5	1,723	2,410	8,370
1989	26	22	12,815	93.5	87.9	88.4	88.1	68.5	1,929	2,678	8,570
1990	26	21	13,711	92.4	90.1	88.2	88.9	76.5	2,061	2,982	9,457
1991	26	20	14,550	92.3	90.7	89.8	89.9	83.0	2,163	3,288	17,524

¹ Students aged 6-17 years divided by resident population of same age group

² For population 10 years and over. The rates have been revised to refer only to Singapore residents.
For 1990, the figure is based on 10 per cent sample data obtained from the 1990 Population Census.

SOCIAL INDICATORS III, 1981-1991

Year	Employment					Health			
	Labour Force (15 Years & Over)	Unemployment Rate (15 Years & Over)	Labour Force Participation Rate (15 Years & Over)	CPF Contributors in Labour Force	Union Members Among Employed	Per Capita ¹ Government Expenditure on Health	Persons Per ¹		
	Thousand	Per Cent				Dollar	Doctor	Dentist	Hospital Bed
1981	1,188	2.9	63.0	77.3	19.4	138	1,112	6,282	235
1982	1,253	2.6	63.4	74.0	17.6	160	1,063	5,885	241
1983	1,293	3.2	63.8	70.9	16.4	167	1,019	5,519	244
1984	1,304	2.7	63.4	72.3	15.2	189	976	5,145	252
1985	1,288	4.1	62.2	69.1	16.3	200	944	5,005	248
1986	1,299	6.5	62.3	70.2	16.5	175	906	4,788	249
1987	1,329	4.7	62.7	70.4	16.2	171	869	4,585	255
1988	1,378	3.3	62.9	70.0	15.8	183	822	4,382	267
1989	1,425	2.2	63.1	69.4	15.3	199	779	4,118	275
1990	1,516	2.0	64.9	67.4	14.4	190	757	4,025	277
1991	1,554	1.9	64.8	67.7	14.2	227	731	4,051	282

Note : Labour force and unemployment rate for 1990 are based on 10 per cent sample data obtained from the Population Census.

¹ Data refer to resident population.

SOCIAL INDICATORS IV, 1981-1991

Year	Culture & Recreation				Communications			
	Daily Newspapers Circulation	Per Cent of National Library Members to Total Population		Annual Cinema Attendances	Television Licences	Persons Per		
	Per 1,000 Population	Under 12 Years	12 Years & Over	Per Person	Per 1,000 Population	Public Bus	Private Car	Taxi
1981	277	40.0	13.6	16	178	334	16	236
1982	278	42.1	17.8	15	179	312	15	230
1983	289	44.8	22.0	13	193	301	13	225
1984	290	46.3	25.1	11	194	295	12	221
1985	288	49.9	29.7	9	194	285	12	227
1986	272	51.3	33.3	8	202	292	13	236
1987	274	45.9	32.4	8	208	292	13	242
1988	286	27.6	14.6	9	213	291	12	248
1989	293	33.4	20.9	8	201	290	11	249
1990	301	34.7	24.8	8	215	286	11	221
1991	318	33.9	27.7	8	216	291	11	217

Note : Data refer to resident population.

SOCIAL INDICATORS V, 1981-1991

Year	Public Housing ¹				Utilities		Fire		Public Order	
	Public Flats		Per Cent of Total Population Living in ⁴		Domestic Electricity Consumption Per Resident	Domestic Water Consumption Per Resident	Number	Value of Property Damaged	Total Offences	Police Force
	Total ² Number Managed	Per Cent ³ Owner-occupied	Public Flats	Owner-occupied Public Flats	Kilowatt Hour	Cubic Metre		Million Dollars	Per 10,000 Resident Population	
1981	383,026	63	74	43	470.1	51.4	5,851	85.6	169	33
1982	399,935	66	75	50	493.3	52.5	6,093	26.5	167	31
1983	430,169	70	77	54	545.7	55.0	6,802	47.1	171	32
1984	506,340	74	81	60	546.8	55.7	4,646	28.0	184	32
1985	551,767	76	84	64	588.8	57.1	5,384	18.8	188	33
1986	585,445	78	85	66	621.5	57.4	5,306	17.3	198	33
1987	612,826	80	86	69	676.9	59.4	5,206	17.9	194	31
1988	630,645	82	87	71	717.4	61.4	4,718	39.9	223	30
1989	610,955	87	88	79	735.0	62.5	5,177	75.6	211	29
1990	623,821	87	87	80	884.3	65.6	6,444	43.7	204	29
1991	626,313	88	87	82	962.0	67.9	5,740	23.2	194	29

1 Prior to 1982, figures refer to flats managed by Housing and Development Board (HDB), Jurong Town Corporation and Housing and Urban Development Company. From 1982, all these flats were managed by HDB.

2 As at end of year.

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

4 Data for 1990 and 1991 refer to resident population.

1 CLIMATE, ATMOSPHERIC ENVIRONMENT AND LAND USE

CLIMATE, ATMOSPHERIC

1 CLIMATE, ATMOSPHERIC ENVIRONMENT AND LAND USE

Location

The Republic of Singapore, which is situated in the centre of Southeast Asia, is located between latitudes 1° 09'N and 1° 29'N and longitudes 103° 38'E and 104° 06'E. This location at the focal point of the trade routes contributes greatly to the development of Singapore as a regional centre for commerce, finance, transport and communications, and other services.

Geography

The land area of Singapore is approximately 639.1 square kilometres. It comprises the main island and a number of islets scattered off its north-east and south. The main island measures about 42 kilometres from east to west and 23 kilometres from north to south with a coastline of 150.5 kilometres.

Singapore can be geographically divided into three major areas - the central hilly area with heavy deposits of

granite in Bukit Timah, Bukit Panjang, Bukit Mandai and Bukit Batok; the western undulating area comprising Mouth Faber Ridge and Pasir Panjang Ridge and the eastern coastal area consisting of alluvium and sediment stretches from Katong to Bedok and Changi.

Climate

The main features of the climate of Singapore are relatively uniform temperature 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 31°C and 24°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 Ministry of the Environment monitors the ambient air quality through 12 stations located in urban, industrial and rural areas. Some of the pollutants commonly monitored are total acidity, smoke, nitrogen oxides and dust fallout. The total acidity measurement was monitored at 11 stations whereas the nitrogen oxides measurement was carried out at 8 stations

in 1991. The air pollution levels in 1991 are low and were all within the accepted international standards.

Land Use

Of the total land area, about 48.9 per cent has been developed for residential, commercial and industrial usage and another 1.7 per cent used for agriculture. The rest consists of forest reserves, marsh and other non-built up areas.

1.1 WEATHER CONDITION, 1981-1991

Year	Mean Temperature (°C)		Mean Relative Humidity at 2.00pm ¹ (%)	Rainfall			Bright Sunshine
	Maximum	Minimum		Total (mm)	Maximum in a Day (mm)	Number of Rainy days	Daily Mean Hours
1981	31.3	24.2	70	1,463	72	145	5.8
1982	31.4	24.6	69	1,582	109	130	5.7
1983	31.7	24.9	70	1,994	182	145	5.6
1984	30.8	24.0	74	2,687	154	191	5.1
1985	31.3	24.3	71	1,484	87	181	5.6
1986	31.1	24.4	71	2,536	132	174	5.5
1987	31.5	24.7	71	2,103	127	151	5.9
1988	31.3	24.6	72	2,599	187	173	5.4
1989	31.2	24.1	72	2,463	149	173	5.5
1990	31.8	24.8	69	1,524	154	142	6.2
1991	31.5	24.7	71	1,877	130	146	5.4

¹ Due to the introduction of 30 minutes of daylight saving since January 1982, the time of observation has been advanced from 1.30 pm to 2.00 pm.

Source : Meteorological Service

1.2 AIR POLLUTION LEVELS, 1981-1991

Year	Total Acidity Levels			Smoke Levels			Nitrogen Oxides Levels			Dust Fallout Levels		
	Urban	Industrial	Rural	Urban	Industrial	Rural	Urban	Industrial	Rural	Urban	Industrial	Rural
	Microgram per cubic metre at normal temperature & pressure									Grams per square metre per month		
1981	33	32	22	28	19	19	56	41	38	0.86	1.11	0.68
1982	31	34	25	24	20	20	61	50	48	0.69	1.36	0.70
1983	34	32	21	25	19	15	50	31	-	1.10	1.31	1.01
1984	35	28	24	26	18	16	62	38	-	0.87	0.92	0.83
1985	24	20	14	26	19	15	64	38	-	1.07	0.85	0.92
1986	18	14	9	25	17	15	65	44	-	0.90	0.70	0.79
1987	14	11	14	24	24	18	97	45	-	0.77	0.90	0.72
1988	17	21	16	26	23	16	37	35	-	0.75	0.80	0.61
1989	25	18	24	24	20	17	42	31	-	0.75	0.82	0.53
1990	21	29	14	22	21	16	45	34	-	0.70	0.69	0.59
1991	16	28	13	19	21	15	29	44	-	0.54	0.69	0.60

Source : Ministry of the Environment

1.3 LAND USE, 1981-1991

Square Kilometres

Year	Total	Built-up Area ¹	Farm Holding Area ²	Forest	Marsh & Tidal Waste	Others ³
1981	617.9	288.6	74.9	28.6	22.4	203.4
1982	618.1	289.9	67.7	28.6	21.4	210.5
1983	618.1	291.7	64.3	28.6	21.1	212.4
1984	620.2	295.0	58.9	28.6	18.7	219.0
1985	620.5	298.8	47.1	28.6	18.5	227.5
1986	621.7	300.3	39.7	28.6	18.2	234.9
1987	622.6	302.9	32.6	28.6	15.7	242.8
1988	625.6	304.2	20.4	28.6	15.7	256.7
1989	626.4	307.4	12.0	28.6	15.7	262.8
1990	633.0	311.6	10.8	28.6	15.7	266.4
1991	639.1	312.4	6.8	28.6	15.7	275.7

¹ Include new industrial sites.

² Refer to licensed farms excluding land occupied by pure rubber and coconut plantations.

³ Include inland water, open spaces, public gardens, cemeteries, non-built up areas in military establishments, quarries, rubber and coconut plantations.

Source : Survey Department

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The Registration of Births and Deaths Act (cap 207)
 specifies that a birth must be registered within 42 days of the
 date of birth. Births registered after 42 days from occurrence
 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 7 days
 of occurrence. Still-births which are classified separately
 from births and deaths must be registered within 14 days of
 their occurrence.

Deaths are also registered in the death registration
 no registration facilities for birth and death are
 available at the Registry of Births and Deaths and at
 designated government hospitals. Deaths and still-births are
 also registered at gazetted police stations and stations
 throughout 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, life expectancy
 defined as the number of live births and deaths respectively of
 25-year-old males and females for the year 1981-1982.
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 is it and Singapore's first census was taken in April 1921. After
 that, regular censuses were taken in ten-year intervals up
 to 1971. The 2001 Census was delayed the next census till
 1971. In the pre-war censuses, Singapore was included as part
 of the Straits Settlements and later, part of Malaya. Separate
 censuses for Singapore were carried out since 1947. The 1947
 Census was Singapore's first census since independence.
 The first two censuses were conducted in 1970 and 1980.

Census data generally refer to all persons enumerated
 in Singapore at the time of the census except non-locally
 domiciled resident personnel and their dependents, ships,
 crew and passengers in transit in Singapore waters and
 foreign visitors in hotels. However, since the 1990
 Census, statistics for general population refer only to
 Singapore residents, that is citizens and those granted
 permanent residence in Singapore.

Mid-Year Estimates
 The mid-year population estimates for the Singapore
 years 1981-1989 have been based on the 1980 Singapore
 residents.

2 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. The 1990 Census was Singapore's third census since independence. The other two censuses were conducted in 1970 and 1980.

Census data generally refer to all persons enumerated in Singapore at the time of the census except non-locally domiciled services personnel and their dependents, ships' crew and passengers in transit in Singapore waters and foreign visitors living in hotels. However, data for the 1990 Census published for general information refer only to Singapore residents, that is, citizens and those granted permanent residence in Singapore.

Mid-Year Estimates

The mid-year population estimates for the intercensal years 1981-1989 have been revised to refer only to Singapore residents.

Births and Deaths

The Registration of Births and Deaths Act (cap 267), specifies that a birth must be registered within 42 days of the date of birth. Births registered after 42 days from occurrence are classified as late registrations. A birth registration after one year from the date of birth can only be effected with the written authority of the Registrar-General of Births and Deaths. Under the same Act, a death must be registered within 3 days of its occurrence. Still-births, which are classified separately from births and deaths, must be registered within 14 days of their occurrence.

Registration facilities for births and deaths are available at the Registry of Births and Deaths, and at designated government hospitals. Deaths and still-births can also be registered at 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 solemnization.

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 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 (ASFR) : 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 (GRR) : 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 child-bearing years.

Net reproduction rate (NRR) : 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 (ASMR) : 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". In addition to births and deaths data, the "Monthly Digest of Statistics" provides data on marriages.

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.

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.

More details on the revision of intercensal population estimates are available in a new report, "Singapore's Resident Population, 1980-1991", published by the Department of Statistics.

2.1 POPULATION, 1901 ..., 1981 -1991

Year	Population											Rate of Population Increase	Sex Ratio (Males Per 1,000 Females)
	Total			Chinese		Malays		Indians ¹		Others			
	Persons	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females		
	Thousand											Per Cent	
Census													
1901	227.6	170.0	57.6	130.4	33.7	20.2	15.8	14.3	3.4	5.1	4.7	2.3	2,951
1911	303.3	215.5	87.8	161.6	57.9	22.6	19.2	23.1	4.7	8.2	6.0	2.9	2,453
1921	418.3	280.9	137.4	214.2	100.9	29.6	24.0	26.9	5.4	10.2	7.1	3.3	2,044
1931	557.7	352.1	205.6	261.0	157.6	34.9	30.1	42.8	8.0	13.4	9.9	2.9	1,713
1947	938.2	515.0	423.2	387.4	342.1	62.3	51.5	51.7	17.3	13.6	12.3	3.3	1,217
1957	1,445.9	762.8	683.1	555.7	534.9	103.2	93.8	86.0	38.1	17.9	16.3	4.4	1,117
1970	2,074.5	1,062.1	1,012.4	796.5	783.4	158.4	153.0	87.5	57.6	19.7	18.4	2.8	1,049
1980	2,282.1	1,159.0	1,123.1	900.2	887.6	167.3	161.4	80.4	63.0	11.1	11.1	1.3 ²	1,032
1990	2,705.1	1,370.1	1,335.0	1,057.6	1,045.2	195.2	187.4	103.4	87.5	13.9	14.9	2.2	1,026
Mid-year Estimates													
1981	2,324.4	1,179.8	1,144.6	916.2	903.8	169.6	163.7	82.7	65.6	11.3	11.5	1.9	1,031
1982	2,365.7	1,200.3	1,165.4	931.8	919.4	171.9	165.9	85.0	68.2	11.6	11.9	1.8	1,030
1983	2,406.2	1,220.5	1,185.7	946.8	934.5	174.4	168.3	87.4	70.6	11.9	12.3	1.7	1,029
1984	2,443.7	1,239.1	1,204.6	960.5	948.3	176.9	170.6	89.5	73.1	12.2	12.6	1.6	1,029
1985	2,482.6	1,258.5	1,224.1	974.6	962.5	179.6	173.0	91.8	75.5	12.5	13.1	1.5	1,028
1986	2,518.6	1,276.5	1,242.1	987.4	975.4	182.4	175.5	94.0	77.7	12.7	13.5	1.5	1,028
1987	2,553.9	1,294.2	1,259.7	1,000.0	988.1	185.0	178.0	96.2	79.9	13.0	13.7	1.4	1,027
1988	2,598.5	1,316.6	1,281.9	1,016.8	1,004.7	188.1	180.9	98.4	82.3	13.3	14.0	1.7	1,027
1989	2,647.6	1,341.3	1,306.3	1,035.6	1,023.5	191.5	183.9	100.7	84.6	13.5	14.3	1.9	1,027
1990 (Census)	2,705.1	1,370.1	1,335.0	1,057.6	1,045.2	195.2	187.4	103.4	87.5	13.9	14.9	2.2	1,026
1991	2,762.7	1,398.0	1,364.7	1,078.7	1,067.4	199.5	191.7	105.1	90.0	14.7	15.6	2.1	1,024

Notes : Figures from 1901 to 1970 refer to total population present in Singapore.
From 1980, figures refer to Singapore residents (citizens and permanent residents).

- 1 From 1970, Indians include Sri Lankans (Ceylonese) who were previously classified under 'Others'.
2 Refer to average annual rate of increase of resident population during 1970-1980.

2.2 ESTIMATES OF MALE RESIDENTS BY AGE GROUP, 1981 -1991

											Thousand
Age Group (Years)	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990 ¹	1991
Total	1,179.8	1,200.3	1,220.5	1,239.1	1,258.5	1,276.5	1,294.2	1,316.6	1,341.3	1,370.1	1,398.0
0 - 4	98.3	99.8	103.0	103.6	105.5	105.3	103.8	106.2	112.2	115.7	121.4
5 - 9	109.6	106.9	102.1	100.2	99.7	101.0	102.1	104.7	105.0	106.4	106.6
10 - 14	113.6	112.6	113.3	114.1	113.5	110.9	108.5	103.9	102.1	102.3	103.7
15 - 19	136.4	132.5	128.1	121.8	116.9	113.7	113.0	113.9	114.8	114.5	112.0
20 - 24	143.1	143.4	142.7	141.6	138.6	135.5	131.7	127.7	122.0	118.4	116.5
25 - 29	124.8	131.9	137.8	141.9	145.6	147.7	147.2	146.5	145.5	143.7	142.1
30 - 34	106.0	109.1	113.6	118.9	123.9	130.1	136.5	141.5	145.3	149.3	151.9
35 - 39	62.7	71.5	80.5	89.2	100.8	109.1	112.2	117.1	122.6	128.7	135.0
40 - 44	64.9	66.6	66.8	66.8	63.7	63.9	72.8	81.9	90.5	103.3	112.2
45 - 49	53.3	53.9	55.0	58.4	61.0	64.2	66.2	66.7	66.9	64.3	64.7
50 - 54	48.0	48.8	49.7	49.9	51.3	52.2	52.4	53.4	56.4	59.1	62.8
55 - 59	36.8	38.4	40.3	42.4	44.2	45.7	46.4	47.3	47.9	49.7	50.2
60 - 64	30.1	30.7	31.4	32.1	33.0	34.1	35.6	37.4	39.1	40.9	42.1
65 - 69	23.2	23.3	23.7	24.2	25.0	25.9	26.6	27.5	28.4	29.3	30.4
70 & Over	29.0	30.9	32.5	34.1	35.8	37.2	39.2	40.9	42.6	44.5	46.4

¹ Census of Population.

2.3 ESTIMATES OF FEMALE RESIDENTS BY AGE GROUP, 1981 -1991

Thousand

Age Group (Years)	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990 ¹	1991
Total	1,144.6	1,165.4	1,185.7	1,204.6	1,224.1	1,242.1	1,259.7	1,281.9	1,306.3	1,335.0	1,364.7
0 - 4	90.8	92.2	94.8	95.6	97.8	97.0	96.3	98.7	104.5	107.7	113.1
5 - 9	102.1	99.7	95.4	93.2	92.4	93.8	94.5	96.8	97.1	98.6	98.4
10 - 14	107.6	105.8	106.2	106.5	105.9	103.6	101.3	97.1	95.1	95.6	96.9
15 - 19	129.6	126.6	122.3	116.3	111.0	107.2	105.5	106.3	107.1	106.9	105.1
20 - 24	135.0	135.6	135.6	135.1	133.1	131.1	127.7	123.6	117.5	113.9	112.4
25 - 29	121.0	127.3	132.6	136.8	139.6	141.1	140.9	140.6	140.5	140.0	140.0
30 - 34	104.8	107.7	111.7	115.9	120.7	126.3	131.8	136.5	140.2	143.7	146.2
35 - 39	62.1	70.5	79.5	87.8	99.2	107.5	110.3	114.2	118.7	124.0	130.0
40 - 44	64.9	66.8	67.1	66.6	63.2	62.9	71.5	80.6	88.8	100.7	109.2
45 - 49	52.6	53.0	54.2	57.7	60.3	63.9	66.2	66.7	66.4	63.3	63.1
50 - 54	45.6	46.9	47.9	48.6	50.6	51.8	51.8	52.9	56.0	58.4	62.7
55 - 59	34.6	36.3	38.2	40.6	43.1	44.7	45.8	46.5	47.7	50.1	50.7
60 - 64	30.0	30.5	31.3	32.0	32.3	33.4	35.1	37.1	39.6	41.9	43.2
65 - 69	25.3	25.7	25.9	26.5	27.3	28.0	28.6	29.3	29.9	30.4	31.6
70 & Over	38.6	40.8	43.3	45.4	47.6	49.8	52.4	55.0	57.2	59.8	62.1

¹ Census of Population.

2.4 SINGAPORE RESIDENTS BY AGE GROUP, ETHNIC GROUP AND SEX, 1990 CENSUS

Age Group (Years)	Total			Chinese			Malays			Indians			Others		
	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
Thousand															
Total	2,705.1	1,370.1	1,335.0	2,102.8	1,057.6	1,045.2	382.6	195.2	187.4	190.9	103.4	87.5	28.8	13.9	14.9
0 - 4	223.4	115.7	107.7	157.0	81.6	75.4	45.3	23.2	22.1	17.4	9.0	8.4	3.7	1.9	1.8
5 - 9	205.0	106.4	98.6	150.0	78.0	72.0	37.4	19.3	18.1	15.1	7.8	7.3	2.5	1.3	1.2
10 - 14	197.9	102.3	95.6	156.0	80.7	75.3	27.6	14.3	13.3	12.5	6.4	6.1	1.8	0.9	0.9
15 - 19	221.4	114.5	106.9	173.6	89.7	83.9	31.8	16.5	15.3	14.3	7.4	6.9	1.7	0.9	0.8
20 - 24	232.3	118.4	113.9	174.8	89.1	85.7	38.4	19.6	18.8	17.1	8.8	8.3	2.0	0.9	1.1
25 - 29	283.7	143.7	140.0	213.6	108.1	105.5	46.3	23.8	22.5	21.1	10.6	10.5	2.7	1.2	1.5
30 - 34	293.0	149.3	143.7	229.4	116.6	112.8	40.1	20.7	19.4	20.6	10.7	9.9	2.9	1.3	1.6
35 - 39	252.7	128.7	124.0	204.3	104.3	100.0	29.8	15.0	14.8	16.3	8.3	8.0	2.3	1.1	1.2
40 - 44	204.0	103.3	100.7	167.7	85.1	82.6	21.0	10.4	10.6	13.2	6.8	6.4	2.1	1.0	1.1
45 - 49	127.6	64.3	63.3	105.8	53.3	52.5	12.1	5.7	6.4	8.5	4.7	3.8	1.2	0.6	0.6
50 - 54	117.5	59.1	58.4	95.1	47.8	47.3	13.0	6.4	6.6	8.1	4.3	3.8	1.3	0.6	0.7
55 - 59	99.8	49.7	50.1	77.9	38.2	39.7	12.5	5.8	6.7	8.1	5.1	3.0	1.3	0.6	0.7
60 - 64	82.8	40.9	41.9	63.0	29.2	33.8	10.8	5.6	5.2	7.9	5.6	2.3	1.1	0.5	0.6
65 - 69	59.7	29.3	30.4	45.5	20.4	25.1	7.8	4.3	3.5	5.5	4.1	1.4	0.9	0.5	0.4
70 & Over	104.3	44.5	59.8	89.1	35.5	53.6	8.7	4.6	4.1	5.2	3.8	1.4	1.3	0.6	0.7
Per Cent															
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0 - 14	23.2	23.7	22.6	22.0	22.7	21.3	28.8	29.1	28.6	23.6	22.4	24.9	27.8	29.3	26.3
15 - 59	67.7	67.9	67.5	68.6	69.2	67.9	64.0	63.4	64.6	66.7	64.5	69.3	60.6	59.4	61.8
60 & Over	9.1	8.4	9.9	9.4	8.1	10.8	7.2	7.5	6.8	9.7	13.1	5.8	11.6	11.3	11.9

2.5 ESTIMATES OF SINGAPORE RESIDENTS BY AGE GROUP, ETHNIC GROUP AND SEX, END JUNE 1991

Age Group (Years)	Total			Chinese			Malays			Indians			Others		
	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
Thousand															
Total	2,762.7	1,398.0	1,364.7	2,146.1	1,078.7	1,067.4	391.2	199.5	191.7	195.1	105.1	90.0	30.3	14.7	15.6
0 - 4	234.5	121.4	113.1	165.2	85.8	79.4	46.8	24.0	22.8	18.3	9.4	8.9	4.2	2.2	2.0
5 - 9	205.0	106.6	98.4	147.8	77.1	70.7	39.1	20.1	19.0	15.4	8.0	7.4	2.7	1.4	1.3
10 - 14	200.6	103.7	96.9	156.3	80.8	75.5	29.2	15.2	14.0	13.1	6.7	6.4	2.0	1.0	1.0
15 - 19	217.1	112.0	105.1	171.3	88.3	83.0	30.5	15.8	14.7	13.6	7.0	6.6	1.7	0.9	0.8
20 - 24	228.9	116.5	112.4	174.7	88.9	85.8	36.0	18.4	17.6	16.3	8.4	7.9	1.9	0.8	1.1
25 - 29	282.1	142.1	140.0	212.2	106.8	105.4	46.3	23.7	22.6	20.9	10.4	10.5	2.7	1.2	1.5
30 - 34	298.1	151.9	146.2	231.9	117.9	114.0	42.0	21.7	20.3	21.2	11.0	10.2	3.0	1.3	1.7
35 - 39	265.0	135.0	130.0	213.1	108.7	104.4	32.0	16.2	15.8	17.4	8.9	8.5	2.5	1.2	1.3
40 - 44	221.4	112.2	109.2	181.5	92.2	89.3	23.2	11.5	11.7	14.4	7.3	7.1	2.3	1.2	1.1
45 - 49	127.8	64.7	63.1	106.1	53.7	52.4	12.1	5.8	6.3	8.4	4.6	3.8	1.2	0.6	0.6
50 - 54	125.5	62.8	62.7	102.6	51.2	51.4	12.9	6.3	6.6	8.6	4.6	4.0	1.4	0.7	0.7
55 - 59	100.9	50.2	50.7	78.9	39.0	39.9	12.9	6.0	6.9	7.9	4.6	3.3	1.2	0.6	0.6
60 - 64	85.3	42.1	43.2	65.3	30.5	34.8	10.9	5.4	5.5	7.9	5.6	2.3	1.2	0.6	0.6
65 - 69	62.0	30.4	31.6	47.1	21.2	25.9	8.2	4.5	3.7	5.8	4.3	1.5	0.9	0.4	0.5
70 & Over	108.5	46.4	62.1	92.1	36.6	55.5	9.1	4.9	4.2	5.9	4.3	1.6	1.4	0.6	0.8
Per Cent															
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0 - 14	23.2	23.7	22.6	21.9	22.6	21.1	29.4	29.7	29.1	24.0	22.9	25.2	29.4	31.3	27.6
15 - 59	67.6	67.8	67.4	68.6	69.2	68.0	63.4	62.9	63.9	66.0	63.6	68.8	59.1	57.8	60.2
60 & Over	9.2	8.5	10.0	9.5	8.2	10.9	7.2	7.4	7.0	10.0	13.5	6.0	11.5	10.9	12.2

2.6 VITAL STATISTICS, 1981 -1991

Year	Live-births			Deaths		Natural Increase	Crude Birth Rate ²	Crude Death Rate ²	Rate of Natural Increase ²	Infant Mortality Rate
	Total ¹	Males	Females	Total	Infants					
	Number						Per 1,000 Resident Population			Per 1,000 Live-births
1981	42,250	21,910	20,336	12,863	451	29,387	17.6	4.9	12.7	10.7
1982	42,654	22,285	20,367	12,896	456	29,758	17.5	4.9	12.5	10.7
1983	40,585	21,049	19,533	13,321	382	27,264	16.3	5.0	11.3	9.4
1984	41,556	21,661	19,894	13,162	365	28,394	16.5	4.8	11.6	8.8
1985	42,484	22,027	20,452	13,348	394	29,136	16.6	4.9	11.7	9.3
1986	38,379	19,929	18,447	12,821	359	25,558	14.8	4.6	10.1	9.4
1987	43,616	22,570	21,042	13,173	324	30,443	16.6	4.7	11.9	7.4
1988	52,957	27,332	25,624	13,690	368	39,267	19.8	4.9	15.0	6.9
1989	47,669	24,712	22,951	14,069	315	33,600	17.5	4.9	12.6	6.6
1990	51,142	26,500	24,641	13,891	341	37,251	18.4	4.8	13.6	6.7
1991 ^p	49,159	25,341	23,816	13,876	269	35,283	17.3	4.7	12.6	5.5

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

2 Rates refer to those of Singapore residents only.

Source: Registry of Births and Deaths
with effect from January 1989

2.7 AGE SPECIFIC AND TOTAL FERTILITY RATES, GROSS AND NET REPRODUCTION RATES, 1981-1991

Per 1000 Resident Females

Age Group (Years)	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
15 - 19	11.6	11.2	10.2	10.1	9.4	8.4	7.6	7.2	7.0	8.1	8.4
20 - 24	82.3	78.6	70.9	67.2	66.5	59.0	58.5	63.2	57.9	58.6	53.1
25 - 29	138.1	133.6	122.9	121.6	121.3	107.6	122.0	143.4	126.0	135.9	130.1
30 - 34	82.3	82.8	78.3	81.3	83.8	72.5	90.4	116.1	102.1	110.8	107.6
35 - 39	28.7	30.4	28.9	31.4	30.5	27.4	32.6	43.6	40.9	44.1	41.6
40 - 44	5.4	4.8	3.8	4.8	4.4	4.4	5.6	7.1	7.5	7.1	6.3
Total Fertility Rate	1,742	1,707	1,575	1,582	1,580	1,396	1,583	1,902	1,707	1,823	1,735
Gross Reproduction Rate	838	817	758	756	761	670	762	920	822	878	830
Net Reproduction Rate	817	796	739	737	741	653	743	896	801	864	818

Source : Population Planning Unit
Ministry of Health

2.8 LIVE-BIRTHS BY BIRTH ORDER, 1981 -1991

Birth Order	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
Total¹	Number										
	42,250	42,654	40,585	41,556	42,484	38,379	43,616	52,957	47,669	51,142	49,159
1st	18,599	19,105	18,255	18,071	18,638	17,336	17,586	20,522	19,465	20,325	19,667
2nd	14,431	14,593	14,078	15,171	15,498	13,406	16,441	19,495	16,631	18,232	17,606
3rd	6,305	6,228	5,757	5,877	5,900	5,443	6,966	9,806	8,845	9,624	8,937
4th	1,876	1,777	1,655	1,606	1,525	1,337	1,590	2,036	2,017	2,258	2,287
5th	522	506	470	436	443	382	398	459	471	481	453
6th & Over	438	391	302	276	236	205	235	229	237	218	209
Total	Per Cent										
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1st	44.0	44.8	45.0	43.5	43.9	45.2	40.3	38.8	40.8	39.8	40.0
2nd	34.2	34.2	34.7	36.5	36.5	34.9	37.7	36.8	34.9	35.7	35.8
3rd	14.9	14.6	14.2	14.1	13.9	14.2	16.0	18.5	18.6	18.8	18.2
4th	4.4	4.2	4.1	3.9	3.6	3.5	3.6	3.8	4.2	4.4	4.7
5th	1.2	1.2	1.2	1.0	1.0	1.0	0.9	0.9	1.0	0.9	0.9
6th & Over	1.0	0.9	0.7	0.7	0.6	0.5	0.5	0.4	0.5	0.4	0.4

¹ Include birth order not stated.

Source: Registry of Births and Deaths
with effect from January 1989

2.9 LIVE-BIRTHS BY PLACE OF OCCURRENCE, 1981 -1991

Place of Occurrence	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
	Number										
Total	42,250	42,654	40,585	41,556	42,484	38,379	43,616	52,957	47,669	51,142	49,159
Public Sector Hospitals	33,872	33,437	30,695	30,500	30,456	25,896	26,212	28,695	24,991	24,214	23,193
Private Sector Hospitals	6,576	7,892	8,858	10,337	11,375	12,054	17,004	23,908	22,364	26,618	25,744
Nursing Homes	857	412	337	296	259	137	131	119	81	71	35
Other Locations	945	913	695	423	394	292	269	235	233	239	187
	Per Cent										
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Public Sector Hospitals	80.2	78.4	75.7	73.4	71.7	67.5	60.1	54.2	52.4	47.3	47.2
Private Sector Hospitals	15.6	18.5	21.8	24.9	26.8	31.4	39.0	45.1	46.9	52.1	52.3
Nursing Homes	2.0	1.0	0.8	0.7	0.6	0.3	0.3	0.2	0.2	0.1	0.1
Other Locations	2.2	2.1	1.7	1.0	0.9	0.8	0.6	0.5	0.5	0.5	0.4

Source: Registry of Births and Deaths
with effect from January 1989

2.10 MALE AND FEMALE AGE SPECIFIC DEATH RATES, 1986 -1991

Per Thousand Residents

Age Group (Years)	Males						Females					
	1986	1987	1988	1989	1990	1991	1986	1987	1988	1989	1990	1991
Total	5.1	5.2	5.3	5.4	5.2	5.2	4.1	4.3	4.5	4.4	4.3	4.2
Under 1 ¹	9.6	8.5	7.1	7.0	7.1	5.9	9.0	6.2	6.8	6.0	6.2	4.9
1 - 4	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.4	0.4	0.2	0.3
5 - 9	0.2	0.3	0.2	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2
10 - 14	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3
15 - 19	0.7	0.5	0.5	0.6	0.5	0.5	0.3	0.3	0.3	0.4	0.2	0.3
20 - 24	0.9	0.8	0.9	0.7	0.8	0.7	0.5	0.4	0.5	0.5	0.4	0.4
25 - 29	0.9	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.5	0.4
30 - 34	1.0	1.0	0.9	1.0	1.0	0.9	0.8	0.7	0.7	0.6	0.6	0.5
35 - 39	1.4	1.5	1.6	1.3	1.4	1.2	0.8	1.0	1.2	1.0	1.0	0.7
40 - 44	2.4	2.2	2.4	2.3	2.2	1.9	1.7	1.7	1.4	1.6	1.4	1.5
45 - 49	4.0	4.0	3.7	3.6	4.0	3.5	2.5	2.7	2.6	2.4	2.4	1.9
50 - 54	8.4	8.1	7.9	7.8	6.9	6.8	4.7	5.0	4.8	4.0	4.2	3.7
55 - 59	14.2	14.0	13.6	14.0	12.0	12.6	7.5	7.7	7.4	6.7	7.4	6.6
60 - 64	21.0	22.2	20.0	21.2	20.9	20.8	12.7	12.8	12.1	12.3	10.9	11.1
65 - 69	34.9	30.7	32.5	32.9	30.2	30.3	20.3	20.0	20.4	19.6	18.7	18.0
70 & Over	70.6	70.9	71.9	73.8	68.2	68.0	55.7	56.0	58.6	56.4	55.4	53.3

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

2.11 DEATHS BY BROAD GROUPS OF CAUSES, 1981 -1991

												Number
Causes of Death	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P	
All Causes	12,863	12,896	13,321	13,162	13,348	12,821	13,173	13,690	14,069	13,891	13,876	
Infective & Parasitic Diseases	432	393	432	390	375	402	432	430	439	347	301	
of which : Tuberculosis	221	207	224	163	177	177	186	168	132	113	122	
Neoplasms	2,672	2,729	2,903	2,817	2,939	2,921	3,169	3,233	3,321	3,314	3,358	
of which : Cancer	2,616	2,668	2,858	2,776	2,893	2,887	3,131	3,194	3,283	3,269	3,319	
Endocrine, Nutritional & Metabolic Diseases	404	397	423	512	492	508	521	525	461	388	353	
of which : Diabetes	368	361	373	469	464	479	492	501	419	332	318	
Diseases of the Blood & Blood-forming Organs	42	33	33	28	29	30	35	35	48	50	40	
Diseases of the Nervous System & Sense Organs	114	121	92	97	87	87	102	133	111	143	109	
Diseases of the Circulatory System	4,413	4,430	4,436	4,637	4,651	4,482	4,675	4,847	5,082	5,152	4,727	
of which : Heart & Hypertensive Diseases	2,892	2,866	2,911	3,156	3,129	3,028	3,251	3,318	3,416	3,385	2,960	
Cerebrovascular Disease	1,438	1,469	1,454	1,413	1,418	1,355	1,343	1,414	1,551	1,666	1,664	
Diseases of the Respiratory System	2,196	2,257	2,429	2,096	2,241	1,974	1,942	2,110	2,167	2,112	2,148	
of which : Pneumonia	1,284	1,375	1,513	1,204	1,287	1,082	998	1,039	1,130	1,191	1,224	
Bronchitis	67	68	77	55	63	53	49	52	33	32	27	
Diseases of the Digestive System	385	400	403	369	394	326	329	380	363	374	372	
Diseases of the Genito-Urinary System	366	319	375	405	319	343	393	380	370	346	359	
Congenital Anomalies	178	182	155	172	189	202	171	201	170	189	156	
of which : Congenital Anomalies of Heart	109	101	86	91	84	101	87	98	75	84	74	
Certain Causes of Perinatal Mortality	208	215	149	151	147	128	128	127	135	123	88	
Accidents, Poisonings & Violence	938	966	1,085	1,095	1,082	1,025	931	958	1,042	1,008	425	
of which : Motor Vehicle Accidents	281	326	323	343	292	265	233	242	245	246	na	
Other Accidents	157	198	231	194	214	223	198	168	206	200	na	
Suicides	191	239	267	211	327	329	302	367	395	354	na	
Other Diseases & Causes	515	454	406	393	403	393	345	331	360	345	1,440 ¹	
of which : Senility	237	219	208	236	170	140	125	112	113	108	16	

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

Source: Registry of Births and Deaths with effect from January 1989

1 Include causes of death that are pending the Coroner's decision.

2.12 RESIDENT POPULATION AGED 60 YEARS AND OVER, 1981 -1991

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Demographic Characteristics¹											
Resident Population ('000)	2,324.4	2,365.7	2,406.2	2,443.7	2,482.6	2,518.6	2,553.9	2,598.5	2,647.6	2,705.1	2,762.7
Residents Aged 60 Years & Over ('000)	176.2	181.9	188.1	194.3	201.0	208.4	217.5	227.2	236.8	246.8	255.8
Percentage of Resident Population	7.6	7.7	7.8	7.9	8.1	8.3	8.5	8.7	8.9	9.1	9.2
Sex Ratios (Males Per 1,000 Females)											
of Residents Aged											
60 - 69 Years	964	961	963	962	973	977	977	977	971	971	969
70 Years & Over	751	757	751	751	752	747	748	744	745	744	747
60 Years & Over	877	875	872	870	875	874	873	872	869	868	869
Literacy Rate of Residents Aged 60 Years & Over ²											
(Per Thousand Resident Population)											
Males	706	720	734	748	762	776	789	803	817	832 ^p	842
Females	209	225	241	257	273	289	305	321	337	351 ^p	389
Economic Characteristics³											
Economically Active Persons Aged 60 Years & Over ('000)											
Percentage of Total Economically Active	41.6	42.5	45.5	45.6	44.0	40.7	40.6	40.6	43.4	49.7	47.0
	3.5	3.4	3.5	3.5	3.4	3.1	3.1	3.0	3.0	3.3	3.0
Employed Persons Aged 15-59 Years ('000)											
Self-employed (%)	1,112.9	1,179.0	1,206.4	1,224.4	1,191.4	1,175.3	1,227.1	1,291.4	1,351.0	1,419.6	1,477.9
Employees (%)	11.5	12.0	12.4	12.7	12.7	12.8	12.6	12.0	12.1	na	6.6
	86.2	85.7	85.5	85.4	85.4	85.4	85.2	86.3	86.6	na	87.4
Employed Persons Aged 60 Years & Over ('000)											
Self-employed (%)	40.6	42.1	44.8	44.7	43.2	39.1	39.7	40.2	43.0	49.6	46.5
Employees (%)	42.0	39.9	42.8	39.8	37.9	43.0	44.3	40.9	41.4	na	20.6
	54.2	56.9	53.8	56.3	58.4	52.5	52.0	55.8	56.1	na	61.7

1 Figures refer to Singapore residents only and data for 1990 are based on 1990 Population Census.

2 The rates were estimated based on the preliminary 1990 Population Census data.

3 Data for 1981-1989 have been revised using the revised population estimates for these years.

2.13 MARRIAGES REGISTERED BY ETHNIC GROUP OF COUPLE, 1981-1991

Number

Year	All Marriages Registered	Women's Charter					Muslim Law Act			
		Total	Chinese	Indians	Others	Inter-ethnic	Total	Malays	Others	Inter-ethnic
1981	24,595	20,166	18,275	1,124	116	651	4,429	3,494	246	689
1982	22,999	18,177	16,370	1,009	119	679	4,822	3,791	257	774
1983	21,711	17,117	15,226	1,029	124	738	4,594	3,657	255	682
1984	24,467	19,973	18,049	1,076	106	742	4,494	3,496	260	738
1985	23,058	18,495	16,603	1,117	82	693	4,563	3,576	261	726
1986	19,760	15,375	13,705	987	94	589	4,385	3,415	241	729
1987	23,100	18,635	16,769	1,050	99	717	4,465	3,545	248	672
1988	24,583	19,782	17,750	1,088	88	856	4,801	3,787	227	787
1989	23,340	18,546	16,468	1,134	110	834	4,794	3,763	269	762
1990	23,953	19,191	16,899	1,140	106	1,046	4,762	3,718	259	785
1991	24,791	19,985	17,740	1,128	116	1,001	4,806	3,724	260	822

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

Source : Registry of Marriages
Registry of Muslim Marriages

2.14 MARRIAGES BY AGE GROUP OF GROOMS AND BRIDES, 1989-1991

Number

Age Group (Years)	1989				1990				1991			
	Grooms		Brides		Grooms		Brides		Grooms		Brides	
	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act
All Ages	18,546	4,794	18,546	4,794	19,191	4,762	19,191	4,762	19,985	4,806	19,985	4,806
Under 20	60	56	760	512	68	67	765	558	89	69	716	563
20 - 24	3,288	1,310	7,414	2,298	2,988	1,164	7,160	2,109	3,051	1,103	7,440	2,066
25 - 29	8,374	2,154	7,121	1,273	8,654	2,198	7,678	1,307	9,005	2,183	8,046	1,316
30 - 34	4,520	718	2,281	382	4,834	746	2,462	407	5,079	829	2,564	481
35 - 39	1,494	264	654	166	1,689	293	791	226	1,736	285	818	191
40 - 44	434	127	209	85	567	117	232	92	586	150	261	109
45 - 49	186	58	61	40	196	60	62	23	203	52	77	40
50 & Over	190	107	46	38	195	117	41	40	236	135	63	40

Note : See note to Table 2.13

Source : Registry of Marriages
Registry of Muslim Marriages

2.15 AVERAGE AGE AT MARRIAGE OF GROOMS AND BRIDES, 1981-1991

Years

Year	All Marriages		Women's Charter		Muslim Law Act	
	Grooms	Brides	Grooms	Brides	Grooms	Brides
1981	27.9	24.7	28.0	24.9	27.4	23.9
1982	28.0	24.8	28.2	25.0	27.4	24.0
1983	28.1	24.9	28.3	25.2	27.3	24.0
1984	28.3	25.2	28.5	25.4	27.6	24.3
1985	28.3	25.3	28.5	25.5	27.7	24.5
1986	28.8	25.6	28.9	25.8	28.3	25.0
1987	29.0	25.9	29.1	26.1	28.5	25.2
1988	29.1	26.0	29.1	26.1	28.8	25.6
1989	29.3	26.2	29.4	26.3	28.7	25.4
1990	29.6	26.4	29.8	26.6	28.9	25.7
1991	29.7	26.5	29.8	26.7	29.2	25.8

Source : Registry of Marriages
Registry of Muslim Marriages

2.16 AGE SPECIFIC MARRIAGE RATES, 1970, 1980, 1984 -1991

Age Group (Years)	1970	1980	1984	1985	1986	1987	1988	1989	1990	1991
Males (Per Thousand Unmarried Resident Males)										
15 - 19	1.6	1.7	1.5	1.2	1.0	1.0	0.8	1.1	1.2	1.4
20 - 24	52.4	49.9	44.7	43.8	35.8	37.9	38.8	39.3	36.0	36.1
25 - 29	173.0	140.1	122.2	110.3	87.3	104.1	112.1	104.3	110.7	112.2
30 - 34	171.7	138.0	130.7	109.8	92.5	107.8	111.7	103.9	98.2	108.5
35 - 39	113.1	106.3	103.3	83.2	70.4	87.7	77.1	77.6	69.4	78.2
40 - 44	59.5	62.8	65.1	54.5	60.6	61.1	59.5	63.3	42.1	51.4
General Marriage Rate (15-44)	51.6	55.0	57.8	54.4	45.7	53.4	56.3	55.2	53.6	56.6
Females (Per Thousand Unmarried Resident Females)										
15 - 19	19.1	18.4	15.6	15.2	12.4	11.9	10.8	10.7	11.1	10.9
20 - 24	123.8	110.5	101.6	95.5	77.5	87.9	94.6	88.5	87.4	86.9
25 - 29	192.3	136.5	124.3	111.8	94.1	124.3	130.3	114.4	136.0	139.4
30 - 34	99.1	74.3	68.1	62.6	59.2	74.3	76.7	76.7	70.3	76.8
35 - 39	46.0	43.6	41.3	33.4	31.9	37.8	38.1	35.8	37.0	37.7
40 - 44	18.1	22.0	16.7	18.5	17.3	19.3	20.7	20.3	14.8	15.7
General Marriage Rate (15-44)	67.3	68.9	67.8	64.0	53.9	63.9	67.1	61.7	62.1	63.9

Note : Figures for 1970 and 1980 were calculated from total marriages over total population, instead of marriages of residents over resident population.

Source : Registry of Marriages
Registry of Muslim Marriages

2.17 DIVORCES BY ETHNIC GROUP OF COUPLE, 1984-1991

Year	Women's Charter					Muslim Law Act				
	Total	Chinese	Indians	Others	Inter-ethnic	Total	Malays	Indians	Others	Inter-ethnic
Number										
1984	1,676	1,484	115	11	66	637	505	24	3	105
1985	1,606	1,382	127	11	86	738	579	30	8	121
1986	1,822	1,578	137	18	89	786	617	35	9	125
1987	1,912	1,648	131	24	109	796	636	27	5	128
1988	2,023	1,792	122	16	93	893	714	31	9	139
1989	2,002	1,756	138	16	92	907	712	34	11	150
1990	2,662	2,339	192	22	109	972	762	53	9	148
1991	3,398	3,033	200	14	151	1,021	801	40	6	174
Per Cent										
1984	100.0	88.5	6.9	0.7	3.9	100.0	79.3	3.7	0.5	16.5
1985	100.0	86.0	7.9	0.7	5.4	100.0	78.4	4.1	1.1	16.4
1986	100.0	86.6	7.5	1.0	4.9	100.0	78.5	4.5	1.1	15.9
1987	100.0	86.2	6.8	1.3	5.7	100.0	79.9	3.4	0.6	16.1
1988	100.0	88.6	6.0	0.8	4.6	100.0	79.9	3.5	1.0	15.6
1989	100.0	87.7	6.9	0.8	4.6	100.0	78.5	3.8	1.2	16.5
1990	100.0	87.9	7.2	0.8	4.1	100.0	78.4	5.5	0.9	15.2
1991	100.0	89.3	5.9	0.4	4.4	100.0	78.5	3.9	0.6	17.0

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

Source : Supreme Court
Syariah Court

2.18 DIVORCEES BY AGE GROUP AND SEX, 1989-1991

Number

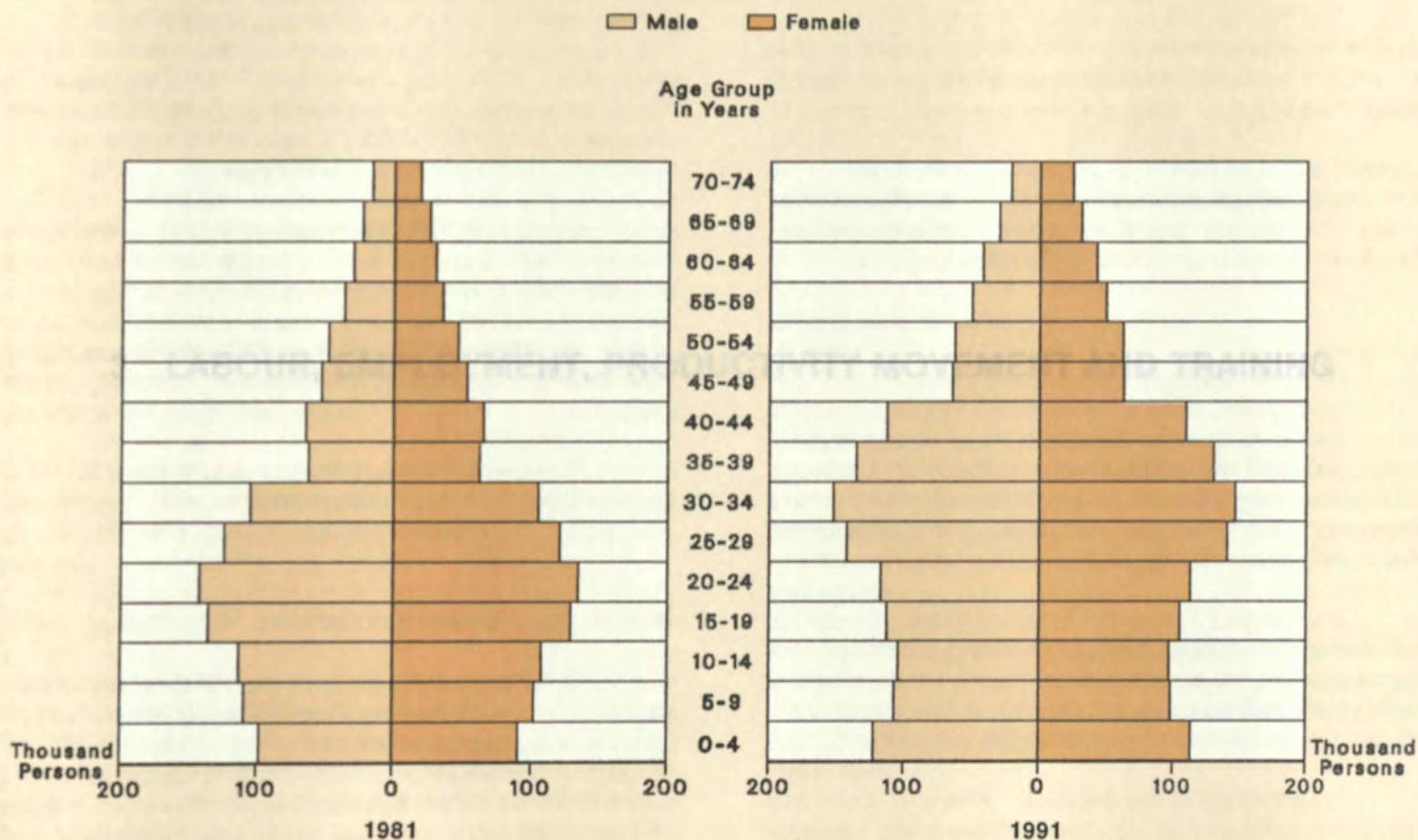
Age Group (Years)	1989				1990				1991			
	Males		Females		Males		Females		Males		Females	
	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act
Total	2,002	907	2,002	907	2,662	972	2,662	972	3,398	1,021	3,398	1,021
Under 20	-	1	3	15	1	2	3	18	-	5	3	26
20 - 24	24	41	178	163	35	59	180	162	69	52	249	136
25 - 29	362	243	572	265	443	233	761	301	557	201	904	276
30 - 34	521	234	496	199	746	269	736	178	886	268	913	221
35 - 39	463	167	354	125	606	155	455	155	779	214	620	168
40 - 44	290	99	183	70	393	109	288	79	545	130	361	101
45 - 49	144	48	76	29	181	49	104	36	222	46	156	47
50 & Over	125	74	66	41	191	96	68	43	260	105	111	46
Not Stated	73	-	74	-	66	-	67	-	80	-	81	-
Mean Age (Years)	36.8	35.6	33.3	32.0	37.0	35.9	33.5	32.2	37.2	36.7	33.8	33.0

Note : See note to Table 2.17.

Source : Supreme Court
Syariah Court

CHART 1

AGE DISTRIBUTION OF SINGAPORE RESIDENTS, 1981 AND 1991



3 LABOUR, EMPLOYMENT AND PRODUCTIVITY MOVEMENT

Labour Force

Labour Force data were based on annual labour force surveys. The data refer to persons aged fifteen years and over. The reference time is end-June of the respective year.

Definitions

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

Unemployed Persons : Refers 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 : Refers to those who were either employed or unemployed during the reference week.

Economically Inactive Persons : Refers 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 Participation Rate : This refers to the percentage of economically active population to the total population in the specific age-sex groups.

Unemployment Rate : This refers to the percentage of unemployed persons to the total economically active population.

Productivity : This refers to the output per worker in terms of value added at 1985 prices.

Monthly Earnings and Occupational Wages

Statistics on average monthly earnings of workers are compiled based on the payroll of CPF contributors. Data on occupational wages are compiled from the Occupational Wages Survey conducted by the Central Provident Fund (CPF) Board on behalf of the Ministry of Labour. It covers the wages of CPF contributors in private sector establishments with at least 25 workers.

Definitions

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

Basic Wage : Refers to payment for work done on piece rate or on an hourly, daily or monthly basis, before deduction of the employees' CPF contribution and personal income tax. It excludes overtime payments, commissions, annual wage supplement, variable payments/bonuses, employer's CPF contributions, Skill Development Fund levy, shift/food/housing/transport allowances, other monetary payments and payments in kind.

Gross Wage : Includes basic wage, overtime payments, commissions, shift/food/housing/transport allowances and other monetary payments. It excludes bonuses.

Hours Worked

Statistics on weekly hours worked are compiled from various establishment surveys conducted over the years by the Ministry of Labour. Prior to 1988, the coverage included private and public sector establishments with at least 10 workers. From 1988, only private sector establishments with at least 25 workers are included. The data for the two periods are thus not strictly comparable.

Definitions

Weekly Hours : Refers to the total number of hours worked during the reference week of the survey. It is the sum of standard hours and overtime hours worked.

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

Employment Service

The Work Permit and Employment Department of the Ministry of Labour provides free service to Singapore citizens and permanent residents seeking employment and assists employers to recruit workers. Registration for employment assistance by job seeker and notification of job vacancies by employers are voluntary.

Definitions

A registrant refers to an unemployed job seeker who is registered for employment assistance at the Department. Each registration is valid for 6 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.

Central Provident Fund

The Central Provident Fund was set up in 1955 to provide financial security for workers in their retirement or when they are no longer able to work. Over the years, it has evolved into a comprehensive social security scheme, which aims at catering to not only a member's retirement, but also his home ownership and health care needs.

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. Each member has three accounts: the Ordinary, Medisave and Special Accounts.

Members can withdraw their CPF savings when they reach 55 years of age after 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. Members can also withdraw their CPF savings if they leave Singapore and West Malaysia permanently or if they are permanently disabled.

CPF savings can be used under the various CPF schemes. Savings in the Ordinary Account can be used for housing, approved investments, insurance, education and transfers to top-up parents' Retirement Accounts. Medisave Account savings can be used for hospitalisation expenses and medical insurance, while savings in the Special Account are reserved for old age and contingency purposes.

Savings in the CPF earn a fair rate of interest and are tax-exempt. Since March 1986, the CPF Board has been paying market-related interest rate on members' savings and the rate is adjusted every six months.

CPF Contribution Rates wef 1 July 1991 for Employees other than those in the Pensionable Civil Service

	Contribution by the employer	Contribution by the employee
For employees who are below age 55 years		
Employee's total wages for the month		
Not exceeding \$50	Nil	Nil
Between \$50 and \$200	17.5% of total wages	Nil
Between \$200 and \$363	17.5% of ordinary wages	7.5% plus one-third of (total wages minus \$200)
Exceeding \$363	17.5% of ordinary wages up to a maximum of \$1,050 plus 17.5% of additional wages	22.5% of ordinary wages up to a maximum of \$1,350 plus 22.5% of additional wages
For employees who are 55 years or older		
Age of employee		
55 to 59 years	12.5% of total wages	12.5% of total wages
60 to 64 years	7.5% of total wages	7.5% of total wages
65 and older	5% of total wages	5% of total wages

The Productivity Movement

The National Productivity Board (NPB) was established as a statutory board in 1972. It promotes productivity inculcating quality work values in all levels of the workforce and stimulating them to improve productivity. Quality Control Circles (QCCs) are promoted as a mechanism for involving the workforce to compete as a team.

The NPB Institute for Productivity Training (NPB-IPT) conducts continuing education courses, workshops conferences and seminars for managers, executives and workers. NPB manages the Skills Development Fund (SDF), which provides financial incentives to organisations for training

their employees, and which is also used to develop the training infrastructure in Singapore.

To tap private sector expertise, NPB has teamed up with reputable organisations and private companies to develop several productivity programmes. So far, 12 partnerships have been established in working out on-the-job training programmes.

Trade Unions

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

3.1 LABOUR FORCE, 1981-1991

Mid-year	Labour Force Aged 15 Years and Over							Participation Rate		Unemployment Rate
	Total			Employed		Unemployed				
	Persons	Males	Females	Males	Females	Males	Females	Males	Females	
	Thousand							Per Cent		
1981	1,188.0	765.2	422.7	744.1	409.5	21.0	13.3	81.1	44.8	2.9
1982	1,253.2	805.8	447.4	786.5	434.7	19.3	12.7	81.5	45.2	2.6
1983	1,292.8	833.6	459.3	806.7	444.6	26.9	14.6	81.6	45.7	3.2
1984	1,304.4	829.9	474.4	808.1	461.1	21.8	13.4	81.2	45.8	2.7
1985	1,287.8	819.4	468.4	785.4	449.2	34.1	19.1	79.9	44.9	4.1
1986	1,298.5	817.4	481.1	759.9	454.6	57.5	26.5	79.4	45.6	6.5
1987	1,329.3	827.2	502.1	785.0	481.8	42.2	20.3	78.6	47.0	4.7
1988	1,377.7	846.3	531.5	813.9	517.7	32.4	13.8	78.5	47.8	3.3
1989	1,424.7	865.1	559.7	844.8	549.2	20.2	10.5	78.6	48.4	2.2
1990 ¹	1,516.0	933.0	583.0	912.2	573.6	20.8	9.4	79.2	50.3	2.0
1991	1,554.3	936.4	617.9	917.8	606.5	18.7	11.3	79.8	50.5	1.9

Note : Data for 1981-1989 have been revised using the revised population estimates for these years.

Source : Ministry of Labour
(Other than Census year)

¹ Census of Population. Data and rates for 1990 are based on 10 per cent sample data.

3.2 PERSONS AGED 15 YEARS AND OVER BY AGE GROUP, ACTIVITY STATUS AND SEX, 1991

Thousand

Age Group (Years)	Total			Economically Active Persons									Economically Inactive Persons		
				Total			Employed			Unemployed					
	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
Total	2,397.9	1,173.4	1,224.5	1,554.3	936.4	617.9	1,524.3	917.8	606.5	30.0	18.7	11.3	843.6	236.9	606.7
15 - 19	261.7	135.7	126.0	79.7	42.2	37.5	76.3	40.8	35.5	3.4	1.3	2.0	182.0	93.5	88.5
20 - 24	287.2	138.2	149.0	238.0	114.8	123.2	231.5	111.5	120.1	6.5	3.4	3.1	49.2	23.4	25.9
25 - 29	317.2	153.6	163.6	272.7	149.0	123.7	266.8	145.0	121.8	5.9	4.0	1.9	44.5	4.6	39.9
30 - 34	323.0	157.5	165.5	257.9	155.5	102.4	254.0	152.8	101.2	3.9	2.7	1.2	65.1	2.0	63.1
35 - 39	286.5	143.0	143.5	222.1	141.7	80.4	218.7	139.7	78.9	3.4	2.0	1.4	64.4	1.3	63.2
40 - 44	247.0	121.0	125.9	187.3	119.1	68.2	184.4	117.1	67.3	3.0	2.0	1.0	59.6	1.9	57.7
45 - 49	148.8	71.3	77.5	104.6	68.8	35.8	103.4	67.8	35.5	1.2	1.0	0.3	44.2	2.5	41.7
50 - 54	145.7	72.5	73.1	92.1	67.1	24.9	90.4	65.7	24.7	1.7	1.5	0.2	53.6	5.4	48.2
55 - 59	114.5	57.7	56.8	53.0	41.0	12.0	52.4	40.5	11.9	0.6	0.4	0.2	61.5	16.7	44.8
60 & Over	266.4	122.9	143.5	47.0	37.2	9.7	46.5	36.8	9.7	0.5	0.4	0.1	219.4	85.6	133.8

Note : Figures are grossed up based on survey results and may not add up due to rounding.

Source : Ministry of Labour

3.3 AGE-SEX SPECIFIC LABOUR FORCE PARTICIPATION RATES, 1981 AND 1988-1991

Age Group (Years)	1981			1988			1989			1990 ¹			1991			Per Cent
	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	
Total	63.0	81.1	44.8	62.9	78.5	47.8	63.1	78.6	48.4	64.9	79.2	50.3	64.8	79.8	50.5	
15 - 19	45.1	44.1	46.2	26.2	25.2	27.2	26.8	25.5	28.2	28.1	28.4	27.8	30.4	31.1	29.8	
20 - 24	86.0	92.6	79.1	82.7	84.6	80.9	83.0	84.8	81.3	82.0	84.3	79.6	82.9	83.1	82.6	
25 - 29	79.5	97.8	60.4	85.1	96.7	73.8	85.2	96.6	74.1	86.0	95.4	76.3	86.0	97.0	75.6	
30 - 34	73.0	98.4	46.7	77.8	98.1	58.4	78.7	98.3	59.8	80.2	96.6	63.0	79.8	98.7	61.9	
35 - 39	68.6	98.9	39.1	74.1	98.7	50.6	75.8	99.0	53.3	76.5	97.3	54.9	77.5	99.1	56.0	
40 - 44	66.5	98.1	37.1	72.2	98.3	46.6	73.6	97.8	50.2	75.1	97.6	51.9	75.9	98.4	54.2	
45 - 49	62.6	96.0	28.8	68.5	96.0	39.3	68.1	96.1	41.3	70.3	95.2	45.0	70.3	96.5	46.2	
50 - 54	55.7	89.9	22.1	58.3	88.9	28.8	59.5	89.2	30.7	61.2	88.2	34.1	63.2	92.5	34.1	
55 - 59	44.2	71.3	15.8	40.5	65.1	17.4	42.2	66.6	19.4	44.3	68.3	21.4	46.3	71.0	21.2	
60 - 64	33.8	54.5	12.8	29.5	47.3	11.9	28.9	48.2	11.0	30.1	48.4	12.8	29.7	46.9	12.3	
65 - 69	22.3	37.0	8.3	18.8	30.6	8.1	18.6	31.1	7.6	20.0	32.7	8.4	17.3	29.3	6.3	
70 - 74	14.6	24.2	6.2	10.6	18.6	3.6	11.1	18.0	5.6	13.3	22.5	5.8	10.2	17.4	4.2	
75 & Over	8.2	14.9	3.7	5.4	10.5	1.9	4.7	9.0	1.8	5.6	11.1	1.9	4.9	9.6	1.9	

¹ Census of Population. Rates for 1990 are calculated based on 10 per cent sample data

Source : Ministry of Labour
(Other than Census year)

3.4 EMPLOYED PERSONS AGED 15 YEARS AND OVER BY INDUSTRY, 1981-1991

											Thousand
Industry	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990 ¹	1991
Total	1,153.6	1,221.2	1,251.2	1,269.1	1,234.6	1,214.4	1,266.9	1,331.6	1,394.1	1,485.8	1,524.3
Agriculture & Fishing	13.1	12.4	12.6	9.5	8.7	10.1	11.0	5.8	6.3	5.7	4.3
Quarrying	1.3	2.7	2.5	2.1	2.6	1.4	0.6	0.9	0.9	0.5	0.4
Manufacturing	350.4	359.7	347.6	348.1	314.2	306.6	338.7	379.1	403.7	421.9	429.6
Utilities	7.7	8.5	9.1	9.9	8.2	8.2	7.6	8.4	7.5	6.8	7.1
Construction	68.8	77.0	90.0	107.8	110.0	105.2	97.2	89.6	92.2	134.4	99.0
Commerce	251.0	271.5	284.0	285.8	290.0	280.7	296.7	304.9	318.1	327.2	345.3
Transport & Communications	131.8	139.0	141.3	132.2	125.1	120.6	128.5	129.2	137.7	140.0	152.9
Financial & Business Services	88.1	96.1	101.8	109.0	107.7	105.6	112.3	119.8	127.8	158.9	163.3
Other Services	238.4	252.1	260.5	261.7	265.6	274.0	272.6	292.0	298.5	290.3	322.0
Activities Not Adequately Defined	3.0	2.1	1.7	3.0	2.6	1.9	1.7	1.9	1.3		0.3

Notes : Data for 1991 were classified according to the Singapore Standard Industrial Classification (SSIC) 1990, while those from 1981 to 1987 were classified according to SSIC 1978 and those for 1988 to 1990 were according to SSIC 1986. Owing to differences between SSIC 1978, SSIC 1986 and SSIC 1990, the data are strictly not comparable. Data for 1981-1989 have been revised using the revised population estimates for these years.

Source : Ministry of Labour
(Other than Census year)

1 Census of Population. Data for 1990 are grossed up based on 10 per cent sample data and may not add up due to rounding.

3.5 EMPLOYED PERSONS AGED 15 YEARS AND OVER BY OCCUPATION, 1981-1991

Thousand

Occupation	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990 ¹	1991
Total	1,153.6	1,221.2	1,251.2	1,269.1	1,234.6	1,214.4	1,266.9	1,331.6	1,394.1	1,485.8	1,524.3
Professional & Technical Workers	104.9	113.8	119.4	128.7	128.9	133.6	141.9	153.5	166.4	233.9	262.9
Administrative, Managerial & Executive Workers	60.4	62.4	66.8	75.6	70.5	72.0	76.4	92.8	106.6	122.2	137.4
Clerical Workers	180.7	200.1	210.1	210.4	197.6	190.9	196.3	205.0	211.2	197.0	225.5
Sales and Service Workers	274.4	297.1	308.6	315.4	317.7	308.7	328.6	339.8	353.4	196.0	215.7
Agricultural Workers & Fishermen	17.2	16.5	16.8	13.7	13.4	13.5	15.2	9.6	9.9	4.8	2.8
Production, Transport & Other Manual Workers	457.8	470.0	472.6	474.7	448.2	434.4	449.0	470.1	488.6	651.0	616.4
Workers Not Classifiable by Occupation	58.3	61.2	56.9	50.5	58.4	61.2	59.7	60.9	57.8	80.8	63.6

Notes : Data for 1991 were classified according to the Singapore Standard Occupational Classification (SSOC) 1990, while those from 1981 to 1990 were classified according to SSOC 1978. Owing to differences between SSOC 1978 and SSOC 1990, the data are strictly not comparable.
Data for 1981-1989 have been revised using the revised population estimates for these years.

Source : Ministry of Labour
(Other than Census year)

1 Census of Population. Data for 1990 are grossed up based on 10 per cent sample data and may not add up due to rounding.

3.6 EMPLOYED PERSONS AGED 15 YEARS AND OVER BY INDUSTRY AND OCCUPATIONAL STATUS, 1991

Thousand

Industry	Occupational Status				
	Total	Employers	Own Account Workers	Employees	Unpaid Family Workers
Total	1,524.3	79.9	107.2	1,320.8	16.4
Agriculture & Fishing	4.3	0.5	0.8	2.8	0.1
Quarrying	0.4	-	-	0.4	-
Manufacturing	429.6	13.5	7.0	408.6	0.6
Utilities	7.1	0.1	-	7.1	-
Construction	99.0	9.8	8.4	80.5	0.3
Commerce	345.3	37.6	45.4	248.2	14.1
Transport & Communications	152.9	4.2	25.6	122.9	0.2
Financial & Business Services	163.3	7.0	6.2	150.0	0.2
Other Services	322.3	7.2	13.9	300.3	1.0

Note : The industries are classified according to the Singapore Standard Industrial Classification (SSIC) 1990.

Source : Ministry of Labour

3.7 EMPLOYED PERSONS AGED 15 YEARS AND OVER BY INDUSTRY AND OCCUPATION, 1991

Thousand

Industry \ Occupation	Total	Legislators, Administrators and Managers	Professionals	Technicians and Associate Professionals	Clerical Workers	Sales & Service Workers	Agricultural Workers & Fishermen	Production, Transport & Other Manual Workers	Workers Not Classifiable by Occupation
Total	1,524.3	137.4	77.3	185.6	225.5	215.7	2.8	616.4	63.6
Agriculture & Fishing	4.3	0.3	-	0.1	0.1	0.1	2.0	1.7	-
Quarrying	0.4	0.1	0.1	-	-	-	-	0.3	-
Manufacturing	429.6	28.7	16.9	36.6	42.9	5.0	-	299.5	-
Utilities	7.1	-	0.5	1.6	1.6	0.3	-	3.2	-
Construction	99.0	10.1	4.3	4.9	5.6	0.1	-	73.7	0.2
Commerce	345.3	66.5	4.4	19.5	52.8	157.8	0.1	44.3	-
Transport & Communications	152.9	8.8	3.1	19.5	33.5	10.5	-	77.5	-
Financial & Business Services	163.3	16.8	15.4	41.8	55.6	9.9	-	23.7	-
Other Services	322.3	6.2	32.6	61.7	33.4	32.0	0.7	92.5	63.3

Note : The industries and occupations are classified according to the Singapore Standard Industrial Classification 1990 and Singapore Standard Occupational Classification 1990.

Source : Ministry of Labour

3.8 GOVERNMENT EMPLOYEES BY DIVISIONAL STATUS, 1981-1991

Divisional Status		1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
Total	Number											
		69,866	68,677	69,051	69,298	69,630	70,001	69,494	68,336	65,753	63,392	62,062
	Division I	8,068	8,467	8,911	9,547	10,158	11,047	11,433	11,518	12,029	12,348	12,633
	Division II	22,724	22,962	23,441	23,101	22,915	22,942	22,611	22,766	21,782	21,095	20,501
	Division III	23,947	22,778	22,162	22,251	22,369	21,963	21,794	20,901	20,110	20,150	20,416
	Division IV	15,127	14,470	14,537	14,399	14,188	14,049	13,656	13,151	11,832	9,799	8,512
	Per Cent											
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Division I	11.5	12.3	12.9	13.8	14.6	15.8	16.4	16.9	18.3	19.5	20.4
	Division II	32.5	33.4	33.9	33.3	32.9	32.8	32.5	33.3	33.1	33.3	33.0
	Division III	34.3	33.2	32.1	32.1	32.1	31.4	31.4	30.6	30.6	31.8	32.9
	Division IV	21.7	21.1	21.1	20.8	20.4	20.0	19.7	19.2	18.0	15.4	13.7

Note : Figures exclude daily-rated employees.

Source : Public Service Commission

3.9 CHANGES IN PRODUCTIVITY BY INDUSTRY, 1981-1991

Per Cent

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
Total	5.2	1.6	5.3	6.9	3.1	6.3	4.8	4.5	4.8	3.5	1.5
Total excluding Construction	5.8	1.9	5.1	6.7	2.4	7.1	4.8	4.4	5.0	3.6	1.7
Manufacturing	9.2	-0.7	9.1	7.2	-1.5	13.6	3.7	2.0	3.8	4.6	3.4
Construction	0.5	4.2	10.1	9.0	5.7	-4.3	0.8	2.2	-	1.4	2.8
Commerce	1.3	1.2	2.1	4.5	0.4	5.5	5.9	10.8	4.1	3.6	0.9
Transport & Communications	9.1	8.0	8.8	11.9	5.2	10.7	6.3	6.6	4.8	4.7	4.9
Financial & Business Services	4.7	-0.1	4.3	7.7	12.0	1.1	8.0	1.2	7.4	3.4	-1.5

Source : Department of Statistics
Ministry of Labour

3.10 AVERAGE MONTHLY EARNINGS BY INDUSTRY, 1981-1991

Dollars

Industry	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Nominal											
Total	741	859	947	1,048	1,131	1,140	1,176	1,273	1,398	1,528	1,669
Manufacturing	661	732	818	892	964	976	1,009	1,116	1,243	1,395	1,552
Construction	673	761	863	908	939	929	926	1,005	1,128	1,275	1,426
Commerce	660	725	799	892	935	945	977	1,049	1,174	1,305	1,419
Transport, Storage & Communications	809	951	1,024	1,131	1,213	1,233	1,305	1,373	1,488	1,610	1,677
Financing, Insurance, Real Estate & Business Services	1,026	1,153	1,246	1,390	1,491	1,507	1,564	1,686	1,835	1,996	2,158
Community, Social & Personal Services	791	1,021	1,116	1,257	1,375	1,364	1,400	1,517	1,621	1,678	1,844

Note : Average monthly earnings are computed using data obtained from the CPF Board. It includes bonuses, if any, but excludes employers' CPF contributions.

Source : Ministry of Labour

3.11 AVERAGE BASIC AND GROSS WAGES FOR MAJOR OCCUPATIONAL GROUPS, 1991

Dollars

Occupational Group	Basic Wage			Gross Wage		
	Persons	Males	Females	Persons	Males	Females
Managers	4,761	5,064	3,851	4,903	5,223	3,937
Professionals	2,823	2,987	2,518	3,054	3,295	2,618
Technicians and Associate Professionals	1,734	1,734	1,732	2,012	2,091	1,898
Clerical Workers	1,046	1,107	1,029	1,176	1,311	1,137
Service Workers and Shop and Market Sales Workers	935	983	847	1,171	1,241	1,066
Production Craftsmen and Related Workers	1,051	1,120	703	1,361	1,469	889
Plant and Machine Operators and Assemblers	804	1,010	660	1,084	1,411	856
Cleaners, Labourers and Related Workers	717	752	671	908	974	817

Source : Ministry of Labour

3.12 AVERAGE WEEKLY HOURS WORKED BY INDUSTRY, 1981-1991

Industry	Hours										
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
	As at August					As at June		As at Sept			
All Industries	45.6	45.4	45.6	45.6	44.6	45.1	45.5	45.6	46.6	46.5	46.7
Agriculture & Fishing	43.7	43.9	44.4	44.2	44.1	44.9	44.8	44.9	46.4	45.8	46.5
Quarrying	49.5	49.6	49.2	48.0	46.5	46.6	49.4	52.3	51.1	57.0	53.0
Manufacturing	48.1	47.6	48.1	47.8	46.5	47.7	48.4	47.4	48.6	48.5	48.7
Utilities	48.0	48.0	48.3	47.7	47.3	47.3	46.6	na	na	na	na
Construction	49.3	50.5	50.5	52.2	51.0	50.0	49.5	48.2	50.0	49.7	50.0
Commerce	44.1	44.0	43.9	43.5	43.3	42.9	42.8	41.7	42.0	42.3	42.7
Transport & Communications	47.4	46.8	46.5	46.0	45.1	45.8	46.0	45.6	47.8	47.5	47.6
Financial & Business Services	43.8	43.5	43.3	43.3	43.3	43.7	43.6	44.2	44.6	44.7	44.0
Other Services	39.7	39.9	39.9	39.4	39.2	39.8	40.8	41.7	41.4	41.4	41.5

Note : The data for 1988-1991 refer to private sector firms with at least 25 workers, while those for 1981-1987 refer to private and public sector firms with at least 10 workers. They are thus not strictly comparable.

Source : Ministry of Labour

3.13 EMPLOYMENT SERVICE, 1981-1991

Year	Number on 'Live' Register ¹	New Registrants			Vacancies Notified			Vacancies Filled		
		Persons	Males	Females	Persons ²	Males	Females	Persons	Males	Females
1981	6,453	13,357	7,470	5,887	31,496	19,432	12,064	5,627	3,669	1,958
1982	6,661	13,518	7,611	5,907	21,908	13,052	8,856	5,432	3,446	1,986
1983	6,053	12,686	7,968	4,718	29,449	16,261	13,188	4,345	2,986	1,359
1984	6,026	11,162	6,928	4,234	25,632	14,974	10,658	3,743	2,268	1,475
1985	9,897	18,155	11,104	7,051	26,176	13,348	12,828	3,424	2,072	1,352
1986	8,910	18,345	12,997	5,348	38,242	18,262	19,980	2,863	2,049	814
1987	5,703	15,655	10,801	4,854	48,633	21,738	26,895	3,228	2,168	1,060
1988	3,389	9,191	6,177	3,014	37,798	20,380	17,418	2,344	1,509	835
1989	1,885	5,260	3,569	1,691	41,268	22,742	18,526	1,574	1,099	475
1990	1,187	3,462	2,396	1,066	27,624	14,658	12,966	982	643	339
1991	1,037	2,669	1,773	896	28,385	3,649	2,992	933	557	376

- 1 At end of period. Figures exclude those who already have jobs as confirmed by the Central Provident Fund Board's employment records.
 2 Figure for 1991 includes those unspecified by sex.

Source : Ministry of Labour

3.14 CENTRAL PROVIDENT FUND CONTRIBUTORS BY AGE GROUP, 1981-1991 (End of Period)

Age Group (Years)	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Thousand											
Total	917.9	927.5	917.9	943.0	889.6	912.0	935.3	963.8	988.6	1,021.7	1,052.4
Under 20	92.5	81.1	72.1	69.1	47.6	44.4	43.5	40.2	41.4	42.8	42.2
20 - 24	219.1	212.7	203.3	202.2	181.0	177.3	168.7	159.3	148.5	143.0	137.8
25 - 29	189.0	197.0	197.0	203.0	198.1	203.8	206.1	208.8	207.8	206.9	207.0
30 - 34	133.1	139.1	142.4	149.5	149.8	159.8	168.9	178.3	184.2	190.4	194.3
35 - 39	71.3	83.4	91.8	104.9	113.2	119.6	126.6	135.3	142.9	151.6	161.1
40 - 44	63.7	64.1	63.9	63.5	59.4	65.2	77.6	89.3	103.0	117.9	125.6
45 - 49	47.0	48.2	50.5	54.0	54.3	56.5	57.5	59.8	60.5	60.6	68.0
50 - 54	36.3	37.3	37.6	38.4	38.8	39.2	40.3	44.0	48.2	51.7	55.2
55 - 59	21.5	22.9	23.1	24.2	23.4	22.9	23.5	25.0	27.1	30.1	31.9
60 & Over	23.2	22.0	21.4	21.6	20.5	19.7	20.1	21.5	23.8	26.2	28.6
Not specified	21.2	19.7	14.8	12.6	3.5	3.6	2.5	2.3	1.2	0.7	0.5
Per Cent											
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 20	10.0	8.8	7.9	7.4	5.3	4.8	4.7	4.2	4.2	4.2	4.0
20 - 24	23.9	22.9	22.1	21.4	20.4	19.4	18.0	16.5	15.0	14.0	13.1
25 - 29	20.6	21.2	21.5	21.5	22.3	22.4	22.0	21.7	21.0	20.3	19.7
30 - 34	14.5	15.0	15.5	15.9	16.8	17.5	18.1	18.5	18.6	18.6	18.5
35 - 39	7.8	9.0	10.0	11.1	12.7	13.1	13.5	14.0	14.5	14.8	15.3
40 - 44	6.9	6.9	7.0	6.7	6.7	7.2	8.3	9.3	10.4	11.5	11.9
45 - 49	5.1	5.2	5.5	5.7	6.1	6.2	6.2	6.2	6.1	5.9	6.5
50 - 54	4.0	4.0	4.1	4.1	4.4	4.3	4.3	4.6	4.9	5.1	5.3
55 - 59	2.4	2.5	2.5	2.6	2.6	2.5	2.5	2.6	2.8	2.9	3.0
60 & Over	2.5	2.4	2.3	2.3	2.3	2.2	2.1	2.2	2.4	2.6	2.7
Not specified	2.3	2.1	1.6	1.3	0.4	0.4	0.3	0.2	0.1	0.1	-

Source : Central Provident Fund Board

3.15 CENTRAL PROVIDENT FUND CONTRIBUTORS BY WAGE LEVEL, 1981-1991 (End of Period)

Monthly Wage Level (\$)	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Thousand											
Total	917.9	927.5	917.9	943.0	889.6	912.0	935.3	963.8	988.6	1,021.7	1,052.4
Below 200	49.5	68.7	34.3	35.5	24.6	23.8	23.0	19.4	20.1	19.4	18.4
200 - 299	115.4	81.7	77.4	73.1	57.4	55.1	51.4	42.9	36.0	32.3	29.0
300 - 399	134.2	108.2	85.0	64.8	56.6	60.6	55.4	40.4	38.3	33.5	29.8
400 - 499	129.7	119.1	110.7	91.6	81.3	82.0	76.4	60.2	41.9	36.8	29.4
500 - 599	88.6	91.8	102.5	105.6	101.1	101.7	100.4	87.6	70.5	54.1	41.9
600 - 799	127.4	129.4	140.0	153.5	150.7	157.2	156.7	172.0	170.7	149.6	126.3
800 - 999	79.0	89.2	97.3	102.0	101.2	105.3	111.0	126.7	135.3	139.9	139.7
1,000 - 1,499	95.2	113.5	129.1	147.3	144.9	148.8	158.1	186.9	206.1	229.7	251.2
1,500 - 1,999	40.4	47.0	55.6	66.3	65.2	67.5	74.4	89.9	105.1	125.2	144.6
2,000 - 2,499	17.7	24.1	29.6	35.7	36.2	36.8	41.2	47.9	54.6	68.1	79.7
2,500 - 2,999	9.1	13.1	17.0	19.6	20.7	21.5	24.4	26.8	33.5	40.0	45.9
3,000 & Over	18.3	27.3	32.2	43.4	45.9	47.9	59.8	61.5	73.9	91.1	113.7
Not specified	13.4	14.4	7.2	4.6	3.8	3.8	3.1	1.6	2.6	2.1	2.8
Per Cent											
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Below 200	5.4	7.5	3.7	3.8	2.7	2.6	2.5	2.0	2.0	1.9	1.8
200 - 299	12.6	8.8	8.4	7.7	6.5	6.0	5.5	4.5	3.6	3.2	2.7
300 - 399	14.6	11.7	9.3	6.9	6.4	6.6	5.9	4.2	3.9	3.3	2.8
400 - 499	14.1	12.8	12.1	9.7	9.1	9.0	8.2	6.2	4.2	3.6	2.8
500 - 599	9.6	9.9	11.2	11.2	11.4	11.2	10.7	9.1	7.1	5.3	4.0
600 - 799	13.9	13.9	15.2	16.3	16.9	17.2	16.7	17.8	17.3	14.6	12.0
800 - 999	8.6	9.6	10.6	10.8	11.4	11.6	11.9	13.1	13.7	13.7	13.3
1,000 - 1,499	10.4	12.2	14.1	15.6	16.3	16.3	16.9	19.4	20.9	22.5	23.9
1,500 - 1,999	4.4	5.1	6.1	7.0	7.3	7.4	8.0	9.3	10.6	12.2	13.7
2,000 - 2,499	1.9	2.6	3.2	3.8	4.1	4.0	4.4	5.0	5.5	6.7	7.6
2,500 - 2,999	1.0	1.4	1.8	2.1	2.3	2.4	2.6	2.8	3.4	3.9	4.4
3,000 & Over	2.0	2.9	3.5	4.6	5.2	5.3	6.4	6.4	7.5	8.9	10.8
Not specified	1.5	1.6	0.8	0.5	0.4	0.4	0.3	0.2	0.3	0.2	0.2

Source : Central Provident Fund Board

3.16 CENTRAL PROVIDENT FUND CONTRIBUTORS BY INDUSTRY, 1981-1991 (End of Period)

Industry	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
All Industries	Thousand										
	917.9	927.5	917.9	943.0	889.6	912.0	935.3	963.8	988.6	1,021.7	1,052.4
	2.2	2.3	2.3	2.4	2.4	2.6	2.4	2.3	2.2	2.0	1.9
	1.6	1.6	1.7	0.9	0.7	0.7	0.6	0.6	0.4	0.4	0.4
	292.2	274.6	261.0	283.0	251.4	271.1	287.5	297.6	301.5	298.4	297.9
	7.9	7.8	7.7	7.7	7.8	7.7	7.3	7.0	6.9	6.8	6.8
	37.6	43.0	47.9	58.6	54.2	51.6	44.2	41.3	38.7	40.1	42.0
	203.5	212.7	210.6	208.3	194.1	195.4	204.1	215.0	223.4	241.8	254.6
	98.6	98.0	95.1	93.3	90.3	90.0	91.9	98.0	103.1	107.4	110.0
	95.1	102.1	107.0	111.6	108.9	109.0	111.8	117.4	128.1	138.5	145.9
	170.3	175.3	174.3	176.7	179.8	183.9	185.5	184.5	184.2	186.4	192.6
	8.9	10.1	10.3	0.5	-	-	-	0.1	0.1	0.1	0.2
All Industries	Per Cent										
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2
	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	-	-	-
	31.8	29.6	28.4	30.0	28.3	29.7	30.7	30.9	30.5	29.2	28.3
	0.9	0.8	0.8	0.8	0.9	0.8	0.8	0.7	0.7	0.7	0.7
	4.1	4.6	5.2	6.2	6.1	5.6	4.7	4.3	3.9	3.9	4.0
	22.2	22.9	22.9	22.1	21.8	21.4	21.8	22.3	22.6	23.7	24.2
	10.7	10.6	10.4	9.9	10.1	9.9	9.8	10.2	10.4	10.5	10.4
	10.4	11.0	11.7	11.8	12.2	12.0	12.0	12.2	13.0	13.6	13.9
	18.5	18.9	19.0	18.8	20.2	20.2	19.8	19.1	18.7	18.2	18.3
	1.0	1.1	1.1	-	-	-	-	-	-	-	-

Source : Central Provident Fund Board

3.17 CENTRAL PROVIDENT FUND MEMBERS BY AGE GROUP, 1981-1991 (End of Period)

Age Group (Years)	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	Thousand										
	1,649.7	1,725.3	1,778.9	1,852.5	1,891.7	1,933.8	1,988.5	2,063.4	2,126.9	2,195.2	2,255.7
Under 20	179.0	166.1	152.2	142.3	118.9	98.3	95.4	95.8	104.5	112.6	112.6
20 - 24	357.2	367.5	368.6	369.9	355.0	337.6	316.4	290.2	266.5	252.5	239.9
25 - 29	334.9	353.2	362.8	374.7	383.3	389.3	393.3	395.3	393.0	385.9	375.8
30 - 34	252.1	271.4	290.6	310.4	327.0	345.7	359.2	370.0	380.1	391.0	398.2
35 - 39	138.3	163.2	184.4	212.3	242.2	261.2	278.4	297.2	315.1	332.2	350.7
40 - 44	123.8	128.0	131.8	132.3	130.2	144.5	169.1	190.6	217.9	248.2	266.4
45 - 49	88.7	92.9	101.2	111.1	118.4	128.0	132.0	135.8	136.1	133.7	147.9
50 - 54	68.3	71.4	74.2	78.0	84.0	88.8	92.2	99.8	109.3	116.2	125.2
55 & Over	82.0	86.6	88.3	94.7	105.5	112.6	122.0	157.2	173.6	192.1	208.4
Not specified	25.4	25.0	24.8	26.8	27.2	27.8	30.5	31.5	30.8	30.8	30.5
Total	Per Cent										
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 20	10.8	9.7	8.6	7.7	6.2	5.1	4.8	4.7	4.9	5.1	5.0
20 - 24	21.7	21.3	20.7	20.0	18.8	17.5	15.9	14.1	12.5	11.5	10.6
25 - 29	20.3	20.5	20.4	20.2	20.3	20.1	19.8	19.2	18.5	17.6	16.7
30 - 34	15.3	15.7	16.3	16.8	17.3	17.9	18.1	17.9	17.9	17.8	17.7
35 - 39	8.4	9.5	10.4	11.5	12.8	13.5	14.0	14.4	14.8	15.1	15.4
40 - 44	7.5	7.4	7.4	7.1	6.9	7.5	8.5	9.2	10.2	11.3	11.8
45 - 49	5.4	5.4	5.7	6.0	6.3	6.6	6.7	6.6	6.4	6.1	6.6
50 - 54	4.1	4.1	4.2	4.2	4.4	4.6	4.6	4.8	5.1	5.3	5.6
55 & Over	5.0	5.0	5.9	5.1	5.6	5.8	6.1	7.6	8.2	8.8	9.2
Not specified	1.5	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.4	1.4

Note : Data refer to all persons on the Central Provident Fund Board register.

Source : Central Provident Fund Board

3.18 PARTICIPANTS IN COURSES AND SEMINARS CONDUCTED BY NATIONAL PRODUCTIVITY BOARD, 1987-1991

					Number
Courses and Seminars	1987	1988	1989	1990	1991
TOTAL (Courses & Seminars)	27,766	24,112	31,510	35,099	40,284
TRAINING COURSES					
Total	12,814	13,175	20,608	19,783	16,236
Continuing Education (Diploma and Certificate Courses)	2,017	2,834	4,294	4,270	4,502
Productivity Application Programmes	7,509	7,944	12,482	11,214	10,009
QCC Training and Labour-Management Relations	3,610	3,705	5,528	3,988	4,286
Worker-Related Training (eg COSEC and house-keeping programmes)	1,413	2,023	4,230	2,959	1,836
Productivity Improvement Tools	1,734	1,397	2,221	2,544	2,086
Organisational Training	752	819	503	1,723	1,801
Productivity-Related Management Seminars/Conferences	3,288	2,397	3,832	4,299	1,725
PROMOTIONAL SEMINARS	14,952	10,937	10,902	15,316	24,048

Source : National Productivity Board

3.19 QUALITY CONTROL CIRCLES, 1983-1991
(End of Period)

	Number								
	1983	1984	1985	1986	1987	1988	1989	1990	1991
Registered Quality Control Circles	1,460	2,534	3,519	4,670	5,750	7,493	9,000	10,363	11,720
Organisations (Companies, Government Bodies & Statutory Boards)	98	128	143	156	168	186	199	212	234
Membership	10,861	18,723	25,670	33,971	41,164	53,935	65,032	76,228	81,169

Source : National Productivity Board

3.20 TRADE UNIONS AND MEMBERSHIP, 1981-1991

End of Year	Employee Class		Employer Class		Number
	Unions	Members	Unions	Members	
1981	86	224,362	47	6,798	
1982	89	214,337	45	7,008	
1983	90	205,155	42	6,579	
1984	86	192,394	7	997	
1985	84	201,132	5	1,170	
1986	83	200,613	5	1,146	
1987	93	205,717	5	1,188	
1988	83	210,918	5	1,203	
1989	86	212,874	5	1,207	
1990	83	212,204	5	1,039	
1991	83	217,086	4	1,064	

Source : Ministry of Labour

CHART 2

LABOUR FORCE, 1981-1991
(Aged 15 Years and Over)

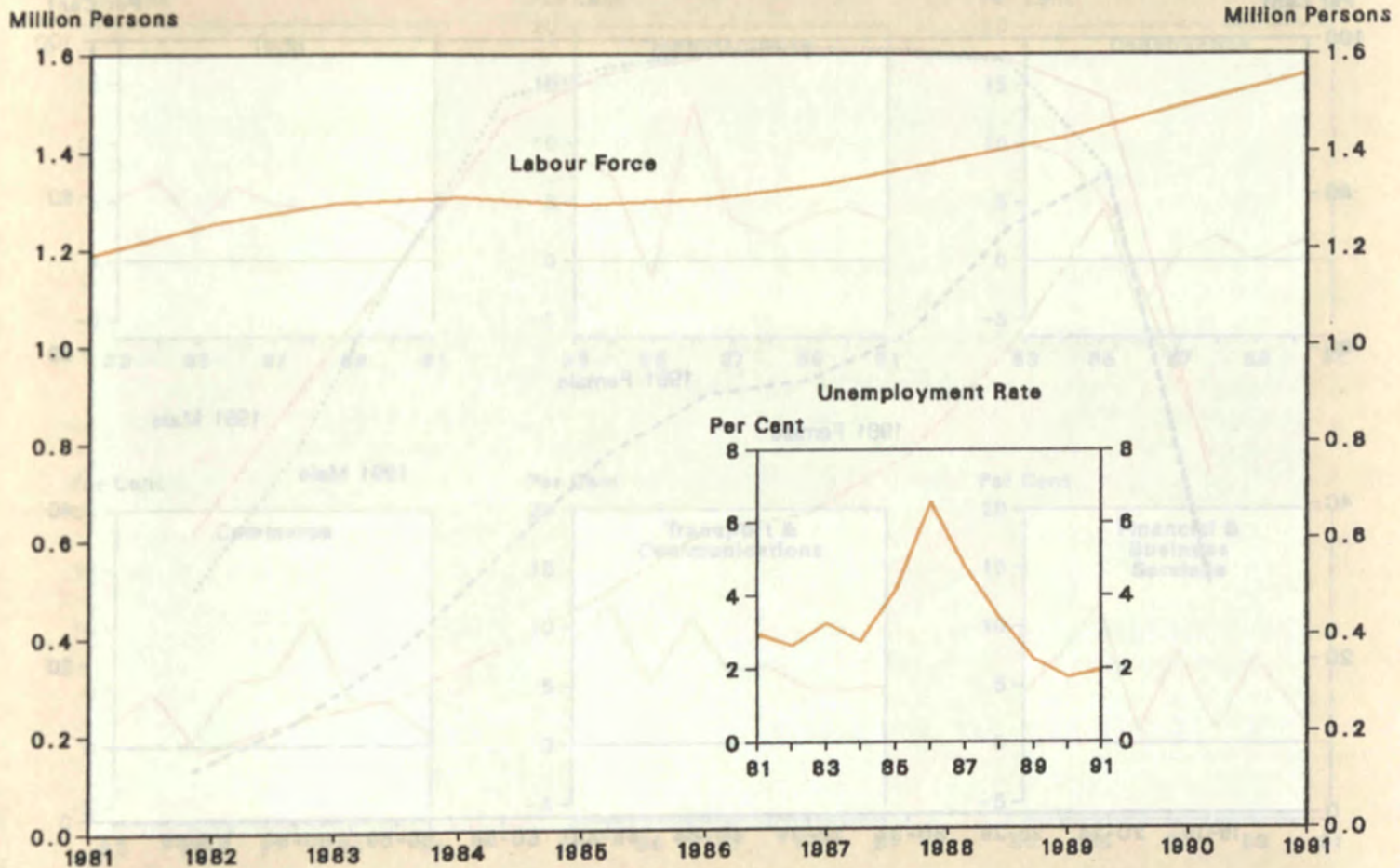


CHART 3

AGE-SEX SPECIFIC LABOUR FORCE PARTICIPATION RATES, 1981 AND 1991

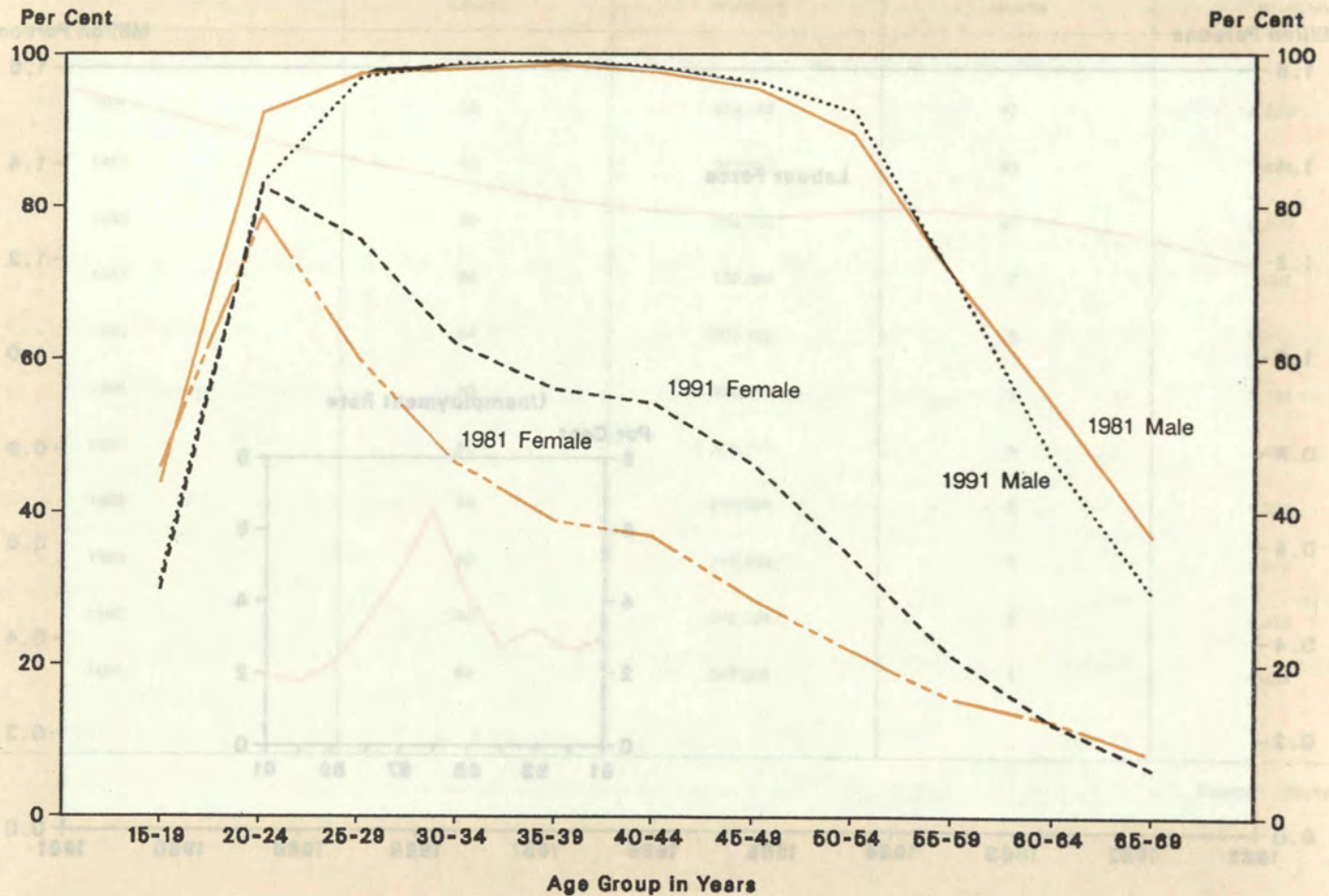
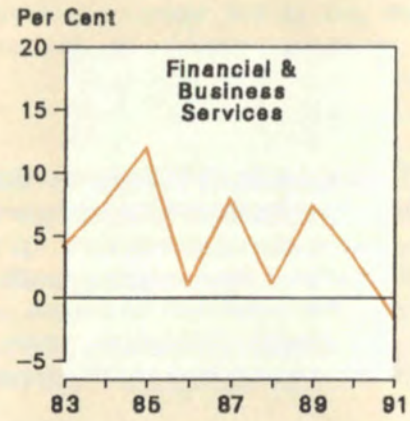
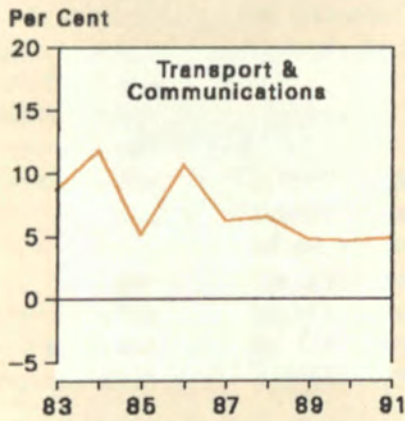
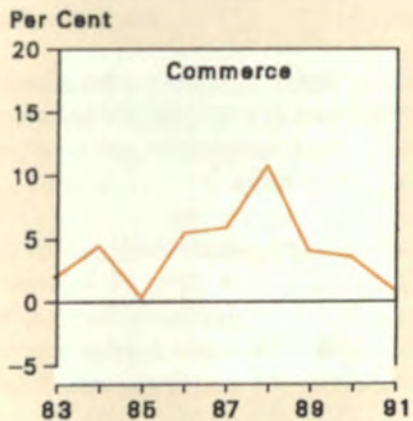
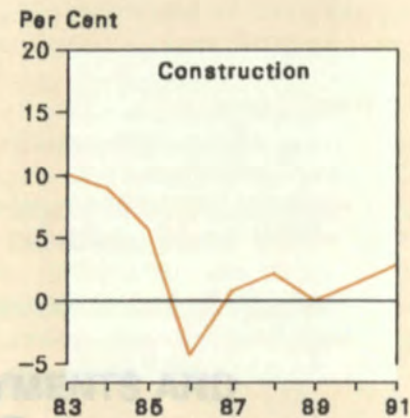
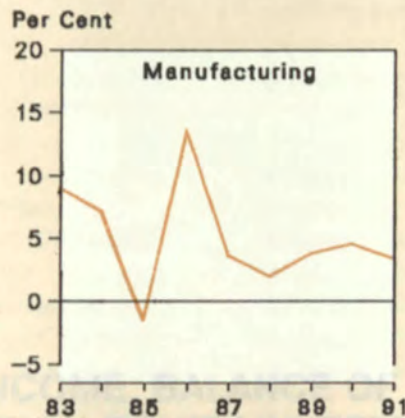
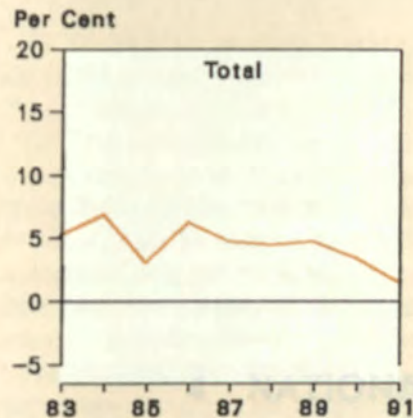


CHART 4

CHANGES IN PRODUCTIVITY BY INDUSTRY, 1983-1991



4 NATIONAL INCOME, BALANCE OF PAYMENTS AND FOREIGN EQUITY INVESTMENT

4 NATIONAL INCOME, BALANCE OF PAYMENTS AND FOREIGN EQUITY INVESTMENT

National Income Estimates

The output and expenditure 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, 1968" 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 of the 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.

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 1985 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 1985 which is set at 100. The deflators are derived as the ratio of current price estimates of the year in question to the corresponding estimates according to the base year price structure.

Valuation of GDP Estimates : GNP, GDP and Expenditure on 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 but exclude government grants and subsidies.

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

Details on concepts and methodologies used are published in the "Singapore National Accounts 1987".

Balance of Payments Estimates

The Balance of Payments is a systematic record of all economic transactions between the residents of an economy and the residents of the rest of the world in a given period. It

shows the country's trading position, changes in its position as a net foreign lender or borrower and changes in its official reserves holdings. It is very useful for assessing the external performance of an economy and for formulating policies connected with it.

The compilation of the Singapore balance of payments estimates is based on the principles recommended by the International Monetary Fund (IMF) in the fourth edition of the "Balance of Payments Manual (1977)".

The double entry accounting system is used to record the transactions such that every transaction is recorded twice, as a credit in one account and debit in another.

Studies to improve the balance of payments estimates are still continuing and the estimates will be revised as and when appropriate.

Sources of Data

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

The transactions recorded in the balance of payments fall into the following two 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 and unrequited transfers.
- b) The capital account which covers transactions affecting the wealth and debt or the net claims and liabilities of Singapore. Hence, it records transactions that affect the national income in future periods.

Definitions

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

Current account balance : It refers to the balance of transactions in goods and services and unrequited transfers. It shows the net change in financial assets arising from Singapore's real transactions.

Overall balance : This is the balance that must be financed by official reserves. It comprises the basic balance and short-term capital movements.

Official foreign reserves : It refers to the holdings of monetary gold, foreign exchange assets, special drawing

rights and reserve position in the International Monetary Fund of the central authorities.

Foreign Equity Investment

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

Definition

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

Other References

"The Singapore National Accounts, 1987", published by the Department of Statistics, contains a chapter on the detailed methodology used to compile Singapore's balance of payments estimates and a data series from 1960 to 1987. Analyses on the balance of payments of Singapore may be found in the various issues of "Economic Survey of Singapore", published by the Ministry of Trade & Industry annually.

4.1 INDIGENOUS GROSS NATIONAL PRODUCT, 1981-1991 (At Current Market Prices)

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
Total Gross Domestic Product	29,339	32,670	36,733	40,048	38,924	38,664	42,636	49,998	56,844	63,673	69,076
Share of Resident Foreigners & Resident Foreign Companies in GDP	8,162	8,460	8,774	9,578	9,837	10,350	12,302	15,977	18,654	21,575	23,864
Indigenous GDP	21,178	24,210	27,959	30,470	29,087	28,314	30,333	34,021	38,190	42,098	45,212
Factor Receipts of Singaporeans from Rest of the World	1,726	2,014	2,198	2,762	3,297	3,985	4,740	6,057	7,066	8,933	10,127
Indigenous GNP	22,903	26,224	30,157	33,232	32,384	32,298	35,073	40,079	45,256	51,031	55,339
Per Capita Indigenous GNP (\$S)	9,854	11,085	12,533	13,599	13,044	12,824	13,733	15,424	17,093	18,865	20,031

4.2 OUTPUT, SAVING AND INVESTMENT, 1981-1991 (At Current Market Prices)

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
Gross National Product											
Gross National Product at Market Prices	28,191.2	31,775.7	36,561.1	40,815.1	40,330.4	39,612.5	42,207.1	49,862.0	57,278.1	64,467.4	70,657.1
Gross Domestic Product at Factor Cost	27,166.7	30,190.4	33,718.8	36,551.7	35,619.4	36,069.1	39,766.8	46,637.5	52,440.4	58,570.5	63,545.3
Indirect Taxes	2,172.7	2,479.5	3,014.0	3,496.2	3,304.1	2,594.4	2,869.0	3,360.5	4,403.8	5,102.4	5,530.7
Net Factor Income from Abroad	-1,148.2	-894.2	-171.7	767.2	1,406.9	949.0	-428.7	-136.0	433.9	794.5	1,581.1
Generation of Gross National Saving											
Gross National Saving	10,482.5	12,885.2	16,306.1	18,596.4	16,543.4	15,588.5	16,304.8	20,224.0	24,518.3	28,850.5	33,107.6
Gross Domestic Saving	11,953.5	14,218.2	16,932.0	18,304.3	15,605.5	15,037.9	17,225.7	20,962.2	24,824.6	28,788.4	32,355.9
Gross Domestic Product at Market Prices Less : Private & Government Consumption Expenditure	29,339.4	32,669.9	36,732.8	40,047.9	38,923.5	38,663.5	42,635.8	49,998.0	56,844.2	63,672.9	69,076.0
Statistical Discrepancy	17,117.9	18,852.9	20,197.4	21,902.5	23,101.4	23,462.0	25,564.0	28,752.0	31,742.5	34,774.6	37,212.4
Net Factor Income from Abroad	-268.0	401.2	396.6	158.9	-216.6	-163.6	153.9	-283.8	-277.1	-109.9	492.3
Net Transfers from Abroad	-1,148.2	-894.2	-171.7	767.2	1,406.9	949.0	-428.7	-136.0	433.9	794.5	1,581.1
Net Factor Income from Abroad	-322.8	-438.8	-454.2	-475.1	-469.0	-398.4	-492.2	-602.2	-740.2	-732.4	-829.4
Finance of Gross Capital Formation											
Gross Capital Formation	13,587.0	15,658.8	17,595.8	19,417.3	16,551.2	14,894.8	16,636.6	18,435.0	19,782.1	24,918.1	25,838.0
Gross National Saving	10,482.5	12,885.2	16,306.1	18,596.4	16,543.4	15,588.5	16,304.8	20,224.0	24,518.3	28,850.5	33,107.6
Net Borrowing from/Lending (-) to Abroad	3,104.5	2,773.6	1,289.7	820.9	7.8	-693.7	331.8	-1,789.0	-4,736.2	-3,932.4	-7,269.6

4.3 GROSS DOMESTIC PRODUCT BY INDUSTRY, 1981-1991

Million Dollars

Industry	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
At Current Market Prices											
Total	29,339.4	32,669.9	36,732.8	40,047.9	38,923.5	38,663.5	42,635.8	49,998.0	56,844.2	63,672.9	69,076.0
Agriculture & Fishing	356.2	349.1	330.9	339.7	292.3	244.5	221.5	203.5	190.0	176.6	165.4
Quarrying	104.7	128.1	140.6	132.2	111.3	75.6	57.3	62.2	69.0	95.6	128.4
Manufacturing	8,361.5	8,153.5	8,907.9	9,863.4	9,184.3	10,185.5	12,090.6	14,963.0	16,690.6	18,761.0	19,988.0
Utilities	477.5	600.9	702.7	773.0	796.0	1,075.4	962.4	1,155.5	1,131.6	1,250.0	1,303.7
Construction	2,163.7	3,146.1	4,202.5	4,943.7	4,167.9	3,149.1	2,885.0	2,811.7	3,106.7	3,614.3	4,727.5
Commerce	5,840.0	6,387.5	6,667.4	6,885.5	6,636.3	6,516.3	7,368.5	8,877.4	9,871.6	10,983.4	11,534.7
Transport & Communications	4,063.0	4,435.8	4,891.9	5,222.3	5,234.5	5,279.6	5,920.8	6,877.4	7,905.9	8,482.0	9,294.1
Financial & Business Services	6,653.2	7,756.6	8,872.0	9,962.7	10,652.0	9,834.3	10,871.9	12,182.0	14,993.4	17,850.4	19,071.8
Other Services	2,670.3	3,340.7	3,812.7	4,238.7	4,577.3	4,509.9	4,691.3	5,208.9	5,847.1	6,365.0	7,042.8
Less : Imputed Bank Service Charge	1,778.6	2,109.9	2,306.8	2,827.4	3,196.5	2,600.3	2,887.3	2,939.9	3,641.0	4,514.3	4,818.2
Add : Import Duties	427.9	481.5	511.0	514.1	468.1	393.6	453.8	596.3	679.3	608.9	637.8
At 1985 Market Prices											
Total	31,603.1	33,772.3	36,537.2	39,572.5	38,923.5	39,641.4	43,387.5	48,221.6	52,678.0	57,072.7	60,895.9
Agriculture & Fishing	319.4	303.4	311.0	326.5	292.3	260.8	234.0	205.4	191.8	177.3	160.6
Quarrying	83.5	104.0	122.0	120.2	111.3	94.3	93.4	88.1	89.4	81.4	94.7
Manufacturing	9,290.6	8,965.4	9,216.4	9,907.6	9,184.3	9,955.8	11,673.2	13,773.2	15,121.5	16,557.6	17,431.4
Utilities	620.4	650.2	707.8	762.1	796.0	839.9	926.6	1,012.1	1,085.9	1,203.3	1,281.1
Construction	2,418.4	3,299.0	4,266.7	4,927.2	4,167.9	3,234.2	2,916.8	2,804.3	2,845.0	3,050.0	3,690.5
Commerce	5,755.0	6,091.9	6,374.2	6,738.9	6,636.3	6,641.8	7,346.5	8,560.8	9,268.9	10,026.4	10,672.0
Transport & Communications	3,896.8	4,351.7	4,678.1	5,131.8	5,234.5	5,658.4	6,137.6	6,786.4	7,426.4	8,079.2	8,723.5
Financial & Business Services	6,873.2	7,563.6	8,400.0	9,441.0	10,652.0	10,504.0	11,602.6	12,195.8	14,046.6	15,837.5	16,691.7
Other Services	3,516.5	3,840.0	4,142.7	4,372.3	4,577.3	4,802.5	5,060.3	5,231.0	5,484.2	5,783.2	6,173.5
Less : Imputed Bank Service Charge	1,653.8	1,925.4	2,191.7	2,666.6	3,196.5	2,743.9	3,001.5	2,946.7	3,466.1	4,249.8	4,555.0
Add : Import Duties	483.1	528.5	510.0	511.5	468.1	393.6	398.0	511.2	584.4	526.6	531.9

4.4 GROSS DOMESTIC PRODUCT DEFLATORS BY INDUSTRY, 1981-1991 (1985 = 100)

Industry	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
Total	92.8	96.7	100.5	101.2	100.0	97.5	98.3	103.7	107.9	111.6	113.4
Agriculture & Fishing	111.5	115.1	106.4	104.0	100.0	93.8	94.7	99.1	99.1	99.6	103.0
Quarrying	125.4	123.2	115.2	110.0	100.0	80.2	61.3	70.6	77.2	117.4	135.6
Manufacturing	90.0	90.9	96.7	99.6	100.0	102.3	103.6	108.6	110.4	113.3	114.7
Utilities	77.0	92.4	99.3	101.4	100.0	128.0	103.9	114.2	104.2	103.9	101.8
Construction	89.5	95.4	98.5	100.3	100.0	97.4	98.9	100.3	109.2	118.5	128.1
Commerce	101.5	104.9	104.6	102.2	100.0	98.1	100.3	103.7	106.5	109.5	108.1
Transport & Communications	104.3	101.9	104.6	101.8	100.0	93.3	96.5	101.3	106.5	105.0	106.5
Financial & Business Services	96.8	102.6	105.6	105.5	100.0	93.6	93.7	99.9	106.7	112.7	114.3
Other Services	75.9	87.0	92.0	96.9	100.0	93.9	92.7	99.6	106.6	110.1	114.1

Note : Refer to gross domestic product at market prices.

4.5 EXPENDITURE ON GROSS DOMESTIC PRODUCT, 1981-1991

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
	At Current Market Prices										
Total	29,339.4	32,669.9	36,732.8	40,047.9	38,923.5	38,663.5	42,635.8	49,998.0	56,844.2	63,672.9	69,076.0
Private Consumption Expenditure	14,329.3	15,282.5	16,202.1	17,569.5	17,552.9	18,191.8	20,249.4	23,415.1	25,870.5	28,136.4	29,949.0
Government Consumption Expenditure	2,788.6	3,570.4	3,995.3	4,333.0	5,548.5	5,270.2	5,314.6	5,336.9	5,872.0	6,638.2	7,263.4
Gross Fixed Capital Formation	12,784.7	15,505.7	17,464.2	19,122.2	16,424.8	14,310.2	15,164.9	17,344.1	20,537.6	23,747.6	27,528.9
Increase in Stocks	802.3	153.1	131.6	295.1	126.4	584.6	1,471.7	1,090.9	-755.5	1,170.5	-1,690.9
Net Exports of Goods & Services	-1,633.5	-1,440.6	-663.8	-1,113.0	-945.7	143.1	589.1	2,527.2	5,042.5	3,870.3	6,517.9
Statistical Discrepancy	268.0	-401.2	-396.6	-158.9	216.6	163.6	-153.9	283.8	277.1	109.9	-492.3
	At 1985 Market Prices										
Total	31,603.1	33,772.3	36,537.2	39,572.5	38,923.5	39,641.4	43,387.5	48,221.6	52,678.0	57,072.7	60,895.9
Private Consumption Expenditure	15,491.3	16,086.4	16,852.1	17,711.6	17,552.9	18,287.7	20,052.5	22,757.8	24,621.7	26,252.2	27,301.8
Government Consumption Expenditure	3,411.6	3,863.8	4,235.9	4,457.2	5,548.5	5,606.8	5,653.9	5,339.1	5,594.8	6,228.8	6,730.7
Gross Fixed Capital Formation	12,810.3	15,405.7	17,067.7	18,677.4	16,424.8	14,540.2	15,028.0	16,259.6	18,796.6	21,625.4	24,641.1
Increase in Stocks	730.7	144.0	242.2	273.0	126.4	637.4	1,478.0	578.4	-734.0	1,015.1	-853.4
Net Exports of Goods & Services	-1,088.6	-2,044.9	-1,669.6	-1,431.4	-945.7	349.3	1,248.5	3,489.0	4,705.5	2,207.4	3,472.4
Statistical Discrepancy	247.8	317.3	-191.1	-115.3	216.6	220.0	-73.4	-202.3	-306.6	-256.2	-396.7

4.6 DEFLATORS OF EXPENDITURE ON GROSS DOMESTIC PRODUCT, 1981-1991 (1985 = 100)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^p
Total	92.8	96.7	100.5	101.2	100.0	97.5	98.3	103.7	107.9	111.6	113.4
Private Consumption Expenditure	92.5	95.0	96.1	99.2	100.0	99.5	101.0	102.9	105.1	107.2	109.7
Government Consumption Expenditure	81.7	92.4	94.3	97.2	100.0	94.0	94.0	100.0	105.0	106.6	107.9
Gross Fixed Capital Formation	99.8	100.6	102.3	102.4	100.0	98.4	100.9	106.7	109.3	109.8	111.7
Exports of Goods & Services	113.2	112.9	107.5	101.5	100.0	86.4	93.1	93.3	95.4	95.5	92.4
Imports of Goods & Services	113.8	111.5	105.8	101.1	100.0	86.6	93.8	94.0	94.9	94.1	90.0

4.7 PRIVATE CONSUMPTION EXPENDITURE, 1981-1991

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^p
At Current Market Prices											
Total	14,329.3	15,282.5	16,202.1	17,569.5	17,552.9	18,191.8	20,249.4	23,415.1	25,870.5	28,136.4	29,949.0
Food & Beverages	4,561.8	4,800.1	4,932.0	5,185.9	5,121.5	5,096.9	5,430.2	6,007.8	6,241.4	6,388.8	6,739.2
Clothing & Footwear	1,408.4	1,555.2	1,681.8	1,665.1	1,569.4	1,656.6	1,870.4	2,092.3	2,225.6	2,612.8	2,616.9
Rent & Utilities	1,493.1	1,623.4	1,745.3	1,976.6	2,184.9	2,299.3	2,430.4	2,637.4	2,786.3	3,097.4	3,404.7
Furniture & Household Equipment	1,525.8	1,602.1	1,719.3	1,943.2	2,015.3	2,051.6	2,157.1	2,541.4	2,736.7	2,997.8	3,208.2
Medical Services	445.3	502.8	567.4	643.1	702.2	898.1	962.8	1,139.3	1,265.7	1,439.9	1,629.7
Transport & Communications	2,345.5	2,560.2	2,743.1	2,816.7	2,678.7	2,609.3	2,997.0	3,696.2	4,320.2	4,786.0	4,966.6
Recreation & Education	2,153.8	2,229.1	2,421.0	2,543.0	2,453.5	2,817.4	3,258.9	4,000.6	4,479.6	5,257.3	5,771.9
Other Goods & Services	3,638.4	3,684.4	3,829.6	3,910.1	3,562.4	3,700.1	4,532.7	5,311.5	6,399.7	7,627.7	7,642.9
Add : Residents' Expenditure Abroad	651.2	843.3	973.4	1,049.5	1,103.5	1,145.8	1,362.3	1,521.3	2,106.9	2,668.8	2,820.9
Less : Non-residents' Expenditure Locally	3,894.0	4,118.1	4,410.8	4,163.7	3,838.5	4,083.3	4,752.4	5,532.7	6,691.6	8,740.1	8,852.0
At 1985 Market Prices											
Total	15,491.3	16,086.4	16,852.1	17,711.6	17,552.9	18,287.7	20,052.5	22,757.8	24,621.7	26,252.2	27,301.8
Food & Beverages	4,810.1	4,876.0	4,962.4	5,111.3	5,121.5	5,206.7	5,469.0	5,884.5	5,976.9	6,068.0	6,332.6
Clothing & Footwear	1,457.0	1,580.0	1,642.4	1,647.3	1,569.4	1,663.7	1,852.5	2,010.5	2,112.6	2,462.8	2,442.1
Rent & Utilities	1,630.9	1,694.2	1,794.9	1,984.8	2,184.9	2,372.1	2,559.4	2,760.1	2,862.4	3,064.7	3,208.8
Furniture & Household Equipment	1,609.4	1,641.4	1,747.1	1,953.3	2,015.3	2,011.9	2,099.0	2,428.8	2,577.5	2,776.1	2,956.4
Medical Services	570.0	620.1	633.1	654.6	702.2	902.1	967.5	1,123.8	1,225.7	1,340.8	1,388.7
Transport & Communications	2,752.8	2,861.2	2,995.0	2,967.3	2,678.7	2,698.7	2,985.4	3,553.5	4,001.6	4,296.7	4,252.8
Recreation & Education	2,047.0	2,168.9	2,480.4	2,534.9	2,453.5	2,761.5	3,155.8	3,836.6	4,287.6	5,025.9	5,518.4
Other Goods & Services	3,523.8	3,633.1	3,779.3	3,884.1	3,562.4	3,699.4	4,465.1	5,158.8	5,983.7	6,743.8	6,594.3
Add : Residents' Expenditure Abroad	729.6	896.0	992.2	1,049.7	1,103.5	1,161.0	1,366.1	1,496.6	1,993.1	2,456.2	2,525.8
Less : Non-residents' Expenditure Locally	3,639.3	3,884.5	4,174.7	4,075.7	3,838.5	4,189.4	4,867.3	5,495.4	6,399.4	7,982.8	7,918.1

4.8 GROSS FIXED CAPITAL FORMATION, 1981-1991

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
	At Current Market Prices										
Total	12,784.7	15,505.7	17,464.2	19,122.2	16,424.8	14,310.2	15,164.9	17,344.1	20,537.6	23,747.6	27,528.9
Construction & Works	6,107.1	8,280.1	10,876.6	11,954.6	10,007.4	7,908.9	6,986.3	6,666.3	7,413.3	8,347.4	10,680.2
Residential Buildings	2,060.7	3,395.5	5,516.8	6,591.2	5,265.4	3,569.9	3,021.0	3,199.7	3,254.5	3,541.3	4,228.2
Non-residential Buildings	3,149.4	3,912.4	4,336.7	4,200.5	3,284.8	2,133.7	1,772.6	2,054.4	2,813.4	3,596.2	4,971.3
Other Construction & Works	897.0	972.2	1,023.1	1,162.9	1,457.2	2,205.3	2,192.7	1,412.2	1,345.4	1,209.9	1,480.7
Transport Equipment	2,207.8	2,595.9	2,435.5	2,376.1	1,908.0	1,674.1	1,991.3	2,096.8	3,171.4	3,544.6	4,263.9
Machinery & Equipment	4,469.8	4,629.7	4,152.1	4,791.5	4,509.4	4,727.2	6,187.3	8,581.0	9,952.9	11,855.6	12,584.8
	At 1985 Market Prices										
Total	12,810.3	15,405.7	17,067.7	18,677.4	16,424.8	14,540.2	15,028.0	16,259.6	18,796.6	21,625.4	24,641.1
Construction & Works	5,815.3	8,106.4	10,647.4	11,780.7	10,007.4	8,232.5	7,277.4	6,661.5	6,819.5	7,172.2	8,711.1
Residential Buildings	1,960.8	3,403.2	5,551.4	6,549.5	5,265.4	3,722.8	3,135.4	3,186.2	2,983.4	3,026.6	3,441.5
Non-residential Buildings	3,000.8	3,788.2	4,123.8	4,098.5	3,284.8	2,219.1	1,849.9	2,055.0	2,586.9	3,091.5	4,046.1
Other Construction & Works	853.7	915.0	972.2	1,132.7	1,457.2	2,290.6	2,292.1	1,420.3	1,249.2	1,054.1	1,223.5
Transport Equipment	2,574.8	2,857.0	2,344.0	2,207.0	1,908.0	1,708.5	1,925.1	1,919.5	2,908.8	3,240.6	3,907.6
Machinery & Equipment	4,420.2	4,442.3	4,076.3	4,689.7	4,509.4	4,599.2	5,825.5	7,678.6	9,068.3	11,212.6	12,022.4

4.9 BALANCE OF PAYMENTS, 1981-1991

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ¹
A Current Account Balance	-3,104.5	-2,773.6	-1,289.7	-820.9	-7.8	693.7	-331.8	1,789.0	4,736.2	3,932.4	7,269.6
Goods & Services (Net)	-2,781.7	-2,334.8	-835.5	-345.8	461.2	1,092.1	160.4	2,391.2	5,476.4	4,664.8	8,099.0
Merchandise Trade Balance	-12,936.5	-14,470.1	-12,304.1	-8,684.2	-6,223.5	-4,497.3	-5,152.0	-4,719.3	-4,772.3	-9,278.6	-7,131.6
Exports fob	41,539.3	41,590.6	43,168.0	48,340.9	47,376.3	46,457.7	57,838.5	76,458.1	84,328.3	91,865.4	98,157.9
Imports fob	54,475.8	56,060.7	55,472.1	57,025.1	53,599.8	50,955.0	62,990.5	81,177.4	89,100.6	101,144.0	105,289.5
Services Balance	10,154.8	12,135.3	11,468.6	8,338.4	6,684.7	5,589.4	5,312.4	7,110.5	10,248.7	13,943.4	15,230.6
Exports of Services	20,503.1	23,436.9	22,398.2	19,590.9	18,034.3	18,375.3	21,792.0	26,487.5	31,642.9	39,291.0	41,821.7
Shipment	1,387.8	1,471.5	1,472.2	1,512.8	1,501.1	1,521.9	1,877.7	2,459.3	2,696.4	2,948.7	3,114.9
Travel	3,786.4	4,034.2	4,214.8	3,965.0	3,653.0	3,847.9	4,506.2	5,275.5	6,448.9	8,553.4	8,665.7
Investment Income	2,307.5	2,658.7	2,747.7	3,418.4	3,990.9	4,831.9	6,108.2	7,627.4	8,743.1	10,829.2	12,304.5
Official Transaction	206.2	223.0	214.0	232.4	217.8	211.1	206.6	210.7	202.2	184.1	160.4
Other Transportation & Services nec	12,815.2	15,049.5	13,749.5	10,462.3	8,671.5	7,962.5	9,093.3	10,914.6	13,552.3	16,775.6	17,576.2
Imports of Services	10,348.3	11,301.6	10,929.6	11,252.5	11,349.6	12,785.9	16,479.6	19,377.0	21,394.2	25,347.6	26,591.1
Shipment	2,903.4	3,274.5	3,078.8	3,201.9	3,317.6	3,443.2	3,983.9	5,191.0	5,669.3	6,784.0	7,069.5
Travel	791.2	1,027.8	1,187.4	1,282.3	1,349.4	1,404.3	1,674.0	1,871.7	2,600.8	3,301.0	3,488.1
Investment Income	3,473.8	3,570.2	2,937.4	2,670.3	2,602.4	3,715.9	5,916.8	6,846.0	7,168.7	8,559.7	9,139.8
Official Transaction	54.9	66.4	75.3	81.0	91.8	89.7	94.4	129.8	106.2	151.4	161.1
Other Transportation & Services nec	3,125.0	3,362.7	3,650.7	4,017.0	3,988.4	4,132.8	4,810.5	5,338.5	5,849.2	6,551.5	6,732.6
Unrequited Transfers (Net)	-322.8	-438.8	-454.2	-475.1	-469.0	-398.4	-492.2	-602.2	-740.2	-732.4	-829.4
Private	-305.5	-415.5	-436.9	-456.5	-451.2	-374.0	-357.8	-420.3	-495.7	-491.0	-584.8
Official	-17.3	-23.3	-17.3	-18.6	-17.8	-24.4	-134.4	-181.9	-244.5	-241.4	-244.6
B Capital Account Balance	4,578.5	4,940.6	5,204.4	3,369.9	1,536.9	-967.7	989.6	1,987.6	3,173.6	11,675.1	5,368.4
Non monetary Sector (Net)	3,583.6	4,224.7	2,378.4	1,769.7	2,554.8	2,820.8	2,799.8	3,982.9	5,792.2	8,629.8	6,983.2
Private	3,616.4	4,256.6	2,558.0	1,794.7	2,594.3	2,997.0	2,842.8	4,023.5	5,875.0	8,694.2	7,007.2
Official	-32.8	-31.9	-179.6	-25.0	-39.5	-176.2	-43.0	-40.6	-82.8	-64.4	-24.0
Monetary Sector (Net)	994.9	715.9	2,826.0	1,600.2	-1,017.9	-3,788.5	-1,810.2	-1,995.3	-2,618.6	3,045.3	-1,614.8
Commercial Banks : Foreign Assets ¹	-3,772.5	833.8	-1,690.3	-4,751.9	-3,057.9	-6,017.0	-3,285.7	-5,071.4	-14,198.2	4,909.1	1,823.4
Foreign Liabilities	4,767.4	-117.9	4,516.3	6,352.1	2,040.0	2,228.5	1,475.5	3,076.1	11,579.6	-1,863.8	-3,438.2
C Allocation of Special Drawing Rights	17.6	-	-	-	-	-	-	-	-	-	-
D Balancing Item	446.8	350.5	-1,677.0	701.6	1,412.6	1,482.6	1,670.7	-433.0	-2,575.6	-5,715.0	-5,382.8
E Overall Balance (A+B+C+D)	1,938.4	2,517.5	2,237.7	3,250.6	2,941.7	1,208.6	2,328.5	3,343.6	5,334.2	9,892.5	7,255.2
F Official Reserves (Net)¹	-1,938.4	-2,517.5	-2,237.7	-3,250.6	-2,941.7	-1,208.6	-2,328.5	-3,343.6	-5,334.2	-9,892.5	-7,255.2
Special Drawing Rights	-32.9	-51.9	-23.4	3.6	-17.6	-31.4	-29.1	-8.2	-14.4	-27.8	-4.2
Reserve Position in the Fund	-46.9	-10.1	-1.8	-1.3	-26.0	-24.8	-11.7	12.2	12.8	3.0	12.8
Foreign Exchange Assets	-1,858.6	-2,455.5	-2,212.5	-3,252.9	-2,898.1	-1,152.4	-2,287.7	-3,347.6	-5,332.6	-9,867.7	-7,263.8

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

4.10 FOREIGN EQUITY INVESTMENT IN SINGAPORE BY INDUSTRY, 1978-1989 (End of Period)

Million Dollars

Industry	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	8,328.8	10,140.4	13,002.4	16,681.4	20,355.3	22,120.3	24,801.2	25,502.7	28,584.0	34,540.3	41,276.7	47,030.1
Agriculture & Fishing	10.8	14.4	14.4	62.0	56.9	81.5	83.5	75.6	29.7	45.7	44.8	50.7
Mining & Quarrying	8.0	9.5	11.4	18.7	9.4	-2.9	-23.5	-39.4	-48.6	-50.4	-55.2	-44.6
Manufacturing	4,561.8	5,681.1	6,927.8	8,097.6	9,048.8	10,404.7	11,415.3	11,912.0	13,156.2	15,892.7	17,769.2	19,841.9
Construction	120.1	115.0	173.0	211.6	205.1	54.2	153.2	246.2	314.9	199.6	361.2	716.3
Commerce	1,290.5	1,558.7	2,181.0	2,697.5	3,451.1	3,732.6	3,765.6	3,512.2	3,493.8	3,848.7	4,592.3	5,447.4
Transport & Storage	231.1	350.6	445.7	553.9	596.5	483.4	372.2	107.8	201.9	516.4	864.9	1,524.2
Financial/Business Services	2,065.2	2,371.3	3,205.2	4,977.5	6,936.0	7,214.5	8,882.4	9,511.2	11,249.2	13,890.1	17,486.1	19,181.8
Social & Personal Services	41.3	39.8	43.8	62.5	51.5	152.3	152.5	177.1	186.9	197.5	213.4	312.4

4.11 FOREIGN EQUITY INVESTMENT IN SINGAPORE BY COUNTRY, 1978-1989
(End of Period)

Million Dollars

Country	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	8,328.8	10,140.4	13,002.4	16,681.4	20,355.3	22,120.3	24,801.2	25,502.7	28,584.0	34,540.3	41,276.7	47,030.1
United States	1,440.8	1,947.5	2,551.5	3,236.8	4,271.2	5,027.9	5,210.5	6,170.1	7,233.5	8,500.1	8,319.2	9,157.7
Europe	3,256.3	3,911.3	4,814.8	6,127.0	7,006.2	7,057.5	7,522.8	7,688.7	8,790.4	10,025.6	11,584.8	13,135.2
European Community	2,915.1	3,456.9	4,237.5	5,429.3	6,027.2	5,852.7	6,129.6	6,134.9	6,876.8	7,668.1	8,941.2	10,112.4
United Kingdom	2,502.5	2,882.0	3,432.8	4,471.7	4,899.4	4,534.0	4,572.6	4,365.2	4,590.5	4,894.4	5,473.2	5,615.3
Germany	177.8	296.0	421.6	413.1	456.7	465.3	512.7	565.2	715.8	763.0	851.7	910.5
Netherlands	157.9	187.7	253.1	382.2	479.6	611.3	708.7	877.2	1,188.7	1,653.8	2,163.2	2,952.4
Others	76.9	91.2	130.0	162.3	191.5	242.1	335.6	327.3	381.8	356.9	453.1	634.2
Switzerland	317.3	408.4	505.1	579.2	788.8	984.1	1,206.3	1,415.4	1,628.2	1,838.5	2,102.6	2,294.0
Others	23.9	46.0	72.2	118.5	190.2	220.7	186.9	138.4	285.4	519.0	541.0	728.8
Asia	2,965.6	3,497.9	4,679.1	6,177.6	7,730.4	8,454.2	9,478.2	9,068.2	9,053.5	10,476.0	13,258.8	15,991.0
Japan	784.7	1,073.1	1,420.7	1,713.7	2,102.9	2,252.8	2,926.0	3,261.3	3,771.8	4,730.6	6,646.0	8,606.7
Hong Kong	1,003.1	1,137.5	1,707.0	2,187.5	2,647.2	2,732.3	2,780.6	2,352.8	2,121.8	2,636.2	2,886.1	3,530.3
Taiwan	35.5	35.3	61.6	55.9	58.8	77.6	82.6	82.0	83.9	120.6	161.3	208.1
Asean	1,062.0	1,169.6	1,361.0	2,044.8	2,687.7	3,254.4	3,553.4	3,165.7	2,859.2	2,721.4	3,310.2	3,343.5
Others	80.3	82.4	128.8	175.7	233.8	137.1	135.6	206.4	216.8	267.2	255.2	302.4
Australia	276.9	342.6	403.9	411.3	371.2	478.0	584.3	593.9	1,105.2	1,607.3	3,346.3	3,132.6
Other Countries	389.2	441.1	553.1	728.7	976.3	1,102.7	2,005.4	1,981.8	2,401.4	3,931.3	4,767.6	5,613.6

CHART 5

GROSS NATIONAL PRODUCT (GNP) AND PER CAPITA GNP, 1981-1991

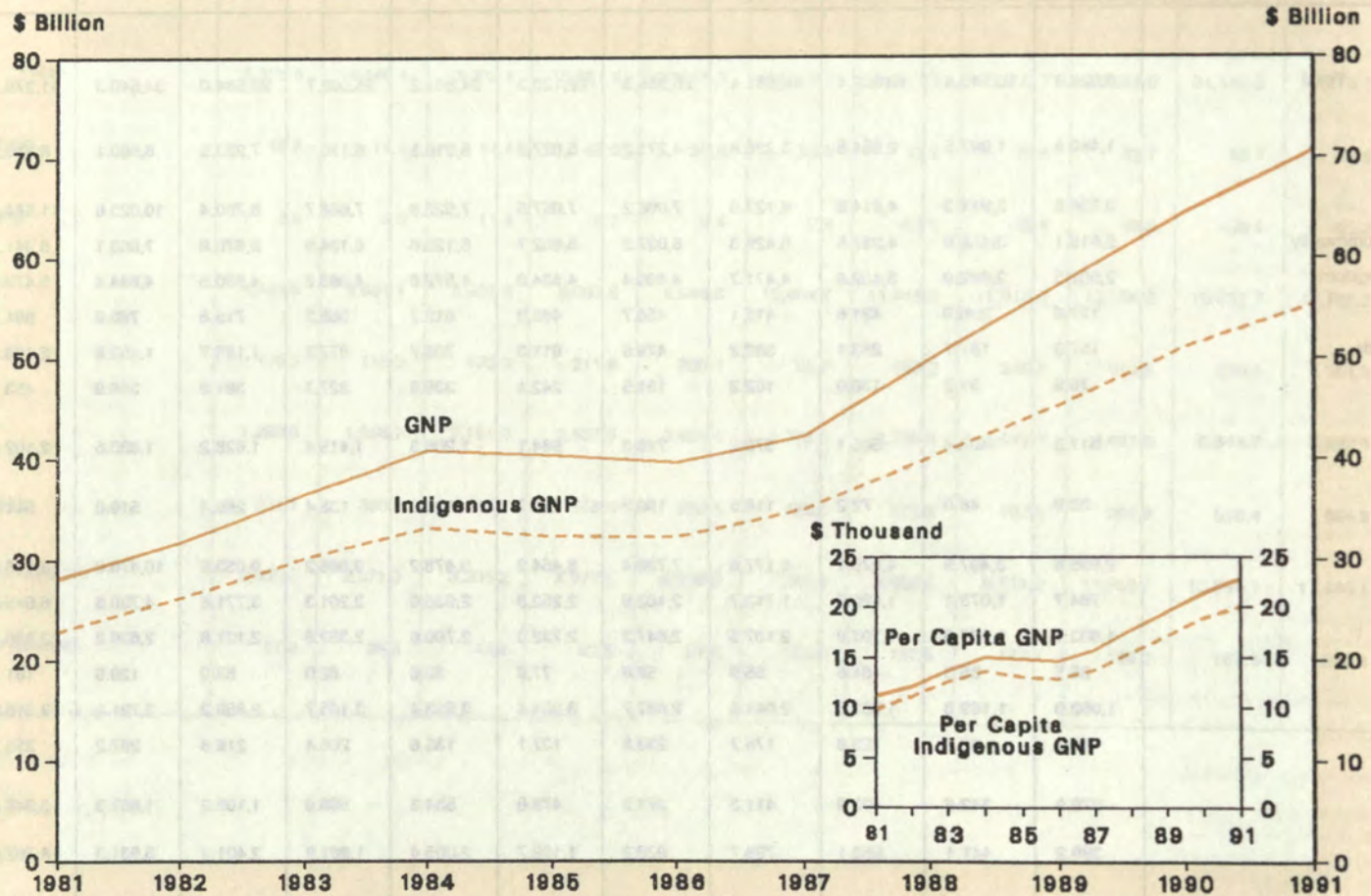


CHART 6

REAL ANNUAL GROWTH RATES OF MAJOR INDUSTRY, 1981-1991
(At 1985 Market Prices)

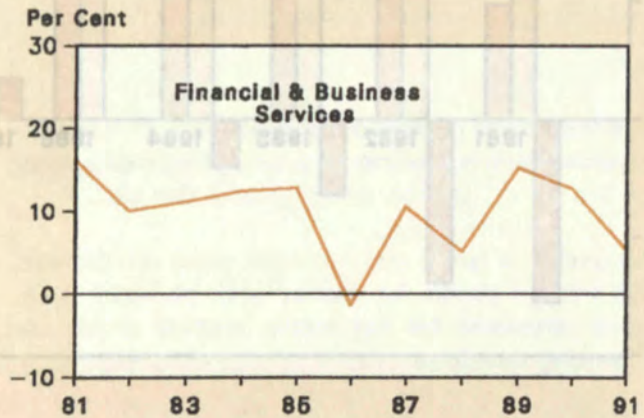
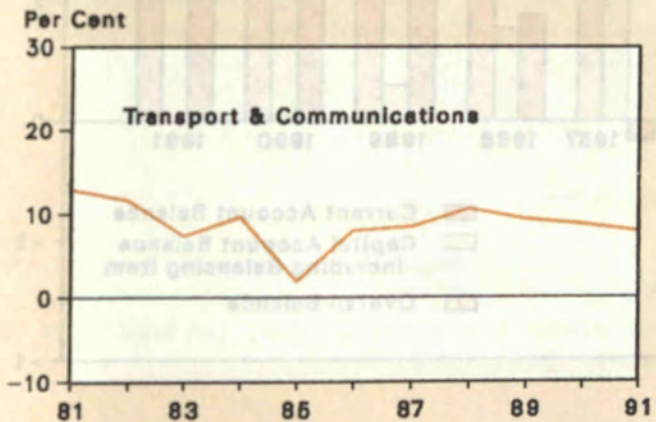
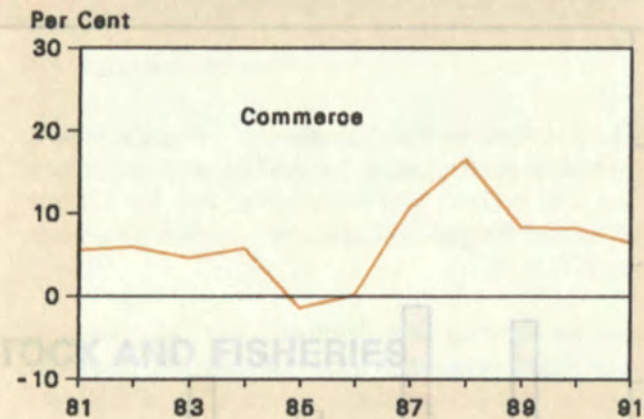
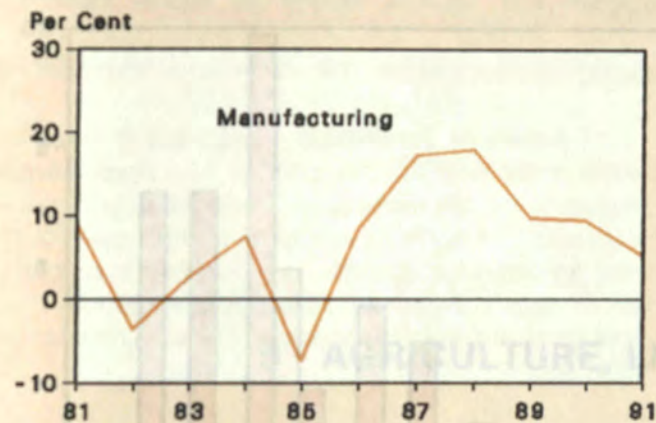
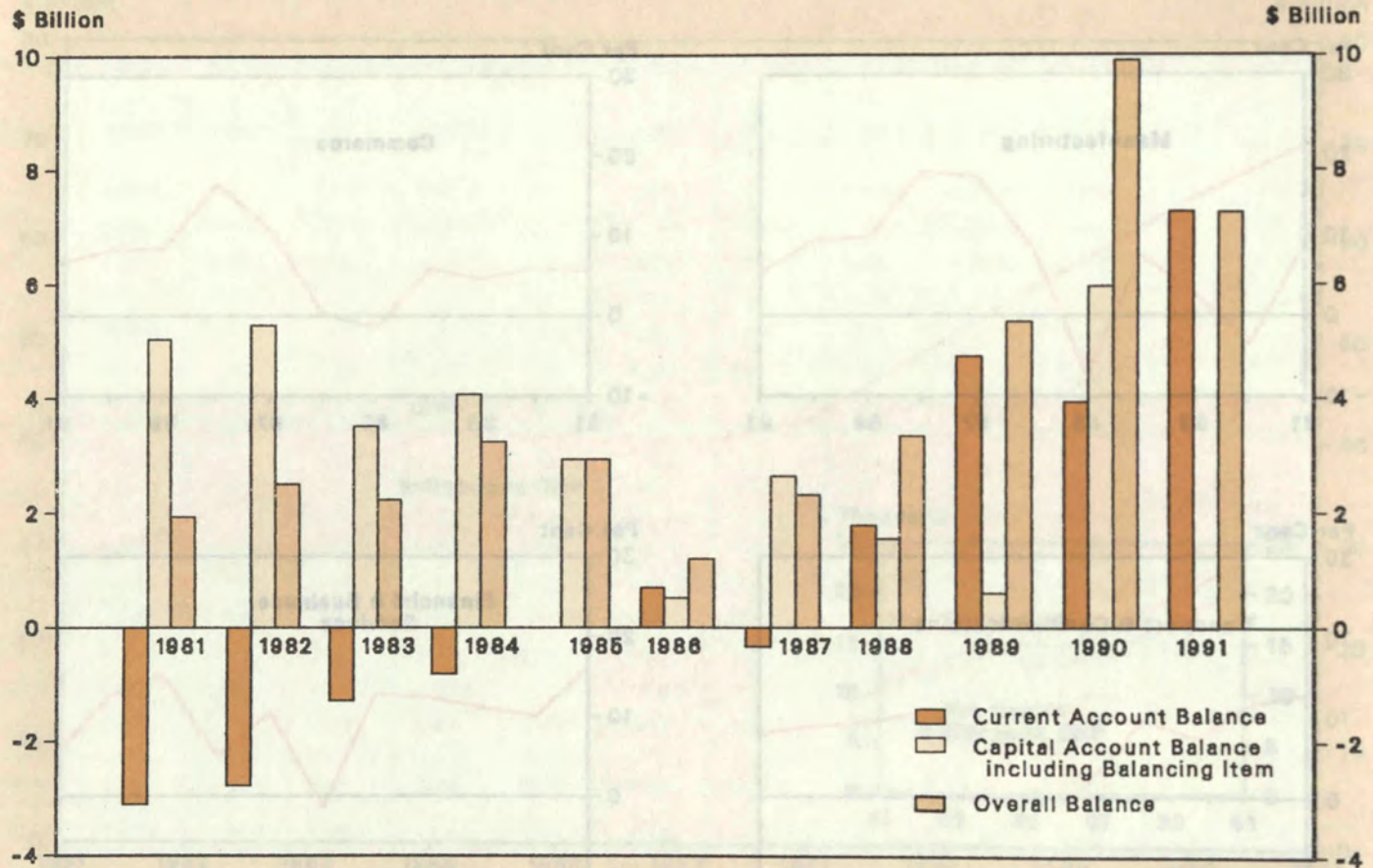


CHART 7

BALANCE OF PAYMENTS, 1981-1991



5 AGRICULTURE, LIVESTOCK AND FISHERIES

5 AGRICULTURE, LIVESTOCK AND FISHERIES

General

The agricultural sector of Singapore is engaged mainly in the production of poultry, eggs, fish and vegetables for local consumption and orchids and ornamental fish for exports. About 2 per cent of Singapore's land area is used for agricultural purposes.

Land for farming has declined over the years. 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.

Horticulture

The main crops cultivated are vegetables and orchids. Vegetable cultivation is highly intensive, producing mainly leafy vegetables like cai xin, gai lan, weng cai and xian cai.

A number of farms and nurseries grow orchids and ornamental foliage plants for export and domestic sale. Singapore is renowned for her exotic orchids which are exported to many countries.

Poultry and Livestock

Domestic production meets about 7 per cent of poultry meat and 36 per cent of hen eggs consumed in Singapore. Poultry farming is an important farming activity in Singapore. The eight highly intensive large scale poultry farms in the Agrotechnology Parks are expected to produce 80 per cent of eggs consumed in Singapore when fully developed. Local farms and hatcheries export day-old chicks to countries in the region.

Pigs, sheep, goats and cattle are slaughtered at the Jurong and Kim Chuan Abattoirs under close supervision of the Veterinary Public Health Division of the Primary Production Department.

Fisheries

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

The Jurong Fishing Port with its Central Fish Market Complex plays an important role as a major fish landing point in Singapore. The complex handles the bulk of fresh fish, especially those landed by foreign vessels. The Punggol Fishing Port and Wholesale Fish Market Complex handle much smaller quantities which are landed mainly by local

fishing vessels.

There are some 77 licensed marine fish farms covering about 42 hectares of coastal waters, culturing high-value fish like groupers and seabass.

5.1 PRODUCTION OF PRINCIPAL CROPS, 1981-1991

Year	Vegetables	Fruits	Sugar Cane	Tobacco	Coconuts
	Tonnes			Million Nuts	
1981	42,861	8,065	1,570	133	5
1982	41,388	8,090	1,460	88	5
1983	35,326	8,070	960	34	4
1984	32,767	6,950	700	10	4
1985	28,648	5,610	370	16	2
1986	20,876	5,450	185	10	2
1987	16,810	5,080	60	12	2
1988	10,154	2,815	68	10	1
1989	6,462	1,446	47	10	1
1990	8,907	1,060	50	6	-
1991	4,597	280	-	-	-

Source : Primary Production Department

5.2 LIVESTOCK SLAUGHTERED, 1981-1991

Year						Number
	Pigs	Sheep	Goats	Oxen	Buffaloes	
1981	936,751	55,707	196	1,214	170	
1982	883,666	56,999	204	1,496	111	
1983	926,005	59,012	249	1,414	138	
1984	1,026,287	58,045	212	1,471	137	
1985	1,093,272	53,579	121	1,383	77	
1986	1,086,304	54,666	747	1,537	7	
1987	1,106,678	52,363	1,432	1,703	6	
1988	1,148,832	41,642	310	1,668	3	
1989	1,134,357	29,643	265	1,423	-	
1990	1,152,395	28,111	227	1,260	-	
1991	1,231,648	26,783	385	1,288	-	

Source : Primary Production Department

5.3 FISH SUPPLY AND AUCTION, 1981-1991

Tonnes

Year	Fish Supply			Fish Auction
	Local Production	Imports	Exports	
1981	15,620	99,707	50,826	85,016
1982	18,830	89,104	50,995	93,430
1983	19,099	99,099	56,046	102,573
1984	25,041	107,784	61,239	117,638
1985	22,761	102,139	56,841	112,290
1986	20,279	135,034	80,455	109,531
1987	15,096	133,976	93,724	111,864
1988	13,152	155,588	107,074	103,135
1989	10,565	144,714	103,052	110,774
1990	11,400	161,719	116,213	106,829
1991	11,022	171,551	133,809	106,537

Note : Exclude dried, salted and fish in brine.

Source : Primary Production Department
Trade Development Board
with effect from April 1987

6 MAN

6 MANUFACTURING

6 MANUFACTURING

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 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 of All Economic Activities, 1989 edition which is adapted from the International Standard Industrial Classification of All Economic Activities of the United Nations.

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

Definitions

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

Workers : They refer to all persons engaged directly or indirectly in the industrial activity of the establishment, that is, all employees, working proprietors, and unpaid family workers. Data generally refer to employment as at 30 June, except where establishments commence operation after June.

Employees : They refer to (i) all workmen employed directly in the process of production and (ii) other workers who are paid personnel employed indirectly in the production process and include working directors, managers, supervisors, and technical and clerical staff.

Working Proprietors and Unpaid Family Workers : This group refers to proprietors and business partners actively engaged in the operation of the establishment and their relatives working in the establishment without regular remuneration.

Remuneration : It refers to the amount expended for the whole year. For employees, total remuneration comprises salaries (include 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.

Input : Value of input covers cost of materials, electricity, water, fuel (excluding fuel for vehicles) and inward transport charges.

Output : Value of output refers to the total value of commodities produced and services rendered at ex-factory prices.

Census Value Added : Census value added is the value of output less that of total inputs (including the value of work given out).

Index of Production

The Quarterly Index of Production of manufacturing establishments was rebased to 1989 = 100, using the 1988 value added weighting pattern. The Laspeyres' formula is used for the compilation of the index, ie. the index is calculated as base-weighted arithmetic averages based on the quantities of products.

The Quarterly Index of Production covers all manufacturing activities classified under Division 3 of the Singapore Standard Industrial Classification. Rubber processing, granite quarrying and production undertaken by government departments and statutory boards are not covered by the index. The Annual Index of Production is the average of the four quarterly indices.

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.

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

6.1 PRINCIPAL MANUFACTURING STATISTICS, 1981 -1991

Year	Establishments	Workers	Input	Output	Census Value Added	Employees' Remuneration	Capital Expenditure	Direct Exports
	Number		Million Dollars					
1981	3,471	284,509	26,836.0	37,694.0	9,866.9	2,971.7	2,012.7	22,893.6
1982	3,617	277,803	26,572.9	37,141.1	9,505.8	3,302.5	2,253.6	22,227.3
1983	3,643	273,228	26,815.2	37,888.3	10,012.4	3,604.6	2,132.4	22,921.6
1984	3,675	276,225	29,224.2	41,704.1	11,268.9	4,073.6	2,191.3	25,331.6
1985	3,529	254,802	26,871.0	38,817.8	10,812.8	4,075.9	1,982.6	24,389.7
1986	3,472	247,732	24,327.4	37,502.9	11,978.3	3,784.6	1,747.6	24,476.9
1987	3,535	277,031	30,287.6	46,337.7	14,539.6	4,189.9	2,739.4	30,500.8
1988	3,643	325,235	35,518.6	56,804.5	17,986.2	5,068.4	3,551.0	37,999.2
1989	3,678	338,043	41,693.9	63,924.1	19,746.2	5,974.6	4,518.1	42,545.9
1990	3,716	352,067	46,960.9	71,578.5	21,694.3	6,861.9	4,190.3	47,099.9
1991 ^P	3,876	357,850	48,609.7	75,043.6	23,252.9	7,531.2	na	49,180.2

Notes : Figures refer to establishments engaging 10 or more workers.
Data include rubber processing and granite quarrying.

Source : Economic Development Board
with effect from April 1987

6.2 SELECTED AVERAGES AND RATIOS IN THE MANUFACTURING SECTOR, 1981-1991

Year	Census Value Added Per Worker	Output Per Worker	Census Value Added to Output	Remuneration to Census Value Added	Remuneration to Output	Direct Exports to Total Sales	Direct Exports to Output
	Dollars		Per Cent				
1981	34,681	132,488	26.2	30.1	7.9	61.1	60.7
1982	34,218	133,696	25.6	34.7	8.9	59.9	59.8
1983	36,645	138,669	26.4	36.5	9.7	60.2	60.5
1984	40,796	150,979	27.0	36.1	9.8	61.0	60.7
1985	42,436	152,345	27.9	37.7	10.5	63.0	62.8
1986	48,352	151,385	31.9	31.6	10.1	64.7	65.3
1987	52,483	167,265	31.4	28.8	9.0	65.9	65.8
1988	55,302	174,657	31.7	28.2	8.9	67.1	66.9
1989	58,413	189,100	30.9	30.3	9.3	66.9	66.6
1990	61,620	203,309	30.3	31.6	9.6	65.5	65.8
1991 ^P	64,979	209,707	31.0	32.4	10.0	65.3	65.5

Note : See notes to Table 6.1.

Source : Economic Development Board
with effect from April 1987

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Number

Industrial Code	Industry	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^p
311/2	Food	274	282	288	300	284	287	283	272	263	265	273
313	Beverage	16	16	16	14	14	15	15	14	14	14	14
314	Tobacco Products	6	6	6	4	4	4	4	4	4	5	5
321	Textiles & Textile Manufactures	91	92	86	79	64	65	63	67	67	65	68
322	Wearing Apparel except Footwear	373	406	391	387	370	370	373	370	372	370	377
323	Leather & Leather Products	41	43	37	38	28	26	24	21	19	17	18
324	Footwear	57	53	51	58	50	50	51	39	35	32	32
331	Sawn Timber & Other Wood Products except Furniture	131	119	111	103	108	100	94	89	91	82	84
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	118	125	125	142	145	156	148	154	153	141	146
341	Paper & Paper Products	96	94	90	88	83	80	81	88	89	92	93
342	Printing & Publishing	291	312	313	317	297	311	315	308	324	327	349
351	Industrial Chemicals & Gases	45	49	52	57	57	59	62	65	73	77	83
352	Paints, Pharmaceuticals & Other Chemical Products	88	85	86	90	89	88	86	88	88	93	95
353/4	Petroleum Refineries & Petroleum Products	11	11	11	12	12	11	11	11	11	15	15
355	Processing of Jelutong & Gum Damar	5	6	7	7	7	7	7	5	5	4	4
356	Rubber Products except Footwear & Toys	30	28	29	31	24	22	26	25	24	26	26
357	Plastic Products	217	228	229	237	229	217	239	279	278	285	294
361/2	Pottery, China, Earthenware & Glass Products	12	10	10	13	12	10	8	8	9	8	9
363	Structural Clay Products	9	11	11	11	10	9	8	8	8	7	7
364	Cement	5	5	5	5	6	6	6	5	5	5	5

6.3 MANUFACTURING ESTABLISHMENTS BY INDUSTRY, 1981 -1991 (continued)

													Number
Industrial Code	Industry	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P	
365	Structural Cement & Concrete Products	38	40	49	52	52	51	45	36	32	31	32	
369	Non-metallic Mineral Products	25	22	25	27	29	29	25	24	23	22	23	
371	Iron & Steel	18	17	16	16	16	14	12	10	11	14	15	
372	Non-ferrous Metals	11	14	16	17	16	15	18	19	19	21	21	
381	Fabricated Metal Products except Machinery & Equipment	382	419	432	444	444	425	434	454	463	479	504	
382	Machinery except Electrical & Electronic	304	314	344	348	355	355	372	378	385	406	426	
383	Electrical Machinery, Apparatus, Appliances & Supplies	123	122	123	123	125	112	115	133	129	132	142	
384	Electronic Products & Components	158	153	166	172	167	161	202	225	233	240	253	
385	Transport Equipment	263	293	286	250	217	197	183	218	225	217	237	
386	Instrumentation Equipment, Photographic & Optical Goods	54	49	46	46	41	40	45	47	49	57	60	
390	Other Manufacturing Industries	147	162	159	160	149	157	159	160	159	154	154	
	Total Manufacturing excluding Rubber Processing	3,439	3,586	3,616	3,648	3,504	3,449	3,514	3,624	3,660	3,703	3,864	
	Rubber Processing	12	11	10	8	7	7	5	5	5	4	3	
	Total Manufacturing including Rubber Processing	3,451	3,597	3,626	3,656	3,511	3,456	3,519	3,629	3,665	3,707	3,867	
	Granite Quarrying	20	20	17	19	18	16	16	14	13	9	9	
	Total	3,471	3,617	3,643	3,675	3,529	3,472	3,535	3,643	3,678	3,716	3,876	

Notes : Figures refer to establishments engaging 10 or more workers.
Data have been classified according to Singapore Standard Industrial Classification 1990.

Source : Economic Development Board
with effect from April 1987

6.4 MANUFACTURING OUTPUT BY INDUSTRY, 1981 -1991

Million Dollars

Industrial Code	Industry	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^p
311/2	Food	1,688.8	1,801.1	1,931.3	2,236.7	2,309.1	2,198.0	1,872.3	2,111.8	2,228.6	2,044.1	2,163.4
313	Beverage	326.0	317.1	318.1	309.5	319.5	365.3	408.8	464.7	537.7	510.6	499.8
314	Tobacco Products	193.6	219.3	206.6	184.5	188.4	176.1	172.8	188.4	220.3	287.6	334.8
321	Textiles & Textile Manufactures	413.9	316.4	269.3	248.2	197.8	239.2	317.1	360.6	395.5	394.6	419.1
322	Wearing Apparel except Footwear	922.9	929.0	938.9	1,084.9	1,035.4	1,241.3	1,562.3	1,694.3	1,790.4	1,729.8	1,725.0
323	Leather & Leather Products	51.5	47.3	41.2	40.1	35.9	34.3	38.0	58.2	62.3	54.8	46.6
324	Footwear	54.9	45.3	44.2	48.1	35.5	37.9	42.5	45.1	49.4	50.4	55.8
331	Sawn Timber & Other Wood Products except Furniture	640.5	532.1	473.5	398.5	338.0	293.4	321.0	390.6	396.7	350.1	301.9
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	281.9	264.6	278.4	350.9	359.9	353.2	374.2	464.7	488.1	516.3	564.0
341	Paper & Paper Products	321.1	345.6	357.1	396.8	408.3	439.2	591.2	701.2	760.1	816.3	879.0
342	Printing & Publishing	659.6	708.4	812.4	913.8	895.7	952.2	1,119.1	1,334.0	1,551.6	1,742.9	1,922.0
351	Industrial Chemicals & Gases	372.1	424.1	522.8	1,239.9	1,690.7	1,724.2	2,387.2	3,259.3	3,067.9	3,150.0	3,274.4
352	Paints, Pharmaceuticals & Other Chemical Products	670.2	675.4	764.8	940.2	891.1	1,094.0	1,275.6	1,429.2	1,592.9	1,771.9	2,276.8
353/4	Petroleum Refineries & Petroleum Products	14,453.8	14,641.2	13,163.6	12,448.8	11,031.3	6,990.3	7,491.1	7,663.1	8,765.1	11,364.5	11,255.0
355	Processing of Jelutong & Gum Damar	28.2	25.9	25.2	21.2	20.6	19.2	18.9	19.1	25.6	23.0	23.0
356	Rubber Products except Footwear & Toys	76.3	74.4	76.7	83.5	70.1	71.8	95.6	120.0	136.9	123.7	138.4
357	Plastic Products	541.9	530.6	580.0	670.4	612.4	611.3	843.5	1,234.3	1,349.6	1,428.6	1,649.1
361/2	Pottery, China, Earthenware & Glass Products	81.9	72.8	94.3	80.7	29.5	15.6	10.7	13.6	108.2	145.5	155.8
363	Structural Clay Products	34.9	43.3	58.9	67.4	46.8	29.5	33.9	30.5	31.1	30.5	41.6
364	Cement	347.2	405.7	441.4	281.3	164.7	152.6	121.5	128.6	175.0	232.8	318.2

6.4 MANUFACTURING OUTPUT BY INDUSTRY, 1981 -1991 (continued)

Million Dollars

Industrial Code	Industry	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
365	Structural Cement & Concrete Products	263.9	379.1	600.9	657.2	585.8	487.4	372.6	341.1	376.1	473.1	603.5
369	Non-metallic Mineral Products	146.6	131.4	137.2	113.8	98.2	98.4	110.7	136.2	138.7	126.1	128.8
371	Iron & Steel	345.7	359.5	335.7	336.2	340.2	376.3	382.6	427.6	525.9	581.9	528.0
372	Non-ferrous Metals	126.2	148.2	142.3	197.3	224.8	245.6	167.2	205.4	184.9	216.0	220.6
381	Fabricated Metal Products except Machinery & Equipment	1,528.8	1,732.6	1,897.8	2,032.7	1,832.9	1,936.5	2,381.7	3,110.6	3,547.5	3,804.5	3,985.2
382	Machinery except Electrical & Electronic	2,394.7	2,259.7	1,972.2	1,831.0	1,768.9	1,652.3	1,960.3	2,481.1	3,056.3	3,380.7	3,803.0
383	Electrical Machinery, Apparatus, Appliances & Supplies	1,078.7	1,017.6	1,224.3	1,482.5	1,337.2	1,458.5	1,843.0	2,182.5	2,517.2	2,433.9	2,659.1
384	Electronic Products & Components	5,679.0	5,195.4	6,891.0	9,569.5	9,014.0	11,214.5	16,409.6	21,590.3	24,692.3	27,878.1	28,272.6
385	Transport Equipment ¹	2,232.5	2,074.8	1,867.8	1,956.0	1,789.0	1,803.3	2,093.3	2,717.8	3,165.4	3,790.9	4,013.0
386	Instrumentation Equipment, Photographic & Optical Goods	295.7	288.1	269.4	300.1	329.0	375.3	456.7	576.5	671.8	783.0	865.8
390	Other Manufacturing Industries	534.1	461.4	484.1	556.1	494.3	571.8	809.1	989.5	1,017.5	1,097.1	1,124.5
	Total Manufacturing excluding Rubber Processing	36,787.1	36,467.4	37,221.5	41,077.9	38,495.1	37,258.7	46,084.0	56,470.0	63,626.3	71,333.2	74,747.9
	Rubber Processing	772.6	494.2	428.7	402.4	160.0	126.8	155.8	243.7	205.0	124.7	122.1
	Total Manufacturing including Rubber Processing	37,559.7	36,961.6	37,650.2	41,480.2	38,655.1	37,385.5	46,239.8	56,713.7	63,831.3	71,457.9	74,870.0
	Granite Quarrying	134.3	179.5	238.1	223.8	162.7	117.4	97.9	90.8	92.9	120.6	173.6
	Total	37,694.0	37,141.1	37,888.3	41,704.1	38,817.8	37,502.9	46,337.7	56,804.5	63,924.1	71,578.5	75,043.6

Note : See notes to Table 6.3.

Source : Economic Development Board
with effect from April 1987

¹ Transport Equipment: Output and value added growths in 1989 were smaller compared to 1988 because of revaluation of production of a company in its 1989 accounting system.

6.5 CENSUS VALUE ADDED OF MANUFACTURING ESTABLISHMENTS BY INDUSTRY, 1981 -1991

Million Dollars

Industrial Code	Industry	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^p
311/2	Food	353.9	323.7	351.5	377.9	395.3	405.7	451.6	527.1	567.5	583.4	624.6
313	Beverage	139.9	140.8	147.9	152.1	166.9	190.4	205.7	243.0	247.4	251.7	245.1
314	Tobacco Products	68.2	91.0	89.4	79.4	77.7	78.4	87.0	88.7	97.6	116.1	136.1
321	Textiles & Textile Manufactures	132.7	103.6	92.2	81.0	64.3	77.7	101.2	113.6	122.4	129.8	137.6
322	Wearing Apparel except Footwear	307.9	326.0	333.0	364.5	345.7	361.9	464.8	534.6	544.5	532.8	491.7
323	Leather & Leather Products	13.9	14.0	12.7	13.6	11.4	10.6	12.0	17.2	22.7	19.8	16.9
324	Footwear	19.0	17.0	18.1	19.4	12.6	12.0	13.1	12.3	14.4	16.4	18.2
331	Sawn Timber & Other Wood Products except Furniture	175.3	136.4	140.9	115.8	94.5	82.3	81.9	101.9	112.9	98.8	84.2
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	103.3	103.4	108.6	129.9	132.9	131.0	133.1	154.4	164.2	161.9	172.0
341	Paper & Paper Products	106.4	126.0	149.2	166.9	180.1	191.1	239.6	269.3	293.2	343.0	368.6
342	Printing & Publishing	337.4	374.1	452.1	522.9	511.4	531.4	603.8	697.9	788.6	932.5	1,028.0
351	Industrial Chemicals & Gases	120.3	159.5	191.6	310.3	358.4	574.1	915.0	1,376.5	1,184.2	1,058.2	1,078.1
352	Paints, Pharmaceuticals & Other Chemical Products	343.3	344.8	451.5	592.4	536.1	700.3	815.1	877.6	952.1	1,088.1	1,457.5
353/4	Petroleum Refineries & Petroleum Products	1,707.2	1,617.7	1,382.6	955.6	873.7	779.9	728.2	993.5	1,248.4	1,662.3	1,988.0
355	Processing of Jelutong & Gum Damar	3.7	3.1	3.8	3.8	3.6	3.7	3.6	3.5	3.5	3.3	3.3
356	Rubber Products except Footwear & Toys	34.2	35.6	36.1	40.3	34.8	37.0	45.2	54.2	63.4	59.6	64.5
357	Plastic Products	192.8	189.4	209.9	243.6	231.0	232.4	297.3	409.2	476.5	538.9	622.8
361/2	Pottery, China, Earthenware & Glass Products	33.8	24.8	33.9	35.0	10.9	6.1	5.8	6.4	22.3	60.7	65.5
363	Structural Clay Products	20.9	21.3	29.5	36.6	25.0	19.0	21.4	18.2	17.7	16.0	21.9
364	Cement	78.5	88.5	105.4	46.1	34.1	34.5	27.8	30.8	51.0	70.2	93.9

6.5 CENSUS VALUE ADDED OF MANUFACTURING ESTABLISHMENTS BY INDUSTRY, 1981 -1991 (continued)

Million Dollars

Industrial Code	Industry	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^p
365	Structural Cement & Concrete Products	78.1	118.2	192.1	235.0	213.6	150.7	110.4	93.8	105.9	123.9	158.2
369	Non-metallic Mineral Products	65.1	60.2	56.4	45.8	35.4	39.9	51.3	62.7	56.3	59.2	60.6
371	Iron & Steel	139.8	137.6	124.7	123.7	108.1	119.2	139.9	167.5	188.5	175.9	163.3
372	Non-ferrous Metals	22.1	20.9	26.3	35.1	30.3	29.9	41.4	53.9	57.2	73.6	75.1
381	Fabricated Metal Products except Machinery & Equipment	551.6	666.3	706.4	761.9	681.2	720.4	859.5	1,081.6	1,229.0	1,323.8	1,382.1
382	Machinery except Electrical & Electronic	1,087.8	976.3	819.8	821.3	788.7	739.1	731.6	962.2	1,142.8	1,267.6	1,413.9
383	Electrical Machinery, Apparatus, Appliances & Supplies	404.4	404.0	464.5	573.4	519.8	545.1	663.7	784.1	893.8	879.8	973.2
384	Electronic Products & Components	1,627.2	1,465.6	1,890.9	2,894.7	2,838.8	3,676.9	5,011.7	6,278.5	6,979.8	7,716.6	7,813.4
385	Transport Equipment ¹	1,188.4	1,007.3	933.0	1,011.1	1,034.4	1,011.8	1,106.8	1,323.8	1,422.1	1,613.7	1,705.6
386	Instrumentation Equipment, Photographic & Optical Goods	112.6	120.6	120.3	163.7	196.0	227.1	261.4	316.0	340.2	363.4	394.4
390	Other Manufacturing Industries	150.8	138.2	148.0	153.3	155.5	180.4	240.0	264.3	265.3	265.6	272.2
	Total Manufacturing excluding Rubber Processing	9,720.5	9,355.9	9,822.1	11,106.3	10,702.3	11,900.0	14,470.8	17,918.2	19,675.7	21,606.8	23,130.6
	Rubber Processing	37.0	27.5	33.5	16.2	7.3	8.0	9.9	14.1	14.4	8.5	8.3
	Total Manufacturing including Rubber Processing	9,757.5	9,383.4	9,855.6	11,122.4	10,709.6	11,908.0	14,480.7	17,932.3	19,690.1	21,615.3	23,138.8
	Granite Quarrying	109.4	122.3	156.9	146.4	103.2	70.3	58.8	53.9	56.1	79.0	114.1
	Total	9,866.9	9,505.8	10,012.4	11,268.9	10,812.8	11,978.3	14,539.6	17,986.2	19,746.2	21,694.3	23,252.9

Note : See notes to Table 6.3 and Table 6.4.

Source : Economic Development Board
with effect from April 1987

6.6 WORKERS IN MANUFACTURING BY INDUSTRY, 1981-1991

Number

Industrial Code	Industry	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
311/2	Food	10,065	10,181	10,290	10,264	9,718	9,606	10,163	10,408	10,391	10,615	10,725
313	Beverage	2,732	2,594	2,494	2,398	2,273	2,264	2,258	2,304	2,406	2,439	2,395
314	Tobacco Products	976	882	865	809	753	752	709	564	583	731	857
321	Textiles & Textile Manufactures	7,797	6,238	4,542	3,903	2,814	2,662	2,918	3,324	3,355	3,406	3,395
322	Wearing Apparel except Footwear	27,829	28,608	27,234	25,710	24,782	24,812	27,718	29,402	29,105	27,694	26,183
323	Leather & Leather Products	1,227	1,152	971	950	646	577	598	686	717	677	670
324	Footwear	1,428	1,408	1,248	1,249	889	922	946	832	725	781	859
331	Sawn Timber & Other Wood Products except Furniture	8,268	7,188	6,081	4,930	4,100	3,274	3,022	3,173	3,002	2,574	2,394
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	6,588	6,743	6,737	7,466	7,045	7,404	7,457	7,719	7,143	6,521	6,651
341	Paper & Paper Products	4,552	4,526	3,860	3,675	3,462	3,315	3,590	4,093	4,341	4,604	4,553
342	Printing & Publishing	12,138	13,046	13,308	13,820	12,948	12,886	13,023	14,202	15,299	15,805	16,554
351	Industrial Chemicals & Gases	2,083	2,338	2,382	3,315	3,279	3,180	3,311	3,716	4,326	4,750	4,961
352	Paints, Pharmaceuticals & Other Chemical Products	4,336	4,485	4,531	4,520	4,485	4,264	4,394	4,591	4,685	5,168	5,212
353/4	Petroleum Refineries & Petroleum Products	3,511	3,784	3,755	3,605	3,494	3,367	3,245	3,125	3,113	3,291	3,326
355	Processing of Jelutong & Gum Damar	157	160	173	145	126	143	139	90	93	74	74
356	Rubber Products except Footwear & Toys	1,359	1,287	1,283	1,307	1,055	1,015	1,171	1,419	1,433	1,537	1,559
357	Plastic Products	9,672	9,527	9,340	9,160	8,706	8,109	9,977	12,214	12,967	13,881	15,804
361/2	Pottery, China, Earthenware & Glass Products	951	820	993	1,010	347	233	144	163	853	798	883
363	Structural Clay Products	461	688	679	641	549	436	383	361	358	305	322
364	Cement	474	538	579	552	547	424	408	366	380	416	417

6.6 WORKERS IN MANUFACTURING BY INDUSTRY, 1981 -1991 (continued)

		Number										
Industrial Code	Industry	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
365	Structural Cement & Concrete Products	1,730	2,135	3,697	4,559	4,367	4,367	2,777	2,206	2,213	2,160	2,189
369	Non-metallic Mineral Products	1,443	1,488	1,600	1,418	1,384	1,387	1,470	1,820	1,764	1,475	1,447
371	Iron & Steel	1,972	1,777	1,701	1,667	1,564	1,349	1,329	1,516	1,615	1,730	1,760
372	Non-ferrous Metals	384	481	441	504	490	454	616	670	737	815	867
381	Fabricated Metal Products except Machinery & Equipment	19,981	21,723	21,313	20,923	20,061	18,900	21,365	26,004	27,085	28,440	28,685
382	Machinery except Electrical & Electronic	21,316	21,680	20,334	18,833	18,470	17,062	18,471	20,695	22,606	24,189	25,049
383	Electrical Machinery, Apparatus, Appliances & Supplies	16,958	15,128	16,347	17,348	16,892	16,241	18,836	22,064	22,366	21,989	23,199
384	Electronic Products & Components	69,367	60,760	65,837	73,022	65,617	68,772	84,910	111,559	116,080	122,797	123,516
385	Transport Equipment	28,568	30,750	26,845	24,759	21,748	17,062	17,442	20,257	22,396	26,133	27,024
386	Instrumentation Equipment, Photographic & Optical Goods	5,462	5,804	5,224	5,395	5,119	5,252	6,151	7,392	7,634	8,263	8,235
390	Other Manufacturing Industries	7,890	7,531	6,422	6,534	5,780	6,191	7,368	7,778	7,804	7,616	7,692
	Total Manufacturing excluding Rubber Processing	281,675	275,450	271,106	274,391	253,510	246,682	276,309	324,713	337,575	351,674	357,457
	Rubber Processing	1,826	1,303	980	689	516	425	216	197	187	169	169
	Total Manufacturing including Rubber Processing	283,501	276,753	272,086	275,080	254,026	247,107	276,525	324,910	337,762	351,843	357,626
	Granite Quarrying	1,008	1,050	1,142	1,145	776	625	506	325	281	224	224
	Total	284,509	277,803	273,228	276,225	254,802	247,732	277,031	325,235	338,043	352,067	357,850

Note : See notes to Table 6.3.

Source : Economic Development Board with effect from April 1987

6.7 REMUNERATION OF EMPLOYEES IN MANUFACTURING BY INDUSTRY, 1981 -1991

Million Dollars

Industrial Code	Industry	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^p
311/2	Food	103.0	114.1	128.8	147.6	156.5	146.5	151.2	164.5	183.6	203.9	217.6
313	Beverage	39.9	35.3	36.5	40.6	44.1	40.7	39.6	45.2	49.5	63.7	64.9
314	Tobacco Products	15.6	17.3	19.2	21.1	20.8	18.8	17.9	18.9	21.5	25.4	30.1
321	Textiles & Textile Manufactures	67.9	59.4	49.1	45.9	35.1	32.7	39.0	45.1	51.1	55.1	59.1
322	Wearing Apparel except Footwear	179.1	203.4	216.1	236.9	227.3	222.7	255.6	289.2	316.5	320.7	329.2
323	Leather & Leather Products	8.2	8.5	8.2	8.7	6.9	6.0	6.4	8.6	10.3	10.2	11.1
324	Footwear	10.1	10.7	10.3	11.3	7.4	6.6	6.9	7.1	8.1	8.9	10.4
331	Sawn Timber & Other Wood Products except Furniture	77.3	69.0	66.3	56.2	47.9	37.5	37.4	41.6	45.8	43.2	42.6
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	55.3	59.0	62.5	73.6	74.3	75.1	76.9	90.9	92.0	97.6	106.1
341	Paper & Paper Products	44.7	52.0	52.3	53.3	54.8	54.3	63.8	74.7	87.3	98.2	105.6
342	Printing & Publishing	138.8	169.6	193.3	231.4	233.7	234.7	243.5	285.8	345.0	375.6	426.4
351	Industrial Chemicals & Gases	33.8	43.0	46.9	89.5	100.3	91.4	99.2	117.1	150.3	195.2	207.7
352	Paints, Pharmaceuticals & Other Chemical Products	63.2	76.3	88.6	96.3	101.4	98.0	100.8	111.9	127.2	155.4	173.4
353/4	Petroleum Refineries & Petroleum Products	114.7	138.6	148.0	151.4	154.6	148.8	148.4	154.2	174.3	204.0	223.3
355	Processing of Jelutong & Gum Damar	1.5	1.6	1.9	1.9	1.9	1.7	1.5	1.4	1.5	1.5	1.5
356	Rubber Products except Footwear & Toys	13.3	14.7	17.0	19.6	17.3	16.0	19.9	23.7	26.4	30.5	32.5
357	Plastic Products	75.3	83.6	92.7	104.7	104.9	101.9	121.9	160.7	193.9	228.8	273.9
361/2	Pottery, China, Earthenware & Glass Products	12.6	12.8	16.3	17.8	5.9	3.1	1.9	2.2	12.7	18.2	20.8
363	Structural Clay Products	6.0	9.7	11.2	11.7	9.3	6.5	5.6	5.3	6.1	6.2	6.6
364	Cement	8.9	10.5	12.3	12.4	12.2	9.2	8.4	8.5	10.5	13.3	14.6

6.7 REMUNERATION OF EMPLOYEES IN MANUFACTURING BY INDUSTRY, 1981 -1991 (continued)

Million Dollars

Industrial Code	Industry	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^a
365	Structural Cement & Concrete Products	21.8	30.4	57.2	72.6	74.9	69.3	40.5	34.1	37.3	40.3	42.9
369	Non-metallic Mineral Products	19.9	21.1	24.3	20.4	21.3	21.2	21.6	26.0	27.8	27.4	27.7
371	Iron & Steel	30.7	33.1	36.9	39.6	39.6	33.7	33.1	37.1	44.9	48.7	53.4
372	Non-ferrous Metals	6.1	7.3	7.1	8.6	8.7	9.2	11.1	14.3	17.3	21.1	22.9
381	Fabricated Metal Products except Machinery & Equipment	209.6	261.0	279.4	304.7	316.4	289.4	334.6	409.9	487.8	559.4	614.1
382	Machinery except Electrical & Electronic	296.0	324.1	341.1	362.6	377.0	319.2	335.5	403.9	488.5	567.0	630.9
383	Electrical Machinery, Apparatus, Appliances & Supplies	161.5	179.2	203.9	244.9	251.9	221.0	245.9	303.7	340.2	367.4	418.1
384	Electronic Products & Components	579.4	618.9	750.1	936.6	959.6	975.9	1,188.4	1,559.5	1,836.0	2,159.8	2,356.1
385	Transport Equipment	435.3	487.7	467.6	478.9	445.6	336.8	351.4	417.0	541.4	628.7	701.8
386	Instrumentation Equipment, Photographic & Optical Goods	47.8	54.6	60.5	69.6	69.9	68.3	83.6	99.5	119.4	158.3	167.7
390	Other Manufacturing Industries	61.0	64.2	66.3	74.4	72.2	72.8	84.4	94.9	107.7	118.5	128.7
	Total Manufacturing excluding Rubber Processing	2,938.1	3,270.6	3,571.9	4,045.0	4,053.7	3,769.1	4,176.0	5,056.5	5,961.6	6,852.2	7,521.5
	Rubber Processing	18.3	16.1	15.0	9.3	7.9	4.7	4.5	4.1	5.9	3.5	3.3
	Total Manufacturing including Rubber Processing	2,956.4	3,286.8	3,586.9	4,054.3	4,061.6	3,773.8	4,180.5	5,060.7	5,967.5	6,855.7	7,524.8
	Granite Quarrying	15.3	15.7	17.7	19.3	14.3	10.8	9.4	7.7	7.1	6.2	6.5
	Total	2,971.7	3,302.5	3,604.6	4,073.6	4,075.9	3,784.6	4,189.9	5,068.4	5,974.6	6,861.9	7,531.2

Note : See notes to Table 6.3.

Source : Economic Development Board
with effect from April 1987

6.8 VALUE OF OUTPUT OF SELECTED MANUFACTURED PRODUCTS, 1980 -1990

Million Dollars

Commodity	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Soft Drinks	126.4	172.2	164.8	171.1	157.5	159.2	201.5	236.9	255.6	254.8	267.5
Fabrics	195.9	200.1	156.8	107.9	108.6	88.4	123.8	111.2	142.8	164.7	154.3
Newspapers	45.8	55.7	68.1	67.5	68.9	68.9	76.9	79.0	82.1	91.2	96.2
Paints	87.8	119.4	117.2	119.1	137.8	135.1	136.9	165.4	207.4	238.8	267.0
Pharmaceutical Products	258.4	269.6	283.1	370.0	504.3	475.7	691.1	811.2	871.8	972.0	1,032.0
Aviation Kerosene	2,590.3	3,001.2	2,961.7	2,645.6	2,686.5	2,030.2	1,377.0	1,565.5	1,717.8	1,670.1	2,290.2
Diesel Oil	2,990.0	4,202.1	4,295.6	3,510.4	2,937.2	2,918.6	1,565.7	2,110.1	2,264.9	2,638.9	3,970.1
Fuel Oil	2,544.8	3,413.8	3,509.6	3,201.5	3,584.9	2,872.3	1,666.7	1,586.9	1,472.2	1,805.0	1,905.8
Lubricating Oil	-	-	713.7	711.1	606.5	378.5	529.3	406.0	457.4	532.1	523.3
Motor Spirit	-	-	-	967.3	826.6	863.3	590.2	702.1	701.2	918.8	1,278.5
Naptha	986.6	1,338.2	1,302.5	1,155.7	1,085.4	904.6	514.8	527.9	490.4	562.8	717.3
Cement	277.1	347.2	405.7	441.4	280.0	164.4	151.8	120.8	127.5	173.4	231.3
Ready-mixed Concrete	87.9	186.1	281.3	361.3	359.9	305.2	257.9	215.5	195.5	238.6	316.9
Metal Stampings	84.1	118.3	83.8	105.4	146.1	115.8	168.6	231.6	328.4	405.9	530.1
Oil Rigs & Oilfield Equipment	806.7	1,437.5	1,341.1	938.3	706.9	609.1	490.5	467.2	480.2	583.0	780.1
Motors	106.1	122.2	81.2	108.0	136.7	153.1	180.5	264.3	345.6	426.6	388.1
Disk Drives	-	-	-	544.6	439.8	1,112.2	2,044.4	3,653.2	4,800.7	5,002.6	6,967.0
Telephones	-	-	-	-	-	-	203.6	474.2	764.6	714.6	587.9
Television Receivers	512.7	667.8	495.7	470.3	469.1	566.0	578.4	860.4	1,172.0	1,221.3	1,441.2
Radios (excluding Radio Cassette Recorders)	395.5	249.9	206.5	217.3	101.0	156.1	151.8	178.3	208.5	174.3	141.5
Cassette Recorders (with or without radio)	663.9	738.1	524.2	569.8	809.7	702.9	730.5	1,176.8	1,157.3	1,229.5	1,285.0
Capacitors	86.8	93.9	84.8	86.8	100.8	84.4	101.7	136.7	202.2	274.6	307.2
Shipbuilding & Repairing	1,547.6	1,727.8	1,502.7	1,237.5	1,240.3	923.1	913.0	1,047.4	1,549.9	2,030.4	2,405.4
Marine Engines & Parts	109.6	137.2	151.4	110.5	106.1	89.0	99.0	100.9	158.3	202.0	183.3
Jewellery	158.2	179.9	143.0	150.7	203.4	144.0	142.7	153.1	243.4	271.4	343.0
Toys	113.8	126.7	93.3	94.7	119.2	135.1	187.9	339.6	384.1	306.6	265.6

Source : Economic Development Board
with effect from April 1987

6.9 QUARTERLY INDEX OF INDUSTRIAL PRODUCTION, 1990 AND 1991
(1989 = 100)

Industrial Code	Major Industry Group	1990				1991			
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr ^P
	Total Manufacturing excluding Rubber Processing	99.8	108.9	114.4	116.4	110.6	115.7	118.7	118.2
311/2	Food	96.2	92.6	98.1	103.4	99.4	101.1	103.7	106.6
313	Beverage	106.7	120.9	109.9	95.3	108.4	106.8	119.1	102.6
314	Cigarettes & Other Tobacco Products	127.4	150.2	143.7	163.2	163.9	168.1	130.3	188.0
321	Textiles & Textile Manufactures	90.6	95.7	96.3	92.9	81.8	97.9	111.2	108.5
322	Wearing Apparel except Footwear	78.6	99.6	98.0	97.1	77.3	92.5	99.2	101.9
323	Leather & Leather Products	101.4	99.1	101.6	84.2	79.0	72.2	77.5	88.4
324	Footwear	109.6	106.4	101.6	102.9	88.1	102.5	158.8	130.8
331	Sawn Timber & Other Wood Products except Furniture	92.5	96.6	93.8	91.5	80.4	82.2	83.7	74.7
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	91.4	98.4	101.5	106.3	96.5	100.7	113.1	110.7
341	Paper & Paper Products	99.4	108.4	106.4	106.2	104.4	117.8	112.4	102.7
342	Printing & Publishing	95.4	107.2	117.2	120.8	105.7	116.8	126.6	128.5
351	Industrial Chemicals & Gases	112.4	108.7	117.5	116.4	112.7	114.6	117.9	117.9
352	Paints & Pharmaceutical & Other Chemical Products	111.0	126.7	118.1	166.2	161.3	173.0	175.3	173.5
353/4	Petroleum Refineries & Petroleum Products	110.1	114.9	110.1	118.5	121.6	107.0	118.6	121.7
356	Rubber Products except Footwear & Toys	78.5	84.7	93.6	98.8	97.5	95.6	102.7	108.6
357	Plastic Products	86.9	96.3	105.1	108.2	102.0	107.6	116.0	111.9
361/2	Pottery, China, Earthenware & Glass Products	79.8	127.2	140.9	110.8	131.4	89.9	124.0	157.5

6.9 QUARTERLY INDEX OF INDUSTRIAL PRODUCTION, 1990 AND 1991 (continued)
(00: (1989 = 100))

Industrial Code	Major Industry Group	1990				1991			
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr ^P
363	Bricks, Tiles & Other Structural Clay Products	100.0	101.9	89.8	99.3	84.8	111.8	132.6	139.6
364	Cement	105.9	103.0	111.0	114.4	112.7	128.0	153.6	160.3
365	Structural Cement & Concrete Products	107.1	122.2	111.6	121.3	117.7	130.0	147.5	148.0
369	Non-metallic Mineral Products	98.9	102.1	102.8	102.6	102.0	98.2	108.6	100.1
371	Iron & Steel	100.2	104.8	117.9	109.2	101.1	90.9	106.9	111.0
372	Non-ferrous Metals	93.4	116.6	138.7	112.5	122.4	121.7	117.9	115.2
381	Fabricated Metal Products except Machinery & Equipment	93.6	96.7	104.3	99.5	99.9	98.4	103.7	99.8
382	Machinery except Electrical & Electronic	96.1	102.6	114.0	119.0	106.5	124.1	125.5	128.4
383	Electrical Machinery, Apparatus, Appliances & Supplies	86.8	96.1	96.5	90.9	87.4	100.3	107.9	108.0
384	Electronic Products & Components	100.9	111.5	119.8	119.7	112.6	115.1	113.5	111.7
385	Transport Equipment	98.1	111.9	118.3	116.4	107.5	114.4	117.0	126.6
386	Instrumentation Equipment, Photographic & Optical Goods	107.4	117.1	127.7	109.4	138.7	153.7	164.1	158.5
390	Other Manufacturing Industries	85.5	105.9	134.5	99.7	75.9	112.1	136.3	96.5

Source: Economic Development Board

6.10 ANNUAL INDEX OF INDUSTRIAL PRODUCTION, 1986 -1991
(1989 = 100)

Industrial Code	Major Industry Group	1986	1987	1988	1989	1990	1991 ^P
	Total Manufacturing excluding Rubber Processing	65.3	76.7	90.8	100.0	109.9	115.7
311/2	Food	88.0	89.2	97.3	100.0	97.6	102.6
313	Beverage	76.9	91.8	102.8	100.0	108.2	109.3
314	Cigarettes & Other Tobacco Products	44.8	38.0	68.4	100.0	146.1	162.6
321	Textiles & Textile Manufactures	78.0	89.4	95.9	100.0	93.8	99.9
322	Wearing Apparel except Footwear	78.4	92.3	98.1	100.0	93.3	92.6
323	Leather & Leather Products	112.9	127.0	118.3	100.0	96.6	79.5
324	Footwear	77.8	92.3	110.3	100.0	105.1	120.1
331	Sawn Timber & Other Wood Products except Furniture	106.3	113.8	113.6	100.0	93.6	80.2
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	99.9	96.9	102.9	100.0	99.4	106.2
341	Paper & Paper Products	67.0	89.1	97.9	100.0	105.1	108.9
342	Printing & Publishing	74.5	81.5	90.2	100.0	110.2	119.1
351	Industrial Chemicals & Gases	74.1	88.0	94.1	100.0	113.8	115.8
352	Paints & Pharmaceutical & Other Chemical Products	80.7	81.5	84.3	100.0	130.5	170.0
353/4	Petroleum Refineries & Petroleum Products	90.4	84.0	88.0	100.0	113.4	117.2
356	Rubber Products except Footwear & Toys	98.8	103.4	100.0	100.0	88.9	100.8
357	Plastic Products	70.0	86.9	99.8	100.0	99.1	109.4
361/2	Pottery, China, Earthenware & Glass Products	92.2	98.2	107.2	100.0	114.7	125.7

6.10 ANNUAL INDEX OF INDUSTRIAL PRODUCTION, 1986 -1991 (continued)
(1989 = 100)

Industrial Code	Major Industry Group	1986	1987	1988	1989	1990	1991 P
363	Bricks, Tiles & Other Structural Clay Products	79.6	90.3	90.7	100.0	97.7	117.2
364	Cement	106.1	89.8	93.8	100.0	108.6	137.8
365	Structural Cement & Concrete Products	133.2	103.1	94.5	100.0	115.6	135.8
369	Non-metallic Mineral Products	43.3	61.3	66.2	100.0	101.6	102.2
371	Iron & Steel	88.1	91.7	97.3	100.0	108.0	101.6
372	Non-ferrous Metals	97.5	105.4	107.0	100.0	115.3	119.6
381	Fabricated Metal Products except Machinery & Equipment	71.5	81.8	96.2	100.0	98.5	100.5
382	Machinery except Electrical & Electronic	60.4	70.4	84.7	100.0	107.9	120.3
383	Electrical Machinery, Apparatus, Appliances & Supplies	55.7	73.6	88.0	100.0	92.5	101.0
384	Electronic Products & Components	53.9	71.0	90.9	100.0	113.0	113.4
385	Transport Equipment	63.1	68.1	82.2	100.0	111.2	116.1
386	Instrumentation Equipment, Photographic & Optical Goods	69.3	80.6	99.4	100.0	115.4	154.1
390	Other Manufacturing Industries	81.5	133.4	142.0	100.0	106.4	102.6

Source : Economic Development Board
with effect from April 1987

6.11 NET INVESTMENT COMMITMENTS IN MANUFACTURING BY INDUSTRY, 1981-1991

Million Dollars

Industry	1981	1982	1983 ¹	1984	1985	1986	1987	1988	1989	1990	1991
Total	1,863.0	1,704.5	1,775.8	1,828.4	1,120.4	1,450.0	1,743.0	2,007.4	1,958.7	2,487.4	2,934.0
Food & Beverages	90.7	101.5	185.9	154.4	55.5	83.3	156.6	168.4	34.1	43.8	39.8
Textiles	18.1	8.9	7.3	0.3	3.2	5.6	3.0	10.6	2.0	2.8	11.2
Wearing Apparel	8.3	10.4	2.8	6.7	0.7	-	6.8	0.9	0.4	0.2	5.7
Leather & Rubber	3.6	5.3	22.9	8.1	4.9	0.4	8.5	5.6	-	10.0	4.4
Wood Products	16.8	8.8	8.0	15.8	21.3	11.4	14.7	-	2.1	8.6	2.8
Paper Products & Printing	161.8	109.2	22.1	111.3	32.3	36.2	25.1	72.0	93.8	76.2	109.4
Industrial Chemicals	63.8	16.9	52.1	8.1	34.5	78.0	32.9	124.7	213.5	265.9	322.0
Other Chemical Products	95.7	47.4	106.2	30.7	18.2	111.5	11.0	25.7	21.7	35.0	243.4
Petroleum	162.0	387.7	367.1	358.8	190.0	116.0	122.4	-	290.0	381.0	99.5
Plastic Products	41.9	47.5	27.7	33.4	19.4	42.6	115.9	53.5	37.8	8.9	87.2
Non-metallic Mineral Products	55.6	40.5	136.0	24.6	88.4	9.3	6.2	133.8	-	9.0	47.9
Basic Metals	16.3	53.5	36.8	18.1	2.9	8.3	5.2	15.3	86.6	-	2.8
Fabricated Metal Products	96.1	121.0	167.4	71.5	39.5	82.0	104.3	109.9	101.0	103.1	127.1
Machinery except Electrical	300.9	162.2	84.5	225.9	125.0	205.6	93.5	180.5	131.0	186.2	376.5
Electrical Machinery & Appliances	5.7	92.0	57.9	30.1	76.0	130.8	128.1	97.3	77.7	98.5	17.0
Electronic Products & Components	401.1	229.8	293.8	625.8	300.1	391.1	710.3	838.3	699.2	1,098.6	1,243.4
Transport Equipment	273.3	162.5	92.7	72.5	88.3	64.0	61.7	110.4	50.8	114.1	124.3
Precision Equipment	24.3	66.6	65.8	17.0	2.0	53.8	116.6	44.0	93.0	21.1	34.0
Other Products	0.2	5.5	-	1.6	3.5	-	11.8	0.7	14.3	-	35.7
Servicing/Engineering	26.8	27.8	38.9	13.8	14.8	19.9	8.4	15.9	9.8	24.3	-

Note : Net investment commitments refer to gross commitments less projects withdrawn or uncertain as at 31 December 1991.

Source : Economic Development Board

1. Exclude Petrochemicals.

6.12 NET INVESTMENT COMMITMENTS IN MANUFACTURING BY COUNTRY OF ORIGIN, 1981-1991

Million Dollars

Country	1981	1982	1983 ¹	1984	1985	1986	1987	1988	1989	1990	1991
Total	1,863.0	1,704.5	1,775.8	1,828.4	1,120.4	1,450.0	1,743.0	2,007.4	1,958.7	2,487.4	2,934.0
Local	641.6	542.0	506.0	493.7	232.4	259.4	295.0	349.6	333.3	269.5	472.9
Foreign	1,221.4	1,162.5	1,269.8	1,334.7	888.0	1,190.6	1,448.0	1,657.8	1,625.4	2,217.9	2,461.1
United States	674.4	533.0	571.7	805.9	427.3	443.4	543.5	586.6	520.2	1,054.8	969.2
Japan	212.1	73.7	166.6	166.6	244.1	493.8	601.1	691.3	541.2	708.2	713.2
Europe	228.7	421.8	394.1	325.1	201.0	218.8	285.8	358.1	544.2	435.3	684.2
European Community (EC)	166.3	386.9	338.8	318.9	180.9	204.8	241.0	345.1	525.4	395.5	615.9
United Kingdom	83.1	283.1	207.5	186.6	69.4	93.4	42.4	56.6	174.6	89.9	186.5
Netherlands	1.2	62.8	99.2	70.3	75.2	57.1	70.9	82.9	174.0	72.6	216.2
Germany	11.5	31.4	12.8	14.3	20.1	16.7	90.3	46.7	26.4	165.7	60.2
France	1.7	1.3	6.8	-	15.1	27.8	15.2	86.0	106.0	60.4	75.2
Italy	62.5	2.4	5.1	44.8	-	5.1	22.0	68.0	32.8	-	70.1
Other EC Countries	6.3	5.9	7.4	2.9	1.1	4.7	0.2	4.9	11.6	6.9	7.7
Switzerland	17.0	22.0	15.4	2.7	4.7	7.7	27.8	10.1	0.9	32.7	12.6
Other European Countries	7.2	1.8	27.4	3.3	0.5	0.9	8.3	2.9	18.0	-	54.5
Others	106.2	133.9	137.4	37.1	15.6	34.6	17.6	21.7	19.8	19.6	94.5

1 Exclude Petrochemicals.

Source : Economic Development Board

6.13 • PRINCIPAL STATISTICS OF PIONEER MANUFACTURING ESTABLISHMENTS, 1980 -1990

End of Year	Establishments	Workers	Input	Output	Census Value Added	Employees' Remuneration	Paid-up Capital	Gross Fixed Assets	Direct Exports
	Number		Million Dollars						
1980	383	118,837	14,409	19,242	4,733	1,071	1,756	6,252	14,054
1981	403	112,765	15,272	20,484	5,090	1,170	1,873	7,114	14,777
1982	412	105,480	14,894	19,888	4,847	1,333	2,112	8,275	13,992
1983	442	112,510	15,104	20,683	5,379	1,560	2,540	9,124	14,824
1984	448	121,269	17,597	24,237	6,361	1,855	2,805	10,233	17,736
1985	448	115,079	16,782	23,539	6,499	1,983	3,964	12,420	17,708
1986	430	115,852	14,766	22,867	7,819	1,903	4,248	13,112	17,835
1987	430	131,791	19,432	29,426	9,647	2,124	4,506	14,413	23,027
1988	423	157,433	22,771	35,117	11,765	2,534	5,198	16,536	27,824
1989	398	158,084	25,179	37,764	12,032	2,842	6,342	18,151	30,023
1990	414	165,779	27,433	41,129	12,932	3,287	6,181	19,103	33,297

Source : Economic Development Board
with effect from April 1987

6.14 PRINCIPAL STATISTICS OF PIONEER MANUFACTURING ESTABLISHMENTS BY INDUSTRY GROUP, DECEMBER 1990

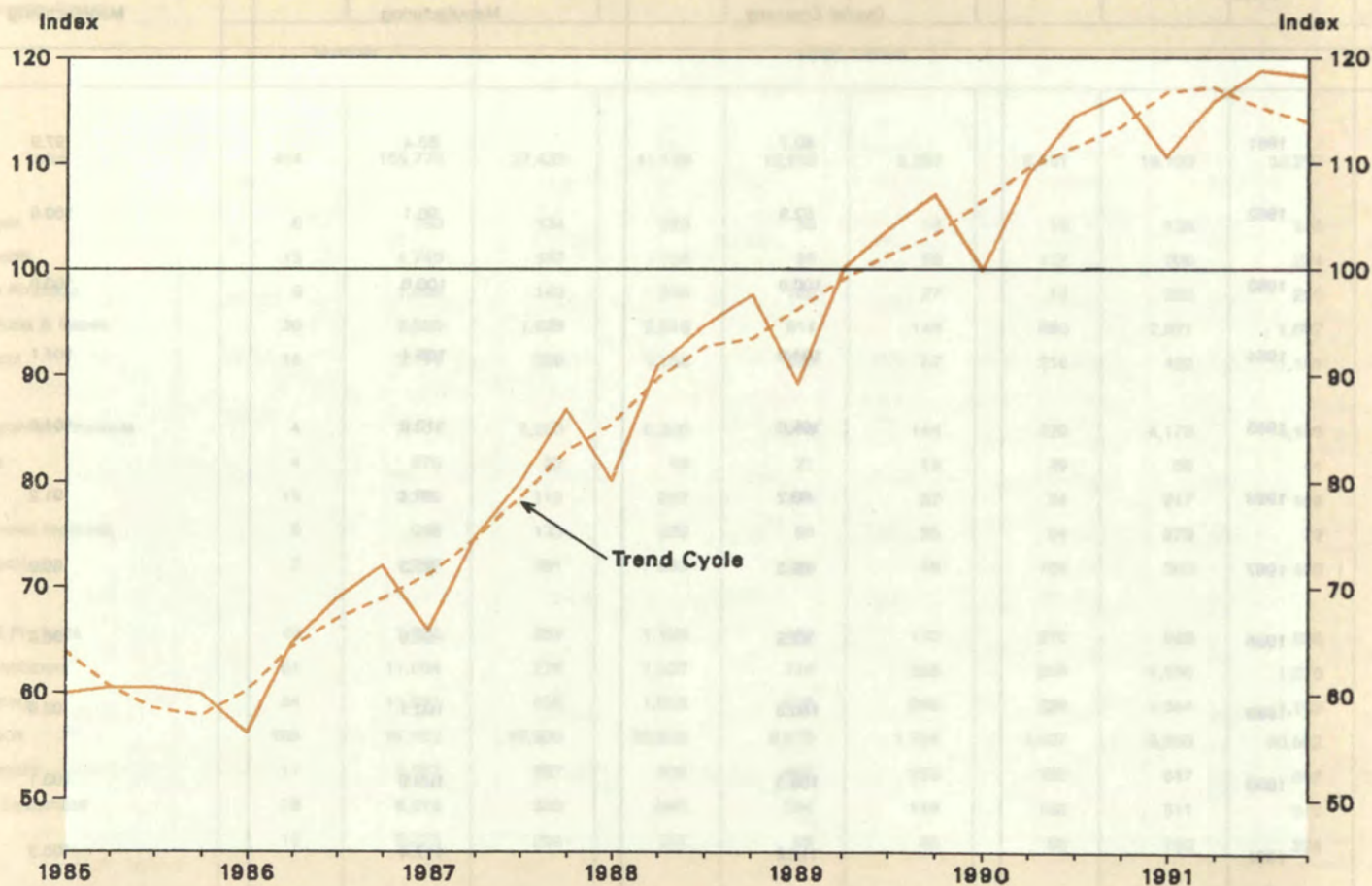
Industry Group	Estab- lishments	Workers	Input	Output	Census Value Added	Employees' Remunera- tion	Paid-up Capital	Gross Fixed Assets	Direct Exports	Value Added Per Worker
	Number		Million Dollars							\$'000
Total	414	165,779	27,433	41,129	12,932	3,287	6,181	19,103	33,297	78
Food & Beverages	6	790	134	223	88	17	52	138	126	112
Textiles & Garments	15	4,740	137	256	96	59	137	209	234	20
Printing & Paper Products	6	1,008	142	330	182	27	14	228	255	180
Industrial Chemicals & Gases	30	2,989	1,689	2,616	914	140	986	2,621	1,697	306
Chemical Products	16	2,174	296	1,156	859	67	218	492	1,151	395
Petroleum & Petroleum Products	4	2,104	5,253	6,320	1,060	144	320	4,173	4,109	504
Rubber Products	4	670	22	49	27	15	30	66	41	40
Plastic Products	15	2,180	118	267	118	37	34	217	108	54
Non-metallic Mineral Products	6	998	133	236	93	25	94	279	72	93
Basic Metal Industries	7	1,597	391	583	183	48	104	360	180	115
Fabricated Metal Products	49	7,663	634	1,128	460	170	270	849	628	60
Non-electrical Machinery	61	11,004	776	1,527	714	256	289	1,156	1,210	65
Electrical Machinery	34	15,615	859	1,516	610	248	228	1,044	1,163	39
Electronic Products	105	97,922	15,928	22,955	6,678	1,724	3,037	5,950	20,532	68
Transport Equipment	17	5,787	357	964	461	155	185	647	857	80
Instrumentation Equipment	29	6,213	330	645	294	119	103	511	610	47
Miscellaneous	10	2,325	234	357	95	35	80	163	324	41

Source : Economic Development Board

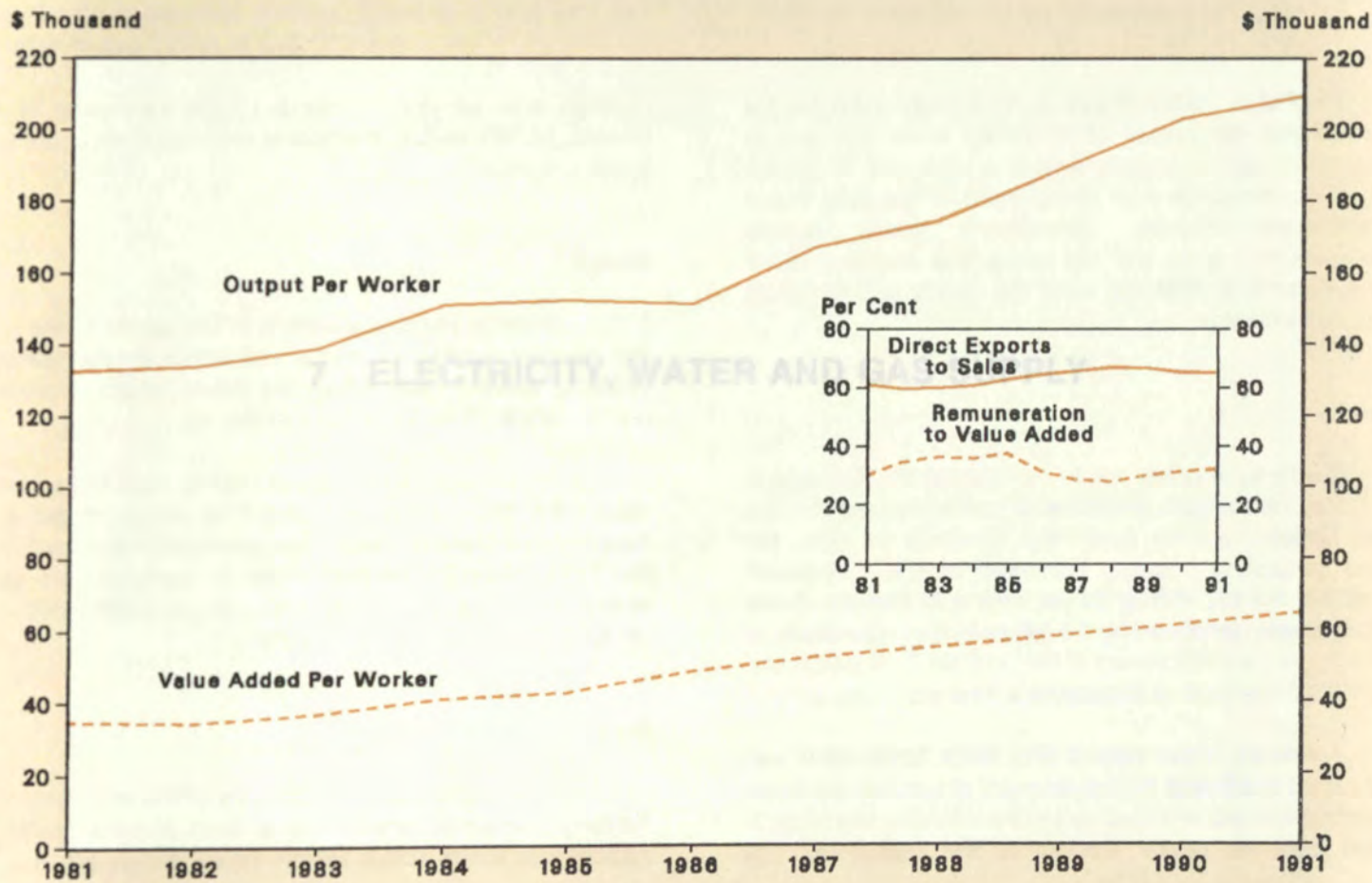
6.15 INDICES OF UNIT LABOUR COST AND UNIT BUSINESS COST, 1981-1991
(1983 = 100)

Period	Unit Labour Cost		Unit Business Cost
	Overall Economy	Manufacturing	Manufacturing
1981	80.7	83.4	97.9
1982	92.9	96.1	100.6
1983	100.0	100.0	100.0
1984	104.0	106.4	104.1
1985	105.0	113.6	104.0
1986	93.2	96.4	91.2
1987	89.3	91.3	88.0
1988	92.5	94.9	90.8
1989	100.3	103.1	96.6
1990	106.5	109.9	103.1
1991	112.8	117.4	108.3

QUARTERLY INDEX OF INDUSTRIAL PRODUCTION, 1985-1991 (1989 = 100)



SELECTED RATIOS IN MANUFACTURING, 1981-1991



The transmission and distribution system whereby electricity is supplied from the power stations to the customers. The network of 230 kilovolt (kV), 66kV, 22kV, 6.6kV and 0.4 kV cables interlinked by transformers at substations forms

Electricity was first made available to the Republic in 1906. Today, electricity is generated at power stations at Pulau Senok, Senok, Jurong and Pasir Panjang. In 1997, the installed generating capacity increased to 4,133 megawatt (MW) of which 2,122 MW or 51 per cent is at Senok. Some electricity is also generated by the refuse incineration plants of the Ministry of the Environment (ENV). In 1997 PUB purchased from ENV 1.3 per cent of Singapore's total electricity supply.

Electricity

was the Republic's ability to meet the needs of companies infrastructure was given the top rating. The deciding factor Competitiveness Report, Singapore's power supply supply rated among the best in the world. In the 1997 World Singapore Today, Singapore enjoys a standard of utilities production and distribution of electricity, water and gas in The Public Utilities Board (PUB) is responsible for the

to provide the most reliable and efficient service to the public. The Public Utilities Board (PUB) is responsible for the

7 ELECTRICITY, WATER AND GAS SUPPLY

Gas

Gas is produced by seven natural gas refineries at the Kallang Gasworks which has a total installed production capacity of about 0.824 million cubic metres per day. Gas

Water supplies are drawn mainly from 16 impounding reservoirs, 14 in Singapore and 2 in Johor. Water is also tapped from rivers in Johor. After purification and treatment at the nine treatment works, water is pumped into service reservoirs for distribution to customers through a network of about 4,314 kilometres of pipelines.

Water

network now consists of about 17,800 kilometres of cable circuits, 22,300 megawatt-amperes of transformer capacity and 2,500 substations.

Water is produced by seven natural gas refineries at the Kallang Gasworks which has a total installed production capacity of about 0.824 million cubic metres per day. Gas

7 ELECTRICITY, WATER AND GAS SUPPLY

The Public Utilities Board (PUB) is responsible for the production and distribution of electricity, water and gas in Singapore. Today, Singapore enjoys a standard of utilities supply rated among the best in the world. In the 1991 World Competitiveness Report, Singapore's power supply infrastructure was given the top rating. The deciding factor was the Republic's ability to meet the needs of companies competing worldwide.

Electricity

Electricity was first made available to the Republic in 1906. Today, electricity is generated at power stations at Pulau Seraya, Senoko, Jurong and Pasir Panjang. In 1991, the installed generating capacity increased to 4,133 megawatt (MW) of which 2,122 MW or 51 per cent is at Senoko. Some electricity is also generated by the refuse incineration plants of the Ministry of the Environment (ENV). In 1991 PUB purchased from ENV 1.3 per cent of Singapore's total electricity supply.

A network of 230 kilovolt (kV), 66kV, 22kV, 6.6kV and 0.4 kV cables interlinked by transformers at substations forms the transmission and distribution system whereby electricity is supplied from the power stations to the customers. The

network now consists of about 17,600 kilometres of cable circuits, 25,300 megavolt-amperes of transformer capacity and 5,500 substations.

Water

Potable water is available in Singapore at the turn of the tap. The quality of water is well within the Guidelines for Drinking Water Quality set by the World Health Organisation and is safe to drink straight from the tap.

Water supplies are drawn mainly from 18 impounding reservoirs, 14 in Singapore and 4 in Johor. Water is also tapped from rivers in Johor. After purification and treatment at the nine treatment works, water is pumped into service reservoirs for distribution to customers through a network of about 4,314 kilometres of pipelines.

Gas

Gas is produced by seven naphtha reformers at the Kallang Gasworks which has a total installed production capacity of about 0.854 million cubic metres per day. Gas

kilometres of gas mains in use.

Stationery published by the Department of Statistics.

7.1 ELECTRICITY GENERATION AND SALES, 1981-1991

Year	Generation	Sales					Number of Customers (End of Period)
		Total	Domestic	Manufacturing	Other Industries	Export	
	Million Kilowatt Hours						
1981	7,461.6	6,660.4	1,092.8	3,156.2	2,337.5	73.9	575,250
1982	7,883.4	7,000.1	1,166.9	3,217.6	2,564.1	51.5	591,416
1983	8,665.1	7,697.6	1,313.0	3,504.9	2,824.9	54.8	611,449
1984	9,451.8	8,398.8	1,336.2	3,926.7	3,062.9	73.0	670,736
1985	9,917.0	8,871.2	1,461.8	4,018.6	3,340.4	50.4	712,450
1986	10,576.5	9,475.8	1,565.3	4,267.8	3,642.7	-	731,163
1987	11,813.8	10,616.6	1,728.7	4,843.6	4,044.3	-	750,860
1988	13,017.5	11,734.8	1,864.1	5,471.7	4,399.0	-	783,970
1989	14,039.0	12,687.5	1,946.1	6,053.6	4,687.9	-	804,629
1990	15,617.6	14,194.4	2,392.0	6,738.9	5,063.4	-	821,846
1991	16,596.6	15,088.9	2,657.8	7,079.2	5,351.9	-	838,167

Source : Public Utilities Board

7.2 WATER TREATMENT AND SALES, 1981-1991

Year	Treatment	Sales							Number of Customers (End of Period)
		Total	Domestic	Shipping	Commerce & Industry	Government & Statutory Boards	Johore		
		Thousand Cubic Metres							
1981	306,848.9	276,442.6	119,436.8	3,495.2	84,417.0	25,332.7	43,760.9	543,201	
1982	320,297.1	288,526.5	124,233.5	3,219.4	86,587.2	26,632.4	47,854.0	559,008	
1983	336,770.7	307,322.3	132,438.2	3,267.9	93,534.8	27,798.1	50,283.3	579,269	
1984	359,662.5	317,942.0	136,217.8	2,586.5	94,889.2	31,618.0	52,630.5	636,651	
1985	366,214.7	322,677.7	141,706.5	2,161.5	89,406.6	32,667.9	56,735.2	680,767	
1986	366,024.8	324,664.3	144,547.6	2,164.4	87,300.0	32,480.8	58,171.5	698,667	
1987	378,060.1	334,679.7	151,772.7	1,856.6	95,084.1	33,285.4	52,680.9	716,252	
1988	389,487.6	344,073.8	159,657.5	2,453.7	99,318.8	35,503.6	47,140.2	748,036	
1989	400,114.4	355,635.5	165,439.0	2,682.3	107,134.0	34,868.9	45,511.3	765,801	
1990	415,128.5	374,222.4	177,343.3	2,914.5	113,148.3	29,391.9	51,424.4	782,555	
1991	434,066.5	399,013.2	187,659.1	3,069.2	117,811.5	26,628.1	63,845.2	799,049	

Source : Public Utilities Board

7.3 GAS PRODUCTION AND SALES, 1981-1991

Year	Production	Sales				Number of Customers (End of Period)
		Total	Domestic		Non-domestic	
			Public Housing	Others		
Million Kilowatt Hours Equivalent						
1981	625.6	560.7	249.0	66.5	245.2	190,509
1982	624.8	570.0	257.6	62.5	249.9	189,660
1983	605.4	566.5	261.0	61.0	244.5	190,087
1984	609.4	573.1	267.1	60.6	245.4	188,445
1985	569.9	541.3	251.9	56.1	233.3	185,246
1986	577.3	549.8	243.7	51.7	254.4	186,507
1987	623.5	604.2	245.1	49.1	310.0	189,610
1988	681.1	668.7	256.2	49.6	362.9	205,930
1989	722.4	709.5	271.4	48.7	389.4	218,627
1990	807.1	784.8	283.5	47.8	453.5	229,935
1991	883.7	866.3	298.0	47.7	520.6	243,811

Source : Public Utilities Board

8 BUILDING CONSTRUCTION AND HOUSING

SECTION AND HOUSING

8 BUILDING CONSTRUCTION AND HOUSING

Building Construction

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 planning approval, building plan approval and notice of commencement are compiled from the administrative records of Development Control Division, Urban Redevelopment Authority (URA) and Building Control Division of the Public Works Department (PWD). Records on notice of tender invitation and completion are collected through surveys conducted by the Research Section, URA.

Definitions

Planning Approval : Refers to the planning permission granted by the Minister or the Competent Authority to develop any land in accordance with the development rules in force.

Building Plan Approval (Private Sector Only) : Refers to the permission granted to building plans and specifications submitted in accordance with Building Control Act.

Building Commencement : For the private sector, it refers to the Notice of Intention to Commence Building Works submitted by the architects/professional engineers to the Building Control Division, PWD. For the public sector, it refers to the tender invitation stage for construction works.

Building Completion : Refers to those declared in the survey returns from architects, engineers and public authorities on completed projects.

Gross Floor Area : Refers to the total area of floor space within a building as measured between party walls, including the thickness of external walls and all other covered areas such as covered car park decks. Area for open airwells is excluded.

Estimated Cost of Construction : Refers to the cost of building and ancillary works, excluding development charges, professional fees, costs of land and furnishings.

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 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.

More details of building construction statistics may be obtained from the "Monthly Bulletin of Construction Statistics", "Construction Statistics Quarterly" and "Real Estate Statistics Quarterly" published by the Research Section, URA.

Housing

The Housing and Development Board (HDB) is the public housing authority of Singapore. It is responsible for formulating and implementing public housing programmes for the development and redevelopment of public housing and related facilities in self-contained New Towns.

The housing administration function includes allocation of rental flats, provision of lease and tenancy services, housing maintenance services, financial services and other support services like carparks, markets and hawker centres. HDB's estate maintenance function had been completely taken over

by the Town Councils since March 1991. The Town Councils Act became operational on 5 August 1988. Under the Act, Town Councils were formed in all constituencies to take over the management and maintenance of common areas in housing estates from HDB. As at 31 December 1991, there are 25 Towns Councils managing and maintaining HDB housing estates.

Housing units managed by the HDB are classified according to the number of rooms in each flat. For this purpose, besides the bedrooms, a living or dining room space is also counted as a room. All units have, in addition, kitchen space and bathroom/toilet facilities. Shops and eating places are generally located on the ground floor of a block of flats.

Flats are considered 'sold' only when the Sales Orders have been raised and keys issued. The number of constructed flats refers to flats which have been completed during the whole year.

From May 1982, flats formerly built by the Jurong Town Corporation (JTC) and the Housing and Urban Development Company (HUDC) came under the management of the HDB.

Detailed breakdowns on the statistics may be found in the HDB's Annual Report.

8.1 PLANNING APPROVALS, 1981-1991

Year	Total			Public Sector			Private Sector		
	Number	Gross Floor Area ('000 Sq M)	Estimated Cost of Construction (\$ Million)	Number	Gross Floor Area ('000 Sq M)	Estimated Cost of Construction (\$ Million)	Number	Gross Floor Area ('000 Sq M)	Estimated Cost of Construction (\$ Million)
1981	1,712	9,952.8	6,963.6	251	5,359.4	2,741.9	1,461	4,593.4	4,221.7
1982	1,555	12,053.2	10,121.2	226	6,255.4	4,107.3	1,329	5,797.8	6,013.9
1983	1,769	11,669.0	8,077.2	251	7,860.0	4,216.1	1,518	3,809.0	3,861.1
1984	1,780	8,932.8	5,705.6	233	5,983.2	2,993.6	1,547	2,949.6	2,712.0
1985	1,361	7,769.0	3,971.0	272	6,102.9	2,323.7	1,089	1,666.1	1,647.3
1986	1,481	8,615.9	4,315.0	262	7,176.4	3,204.7	1,219	1,439.5	1,110.3
1987	1,830	7,517.1	3,646.3	207	5,310.9	2,150.6	1,623	2,206.2	1,495.7
1988	2,000	5,078.6	3,678.1	292	2,478.4	1,685.5	1,708	2,600.2	1,992.6
1989	2,112	5,234.5	4,467.1	313	1,659.0	1,112.4	1,799	3,575.5	3,354.7
1990	2,267	6,876.3	6,008.1	356	2,806.8	2,014.9	1,911	4,069.5	3,993.2
1991 ^P	1,975	7,689.2	8,865.3	319	3,338.0	2,547.9	1,656	4,351.2	6,317.4

Source : Ministry of National Development
Urban Redevelopment Authority
with effect from September 1989

8.2 COMMENCEMENT OF BUILDING CONSTRUCTION, 1981-1991

Year	Total			Public Sector			Private Sector		
	Number	Gross Floor Area ('000 Sq M)	Estimated Cost of Construction (\$ Million)	Number	Gross Floor Area ('000 Sq M)	Estimated Cost of Construction (\$ Million)	Number	Gross Floor Area ('000 Sq M)	Estimated Cost of Construction (\$ Million)
1981	1,970	8,849.9	6,500.8	586	5,381.4	2,819.1	1,384	3,468.5	3,681.7
1982	1,840	12,445.7	10,151.5	593	7,642.0	4,545.7	1,247	4,803.7	5,605.8
1983	2,042	12,454.5	8,590.1	654	8,798.2	4,860.3	1,388	3,656.3	3,729.8
1984	1,996	8,112.0	5,446.6	562	6,179.7	3,496.1	1,434	1,932.3	1,950.5
1985	1,606	6,141.2	3,241.1	542	5,079.0	2,205.6	1,064	1,062.2	1,035.5
1986	1,596	5,428.1	2,653.7	507	4,769.1	2,117.7	1,089	659.0	536.0
1987	1,936	4,309.9	2,868.6	453	2,552.5	1,501.2	1,483	1,757.4	1,367.4
1988	2,247	4,278.2	3,033.4	435	2,249.2	1,392.7	1,812	2,029.0	1,640.7
1989	2,312	6,635.3	6,531.2	364	2,315.9	1,640.1	1,948	4,319.4	4,891.1
1990	2,971	7,496.9	7,621.3	368	4,113.1	2,884.7	2,603	3,383.8	4,736.6
1991 ^P	2,896	8,707.2	9,145.4	410	5,161.1	4,243.6	2,486	3,546.1	4,901.8

Source : Ministry of National Development
Urban Redevelopment Authority
with effect from September 1989

8.3 CONSTRUCTION PROJECTS COMPLETED, 1981-1991

Year	Total			Public Sector			Private Sector		
	Number	Gross Floor Area ('000 Sq M)	Cost of Construction (\$ Million)	Number	Gross Floor Area ('000 Sq M)	Cost of Construction (\$ Million)	Number	Gross Floor Area ('000 Sq M)	Cost of Construction (\$ Million)
1981	1,477	4,842.3	2,253.3	499	2,621.7	1,056.4	978	2,220.6	1,196.9
1982	1,621	6,123.3	3,873.8	499	3,599.0	1,564.5	1,122	2,524.3	2,309.3
1983	1,641	6,725.1	4,609.3	518	3,893.9	2,052.9	1,123	2,831.2	2,556.4
1984	2,006	14,989.5	8,834.4	675	11,662.1	5,300.0	1,331	3,327.4	3,534.4
1985	1,925	11,423.9	6,621.2	614	8,545.5	3,672.8	1,311	2,878.4	2,948.4
1986	1,661	9,040.9	6,425.6	518	6,231.0	3,102.1	1,143	2,809.9	3,323.5
1987	1,822	7,160.0	4,330.1	486	5,504.4	2,548.1	1,336	1,655.6	1,782.0
1988	1,761	6,382.7	3,245.3	421	5,044.6	1,957.9	1,340	1,338.1	1,287.4
1989	1,974	4,167.9	2,965.9	422	2,408.1	1,207.7	1,552	1,759.8	1,758.2
1990	2,381	4,897.2	4,086.2	367	2,588.6	1,615.4	2,014	2,308.6	2,470.8
1991 ^P	2,491	4,588.8	4,030.0	362	2,277.5	1,429.7	2,129	2,311.3	2,600.3

Source : Ministry of National Development
Urban Redevelopment Authority
with effect from September 1989

8.4 PLANNING APPROVALS BY TYPE OF DEVELOPMENT, 1981-1991

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
All Types	Number										
	1,712	1,555	1,769	1,780	1,361	1,481	1,830	2,000	2,112	2,267	1,975
	777	706	983	986	646	773	1,076	1,009	933	681	627
	145	158	137	137	116	139	135	200	359	517	443
	531	457	378	384	290	273	381	455	530	731	617
	259	234	271	273	309	296	238	336	290	338	288
All Types	Gross Floor Area (Thousand Square Metres)										
	9,952.8	12,053.2	11,669.0	8,932.8	7,769.0	8,615.9	7,517.1	5,078.6	5,234.5	6,876.3	7,689.2
	5,290.0	6,042.8	8,745.6	6,432.8	5,888.6	6,598.2	5,886.5	3,394.3	2,385.5	3,804.3	3,806.0
	1,533.5	3,282.9	698.7	787.3	409.7	279.7	195.9	270.0	766.9	800.0	1,533.6
	2,504.0	2,072.2	1,180.8	881.0	933.9	558.6	868.2	693.8	1,470.7	1,572.4	1,764.4
	625.3	655.3	1,043.9	831.7	536.8	1,179.4	566.5	720.5	611.4	699.6	585.2
All Types	Estimated Cost of Construction (Million Dollars)										
	6,963.6	10,121.2	8,077.2	5,705.6	3,971.0	4,315.0	3,646.3	3,678.1	4,467.1	6,008.1	8,865.3
	2,886.0	3,829.1	5,312.1	3,427.8	2,231.7	2,627.1	2,562.5	2,034.1	1,640.3	2,681.8	2,966.3
	1,473.4	4,317.0	981.8	722.0	579.7	219.1	165.2	327.9	1,075.3	1,204.9	3,559.0
	1,969.5	1,355.0	880.6	627.9	526.1	361.5	545.7	489.2	1,080.2	1,212.7	1,501.3
	634.7	620.1	902.7	927.9	633.5	1,107.3	372.9	826.9	671.3	908.7	838.7

Source : Ministry of National Development
Urban Redevelopment Authority
with effect from September 1989

8.5 PLANNING APPROVALS BY TYPE OF DEVELOPMENT IN THE PUBLIC SECTOR, 1981-1991

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P	
All Types	Number											
	251	226	251	233	272	262	207	292	313	356	319	
	Residential	25	37	40	30	22	38	27	23	38	45	59
	Commercial	25	19	14	13	9	17	17	16	56	74	46
	Industrial	18	14	9	3	1	-	5	8	14	13	20
	Others	183	156	188	187	240	207	158	245	205	224	194
All Types	Gross Floor Area (Thousand Square Metres)											
	5,359.4	6,255.4	7,860.0	5,983.2	6,102.9	7,176.4	5,310.9	2,478.4	1,659.0	2,806.8	3,338.0	
	Residential	3,415.4	4,541.6	6,712.7	4,906.1	5,227.5	5,900.2	4,876.4	1,778.7	997.1	2,215.2	2,421.2
	Commercial	516.7	599.9	39.2	245.6	131.2	178.3	76.5	30.2	64.2	70.0	22.3
	Industrial	928.8	745.0	281.8	123.5	308.5	-	33.5	141.0	191.8	105.9	385.3
	Others	498.5	368.9	826.3	708.0	435.7	1,097.9	324.5	528.5	405.9	415.7	509.2
All Types	Estimated Cost of Construction (Million Dollars)											
	2,741.9	4,107.3	4,216.1	2,993.6	2,323.7	3,204.7	2,150.6	1,685.5	1,112.4	2,014.9	2,547.9	
	Residential	1,413.0	2,215.8	3,170.2	1,952.4	1,610.1	2,038.7	1,807.0	765.0	487.7	1,241.7	1,493.9
	Commercial	319.2	964.6	44.8	156.9	82.6	126.2	42.0	56.0	52.8	119.1	47.7
	Industrial	493.1	391.9	195.8	48.5	106.0	-	20.5	105.1	87.6	66.2	263.0
	Others	516.6	535.0	805.3	835.8	525.0	1,039.8	281.1	759.4	484.3	587.9	743.3

Source : Ministry of National Development
Urban Redevelopment Authority
with effect from September 1989

8.6 PLANNING APPROVALS BY TYPE OF DEVELOPMENT IN THE PRIVATE SECTOR, 1981-1991

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^p
Number											
All Types	1,461	1,329	1,518	1,547	1,089	1,219	1,623	1,708	1,799	1,911	1,656
Residential	752	669	943	956	624	735	1,049	986	895	636	568
Commercial	120	139	123	124	107	122	118	184	303	443	397
Industrial	513	443	369	381	289	273	376	447	516	718	597
Others	76	78	83	86	69	89	80	91	85	114	94
Gross Floor Area (Thousand Square Metres)											
All Types	4,593.4	5,797.8	3,809.0	2,949.6	1,666.1	1,439.5	2,206.2	2,600.2	3,575.5	4,069.5	4,351.2
Residential	1,874.6	1,501.2	2,032.9	1,526.7	661.1	698.0	1,010.1	1,615.6	1,388.4	1,589.1	1,384.8
Commercial	1,016.7	2,683.0	659.5	541.7	278.5	101.4	119.4	239.8	702.7	730.0	1,511.3
Industrial	1,575.3	1,327.2	899.0	757.5	625.4	558.6	834.7	552.8	1,278.9	1,466.5	1,379.1
Others	126.8	286.4	217.6	123.7	101.1	81.5	242.0	192.0	205.5	283.9	76.0
Estimated Cost of Construction (Million Dollars)											
All Types	4,221.7	6,013.9	3,861.1	2,712.0	1,647.3	1,110.3	1,495.7	1,992.6	3,354.7	3,993.2	6,317.4
Residential	1,473.0	1,613.3	2,141.9	1,475.4	621.6	588.4	755.5	1,269.1	1,152.6	1,440.1	1,472.4
Commercial	1,154.2	3,352.4	937.0	565.1	497.1	92.9	123.2	271.9	1,022.5	1,085.8	3,511.3
Industrial	1,476.4	963.1	684.8	579.4	420.1	361.5	525.2	384.1	992.6	1,146.5	1,238.3
Others	118.1	85.1	97.4	92.1	108.5	67.5	91.8	67.5	187.0	320.8	95.4

Source : Ministry of National Development
Urban Redevelopment Authority
with effect from September 1989

8.7 COMMENCEMENT OF BUILDING CONSTRUCTION BY TYPE OF DEVELOPMENT, 1981-1991

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
Number											
All Types	1,970	1,840	2,042	1,996	1,606	1,596	1,936	2,247	2,312	2,971	2,896
Residential	777	746	999	904	693	661	891	1,054	1,027	1,470	1,330
Commercial	209	226	210	274	228	294	331	291	459	592	609
Industrial	559	485	400	405	286	296	367	535	500	586	645
Others	425	383	433	413	399	345	347	367	326	323	312
Gross Floor Area (Thousand Square Metres)											
All Types	8,849.9	12,445.7	12,454.5	8,112.0	6,141.2	5,428.1	4,309.9	4,278.2	6,635.3	7,496.9	8,707.2
Residential	5,419.9	7,456.3	9,141.2	5,881.7	4,969.6	4,313.0	2,870.6	2,812.2	3,239.1	4,030.3	5,234.4
Commercial	1,024.5	2,321.9	940.0	657.0	350.1	141.4	120.6	196.5	1,433.8	1,227.3	872.5
Industrial	1,748.3	1,884.7	943.7	664.2	277.4	282.5	644.5	800.4	1,246.0	1,545.1	1,749.5
Others	657.2	782.8	1,429.6	909.1	544.1	691.2	674.2	469.1	716.4	694.2	850.8
Estimated Cost of Construction (Million Dollars)											
All Types	6,500.8	10,151.5	8,590.1	5,446.6	3,241.1	2,653.7	2,868.6	3,033.4	6,531.2	7,621.3	9,145.4
Residential	2,948.0	4,437.9	4,972.7	2,730.0	2,101.5	1,679.9	1,542.9	1,634.4	2,265.5	2,737.8	4,049.2
Commercial	1,257.7	3,510.0	1,208.8	860.2	384.4	150.7	164.4	241.3	2,426.2	2,651.7	1,951.9
Industrial	1,558.2	1,176.9	783.4	517.0	216.1	228.7	494.4	600.3	1,026.6	1,267.0	1,818.9
Others	736.9	1,026.7	1,625.2	1,339.4	539.1	594.4	666.9	557.4	812.9	964.8	1,325.4

Source : Ministry of National Development
Urban Redevelopment Authority
with effect from September 1989

8.8 COMMENCEMENT OF BUILDING CONSTRUCTION BY TYPE OF DEVELOPMENT IN THE PUBLIC SECTOR, 1981-1991

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P	
All Types	Number											
	586	593	654	562	542	507	453	435	364	368	410	
	Residential	151	205	206	179	158	183	139	117	85	99	118
	Commercial	43	41	52	49	34	37	29	36	34	21	64
	Industrial	45	43	32	17	14	29	24	30	23	43	39
	Others	347	304	364	317	336	258	261	252	222	205	189
All Types	Gross Floor Area (Thousand Square Metres)											
	5,381.4	7,642.0	8,798.2	6,179.7	5,079.0	4,769.1	2,552.5	2,249.2	2,315.9	4,113.1	5,161.1	
	Residential	4,010.9	5,810.2	7,315.0	5,140.5	4,462.5	4,052.2	2,088.4	1,692.1	1,787.0	3,130.2	3,880.2
	Commercial	300.1	392.6	289.2	219.5	129.8	75.1	1.8	21.0	119.1	15.8	113.0
	Industrial	525.4	821.2	120.4	43.9	-	-	35.5	167.5	78.5	417.4	534.8
	Others	545.0	618.0	1,073.6	775.8	486.7	641.8	426.8	368.6	331.3	549.7	633.1
All Types	Estimated Cost of Construction (Million Dollars)											
	2,819.1	4,545.7	4,860.3	3,496.1	2,205.6	2,117.7	1,501.2	1,392.7	1,640.1	2,884.7	4,243.6	
	Residential	1,647.5	2,626.2	3,024.1	2,002.8	1,639.3	1,471.5	886.7	747.7	931.7	1,769.8	2,542.7
	Commercial	231.0	573.9	218.5	217.5	73.2	81.3	13.5	40.2	177.8	27.4	127.0
	Industrial	282.3	408.1	102.2	30.2	7.0	18.3	30.2	121.8	85.8	324.0	639.7
	Others	658.3	937.5	1,515.5	1,245.6	486.1	546.6	570.8	483.0	444.8	763.5	934.2

Source : Ministry of National Development
Urban Redevelopment Authority
with effect from September 1989

8.9 COMMENCEMENT OF BUILDING CONSTRUCTION BY TYPE OF DEVELOPMENT IN THE PRIVATE SECTOR, 1981-1991

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P	
All Types	Number											
	1,384	1,247	1,388	1,434	1,064	1,089	1,483	1,812	1,948	2,603	2,486	
	Residential	626	541	793	725	535	478	752	937	942	1,371	1,212
	Commercial	166	185	158	225	194	257	302	255	425	571	545
	Industrial	514	442	368	388	272	267	343	505	477	543	606
	Others	78	79	69	96	63	87	86	115	104	118	123
All Types	Gross Floor Area (Thousand Square Metres)											
	3,468.5	4,803.7	3,656.3	1,932.3	1,062.2	659.0	1,757.4	2,029.0	4,319.4	3,383.8	3,546.1	
	Residential	1,409.0	1,646.1	1,826.2	741.2	507.1	260.8	782.2	1,120.1	1,452.1	900.1	1,354.2
	Commercial	724.4	1,929.3	650.8	437.5	220.3	66.3	118.8	175.5	1,314.7	1,211.5	759.5
	Industrial	1,222.9	1,063.5	823.3	620.3	277.4	282.5	609.0	632.9	1,167.5	1,127.7	1,214.7
	Others	112.2	164.8	356.0	133.3	57.4	49.4	247.4	100.5	385.1	144.5	217.7
All Types	Estimated Cost of Construction (Million Dollars)											
	3,681.7	5,605.8	3,729.8	1,950.5	1,035.5	536.0	1,367.4	1,640.7	4,891.1	4,736.6	4,901.8	
	Residential	1,300.5	1,811.7	1,948.6	727.2	462.2	208.4	656.2	886.7	1,333.8	968.0	1,506.5
	Commercial	1,026.7	2,936.1	990.3	642.7	311.2	69.4	150.9	201.1	2,248.4	2,624.3	1,824.9
	Industrial	1,275.9	768.8	681.2	486.8	209.1	210.4	464.2	478.5	940.8	943.0	1,179.2
	Others	78.6	89.2	109.7	93.8	53.0	47.8	96.1	74.4	368.1	201.3	391.2

Source : Ministry of National Development
Urban Redevelopment Authority
with effect from September 1989

8.10 CONSTRUCTION PROJECTS COMPLETED BY TYPE OF DEVELOPMENT, 1981-1991

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P	
All Types	Number											
	1,477	1,621	1,641	2,006	1,925	1,661	1,822	1,761	1,974	2,381	2,491	
	Residential	500	578	700	877	933	752	814	822	873	1,011	1,180
	Commercial	211	193	182	289	218	279	342	250	367	587	433
	Industrial	435	489	396	437	361	257	329	389	424	461	587
	Others	331	361	363	403	413	373	337	300	310	322	291
All Types	Gross Floor Area (Thousand Square Metres)											
	4,842.3	6,123.3	6,725.1	14,989.5	11,423.9	9,040.9	7,160.0	6,382.7	4,167.9	4,897.2	4,588.8	
	Residential	2,123.3	2,894.3	3,754.7	11,217.2	9,221.5	6,250.9	5,092.6	4,863.1	2,889.5	2,658.1	2,597.2
	Commercial	973.2	928.5	850.8	1,506.3	728.2	1,448.6	821.4	359.9	293.7	416.7	368.1
	Industrial	1,053.4	1,756.4	1,549.3	1,531.1	984.9	473.2	360.7	637.3	672.4	968.7	1,332.9
	Others	692.4	544.1	570.3	734.9	489.3	868.2	885.3	522.4	312.3	853.7	290.6
All Types	Cost of Construction (Million Dollars)											
	2,253.3	3,873.8	4,609.3	8,834.4	6,621.2	6,425.6	4,330.1	3,245.3	2,965.9	4,086.2	4,030.0	
	Residential	682.7	969.0	1,958.0	4,994.8	4,497.4	2,828.3	2,018.5	1,821.0	1,534.8	1,537.8	1,623.6
	Commercial	420.3	718.1	801.6	1,856.5	892.3	2,256.9	1,103.0	403.4	390.2	896.9	616.5
	Industrial	506.9	1,465.4	1,144.8	1,035.9	699.5	333.9	264.5	529.8	618.1	782.4	1,262.7
	Others	643.4	721.3	704.9	947.2	532.0	1,006.5	944.1	491.1	422.8	869.1	527.2

Source : Ministry of National Development
Urban Redevelopment Authority
with effect from September 1989

8.11 PUBLIC SECTOR CONSTRUCTION PROJECTS COMPLETED BY TYPE OF DEVELOPMENT, 1981-1991

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P	
All Types	Number											
	499	499	518	675	614	518	486	421	422	367	362	
	Residential	136	130	137	235	227	171	189	166	120	78	80
	Commercial	58	37	40	60	28	31	32	29	59	50	53
	Industrial	28	34	47	39	29	19	22	22	21	25	41
	Others	277	298	294	341	330	297	243	204	222	214	188
	Gross Floor Area (Thousand Square Metres)											
All Types	2,621.7	3,599.0	3,893.9	11,662.1	8,545.5	6,231.0	5,504.4	5,044.6	2,408.1	2,588.6	2,277.5	
Residential	1,427.9	2,338.1	2,561.2	9,960.1	7,511.6	5,099.7	4,480.9	4,399.9	2,009.9	1,670.4	1,681.0	
Commercial	369.9	266.2	259.5	464.5	272.6	274.0	212.5	121.0	33.4	36.1	85.2	
Industrial	236.7	507.4	623.8	583.1	349.0	44.0	-	59.7	104.3	96.6	270.6	
Others	587.2	487.3	449.4	654.4	412.3	813.3	811.0	464.0	260.5	785.5	240.7	
Cost of Construction (Million Dollars)												
All Types	1,056.4	1,564.5	2,052.9	5,300.0	3,672.8	3,102.1	2,548.1	1,957.9	1,207.7	1,615.4	1,429.7	
Residential	351.6	558.1	930.4	3,754.2	2,798.5	1,799.2	1,479.2	1,421.0	771.2	701.9	707.8	
Commercial	54.9	146.4	211.7	434.6	235.8	307.3	203.1	66.0	31.3	47.0	79.4	
Industrial	77.7	194.9	300.5	272.9	165.5	32.4	9.7	38.4	55.2	83.0	222.0	
Others	572.2	665.1	610.3	838.3	473.0	963.2	856.1	432.5	350.0	783.5	420.5	

Source : Ministry of National Development
Urban Redevelopment Authority
with effect from September 1989

8.12 PRIVATE SECTOR CONSTRUCTION PROJECTS COMPLETED BY TYPE OF DEVELOPMENT, 1981-1991

		1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
All Types	Number											
	978	1,122	1,123	1,331	1,311	1,143	1,336	1,340	1,552	2,014	2,129	
	Residential	364	448	563	642	706	581	625	656	753	933	1,100
	Commercial	153	156	142	229	190	248	310	221	308	537	380
	Industrial	407	455	349	398	332	238	307	367	403	436	546
	Others	54	63	69	62	83	76	94	96	88	108	103
All Types	Gross Floor Area (Thousand Square Metres)											
	2,220.6	2,524.3	2,831.2	3,327.4	2,878.4	2,809.9	1,655.6	1,338.1	1,759.8	2,308.6	2,311.3	
	Residential	695.4	556.2	1,193.5	1,257.1	1,709.9	1,151.2	611.7	463.2	879.6	987.7	916.2
	Commercial	603.3	662.3	591.3	1,041.8	455.6	1,174.6	608.9	238.9	260.3	380.6	282.9
	Industrial	816.7	1,249.0	925.5	948.0	635.9	429.2	360.7	577.6	568.1	872.1	1,062.3
	Others	105.2	56.8	120.9	80.5	77.0	54.9	74.3	58.4	51.8	68.2	49.9
All Types	Cost of Construction (Million Dollars)											
	1,196.9	2,309.3	2,556.4	3,534.4	2,948.4	3,323.5	1,782.0	1,287.4	1,758.2	2,470.8	2,600.3	
	Residential	331.1	410.9	1,027.6	1,240.6	1,698.9	1,029.1	539.3	400.0	763.6	835.9	915.8
	Commercial	365.4	571.7	589.9	1,421.9	656.5	1,949.6	899.9	337.4	358.9	849.9	537.1
	Industrial	429.2	1,270.5	844.3	763.0	534.0	301.5	254.8	491.4	562.9	699.4	1,040.7
	Others	71.2	56.2	94.6	108.9	59.0	43.3	88.0	58.6	72.8	85.6	106.7

Source : Ministry of National Development
Urban Redevelopment Authority
with effect from September 1989

8.13 BUILDING PLAN APPROVALS BY TYPE OF DEVELOPMENT IN THE PRIVATE SECTOR, 1981-1991

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^p
All Types	Number										
	1,444	1,306	1,533	1,669	1,322	1,207	1,457	1,894	2,230	2,988	2,729
	Residential	668	595	825	862	652	556	687	985	1,132	1,487
	Commercial	179	176	198	260	243	270	337	298	447	657
	Industrial	521	456	422	444	350	296	346	497	538	710
	Others	76	79	88	103	77	85	87	114	113	134
All Types	Gross Floor Area (Thousand Square Metres)										
	3,486.8	3,406.4	5,538.6	2,822.2	1,958.7	889.1	1,178.7	1,900.9	2,832.9	2,836.9	3,964.9
	Residential	1,244.2	1,159.3	2,083.1	1,132.7	880.0	483.6	535.4	988.3	1,149.2	1,216.5
	Commercial	971.5	1,012.9	2,144.6	802.0	581.4	70.6	119.7	149.6	385.0	532.3
	Industrial	1,174.2	1,073.5	1,015.9	680.5	422.4	260.5	396.7	635.5	1,080.4	870.8
	Others	96.9	160.7	295.0	207.0	74.9	74.4	126.9	127.5	218.3	217.3
All Types	Estimated Cost of Construction (Million Dollars)										
	3,607.4	3,323.1	6,396.4	2,884.0	1,952.7	835.2	917.0	1,648.2	2,648.9	3,202.6	5,764.1
	Residential	1,109.6	1,179.5	2,186.4	1,195.4	762.5	441.6	434.6	801.7	963.9	1,204.8
	Commercial	1,197.8	1,296.2	3,216.8	1,087.3	771.1	122.1	141.9	174.7	686.9	1,025.0
	Industrial	1,229.1	767.2	890.0	505.8	345.3	194.3	286.6	578.1	885.1	705.3
	Others	70.9	80.2	103.2	95.5	73.8	77.2	53.9	93.7	113.0	267.5

Source : Ministry of National Development
Urban Redevelopment Authority
with effect from September 1989

8.14 RESIDENTIAL UNITS IN THE PUBLIC SECTOR BY TYPE OF BUILDING AND STAGE OF DEVELOPMENT, 1981-1991

		1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^p
		Planning Approval Stage										
All Types		27,468	40,793	54,709	39,018	33,339	38,536	30,283	10,623	5,710	11,849	12,361
Detached		-	16	-	-	-	-	-	-	-	-	-
Terrace		-	12	-	-	-	1	-	-	6	-	-
Flats		27,468	40,755	54,709	38,922	33,319	37,705	29,982	10,623	5,704	11,849	12,361
Others		-	10	-	96	20	830	301	-	-	-	-
		Building of Commencement Stage										
All Types		30,255	46,721	59,201	39,676	31,854	26,584	13,083	10,631	10,885	16,146	20,136
Detached		-	16	-	-	-	-	-	-	-	-	-
Terrace		-	12	-	-	-	-	-	-	-	4	-
Flats		30,255	46,683	59,105	39,676	31,834	26,584	13,083	10,631	10,885	16,142	20,136
Others		-	10	96	-	20	-	-	-	-	-	-
		Building Completion Stage										
All Types		12,464	19,512	19,275	78,288	59,633	38,519	32,859	29,149	12,328	10,562	10,348
Detached		-	-	-	16	-	-	-	-	-	-	-
Terrace		-	-	-	12	-	-	-	-	-	-	-
Flats		12,401	19,510	19,275	78,244	59,633	38,403	32,859	28,319	12,328	10,562	10,348
Others		63	2	-	16	-	116	-	830	-	-	-

Note : Figures refer to erections of residential units only.
They do not include additions or alterations.

Source : Ministry of National Development
Urban Redevelopment Authority
with effect from September 1989

8.15 RESIDENTIAL UNITS IN THE PRIVATE SECTOR BY TYPE OF BUILDING AND STAGE OF DEVELOPMENT, 1981-1991

Number

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
Planning Approval Stage											
All Types	8,174	6,535	8,933	6,484	2,535	2,848	3,984	6,676	5,383	6,538	5,566
Detached	247	213	291	289	174	137	202	234	201	191	175
Semi-detached	232	275	566	912	192	290	457	396	451	312	276
Terrace	396	227	1,030	1,396	384	765	1,562	2,119	1,374	1,012	721
Flats	7,291	5,820	7,035	3,883	1,785	1,649	1,752	3,926	1,298	1,486	1,231
Condominium									2,059	3,537	3,163
Others	8	-	11	4	-	7	11	1	-	-	-
Building Plan Approval Stage											
All Types	5,532	4,817	9,436	4,461	3,777	2,074	2,051	3,988	4,769	4,570	4,327
Detached	196	149	239	273	165	75	126	173	194	156	149
Semi-detached	208	166	418	477	528	235	336	382	321	368	251
Terrace	410	233	639	663	824	504	655	1,802	1,233	1,359	759
Flats	4,654	4,264	8,132	3,045	2,259	1,253	934	1,629	716	1,306	959
Condominium									2,305	1,381	2,209
Others	64	5	8	3	1	7	-	2	-	-	-
Building of Commencement Stage											
All Types	6,270	7,829	7,465	2,929	2,107	991	3,246	4,720	5,669	3,346	6,606
Detached	195	149	223	211	107	53	108	217	153	155	154
Semi-detached	206	170	487	430	420	183	461	350	336	387	261
Terrace	395	270	836	504	544	422	1,225	1,654	1,620	744	800
Flats	5,410	7,239	5,906	1,781	1,035	326	1,451	2,498	1,149	1,270	1,325
Condominium									2,411	790	4,066
Others	64	1	13	3	1	7	1	1	-	-	-
Building Completion Stage											
All Types	3,186	2,476	4,919	5,441	7,388	5,173	2,295	1,705	3,741	3,647	3,517
Detached	110	124	161	144	179	109	157	85	135	168	145
Semi-detached	328	229	357	290	377	385	275	345	376	348	346
Terrace	231	183	481	365	674	365	457	625	882	1,227	1,424
Flats	2,510	1,880	3,902	4,595	6,150	4,312	1,393	650	575	675	868
Condominium									1,773	1,229	734
Others	7	60	18	47	8	2	13	-	-	-	-

Note : Figures refer to erections of residential units only.
They do not include additions or alterations.

Source : Ministry of National Development
Urban Redevelopment Authority
with effect from September 1989

8.16 PROPERTIES UNDER THE MANAGEMENT OF HOUSING AND DEVELOPMENT BOARD, 1981-1991

End of Year	Residential								Number
	Total	1-room	2-room	3-room	4-room	5-room	Executive	HUDC	Shops ¹
1981	383,026	67,132	48,867	181,489	59,971	22,835	-	2,732	15,386
1982	399,935	65,908	48,644	190,688	65,521	26,442	-	2,732	16,784
1983	430,169	60,982	48,563	203,116	81,082	31,345	1,867	3,214	18,729
1984	506,340	60,283	48,622	229,671	116,764	40,678	5,400	4,922	21,209
1985	551,767	60,105	48,566	242,878	139,136	45,097	8,266	7,719	25,175
1986	585,445	58,957	48,002	252,039	157,902	51,484	11,454	5,607	25,896
1987	612,826	58,237	47,713	256,648	171,557	58,776	14,288 ²	5,607	26,136
1988	630,645	53,356	46,590	254,449	185,709	66,864	18,070 ²	5,607	26,637
1989	610,955	28,741	42,226	252,541	193,538	69,435	19,002 ²	5,472 ³	30,553
1990	623,821	28,697	42,206	252,044	202,046	71,754	21,602 ²	5,472 ³	30,473
1991	626,313	28,125	38,445	248,358	207,773	74,714	23,426 ²	5,472 ³	30,594

Note : Figures include units managed by Jurong Town Corporation (from 1978-April 1982) and Housing and Urban Development Company (from 1977/78-April 1982).

Source : Housing & Development Board
Jurong Town Corporation
Housing & Urban Development Company

¹ Include industrial units.

² Include 367 multi-generation flats.

³ Include 61 landed properties.

8.17 RESIDENTIAL UNITS CONSTRUCTED AND SOLD BY HOUSING AND DEVELOPMENT BOARD, 1981-1991

Year	Flats Constructed ¹	Flats Sold Under 'Home Ownership Scheme' ¹	Percentage of Population Living in Public Flats ⁶ (End of Period)
	Number		
1981	15,381	11,129	74
1982	19,532	21,403	75
1983	40,062	34,013	77
1984	67,017	81,823	81
1985	46,370 ²	34,856	84
1986	38,907 ²	30,575	85
1987	29,008	25,635	86
1988	27,071	40,688	87
1989	11,793	17,986 ³	88
1990	13,739	13,692 ⁴	87
1991	10,452	15,002 ⁵	87

- 1 Include units constructed and sold by Jurong Town Corporation prior to 1982, but exclude those constructed and sold by Housing and Urban Development Company.
- 2 Include middle-income housing units completed by Urban Redevelopment Authority.
- 3 Include 233 HUDC units sold during the year.
- 4 Include 254 HUDC units sold during the year.
- 5 Include 76 HUDC units sold during the year.
- 6 Data for 1990 and 1991 refer to resident population.

Source : Housing & Development Board
Jurong Town Corporation
Housing & Urban Development Company

8.18 CONTRACTS AWARDED BY SECTOR AND TYPE OF WORK, 1981-1991

Million Dollars

Sector / Type of Work	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Both Sectors	6,638.84	9,222.50	9,609.87	6,962.60	4,836.35	3,897.69	4,040.16	3,390.70	5,500.56	8,034.30	7,720.20
Building Work	5,711.68	8,437.07	7,983.50	4,682.36	2,871.78	2,273.18	2,903.56	2,709.91	4,296.51	6,838.75	6,443.66
Residential	2,912.23	3,942.73	3,876.77	2,720.99	1,672.59	1,492.42	1,638.75	1,585.92	1,736.99	2,695.25	2,620.56
Commerical	1,180.30	2,941.71	2,377.80	513.04	223.94	105.05	145.54	256.18	967.35	2,050.16	1,754.74
Industrial	835.06	966.93	699.72	455.08	160.91	135.40	540.90	410.65	893.09	1,004.23	1,166.34
Others	784.09	585.70	1,029.21	993.25	814.34	540.31	578.37	457.16	699.08	1,089.11	902.02
Civil Engineering Work	927.16	785.43	1,626.37	2,280.24	1,964.57	1,624.51	1,136.60	680.79	1,204.05	1,195.55	1,276.54
Private Sector	2,809.37	4,538.97	4,151.03	1,493.54	683.93	385.09	1,264.47	1,586.52	2,689.89	4,337.54	3,897.68
Building Work	2,809.37	4,538.97	4,151.03	1,493.54	683.93	380.92	1,255.37	1,449.83	2,655.12	4,275.22	3,882.50
Residential	1,222.48	1,566.54	1,305.09	626.88	353.69	154.57	572.95	812.85	841.86	1,240.96	1,092.63
Commerical	900.46	2,295.95	2,231.04	386.37	121.06	50.58	89.30	222.88	903.07	1,930.54	1,704.57
Industrial	582.99	624.69	542.84	413.15	152.41	124.05	503.87	338.50	728.64	766.75	969.84
Others	103.44	51.79	72.06	67.14	56.77	51.72	89.25	75.60	181.55	336.97	115.46
Civil Engineering Work	-	-	-	-	-	4.17	9.10	136.69	34.77	62.32	15.18
Public Sector	3,829.47	4,683.53	5,458.84	5,469.06	4,152.42	3,512.60	2,775.69	1,804.18	2,810.67	3,696.76	3,822.52
Building Work	2,902.31	3,898.10	3,832.47	3,188.82	2,187.85	1,892.26	1,648.19	1,260.08	1,641.39	2,563.53	2,561.16
Residential	1,689.75	2,376.19	2,571.68	2,094.11	1,318.90	1,337.85	1,065.80	773.07	895.13	1,454.29	1,527.93
Commerical	279.84	645.76	146.76	126.67	102.88	54.47	56.24	33.30	64.28	119.62	50.17
Industrial	252.07	342.24	156.88	41.93	8.50	11.35	37.03	72.15	164.45	237.48	196.50
Others	680.65	533.91	957.15	926.11	757.57	488.59	489.12	381.56	517.53	752.14	786.56
Civil Engineering Work	927.16	785.43	1,626.37	2,280.24	1,964.57	1,620.34	1,127.50	544.10	1,169.28	1,133.23	1,261.36

Source : Ministry of National Development
Urban Redevelopment Authority
with effect from September 1989

8.19 PROGRESS PAYMENTS CERTIFIED BY SECTOR AND TYPE OF WORK, 1981-1991

Million Dollars

Sector / Type of Work	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Both Sectors	4,171.65	6,157.82	8,193.26	8,503.16	6,647.25	5,422.02	4,677.76	3,942.00	4,314.30	4,916.41	6,713.95
Building Work	3,220.89	5,181.91	7,187.23	7,309.68	5,270.95	3,412.78	2,658.74	2,685.17	3,254.77	3,950.09	5,477.12
Residential	1,219.01	2,330.35	3,988.87	4,125.72	2,832.55	1,835.62	1,476.43	1,409.11	1,517.27	1,673.25	2,261.40
Commercial	605.14	1,022.80	1,608.78	1,683.00	1,171.03	562.45	337.71	215.73	501.80	787.86	1,287.64
Industrial	809.41	1,134.04	890.14	717.88	388.94	217.34	299.13	534.61	602.37	891.06	1,114.74
Others	587.33	694.72	699.44	783.08	878.43	797.37	545.47	525.72	633.33	597.92	813.34
Civil Engineering Work	950.76	975.91	1,006.03	1,193.48	1,376.30	2,009.24	2,019.02	1,256.83	1,059.53	966.32	1,236.83
Private Sector	1,691.53	2,526.86	3,266.95	3,366.26	2,335.65	1,173.91	925.59	1,291.53	1,987.25	2,400.29	3,373.80
Building Work	1,691.53	2,526.86	3,266.95	3,366.26	2,335.65	1,168.88	909.74	1,237.37	1,787.83	2,325.81	3,277.17
Residential	552.12	891.51	1,242.42	1,324.13	955.74	438.60	362.06	513.48	719.50	821.62	965.18
Commercial	460.54	749.37	1,308.98	1,391.89	974.80	466.47	203.36	165.57	463.43	707.69	1,204.52
Industrial	620.44	811.18	641.10	555.53	348.92	207.20	279.65	489.20	525.90	690.67	928.87
Others	58.43	74.80	74.45	94.71	56.19	56.61	64.67	69.12	79.00	105.83	178.60
Civil Engineering Work	-	-	-	-	-	5.03	15.85	54.16	199.42	74.48	96.63
Public Sector	2,480.12	3,630.96	4,926.31	5,136.90	4,311.60	4,248.11	3,752.17	2,650.47	2,327.05	2,516.12	3,340.15
Building Work	1,529.36	2,655.05	3,920.28	3,943.42	2,935.30	2,243.90	1,749.00	1,447.80	1,466.94	1,624.28	2,199.95
Residential	666.89	1,438.84	2,746.45	2,801.59	1,876.81	1,397.02	1,114.37	895.63	797.77	851.63	1,296.22
Commercial	144.60	273.43	299.80	291.11	196.23	95.98	134.35	50.16	38.37	80.17	83.12
Industrial	188.97	322.86	249.04	162.35	40.02	10.14	19.48	45.41	76.47	200.39	185.87
Others	528.90	619.92	624.99	688.37	822.24	740.76	480.80	456.60	554.33	492.09	634.74
Civil Engineering Work	950.76	975.91	1,006.03	1,193.48	1,376.30	2,004.21	2,003.17	1,202.67	860.11	891.84	1,140.20

Source : Ministry of National Development
Urban Redevelopment Authority
with effect from September 1989

9 COMMERCE AND SERVICES

The survey of Commerce and Services covers all establishments engaged in the sale of goods and services to the public. It includes the sale of goods and services by retail and wholesale traders, restaurants, hotels, and other establishments. The survey also covers the provision of services by hotels, restaurants, and other establishments. The survey is conducted annually and is one of the largest surveys conducted in Singapore. The data collected from the survey is used to compile the Singapore Yearbook of Statistics and to provide information to the Government and the public. The survey is conducted by the Department of Statistics, Singapore.

Definitions

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9 COMMERCE AND SERVICES

The first statistical inquiry on the Services Sector was conducted by the 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 and non-profit organisations engaged in transport, storage and communications, financing, insurance, real estate, business services and community, social and personal services as classified under Major Divisions 7, 8 and 9 of the "Singapore Standard Industrial Classification (SSIC)". 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, financing, stock-broking and insurance services are surveyed by the Monetary Authority of Singapore.

The Survey of Commerce covers all establishments except hawkers and stallholders engaged in wholesale and retail trades, restaurants and hotels as classified under Major Division 6 of the SSIC.

Prior to 1976, both surveys were conducted on a census basis. From 1976, they were sample surveys, except for the years 1983 and 1984, where censuses of commerce and services were respectively taken again. 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, organisation or enterprise. However, a consolidated return is allowed if the accounts are so kept that it is not possible for the respondent to comply.

Definitions

Establishment : Refers to a business or organisation 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 organisations, operating surplus refers only to depreciation of fixed assets.

Value Added : Comprises the value of operating surplus, remuneration and indirect taxes. However, for financing and insurance services, value added is computed on a different basis. For the Monetary Authority of Singapore, Board of Commissioners of Currency, Central Provident Fund Board and investment 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, and imputed amount of commissions paid, interest payments and indirect taxes less interest and 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 first started in 1985. The survey covers a sample of retail establishments which are defined as those selling merchandise directly to the consumers and catering

establishments which 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 selling cooked food and prepared drinks are not considered as catering establishments.

For the compilation of indices of restaurant sales, administrative data on cess collection on food and beverages levied by the Singapore Tourist Promotion Board are used.

The overall indices are compiled by assigning weights to the key establishments based on their turnover in the base year. Two series of the indices are compiled and presented, one in current prices and the other in constant prices for which the effects of price changes are discounted. The base year of the index is 1987.

Further information on the concepts and methodology and detailed statistics 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".

9.1 PRINCIPAL STATISTICS OF THE COMMERCE SECTOR BY INDUSTRY, 1985-1989

Year	Establishments	Employment	Remuneration	Turnover	Operating Expenditure	Operating Surplus	Value Added
	Number		Million Dollars				
	Total						
1985	34,204	210,136	3,024	75,269	73,992	1,706	4,896
1986	36,621	219,972	2,799	73,873	72,417	1,930	4,866
1987	38,121	227,229	2,956	92,870	90,706	2,692	5,818
1988	41,600	248,504	3,472	111,935	108,770	3,767	7,470
1989	43,455	265,329	4,219	137,901	133,787	4,822	9,290
	Wholesale Trade						
1985	17,082	105,467	2,017	63,769	62,793	1,256	3,355
1986	18,166	103,772	1,813	62,157	61,067	1,368	3,238
1987	18,582	105,023	1,901	79,013	77,455	1,857	3,817
1988	20,448	113,059	2,220	94,510	92,311	2,546	4,834
1989	21,576	123,560	2,735	117,921	115,156	3,183	5,987
	Retail Trade						
1985	14,521	59,590	475	9,462	9,247	274	774
1986	15,503	63,103	451	9,581	9,291	358	843
1987	16,535	66,452	496	11,430	10,950	558	1,114
1988	17,992	73,586	606	14,529	13,820	804	1,510
1989	18,638	74,815	713	16,532	15,625	1,013	1,832
	Restaurants and Hotels						
1985	2,601	45,079	532	2,038	1,952	176	767
1986	2,952	53,097	535	2,135	2,060	204	786
1987	3,004	55,754	559	2,427	2,302	278	887
1988	3,160	61,859	646	2,896	2,640	417	1,127
1989	3,241	66,954	771	3,448	3,006	626	1,471

Note : Figures may not add up to the total due to rounding.

9.2 SELECTED AVERAGES AND RATIOS IN THE COMMERCE SECTOR, 1985-1989

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						
	Thousand Dollars						
Total							
1985	2,201	50	143	23	2.3	4.1	61.8
1986	2,017	53	133	22	2.6	3.9	57.5
1987	2,436	71	153	26	2.9	3.3	50.8
1988	2,691	91	180	30	3.4	3.2	46.5
1989	3,173	111	214	35	3.5	3.2	45.4
Wholesale Trade							
1985	3,733	74	196	32	2.0	3.2	60.1
1986	3,422	75	178	31	2.2	3.0	56.0
1987	4,252	100	205	36	2.4	2.5	49.8
1988	4,622	125	236	43	2.7	2.4	45.9
1989	5,465	148	277	48	2.7	2.4	45.7
Retail Trade							
1985	652	19	53	13	2.9	5.1	61.4
1986	618	23	54	13	3.7	4.9	53.5
1987	691	34	67	17	4.9	4.5	44.5
1988	808	45	84	21	5.5	4.4	40.1
1989	887	54	98	24	6.1	4.6	38.9
Restaurants & Hotels							
1985	784	68	295	17	8.7	27.2	69.3
1986	723	69	266	15	9.6	26.0	68.1
1987	808	92	295	16	11.4	24.3	63.0
1988	916	132	357	18	14.4	24.5	57.4
1989	1,064	193	454	22	18.1	25.6	52.4

9.3 PRINCIPAL STATISTICS OF THE SERVICES SECTOR BY INDUSTRY, 1985-1989

Year	Establishments	Employment	Remuneration	Operating Receipts	Operating Expenditure	Operating Surplus	Value Added
	Number		Million Dollars				
Transport, Storage and Communication Services							
1985	5,331	83,751	1,771	11,256	9,708	2,379	4,333
1986	5,611	87,286	1,736	12,147	10,346	2,851	4,779
1987	5,757	89,263	1,866	13,612	10,908	3,488	5,561
1988	5,958	90,837	2,072	15,081	11,622	4,291	6,592
1989	5,877	96,949	2,486	17,322	13,399	4,827	7,576
Financial and Insurance Services ¹							
1985	3,181	38,480	1,249	44,153	39,399	4,960	4,207
1986	2,417	9,689	233	6,387	3,481	2,960	607
1987	2,341	9,972	246	7,230	3,127	4,151	792
1988	2,454	10,264	288	6,805	3,478	3,392	675
1989	2,632	10,928	318	8,551	5,051	3,584	885
Real Estate and Business Services							
1985	7,534	64,761	1,353	11,308	10,829	2,275	4,014
1986	8,918	70,807	1,267	10,602	8,251	2,739	4,305
1987	8,763	68,946	1,244	8,944	7,167	2,224	3,738
1988	9,469	71,892	1,474	12,821	11,317	1,960	3,720
1989	9,629	75,115	1,787	13,162	10,580	3,043	5,156
Community, Social and Personal Services							
1985	7,324	41,458	454	1,621	1,403	270	753
1986	8,408	47,613	481	1,917	1,635	365	931
1987	8,635	49,630	518	2,335	2,027	398	940
1988	9,538	55,384	602	2,690	2,353	437	1,071
1989	9,800	63,597	840	3,278	2,952	465	1,338
Non-profit Organisations ²							
1985	4,543	33,692	826	296	1,408	46	880
1986	5,192	37,884	769	279	1,446	118	906
1987	4,365	37,726	786	470	1,578	158	969
1988	4,689	39,213	922	564	1,873	169	1,129
1989	4,856	41,898	1,041	774	2,155	186	1,280

¹ Wef 1986, data exclude establishments within the purview of Monetary Authority of Singapore (MAS).

² Wef 1987, data exclude mutual benefit organisations, citizens' consultative committees & residents' committees.

9.4 SELECTED AVERAGES AND RATIOS IN THE SERVICES SECTOR, 1985-1989 (Excluding Non-Profit Organisations)

Year	Operating Receipts	Operating Surplus	Value Added	Value Added Per Person Engaged	Operating Surplus to Operating Receipts	Remuneration to Operating Expenditure	Remuneration to Value Added
	Per Establishment						
	Thousand Dollars				Per Cent		
Total							
1985	2,924	423	569	58	14.5	7.9	36.3
1986	1,225	352	419	49	28.7	15.7	35.0
1987	1,260	402	433	51	31.9	16.7	35.1
1988	1,364	368	440	53	27.0	15.4	36.8
1989	1,515	427	535	61	28.2	17.0	36.3
Transport, Storage & Communication Services							
1985	2,111	446	813	52	21.1	18.2	40.9
1986	2,165	508	852	55	23.5	16.8	36.3
1987	2,364	606	966	62	25.6	17.1	33.6
1988	2,531	720	1,106	73	28.5	17.8	31.4
1989	2,947	821	1,289	78	27.9	18.6	32.8
Financial & Insurance Services ¹							
1985	13,880	1,559	1,323	109	11.2	3.2	29.7
1986	2,643	1,225	251	63	46.3	6.7	38.4
1987	3,088	1,773	338	79	57.4	7.9	31.0
1988	2,773	1,382	275	66	49.8	8.3	42.6
1989	3,249	1,362	336	81	41.9	6.3	35.9
Real Estate & Business Services							
1985	1,501	302	533	62	20.1	12.5	33.7
1986	1,189	307	483	61	25.8	15.4	29.4
1987	1,021	254	427	54	24.9	17.4	33.3
1988	1,354	207	393	52	15.3	13.0	39.6
1989	1,367	316	536	69	23.1	16.9	34.7
Community, Social & Personal Services							
1985	221	37	103	18	16.7	32.4	60.3
1986	228	43	111	20	19.0	29.4	51.7
1987	270	46	109	19	17.0	25.5	55.1
1988	282	46	112	19	16.2	25.6	56.2
1989	335	47	137	21	14.2	28.5	62.8

¹ Wef 1986, data exclude establishments within the purview of MAS.

9.5 RETAIL SALES INDEX, 1988-1991

(1987 = 100)

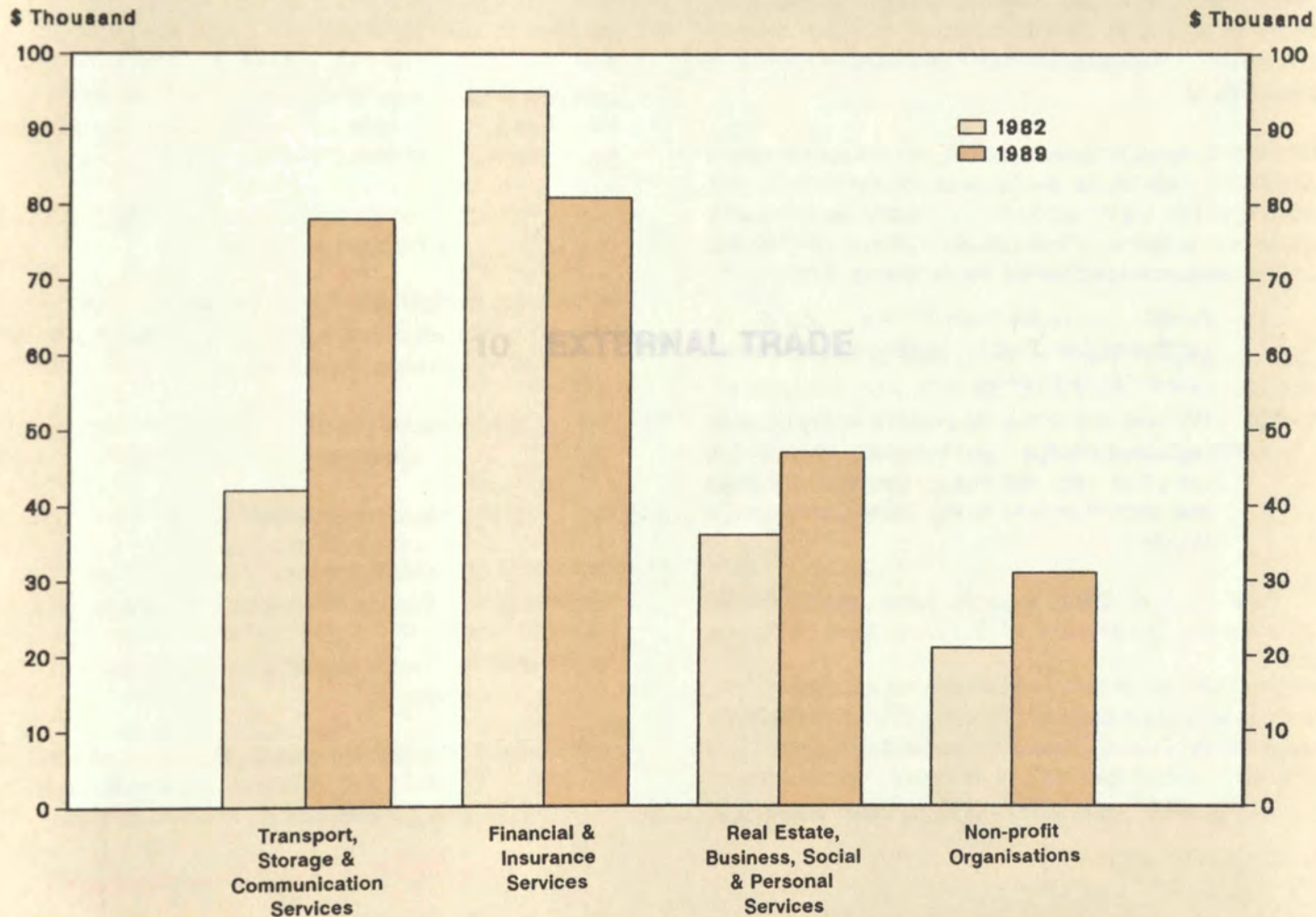
		Total	Textiles & Personal Effects	Furniture & Household Equipment	Motor Vehicles	Petrol Service Stations	Department Stores & Supermarkets	Provision & Sundry Shops	Others
Period	Weights	10,000	1,718	1,130	1,310	697	2,361	1,055	1,729
Current Price Index									
1988		128.8	115.1	102.5	250.6	94.5	118.0	97.7	114.7
1989		145.0	121.9	109.4	315.5	114.2	133.3	93.4	121.9
1990		148.5	130.7	117.0	297.9	137.2	137.0	97.5	124.9
1991		149.1	117.4	124.4	307.0	149.6	136.7	99.0	124.3
Constant Price Index									
1988		125.0	115.8	101.9	229.1	100.0	114.7	95.2	112.4
1989		139.1	129.4	109.0	284.1	108.7	127.2	87.9	118.5
1990		132.2	143.9	116.8	269.7	112.7	130.1	90.2	120.5
1991		144.2	132.3	123.6	295.9	118.0	127.6	92.7	119.4

9.6 SALES INDEX OF CATERING TRADE, 1988-1991 (1987 = 100)

		Total	Restaurants	Fast Food Outlets	Other Eating Places
Period	Weights	1,000	602	112	286
Current Price Index					
1988		114.2	116.6	120.8	106.7
1989		128.9	133.1	136.4	116.9
1990		139.7	143.7	156.8	124.8
1991		145.3	147.5	166.9	132.0
Constant Price Index					
1988		113.2	114.9	120.8	106.5
1989		124.5	127.4	134.9	114.4
1990		131.1	133.0	149.5	120.1
1991		133.8	134.2	153.5	125.3

CHART 10

VALUE ADDED PER PERSON ENGAGED IN THE SERVICES SECTOR, 1982 AND 1989



10 EXTERNAL TRADE

10 EXTERNAL TRADE

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 Telecom Postal Services; 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 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 \$300;
- (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.

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 without any transformation. Re-packing, splitting into lots, sorting or grading, marking, etc are not considered as undergoing the process of transformation.

Trade at 1985 Prices : This is obtained by adjusting the recorded value of trade using import/export price indices with base year 1985 = 100. The series on trade at 1985 prices indicate the true level of trade free of 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 1989, the trade classification adopted for documenting Singapore external trade is the

1989 Singapore Trade Classification and Customs Duties, which is based on the Harmonized System (HS). 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.

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

10.1 EXTERNAL TRADE BY TYPE, 1981-1991

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
At Current Prices											
Total Trade	102,538.8	104,717.4	105,659.1	112,473.6	107,996.3	104,530.9	128,680.9	167,278.0	183,980.2	205,011.9	216,074.4
Exports	44,290.8	44,472.8	46,154.9	51,340.0	50,178.8	48,985.5	60,265.7	79,051.3	87,116.5	95,206.0	101,879.5
Oil	17,124.0	17,931.3	16,010.3	16,179.3	16,452.2	12,361.2	12,198.0	12,352.8	13,443.0	17,295.1	17,371.0
Non-oil	27,166.8	26,541.5	30,144.6	35,160.7	33,726.6	36,624.3	48,067.7	66,698.5	73,673.5	77,910.9	84,508.5
Domestic Exports	29,452.0	29,157.8	29,206.4	33,051.2	32,575.5	32,062.4	39,070.6	49,555.2	55,251.7	62,754.1	66,031.1
Oil	16,778.0	17,161.2	15,233.6	15,743.8	15,840.1	11,980.3	11,753.5	11,341.0	13,223.9	17,136.6	17,201.8
Non-oil	12,674.0	11,996.6	13,972.8	17,307.4	16,735.4	20,082.1	27,317.1	38,214.2	42,027.8	45,617.5	48,829.3
Re-exports	14,838.8	15,315.0	16,948.5	18,288.8	17,603.3	16,923.1	21,195.1	29,496.1	31,864.8	32,451.9	35,848.4
Imports	58,248.0	60,244.6	59,504.2	61,133.6	57,817.5	55,545.4	68,415.2	88,226.7	96,863.7	109,805.9	114,194.9
Oil	19,831.1	20,479.6	18,611.7	16,961.4	17,031.0	10,994.5	12,525.6	12,422.2	13,407.5	17,398.8	16,050.2
Non-oil	38,416.9	39,765.0	40,892.5	44,172.3	40,786.5	44,550.9	55,889.6	75,804.5	83,456.2	92,407.1	98,144.7
At 1985 Prices											
Total Trade	91,840.2	96,693.1	102,440.4	110,500.6	107,996.5	123,013.9	136,631.9	177,508.7	191,967.1	216,018.8	237,230.2
Exports	39,130.0	40,282.9	43,988.3	50,303.5	50,179.1	58,661.7	65,997.4	87,103.1	94,496.0	104,026.7	115,382.8
Oil	13,267.3	14,417.8	14,640.2	15,863.8	16,452.3	21,815.4	18,853.3	22,967.0	22,170.7	24,347.3	27,261.4
Non-oil	25,862.7	25,865.1	29,348.1	34,439.7	33,726.8	36,846.3	47,144.1	64,136.1	72,325.3	79,679.4	88,121.4
Domestic Exports	25,500.2	25,597.3	27,729.6	32,874.8	32,575.7	41,710.0	46,093.9	60,310.3	65,615.1	73,408.4	81,221.8
Oil	12,980.2	13,730.5	13,861.5	15,415.2	15,840.3	21,097.6	18,181.8	21,032.3	21,791.6	24,090.3	26,951.8
Non-oil	12,520.0	11,866.8	13,868.2	17,459.6	16,735.4	20,612.4	27,912.1	39,278.0	43,823.5	49,318.1	54,270.0
Re-exports	13,629.8	14,685.5	16,258.7	17,428.7	17,603.4	16,951.7	19,903.3	26,792.8	28,880.9	30,618.3	34,161.0
Imports	52,710.2	56,410.2	58,452.1	60,197.1	57,817.4	64,352.2	70,634.5	90,405.6	97,471.1	111,992.1	121,847.4
Oil	16,410.5	18,204.8	18,531.0	17,481.0	17,031.1	21,051.3	18,996.1	24,092.6	22,740.4	25,866.4	29,248.7
Non-oil	36,299.8	38,205.4	39,921.2	42,716.2	40,786.3	43,300.9	51,638.4	66,313.0	74,730.7	86,125.7	92,598.7

Note : Figures may not add up to the total due to rounding.

Source : Trade Development Board
with effect from April 1987

10.2 TOTAL TRADE BY COUNTRY/AREA, 1981-1991

Million Dollars

Country/Area	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	102,538.8	104,717.4	105,659.1	112,473.6	107,996.3	104,530.9	128,680.9	167,278.0	183,980.2	205,011.9	216,074.4
America	15,294.0	15,437.0	19,333.1	21,180.7	21,295.3	21,698.2	27,085.6	35,955.0	40,529.2	41,952.9	42,739.1
Brazil	250.7	306.5	250.5	331.5	301.7	286.5	382.7	690.7	696.0	667.8	693.0
Canada	665.1	505.1	564.3	703.6	553.3	590.5	839.3	1,252.4	1,289.7	1,466.3	1,473.0
United States ¹	13,205.1	13,368.7	17,379.2	19,214.6	19,394.4	19,750.7	24,731.0	32,544.4	36,896.1	37,826.0	38,132.6
Asia	67,030.1	68,647.2	66,999.9	70,331.5	65,481.1	62,374.1	76,693.1	98,528.7	106,568.3	120,068.9	129,810.1
Bahrain	746.5	981.1	577.3	528.3	276.5	459.1	579.3	553.2	470.0	523.7	406.4
Bangladesh	625.9	589.7	538.3	617.0	716.7	535.6	550.4	659.2	673.0	797.1	720.9
Brunei	1,373.7	1,246.7	1,150.4	1,042.5	1,174.7	981.7	984.1	1,058.2	1,049.1	1,211.4	1,277.0
China, Peo Rep	2,007.1	2,397.7	2,197.0	3,400.4	5,701.9	4,353.4	4,522.6	5,754.2	5,645.3	5,216.8	5,323.5
Hong Kong	4,974.4	5,002.3	4,400.9	4,457.5	4,279.9	4,493.0	5,616.7	7,375.2	8,244.2	9,551.4	10,780.1
India	1,474.4	1,559.8	1,656.9	883.7	1,557.8	1,376.3	1,695.7	2,014.2	2,415.7	2,666.9	2,449.9
Iran (Islamic Rep)	961.8	2,480.9	2,029.9	1,457.8	3,348.2	2,826.4	1,125.9	1,019.9	958.0	1,058.2	1,123.6
Japan	15,445.0	15,634.9	14,968.4	16,024.6	14,591.9	15,256.6	19,478.6	26,192.3	28,117.1	30,447.7	33,206.0
Korea, Rep of	1,282.8	1,422.2	1,868.6	1,598.2	1,549.8	1,991.6	2,832.3	4,093.9	4,583.5	5,326.0	5,648.8
Kuwait	2,248.9	1,169.0	1,687.5	2,192.5	1,252.1	2,183.0	1,680.4	1,095.1	1,301.1	940.1	95.2
Malaysia	14,116.1	15,924.5	16,760.1	17,503.9	16,087.7	14,647.2	18,037.0	23,649.8	24,698.8	27,412.0	32,618.6
Pakistan	373.9	311.8	306.4	516.2	593.3	308.2	359.0	413.9	460.0	655.1	639.9
Philippines	807.4	911.0	1,161.0	836.0	916.0	940.9	1,252.9	1,573.4	1,825.3	1,782.5	1,650.8
Saudi Arabia	11,836.1	10,683.8	7,482.3	7,051.0	2,622.7	1,852.5	3,414.3	4,428.8	5,133.6	6,362.1	6,647.1
Sri Lanka	412.3	678.5	658.1	405.1	519.6	414.4	460.2	555.0	507.6	460.3	478.6
Taiwan	1,881.7	1,885.7	2,289.0	2,827.4	2,777.3	3,341.3	4,780.2	6,231.6	6,994.8	8,099.4	8,302.4
Thailand	2,862.2	2,839.8	3,062.9	3,809.0	3,288.8	3,394.5	4,690.0	6,697.5	7,249.0	9,284.4	10,029.4
United Arab Emirates	1,623.1	1,165.5	1,845.5	1,849.6	1,984.3	1,078.5	1,566.5	1,797.4	2,369.6	3,485.6	3,255.8
Europe	12,942.7	13,163.6	12,987.4	14,319.7	14,508.4	14,608.1	18,862.3	25,275.2	28,718.5	34,064.3	34,301.8
France	1,764.0	1,795.8	1,712.1	1,660.3	2,091.7	1,685.2	2,336.3	2,898.5	3,536.8	4,201.6	4,122.6
Germany, Fed Rep ²	2,736.6	2,887.1	2,691.4	2,894.2	2,700.4	3,367.8	4,311.9	6,012.7	6,704.2	7,723.4	7,912.2
Italy	957.4	951.1	1,210.6	1,437.0	1,378.7	1,239.2	1,616.9	2,459.8	2,747.8	2,993.1	2,535.0
Netherlands	1,194.9	1,211.3	1,043.9	1,121.3	1,189.4	1,247.6	1,627.6	2,044.7	2,312.0	2,998.3	3,624.2
Switzerland	496.7	515.0	555.4	555.2	516.3	641.7	852.4	1,188.0	1,263.8	1,724.0	1,824.5
United Kingdom	2,793.5	2,613.1	2,697.9	2,968.9	3,067.4	3,170.3	3,888.2	4,863.5	5,642.5	6,406.7	6,367.3
USSR	440.1	640.3	477.8	846.6	560.6	362.1	477.5	445.9	628.8	769.8	872.3
Oceania	4,758.3	4,977.3	3,962.8	4,727.2	4,900.8	3,723.4	4,097.4	5,094.7	5,580.3	6,131.8	6,279.9
Australia ³	3,011.3	3,195.5	2,502.7	3,278.9	3,185.2	2,483.6	2,963.0	3,885.7	4,187.8	4,464.1	4,665.7
New Zealand	794.8	891.8	607.1	621.9	857.7	543.5	460.1	576.2	528.8	616.2	601.5
Africa	2,513.7	2,492.3	2,375.9	1,914.5	1,810.7	2,127.1	1,942.5	2,424.4	2,583.9	2,794.0	2,943.3

1 Prior to 1986, USA included Puerto Rico.

2 Figures from Oct 1990, include the former German Democratic Republic.

3 Prior to 1989, Australia included Christmas Island.

Source : Trade Development Board

with effect from April 1987

10.3 IMPORTS BY COUNTRY/AREA, 1981-1991

Million Dollars

Country/Area	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	58,248.0	60,244.6	59,504.2	61,133.6	57,817.5	55,545.4	68,415.2	88,226.7	96,863.7	109,805.9	114,194.9
America	7,958.0	8,593.4	9,585.6	9,605.8	9,289.4	8,925.4	10,847.1	15,191.3	18,279.5	19,563.5	20,143.6
Brazil	131.4	212.8	147.8	186.4	163.6	143.2	225.3	464.0	510.7	538.6	502.1
Canada	276.7	220.2	219.2	318.2	195.4	225.0	355.3	536.1	515.3	648.5	692.9
United States ¹	7,356.4	7,775.4	9,005.5	8,922.9	8,775.4	8,314.4	10,056.6	13,718.4	16,605.3	17,580.5	18,029.6
Asia	41,095.5	41,340.5	40,218.7	41,558.6	38,188.1	36,654.0	45,392.1	57,243.9	60,901.6	69,551.3	73,779.3
Bahrain	675.3	900.4	499.5	455.4	197.4	410.7	520.3	487.2	413.1	480.9	349.3
Bangladesh	30.4	21.4	17.1	43.1	52.1	29.3	90.0	92.9	80.0	83.3	93.7
Brunei	691.1	477.6	404.4	415.4	536.6	298.1	276.6	225.1	146.2	233.8	321.0
China, Peo Rep	1,629.8	1,881.0	1,747.2	2,881.1	4,971.7	3,109.6	2,975.8	3,385.6	3,310.8	3,773.4	3,838.8
Hong Kong	1,093.0	1,261.3	1,268.9	1,281.3	1,082.5	1,310.1	1,801.8	2,431.5	2,738.8	3,365.3	3,433.6
India	280.7	408.2	733.5	470.4	488.8	348.5	525.5	534.1	591.7	676.8	722.7
Iran (Islamic Rep)	753.4	1,931.1	1,208.3	733.0	2,474.5	2,062.6	973.2	803.7	789.1	842.1	868.7
Japan	10,957.4	10,791.0	10,724.0	11,217.9	9,869.7	11,052.2	14,029.3	19,364.5	20,669.4	22,146.2	24,369.6
Korea, Rep of	661.3	743.8	904.0	784.0	930.3	1,288.6	1,837.2	2,542.1	2,898.5	3,217.9	3,241.0
Kuwait	1,995.4	948.3	1,545.5	1,882.7	983.7	2,098.1	1,557.7	922.0	1,122.5	842.6	8.2
Malaysia	7,209.5	8,065.6	8,638.8	9,179.7	8,301.0	7,402.6	9,477.4	12,928.7	12,784.0	14,963.5	17,382.5
Pakistan	125.3	94.2	120.8	60.9	60.3	78.1	82.9	89.3	122.5	153.7	187.7
Philippines	226.7	218.9	271.3	395.0	437.4	401.6	375.6	528.9	530.9	567.4	475.0
Saudi Arabia	10,771.5	9,408.3	6,507.6	5,687.5	2,034.2	1,369.0	2,835.6	3,873.2	4,657.5	5,862.5	5,864.0
Sri Lanka	53.2	254.4	155.9	28.9	94.8	35.8	61.3	71.7	61.8	58.5	80.1
Taiwan	1,275.1	1,309.9	1,601.5	1,997.8	1,922.1	2,244.1	3,143.5	3,996.7	4,372.8	4,677.6	4,681.4
Thailand	997.6	1,131.8	1,068.2	1,350.9	1,196.3	1,606.8	2,136.5	2,386.3	2,443.3	2,974.1	3,628.8
United Arab Emirates	899.5	809.9	1,418.6	1,403.2	1,547.1	687.5	1,128.6	1,274.1	1,750.9	2,677.3	2,220.2
Europe	7,089.2	7,822.0	7,602.4	7,767.8	7,956.5	8,126.5	10,135.3	13,082.3	14,906.8	17,510.2	17,066.1
France	967.6	1,124.6	1,050.1	1,022.7	1,327.7	971.6	1,415.9	1,586.2	2,167.4	2,645.6	2,932.5
Germany, Fed Rep ²	1,610.4	1,912.4	1,619.7	1,667.2	1,574.4	1,829.0	2,359.4	3,265.0	3,505.2	3,898.5	3,649.5
Italy	543.0	589.5	766.6	905.5	832.9	740.3	921.4	1,317.2	1,574.4	1,733.0	1,571.8
Netherlands	462.6	452.1	507.2	492.7	550.9	499.8	513.2	687.3	911.8	965.7	1,004.1
Switzerland	378.3	418.1	433.5	433.7	397.8	506.1	649.2	928.1	1,003.4	1,284.9	1,052.0
United Kingdom	1,742.9	1,708.4	1,644.2	1,596.0	1,691.8	1,886.4	2,174.8	2,561.8	2,715.5	3,375.7	3,285.5
USSR	96.8	175.6	98.3	86.4	28.9	78.4	84.0	185.6	251.7	172.7	332.2
Oceania	1,507.1	1,667.4	1,404.6	1,787.1	1,838.8	1,229.3	1,572.2	2,067.9	1,885.4	2,406.4	2,468.6
Australia ³	1,212.1	1,403.9	1,125.7	1,503.9	1,533.0	968.4	1,313.3	1,744.0	1,637.5	2,127.2	2,149.2
New Zealand	225.1	221.4	180.7	221.7	264.1	202.3	221.6	305.1	218.9	247.7	275.1
Africa	598.2	821.3	692.9	414.3	544.7	610.2	468.5	641.3	890.4	774.5	737.2

Note : See notes to Table 10.2

Source : Trade Development Board
with effect from April 1987

10.4 EXPORTS BY COUNTRY/AREA, 1981-1991

Million Dollars

Country/Area	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	44,290.8	44,472.8	46,154.9	51,340.0	50,178.8	48,985.5	60,265.7	79,051.3	87,116.5	95,206.0	101,879.5
America	7,336.0	6,843.6	9,747.5	11,574.9	12,005.9	12,772.8	16,238.5	20,763.7	22,249.7	22,389.4	22,595.5
Brazil	119.3	93.7	102.7	145.1	138.1	143.3	157.4	226.7	185.3	129.2	190.9
Canada	388.4	284.9	345.1	385.4	357.9	365.5	484.0	716.3	774.4	817.8	780.1
United States ¹	5,848.7	5,593.3	8,373.7	10,291.7	10,619.0	11,436.3	14,674.4	18,826.0	20,290.8	20,245.5	20,103.0
Asia	25,934.6	27,306.7	26,781.2	28,772.9	27,293.0	25,720.1	31,301.0	41,284.8	45,666.7	50,517.6	56,030.8
Bahrain	71.2	80.7	77.8	72.9	79.1	48.4	59.0	66.0	56.9	42.8	57.1
Bangladesh	595.5	568.3	521.2	573.9	664.6	506.3	460.4	566.3	593.0	713.8	627.2
Brunei	682.6	769.1	746.0	627.1	638.1	683.6	707.5	833.1	902.9	977.6	956.0
China, Peo Rep	377.3	516.7	449.8	519.3	730.2	1,243.8	1,546.8	2,368.6	2,334.5	1,443.4	1,484.7
Hong Kong	3,881.4	3,741.0	3,132.0	3,176.2	3,197.4	3,182.9	3,814.9	4,943.7	5,505.4	6,186.1	7,346.5
India	1,193.7	1,151.6	923.4	413.3	1,069.0	1,027.8	1,170.2	1,480.1	1,824.0	1,990.1	1,727.2
Iran (Islamic Rep)	208.4	549.8	821.6	724.8	873.7	763.8	152.7	216.2	168.9	216.1	254.9
Japan	4,487.6	4,843.9	4,244.4	4,806.7	4,722.2	4,204.4	5,449.3	6,827.8	7,447.7	8,301.5	8,836.4
Korea, Rep of	621.5	678.4	964.6	814.2	619.5	703.0	995.1	1,551.8	1,685.0	2,108.1	2,407.8
Kuwait	253.5	220.7	142.0	309.8	268.4	84.9	122.7	173.1	178.6	97.5	87.0
Malaysia	6,906.6	7,858.9	8,121.3	8,324.2	7,786.7	7,244.6	8,559.6	10,721.1	11,914.8	12,448.5	15,236.1
Pakistan	248.6	217.6	185.6	455.3	533.0	230.1	276.1	324.6	337.5	501.4	452.2
Philippines	580.7	692.1	889.7	441.0	478.6	539.3	877.3	1,044.5	1,294.4	1,215.1	1,175.8
Saudi Arabia	1,064.6	1,275.5	974.7	1,363.5	588.5	483.5	578.7	555.6	476.1	499.6	783.1
Sri Lanka	359.1	424.1	502.2	376.2	424.8	378.6	398.9	483.3	445.8	401.8	398.5
Taiwan	606.6	575.8	687.5	829.6	855.2	1,097.2	1,636.7	2,234.9	2,622.0	3,421.8	3,621.0
Thailand	1,864.6	1,708.0	1,994.7	2,458.1	2,092.5	1,787.7	2,553.5	4,311.2	4,805.7	6,310.3	6,400.6
United Arab Emirates	723.6	355.6	426.9	446.4	437.2	391.0	437.9	523.3	618.7	808.3	1,035.6
Europe	5,853.5	5,341.6	5,385.0	6,551.9	6,551.9	6,481.6	8,727.0	12,192.9	13,811.7	16,554.1	17,235.7
France	796.4	671.2	662.0	637.6	764.0	713.6	920.4	1,312.3	1,369.4	1,556.0	1,190.1
Germany, Fed Rep ²	1,126.2	974.7	1,071.7	1,227.0	1,126.0	1,538.8	1,952.5	2,747.7	3,199.0	3,824.9	4,262.7
Italy	414.4	361.6	444.0	531.5	545.8	498.9	695.5	1,142.6	1,173.4	1,260.1	963.2
Netherlands	732.3	759.2	536.7	628.6	638.5	747.8	1,114.4	1,357.4	1,400.2	2,032.6	2,620.1
Switzerland	118.4	96.9	121.9	121.5	118.5	135.6	203.2	259.9	260.4	439.1	772.5
United Kingdom	1,050.6	904.7	1,053.7	1,372.9	1,375.6	1,283.9	1,713.4	2,301.7	2,927.0	3,031.0	3,081.8
USSR	343.3	464.7	379.5	760.2	531.7	283.7	393.5	260.3	377.1	597.1	540.1
Oceania	3,251.2	3,309.9	2,558.2	2,940.1	3,062.0	2,494.1	2,525.2	3,026.8	3,694.9	3,725.4	3,811.3
Australia ³	1,799.2	1,791.6	1,377.0	1,775.0	1,652.2	1,515.2	1,649.7	2,141.7	2,550.3	2,336.9	2,516.5
New Zealand	569.7	670.4	426.4	400.2	593.6	341.2	238.5	271.1	309.9	368.5	326.4
Africa	1,915.5	1,671.0	1,683.0	1,500.2	1,266.0	1,516.9	1,474.0	1,783.1	1,693.5	2,019.5	2,206.1

Note : See notes to Table 10.2

Source : Trade Development Board
with effect from April 1987

10.5 DOMESTIC EXPORTS BY COUNTRY/AREA, 1981-1991

Million Dollars

Country/Area	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	29,452.0	29,157.8	29,206.4	33,051.2	32,575.5	32,062.4	39,070.6	49,555.2	55,251.7	62,754.1	66,031.1
America	5,227.1	5,017.8	6,909.6	8,695.1	8,936.1	10,200.7	13,163.3	16,835.5	17,812.8	18,159.4	18,072.1
Brazil	21.0	40.1	39.8	60.6	65.2	49.7	39.2	36.6	56.7	41.6	85.5
Canada	164.1	134.6	187.9	207.3	208.6	246.6	339.2	545.7	564.6	573.0	528.8
United States ¹	4,397.0	4,196.2	6,018.7	7,920.3	8,159.3	9,494.7	12,240.0	15,616.4	16,534.7	16,672.8	16,455.3
Asia	16,532.7	16,809.5	15,829.7	16,696.6	16,264.9	15,102.2	17,732.3	21,967.3	24,945.7	29,365.0	31,872.2
Bahrain	40.8	43.3	39.1	34.1	44.3	25.7	39.2	42.7	31.3	24.3	33.9
Bangladesh	446.1	454.7	226.2	416.4	485.7	311.0	273.3	229.1	201.4	409.4	401.8
Brunei	283.3	315.1	281.7	215.9	226.7	235.4	237.0	261.7	262.8	299.7	275.4
China, Peo Rep	114.1	117.6	117.6	194.4	398.8	858.4	1,058.7	1,350.8	1,536.9	867.3	880.0
Hong Kong	3,249.0	2,751.0	2,252.2	2,302.7	2,057.9	2,108.3	2,540.6	3,224.2	3,798.8	4,303.4	4,803.3
India	881.3	840.5	573.6	1,042.8	667.6	527.9	580.9	652.2	740.3	819.6	1,012.0
Iran (Islamic Rep)	93.6	505.0	719.5	614.0	742.1	696.7	82.0	134.7	60.9	61.5	119.7
Japan	3,968.4	4,253.1	3,503.9	3,964.7	3,860.2	3,302.5	4,149.1	4,875.9	5,559.2	6,210.8	6,034.7
Korea, Rep of	343.3	449.5	711.2	547.2	371.7	427.4	641.7	939.7	992.9	1,298.6	1,470.9
Kuwait	188.2	123.0	87.8	99.4	62.6	51.3	73.9	112.0	107.6	51.0	60.3
Malaysia	2,915.9	3,618.4	3,605.3	3,533.4	3,773.3	3,266.1	3,407.0	3,986.1	4,518.9	5,265.2	6,819.1
Pakistan	81.7	64.2	63.7	86.4	82.4	89.5	114.1	117.6	118.9	281.5	182.3
Philippines	292.4	411.6	609.9	217.4	268.7	316.0	492.5	492.1	646.8	675.3	668.1
Saudi Arabia	532.6	510.0	560.0	408.5	300.7	257.6	302.4	268.4	232.2	277.3	443.5
Sri Lanka	180.6	251.0	290.4	145.4	183.5	107.0	138.6	158.2	169.4	130.6	155.1
Taiwan	324.2	293.6	330.5	462.6	513.4	655.6	976.9	1,224.2	1,567.4	2,313.8	2,240.9
Thailand	1,393.4	1,154.6	1,279.8	1,726.1	1,424.1	1,197.1	1,759.4	2,753.1	3,277.0	4,583.0	4,488.2
United Arab Emirates	539.0	179.4	175.7	211.3	222.9	184.2	240.8	265.6	290.5	389.3	421.1
Europe	3,779.4	3,567.4	3,493.1	4,363.7	4,145.1	4,072.7	5,616.8	7,979.1	9,155.7	11,571.8	12,406.4
France	540.3	501.9	466.8	418.8	387.0	447.3	624.9	952.7	1,005.6	1,180.8	867.9
Germany, Fed Rep ²	827.2	721.9	767.0	880.6	798.2	1,073.3	1,329.7	1,848.3	2,321.1	2,816.7	3,141.7
Italy	269.2	254.4	344.3	444.8	456.1	371.8	516.1	914.0	933.9	998.5	713.0
Netherlands	410.5	516.8	239.1	253.8	370.7	346.2	698.1	812.7	770.5	1,320.4	1,921.1
Switzerland	78.1	70.8	86.6	76.3	73.5	80.8	93.8	145.6	127.6	268.1	607.4
United Kingdom	752.8	648.1	750.8	1,057.5	1,026.7	853.6	1,147.1	1,661.2	2,054.5	2,255.4	2,350.7
USSR	92.6	143.2	180.2	514.6	328.2	153.9	147.4	180.3	175.4	304.8	256.4
Oceania	2,760.3	2,695.7	2,005.0	2,305.8	2,475.8	1,922.9	1,825.9	1,951.5	2,542.7	2,644.1	2,558.6
Australia ³	1,445.2	1,313.8	993.8	1,297.4	1,259.2	1,105.9	1,197.3	1,366.8	1,773.7	1,615.0	1,648.9
New Zealand	486.0	579.3	337.4	323.4	510.6	268.1	149.6	153.9	185.7	208.6	195.0
Africa	1,152.5	1,067.4	969.0	990.0	753.6	763.9	732.3	821.8	794.8	1,013.9	1,121.8

Note : See notes to Table 10.2

Source : Trade Development Board
with effect from April 1987

10.6 IMPORTS BY COMMODITY, 1981-1991

Million Dollars

Commodity	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	58,248.0	60,244.6	59,504.2	61,133.6	57,817.5	55,545.4	68,415.2	88,226.7	96,863.7	109,805.9	114,194.9
Food	3,270.5	3,601.9	3,503.9	4,157.5	3,535.4	3,865.7	3,951.8	4,667.0	4,463.5	4,314.5	4,645.4
Cereals & Cereal Preparation	754.0	823.4	636.7	980.5	428.1	384.5	362.4	508.9	525.9	447.6	445.1
Fruits & Vegetables	792.2	805.0	857.7	913.9	899.1	927.8	971.0	1,150.7	1,077.1	1,102.0	1,262.7
Coffee & Spices	464.8	592.4	660.2	808.7	882.6	1,047.7	830.6	791.1	637.4	637.7	544.1
Beverages & Tobacco	282.2	339.5	416.2	460.6	501.0	541.5	595.0	730.1	1,013.2	1,425.5	1,556.5
Crude Materials	2,775.5	2,306.1	2,624.8	2,510.2	1,988.0	1,905.0	2,267.2	2,999.1	2,662.6	2,371.1	2,091.6
Rubber	1,659.7	1,269.9	1,622.2	1,454.0	1,003.1	903.3	1,159.4	1,698.3	1,266.7	922.2	778.6
Wood	388.0	360.4	353.1	296.1	249.4	272.1	294.6	311.3	341.7	353.0	339.8
Mineral Fuels	19,831.1	20,479.6	18,611.7	16,961.4	17,031.0	10,994.5	12,525.7	12,422.2	13,407.6	17,398.9	16,050.2
Petroleum & Petroleum Products	19,819.2	20,471.4	18,601.4	16,949.4	17,019.9	10,986.1	12,515.6	12,412.8	13,393.9	17,383.6	16,040.3
Animal & Vegetable Oils	721.8	671.5	632.1	1,435.9	1,380.5	720.3	791.8	941.0	924.1	753.0	848.9
Unprocessed Vegetable Oils	226.9	114.2	202.0	440.9	293.9	166.9	299.0	351.4	431.6	403.1	466.8
Chemicals	2,756.1	2,790.7	2,981.6	3,096.2	2,890.4	3,245.6	4,081.9	5,808.5	7,411.9	8,440.5	8,306.6
Chemical Compounds	753.0	723.5	821.2	859.1	772.0	879.7	1,079.4	1,545.9	1,583.1	1,779.9	1,905.2
Plastic Materials	643.3	687.0	808.1	829.3	721.3	846.0	1,275.9	1,999.9	1,423.8	1,485.3	1,493.5
Medicinal Products	203.6	210.7	207.0	222.2	239.0	284.6	314.2	367.2	384.0	360.9	378.7
Manufactured Goods by Material	8,079.7	8,407.4	8,089.5	8,045.3	7,082.4	7,613.5	9,536.7	12,993.9	13,785.1	14,167.5	14,997.8
Textile Manufactures	1,905.0	1,923.7	2,052.4	2,018.3	1,871.5	2,241.6	2,878.0	2,951.5	3,123.3	3,212.5	3,285.2
Non-metal Mineral Manufactures	955.7	1,025.7	1,198.4	1,280.6	1,013.7	894.0	1,045.1	1,254.0	1,276.5	1,512.7	1,719.7
Iron & Steel	2,360.6	2,596.0	1,890.0	1,730.7	1,425.1	1,463.5	1,661.1	2,665.5	3,034.7	3,066.3	3,424.8
Metal Manufactures	1,301.6	1,344.2	1,255.4	1,268.1	1,253.6	1,133.4	1,332.5	1,673.3	1,873.0	2,160.7	2,371.9
Paper & Paperboard & Related Articles	532.8	501.7	556.4	647.7	575.4	684.9	886.2	1,134.4	1,151.9	1,253.4	1,298.0
Machinery & Transport Equipment	16,474.9	17,219.3	18,046.1	19,419.6	18,317.2	20,780.7	27,534.0	38,298.8	42,837.5	49,065.1	53,432.6
Non-electric Machinery	6,685.2	7,142.7	6,629.1	7,128.8	6,624.6	7,000.7	9,704.2	14,153.9	16,799.1	20,273.0	21,846.6
Electric Machinery	6,665.7	6,871.3	7,597.1	8,687.0	8,238.1	10,786.8	14,262.7	19,848.5	19,809.6	22,603.7	25,348.4
Transport Equipment	3,123.9	3,205.3	3,819.8	3,603.8	3,454.6	2,993.2	3,567.1	4,296.4	6,228.9	6,188.5	6,237.6
Miscellaneous Manufactured Articles	3,413.0	3,852.3	3,947.2	4,196.7	4,193.6	4,887.4	6,053.6	7,999.1	8,813.6	10,450.2	10,792.1
Scientific & Optical Instruments	938.0	1,034.4	998.2	1,070.6	1,129.4	1,259.3	1,571.1	2,359.0	2,571.3	2,995.7	3,117.3
Watches & Clocks	541.9	550.4	537.6	475.6	424.7	475.7	596.3	779.2	874.0	1,170.5	1,053.4
Miscellaneous Transactions nec	643.2	576.3	651.1	850.2	898.0	991.2	1,077.5	1,367.0	1,544.6	1,419.6	1,473.2

Source : Trade Development Board
with effect from April 1987

10.7 EXPORTS BY COMMODITY, 1981-1991

Million Dollars

Commodity	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	44,290.8	44,472.8	46,154.9	51,340.0	50,178.8	48,985.5	60,265.7	79,051.3	87,116.5	95,206.0	101,879.5
Food	2,124.8	2,388.0	2,025.1	2,895.4	2,193.1	2,625.5	2,717.1	3,285.1	3,037.1	2,734.2	3,032.8
Cereals & Cereal Preparations	449.5	609.7	274.7	839.1	186.5	142.7	167.4	250.6	254.1	188.0	209.1
Fruits & Vegetables	303.2	320.9	342.9	375.9	366.2	340.8	364.4	411.5	389.8	387.6	435.6
Coffee & Spices	659.2	745.5	720.3	960.7	988.2	1,350.1	1,148.4	1,290.4	969.5	777.9	809.4
Beverages & Tobacco	174.3	217.0	210.0	209.8	240.8	332.1	387.2	552.8	886.3	1,387.8	1,840.8
Crude Materials	3,665.3	2,781.1	3,388.5	3,410.4	2,699.7	2,458.8	3,003.3	4,046.7	3,721.4	2,914.6	2,521.6
Rubber	2,455.4	1,744.7	2,108.3	2,138.2	1,496.1	1,340.8	1,544.1	2,290.5	1,909.0	1,425.3	1,109.6
Wood	426.4	378.4	398.8	365.0	327.9	380.4	510.3	563.4	705.1	491.1	449.6
Mineral Fuels¹	17,124.0	17,931.3	16,010.4	16,179.3	16,452.2	12,361.2	12,198.0	12,352.8	13,443.0	17,295.3	17,371.0
Petroleum & Petroleum Products	13,980.6	14,437.3	12,761.9	12,992.3	13,456.1	10,038.9	9,649.9	10,008.5	11,026.8	14,371.3	14,179.2
Animal & Vegetable Oils	820.0	780.3	628.2	1,540.5	1,535.2	880.4	795.9	885.5	1,016.1	760.7	722.1
Unprocessed Vegetable Oils	581.7	560.9	451.5	1,115.7	1,128.1	336.2	362.5	454.9	449.7	349.2	305.3
Chemicals	1,556.3	1,722.4	1,956.3	2,463.7	2,716.9	2,839.9	3,761.5	5,198.9	5,736.7	5,970.1	6,680.1
Chemical Compounds	346.0	380.5	547.2	882.4	917.6	985.5	1,253.3	1,669.7	1,921.1	2,109.0	2,537.1
Medicinal Products	319.2	342.8	329.8	259.8	298.1	294.1	305.2	349.2	360.2	378.1	381.2
Plastic Materials	220.5	243.4	263.2	486.3	680.1	732.5	1,174.7	1,846.0	1,484.7	1,451.0	1,703.2
Manufactured Goods by Material	3,669.8	3,838.7	3,683.1	3,624.6	3,597.8	3,632.7	4,522.8	6,529.1	7,083.6	6,651.3	7,320.3
Wood Manufactures	539.3	495.9	536.4	481.0	484.3	447.3	590.5	750.1	597.3	486.6	513.8
Textile Manufactures	737.0	745.6	810.2	781.1	776.9	929.4	1,330.3	1,386.5	1,544.8	1,630.8	1,883.5
Iron & Steel	586.3	707.5	411.2	461.5	457.8	433.1	471.8	721.0	861.5	789.9	891.4
Metal Manufactures	578.5	516.9	509.6	530.3	570.6	561.1	626.6	857.3	1,025.9	1,215.3	1,311.2
Machinery & Transport Equipment	11,779.4	11,546.2	14,677.9	16,865.0	16,567.4	18,900.5	26,273.8	37,938.7	43,142.1	47,732.6	51,696.7
Non-electric Machinery	3,119.8	3,597.1	4,536.4	5,764.4	6,011.5	7,420.4	10,754.1	16,355.3	19,939.1	23,057.6	24,998.9
Electric Machinery	6,724.7	6,479.4	7,816.8	9,252.1	8,855.0	10,157.8	14,035.2	19,415.2	20,471.9	22,223.2	24,542.2
Transport Equipment	1,934.9	1,469.6	2,324.8	1,848.5	1,701.0	1,322.5	1,484.4	2,168.3	2,731.2	2,451.7	2,155.5
Miscellaneous Manufactured Articles	2,919.1	2,831.5	3,083.7	3,408.0	3,378.2	4,042.3	5,556.1	7,110.8	7,815.3	8,499.7	9,228.9
Clothing	990.1	979.7	1,002.1	1,170.9	1,176.5	1,469.7	2,095.7	2,491.4	2,715.1	2,867.2	3,008.5
Scientific & Optical Instruments	481.7	414.6	510.0	594.1	660.4	755.1	1,045.1	1,558.3	1,730.0	1,953.1	2,177.5
Watches & Clocks	250.9	232.9	246.2	230.2	200.9	206.8	226.5	317.4	400.8	508.5	615.5
Miscellaneous Transactions nec	457.8	436.3	491.7	743.3	797.5	912.1	1,050.0	1,150.9	1,234.9	1,259.7	1,465.2

¹ Include oil bunkers.

Source : Trade Development Board
with effect from April 1987

10.8 DOMESTIC EXPORTS BY COMMODITY, 1981-1991

Million Dollars

Commodity	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	29,452.0	29,157.8	29,206.4	33,051.2	32,575.5	32,062.4	39,070.6	49,555.2	55,251.7	62,754.1	66,031.1
Food	536.7	449.5	469.1	483.9	478.1	602.3	731.3	904.7	1,034.7	958.0	1,124.9
Animal Feeding Stuffs	57.6	42.6	38.6	46.9	36.3	40.5	36.6	48.9	46.7	37.7	38.5
Beverages & Tobacco	116.2	134.1	114.7	102.4	103.4	121.6	177.2	249.1	319.7	386.1	397.8
Crude Materials¹	140.0	125.3	179.6	172.3	189.7	246.6	343.7	468.5	516.2	460.1	448.8
Mineral Fuels²	16,778.0	17,161.2	15,233.6	15,743.8	15,840.1	11,980.3	11,753.5	11,341.0	13,223.9	17,136.7	17,201.8
Oil Bunkers	2,948.4	3,314.7	3,040.9	2,994.3	2,858.0	2,214.1	2,451.3	2,205.9	2,306.3	2,785.2	3,011.9
Animal & Vegetable Oils	470.3	482.6	401.9	670.1	629.7	666.7	605.4	610.6	768.5	587.1	555.9
Chemicals	609.7	690.7	869.7	1,333.8	1,597.7	1,785.5	2,360.4	3,100.2	3,363.7	3,618.6	4,208.2
Medicinal Products	237.4	260.3	241.3	172.1	207.0	192.9	199.4	222.9	224.9	251.3	253.1
Plastic Materials	100.6	108.5	106.5	325.9	522.4	549.5	864.2	1,305.9	967.0	957.7	1,144.6
Manufactured Goods by Material	1,326.6	1,214.4	1,083.2	1,183.6	1,215.4	1,142.4	1,328.2	1,777.5	1,848.7	2,126.9	2,246.8
Wood Products excluding Furniture	363.6	289.5	286.5	251.7	228.8	169.3	190.3	242.6	207.2	195.0	178.1
Textile Yarn Thread	96.7	76.1	68.4	58.0	43.0	50.7	69.8	73.8	67.8	78.9	81.3
Woven Textile Fabrics	119.1	104.6	68.5	48.9	36.2	47.1	63.3	84.8	108.7	114.3	158.4
Lime, Cement & Fabricated											
Construction Materials	79.8	71.0	48.9	84.2	62.7	14.7	21.9	21.6	26.6	46.7	35.2
Iron & Steel Pipes & Fittings	47.8	67.7	32.8	38.7	59.4	71.6	58.5	84.9	92.5	87.3	88.7
Machinery & Transport Equipment	7,326.8	6,961.0	8,718.6	10,936.4	10,136.3	12,595.9	17,817.3	26,144.3	29,204.2	32,351.8	34,477.3
Office Machines	282.6	382.5	818.6	2,168.8	2,515.7	3,907.1	6,399.5	9,719.3	11,798.7	14,519.5	15,194.3
Other Non-electric Machines	357.1	434.5	490.7	579.6	581.6	680.6	803.7	1,122.0	1,363.4	1,287.2	1,443.8
Electric Generators	503.0	611.2	1,045.6	1,183.1	1,414.1	1,448.3	1,275.4	1,721.1	1,300.4	1,288.3	1,552.4
Telecommunications Apparatus	2,156.6	1,723.7	1,839.2	2,124.2	2,128.4	2,361.8	3,767.5	5,641.4	6,104.6	6,312.9	6,253.3
Other Electric Machinery	2,198.4	2,261.0	2,613.0	3,202.5	2,358.3	2,864.4	3,771.5	5,101.2	5,489.6	5,599.1	6,544.9
Ships, Boats & Oil Rigs	965.9	764.7	982.7	633.5	102.8	109.0	194.8	375.7	230.7	303.3	274.2
Miscellaneous Manufactured Articles	2,114.5	1,907.2	2,097.5	2,275.3	2,220.4	2,680.0	3,688.5	4,670.8	4,712.8	4,866.4	5,096.3
Clothing	800.3	752.8	765.2	891.3	876.9	1,072.3	1,487.1	1,780.9	1,816.5	1,793.0	1,779.2
Scientific & Optical Instruments	238.6	166.2	209.3	256.0	291.1	359.9	522.6	738.6	645.4	755.8	908.9
Watches & Clocks	175.2	150.1	157.2	131.7	103.4	103.5	93.4	131.3	155.0	183.8	221.3
Printed Matters	115.2	110.6	112.0	120.2	136.9	188.1	256.7	314.0	378.9	438.8	489.4
Toys & Games	175.4	151.5	138.7	185.5	200.5	258.5	440.4	446.5	382.1	351.3	361.5
Miscellaneous Transactions nec	33.2	31.8	38.5	149.6	164.8	241.2	265.1	288.4	259.3	262.5	273.3

- 1 Exclude processed rubber and sawn timber.
2 Include oil bunkers.

Source : Trade Development Board
with effect from April 1987

10.9 IMPORTS OF SPECIFIC COMMODITIES, 1981-1991

Million Dollars

Year	Meat	Rice	Unmilled Cereals	Fruits & Nuts	Spices	Animal Feed	Crude Rubber	Sawn Timber	Crude Petroleum
1981	257.1	192.9	409.7	347.6	185.5	183.9	1,650.8	294.0	17,474.7
1982	310.9	159.2	518.2	325.6	227.3	209.3	1,261.7	288.9	16,191.0
1983	292.9	143.6	365.6	348.8	215.0	160.9	1,610.6	274.1	14,303.5
1984	301.5	142.1	698.6	403.1	203.1	186.6	1,435.7	228.0	14,169.6
1985	274.7	109.2	196.8	410.5	288.1	118.3	981.8	191.5	12,850.3
1986	279.2	132.4	125.0	406.9	266.3	130.5	879.0	212.0	8,223.4
1987	323.7	116.8	115.1	453.5	247.4	124.7	1,130.8	262.1	8,544.4
1988	346.8	149.2	186.5	487.5	237.5	150.3	1,660.4	271.5	8,261.5
1989	372.1	152.7	196.7	485.0	260.6	131.2	1,216.1	292.9	9,096.5
1990	359.0	147.8	105.0	497.5	232.8	83.0	941.7	305.9	12,503.9
1991	362.9	138.6	97.5	561.5	193.8	91.7	724.2	310.5	11,465.1

Source: Trade Development Board
Data valid through April 1994

10.9 IMPORTS OF SPECIFIC COMMODITIES, 1981-1991 (continued)

Million Dollars

Year	Petroleum Products	Fixed Vegetable Oils	Medicinal Products	Paper & Paperboard	Textile Yarn & Thread	Woven Textile Fabrics	Iron & Steel Plates, Sheets, Bars, Shapes, etc	Iron & Steel Pipes & Fittings	Generators
1981	2,344.5	226.9	203.6	427.3	177.2	1,279.4	1,242.7	931.6	1,719.4
1982	4,280.4	114.2	210.7	387.3	141.9	1,313.5	1,263.0	1,060.8	1,946.9
1983	4,297.9	202.0	207.0	427.4	141.9	1,493.0	1,233.3	451.7	1,896.0
1984	2,779.7	440.9	222.2	476.3	145.9	1,425.8	969.9	564.7	2,148.4
1985	4,169.6	293.9	239.0	411.5	141.0	1,351.9	775.0	435.2	2,063.2
1986	2,762.7	166.9	284.6	491.3	194.6	1,650.5	791.9	386.6	2,709.9
1987	3,971.2	299.1	314.2	661.2	233.3	2,205.2	1,027.1	356.3	4,358.8
1988	4,151.3	351.4	367.2	844.2	291.2	2,141.3	1,655.0	616.2	5,140.1
1989	4,297.4	431.6	384.0	833.0	345.6	2,227.4	1,648.1	791.5	4,760.8
1990	4,879.7	403.1	360.9	896.8	342.8	2,274.2	1,716.8	913.9	5,604.8
1991	4,575.3	466.8	378.7	911.4	356.8	2,316.0	1,856.0	1,073.7	6,258.4

10.9 IMPORTS OF SPECIFIC COMMODITIES, 1981-1991 (continued)

Million Dollars

Year	Industrial Machinery	Telecommunications Apparatus	Office Machines	Motor Vehicles	Ships, Boats & Oil Rigs	Clothing	Scientific & Optical Instruments	Watches & Clocks	Toys & Games
1981	1,681.4	1,446.1	570.0	1,264.5	1,259.6	415.1	938.0	541.9	237.3
1982	1,614.6	1,366.7	758.2	1,198.1	1,400.5	543.1	1,034.4	550.4	263.2
1983	1,513.2	1,524.4	1,219.0	1,196.9	1,269.3	591.8	998.2	537.6	227.1
1984	1,272.8	1,700.9	1,851.3	1,084.8	888.0	646.9	1,070.6	475.6	257.3
1985	1,121.2	1,726.9	1,862.2	760.4	909.1	654.4	1,129.4	424.7	222.4
1986	954.7	2,284.0	2,075.0	682.3	1,284.4	785.9	1,259.3	475.7	292.8
1987	1,217.9	3,160.1	3,201.1	1,103.3	1,104.5	1,072.0	1,571.1	596.3	332.8
1988	1,859.9	4,612.9	4,726.2	1,725.7	1,348.9	1,210.0	2,359.0	779.2	364.8
1989	2,306.1	5,170.5	6,054.2	2,213.4	1,394.7	1,329.6	2,571.3	874.0	363.6
1990	2,744.3	6,535.0	7,861.0	2,692.7	1,661.5	1,655.5	2,995.7	1,170.5	435.0
1991	2,808.5	7,576.4	8,134.4	2,285.8	1,489.7	1,822.7	3,117.3	1,053.4	448.1

Source : Trade Development Board
with effect from April 1987

10.10 EXPORTS OF SPECIFIC COMMODITIES, 1981-1991

Million Dollars

Year	Spices	Coffee	Animal Feed	Crude Rubber	Sawn Timber	Petroleum Products	Fixed Vegetable Oils	Medicinal Products	Manufactured Fertilizers
1981	248.5	203.0	128.8	2,454.0	401.9	13,953.5	581.7	319.2	188.5
1982	281.6	220.9	111.7	1,742.8	347.2	14,288.3	560.9	342.8	233.3
1983	231.9	236.3	97.7	2,105.8	367.6	12,557.3	451.5	329.8	207.8
1984	285.8	334.2	119.0	2,135.4	340.0	12,849.4	1,115.7	259.8	162.3
1985	305.4	313.4	83.8	1,491.5	301.7	13,418.2	1,128.1	298.1	127.5
1986	403.2	567.3	93.3	1,335.2	349.1	10,021.8	336.2	294.1	70.5
1987	382.2	298.8	97.8	1,535.1	486.6	9,624.6	362.5	305.2	81.5
1988	388.5	334.5	113.6	2,274.1	529.6	9,639.2	454.9	349.2	103.6
1989	353.2	131.2	107.8	1,884.7	659.4	11,026.8	449.7	360.2	56.5
1990	248.6	127.0	75.5	1,405.3	449.7	14,371.2	349.2	378.1	52.1
1991	223.7	129.6	80.1	1,089.1	412.5	14,179.1	305.3	381.2	47.7

10.10 EXPORTS OF SPECIFIC COMMODITIES, 1981-1991 (continued)

Million Dollars

Year	Crude Vegetable Materials	Wood Products excluding Furniture	Textile Yarn & Thread	Woven Textile Fabrics	Iron & Steel Plates, Sheets, Bars, Shapes, etc	Iron & Steel Pipes & Fittings	Generators	Office Machines	Industrial Machinery
1981	216.3	538.1	143.4	475.8	238.4	301.2	1,039.1	380.6	918.1
1982	225.7	495.4	112.3	527.7	225.4	436.7	1,295.0	638.2	899.0
1983	190.4	536.1	113.3	578.8	139.9	235.7	1,778.6	1,656.3	821.4
1984	203.8	480.5	108.6	554.6	164.9	238.7	1,968.0	2,674.5	855.8
1985	200.5	483.5	105.3	562.7	167.0	263.3	2,055.7	3,008.9	861.1
1986	214.7	446.1	143.6	673.0	188.5	219.7	2,156.8	4,410.7	673.9
1987	312.9	589.4	193.9	997.6	263.8	175.3	2,605.6	7,048.6	732.7
1988	359.4	749.2	267.2	964.6	428.9	250.1	2,906.0	10,910.6	1,015.1
1989	311.2	596.5	279.7	1,080.4	462.9	341.0	2,721.4	13,215.9	1,342.4
1990	282.8	485.6	277.9	1,134.9	428.1	300.4	2,811.0	16,620.3	1,486.9
1991	254.4	513.3	296.7	1,376.1	414.3	404.2	3,372.1	17,652.2	1,636.7

10.10 EXPORTS OF SPECIFIC COMMODITIES, 1981-1991 *(continued)*

Million Dollars

Year	Telecommunications Apparatus	Household Equipment	Motor Vehicles	Ships, Boats & Oil Rigs	Furniture	Clothing	Scientific & Optical Instruments	Watches & Clocks	Printed Matters
1981	2,642.5	328.1	464.8	1,137.7	179.0	990.1	481.7	250.9	166.0
1982	2,196.8	294.9	360.7	871.7	159.5	979.7	414.6	232.9	155.1
1983	2,389.8	338.4	399.1	1,348.7	173.0	1,002.1	510.0	246.2	152.6
1984	2,719.9	440.6	449.3	999.1	178.8	1,170.9	594.1	230.2	157.6
1985	2,780.8	423.2	325.6	426.4	163.9	1,176.5	660.4	200.9	180.3
1986	3,224.7	429.0	298.0	685.6	202.4	1,469.7	755.1	206.8	230.8
1987	5,200.4	520.6	382.3	688.1	263.2	2,095.7	1,045.1	226.5	306.0
1988	7,569.5	635.9	554.7	1,189.7	339.9	2,491.4	1,558.3	317.4	398.1
1989	8,465.2	616.8	788.6	929.7	377.5	2,715.1	1,730.0	400.8	439.0
1990	9,470.8	587.7	956.2	686.9	342.6	2,867.2	1,953.1	508.5	548.9
1991	9,834.4	628.4	976.6	557.9	363.6	3,008.5	2,177.5	615.5	603.1

Source : Trade Development Board
with effect from April 1987

CHART 11

EXTERNAL TRADE AND TRADE BALANCE, 1981-1991

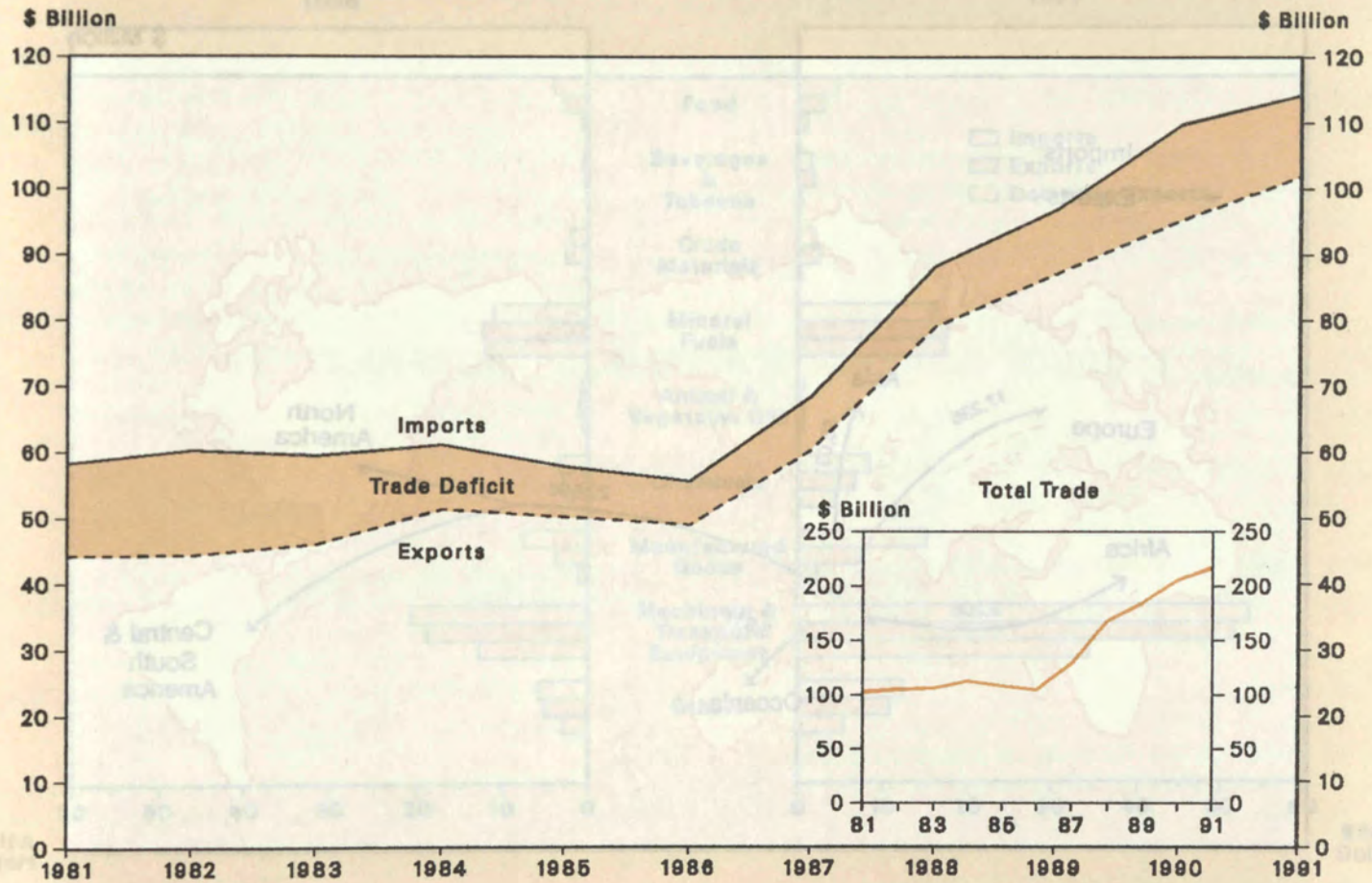


CHART 12

TRADE WITH MAJOR REGIONS, 1991

\$ Million

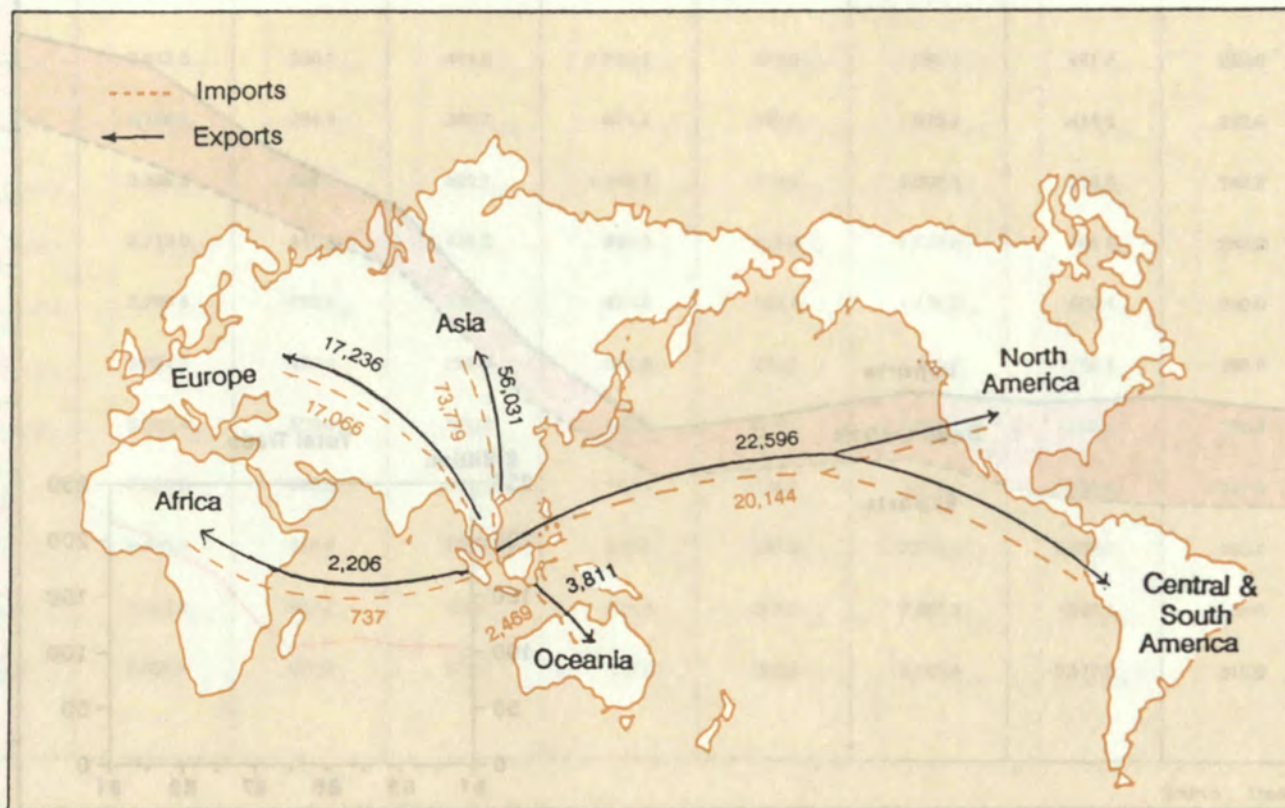
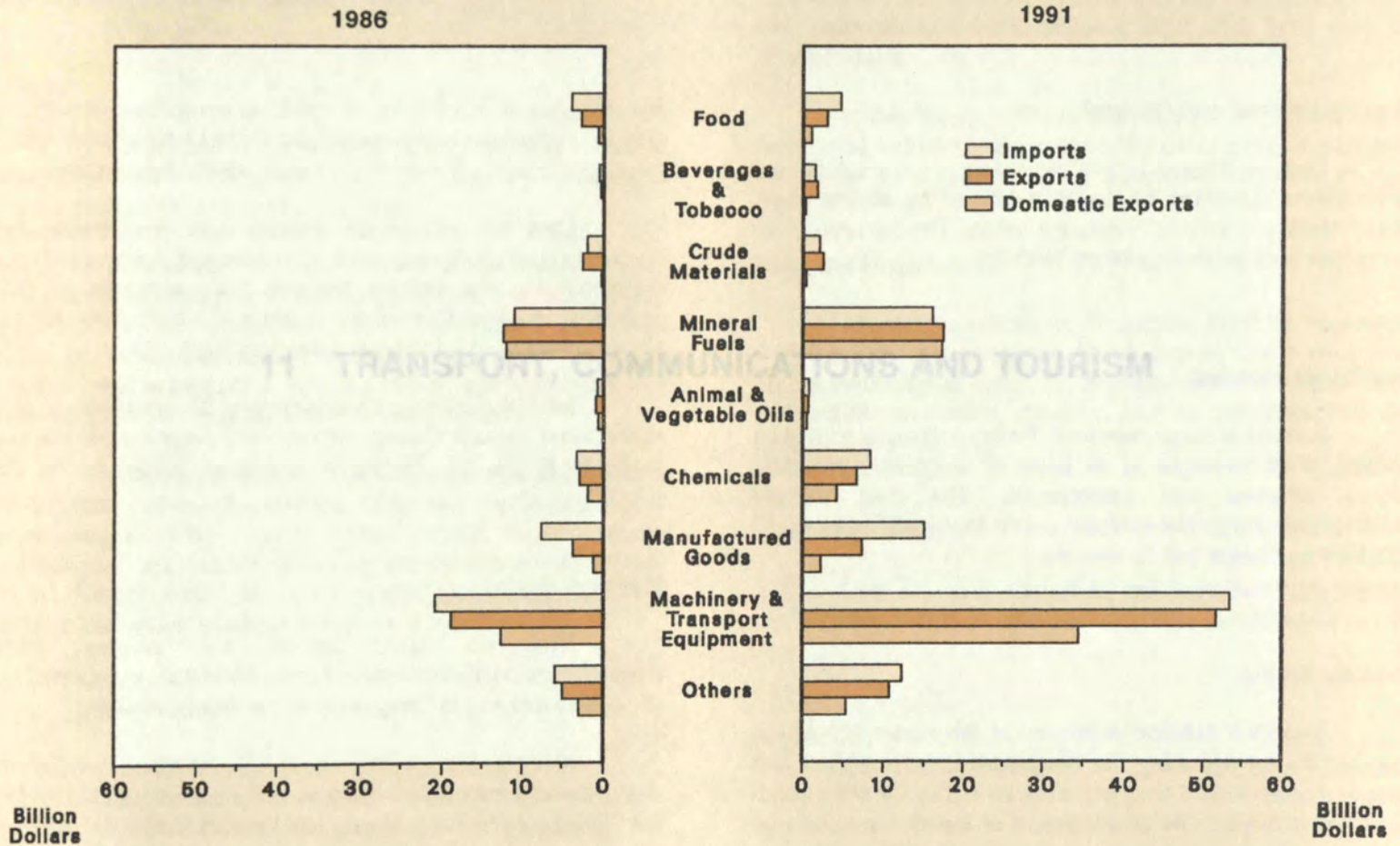


CHART 13

TRADE BY COMMODITY, 1986 AND 1991



the aerospace industries, as well as companies and companies
 statistics on passenger, cargo, mail and general traffic
 passed through Changi Airport and Seletar Aerodrome.

Data on passenger arrivals and departures and
 incoming and outgoing mail are obtained from manifests
 submitted by the airlines through their handling agents.
 Statistics on aircraft movements are compiled by the Air

Monthly statistics on passenger, cargo, mail and general traffic
 mail carried through Changi Airport and Seletar Aerodrome are
 available in the "Air Transport Statistics" published by the
 CAA. The statistics are compiled by the Civil Aviation
 Department and are published in the "Singapore Annual Report on
 Tourism and Transport, Communications and Tourism".

Monthly and annual summaries of characteristics of
 visitor arrivals from major markets are available respectively in
 the "Singapore Monthly Report on Tourism Statistics" and the

other drivers are used. These are used in the same way as the
 visit. These are used in the same way as the visit. These are used in the same way as the visit.

Vessels Entering and Leaving
 Data on the movement of vessels are controlled from
 decisions submitted to the Port Master by all merchant
 ships entering or leaving Singapore waters. The data are given
 in number and gross registered tonnage.

Volume of cargo handled
 The volume of cargo handled by the port is controlled from
 vessels of all tonnage at all parts of Singapore including
 private wharves and anchorages. The data include
 transshipment cargo but exclude ship's stores and general cargo
 supplied as bunker fuel to vessels.

Data on road transport are collected from no data
 made to the Police on a daily basis.

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, regu-
 lates and promotes the development of the air transport and

11 TRANSPORT, COMMUNICATIONS AND TOURISM

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 number and gross registered tonnage.

Sea Cargo Handled

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 the air transport and

the 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 and incoming and outgoing mail are obtained from manifests submitted by the airlines through their handling agents. Statistics on aircraft movements are compiled by the Authority's Aeronautical Information Services Unit.

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.

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 "Singapore Monthly Report on Tourism Statistics" and the

"Singapore Annual Report on Tourism Statistics" published by the Singapore Tourist Promotion Board.

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.

Expressways : These are dual carriageway roads designed specifically to handle large volumes of fast-moving traffic with a high degree of safety. Intersections with other roads are grade-separated and no direct access to abutting development is permitted. Non-motorised and very large and heavy vehicles are not allowed on expressways.

Major Arterial Roads : These are good capacity roads linking major areas of activities. They may be divided roads. Intersections with other main roads are usually signalised. Traffic control measures are used to accord priority to the through-traffic. Direct access to abutting development is permitted when alternative access is not available.

Collector Roads : These are roads serving traffic between the major arterial roads and the local roads. They also carry through-traffic within a local area. They may be divided roads.

Local Roads : These are roads providing access to residential, industrial, and commercial developments and carry little or no through-traffic. They are usually undivided roads.

Vehicles Registered

All motor vehicles in Singapore must be registered with the Registry of Vehicles (ROV). The vehicle licence may be renewed either once in six months or annually. More information on vehicle statistics may be obtained from the Annual Report of ROV.

Road Casualties

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

11.1 VESSELS REGISTERED IN SINGAPORE, 1986-1991 (End of Period)

Tonnage Class (Gross Registered Tons)	1986		1987		1988		1989		1990		1991	
	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT
Total	1,265	7,262	1,229	7,247	1,243	7,328	1,359	8,134	1,565	8,872	1,823	9,559
Non-propelled or Below 100	614	407	562	377	588	395	665	470	795	601	949	705
100 & Above	651	6,855	667	6,870	655	6,933	694	7,664	770	8,271	874	8,854

Source : Marine Department

11.2 AGE DISTRIBUTION OF VESSELS REGISTERED IN SINGAPORE, DECEMBER 1991

Tonnage Class (Gross Registered Tons)	Age Group (Years)													
	0 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 & Above	
	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT
Total	771	3,190	322	2,099	303	1,823	312	1,996	93	429	18	19	4	5
Non-propelled or Below 100	603	464	156	91	121	99	59	47	4	2	4	2	2	-
100 to Below 500	68	13	59	15	53	14	86	24	19	7	7	2	-	-
500 to Below 1,000	7	6	17	13	15	12	43	37	9	8	4	4	1	1
1,000 to Below 5,000	28	72	21	49	30	76	43	117	34	80	2	4	1	4
5,000 to Below 10,000	14	97	10	76	29	222	23	175	13	105	1	7	-	-
10,000 & Above	51	2,538	59	1,855	55	1,400	58	1,596	14	227	-	-	-	-

Source : Marine Department

11.3 VESSELS LICENSED IN SINGAPORE, 1981-1991

Number

End of Year	Vessels Other than Fishing Vessels					Fishing Vessels		
	Total	Native Sailing Craft	Cargo Boats	Passenger Boats	Others ¹	Total	Powered Vessels	Non-powered Vessels
1981	2,926	15	1,793	527	591	655	526	129
1982	2,840	13	1,650	568	609	622	514	108
1983	2,731	8	1,495	582	646	516	460	56
1984	2,599	3	1,381	550	665	483	443	40
1985	2,383	1	1,223	514	645	446	415	31
1986	2,241	1	1,116	494	630	423	401	22
1987	2,165	1	1,023	513	628	397	380	17
1988	2,113	-	971	508	634	384	367	17
1989	2,105	-	946	521	638	340	326	14
1990	2,200	-	962	521	717	340	326	14
1991	2,303	-	969	523	811	315	304	11

1 Refer to work boats, bum boats and tug boats.

Source : Marine Department
Primary Production Department
Port of Singapore Authority

11.4 VESSEL ARRIVALS AND DEPARTURES, 1981-1991

(End of Period)

Period	Arrivals		Departures	
	Number	'000 GRT	Number	'000 GRT
1981	32,977	266,280	)	)
1982	36,361	282,630	)	)
1983	36,459	287,380	)	)
1984	34,985	270,050	)	)
1985	36,531	272,020	)	na
1986	40,722	333,680	)	)
1987	42,560	352,360	)	)
1988	44,855	402,960	)	)
1989	49,107	436,710	49,032	437,368
1990	60,347	491,200	64,660	490,659
1991 ^p	70,300	536,600	70,100	536,100

Notes : Figures include all sea-going vessels and regional ferries above 75 Gross Registered Tons (GRT).

The GRT of vessel refers to the space (in tons of 100 cubic feet) below the upper full deck plus crewquarters, etc above deck.

Source : Port of Singapore Authority

11.5 VESSEL ARRIVALS BY FLAG, 1991

Flag	1991 ^P		1991 ^P	1991 ^P
	Number	'000 GRT	Number	'000 GRT
All Flags	70,300	536,600		
Bahamas	1,003	20,669		
China	1,343	16,617		
Cyprus	1,012	18,524		
Denmark	608	15,691		
France	115	5,858		
Germany	583	10,308		
Greece	626	17,352		
Honduras	2,492	1,210		
Hong Kong	421	10,530		
India	337	7,574		
Italy	105	2,525		
Japan	1,207	33,632		
Korea Rep	392	8,092		
Liberia	2,470	75,140		
Netherlands	353	7,288		
Norway	907	20,568		
Panama	10,994	80,185		
Poland	145	2,029		
Singapore	22,379	45,959		
Taiwan	519	14,028		
Turkey	125	2,457		
United Kingdom	240	7,536		
United States	382	10,228		

Note : See notes to Table 11.4.

Source : Port of Singapore Authority

11.6 SEA CARGO HANDLED, 1981-1991

Thousand Freight Tonnes

Period	Total		General Cargo				Bulk Cargo			
			Containerised		Conventional		Oil		Others	
	Inward	Outward	Inward	Outward	Inward	Outward	Inward	Outward	Inward	Outward
1981	54,936.2	37,626.8	7,460.0	7,213.1	8,169.8	8,514.1	35,179.2	21,624.5	4,127.2	275.1
1982	61,356.3	40,133.0	8,287.7	7,385.7	8,984.4	9,391.6	38,907.3	23,054.8	5,176.9	300.9
1983	65,882.6	40,465.8	10,130.3	8,636.4	10,393.9	8,310.6	40,269.9	23,290.6	5,088.5	228.2
1984	67,411.0	44,486.3	11,829.2	10,271.5	9,023.6	9,608.2	39,199.4	23,976.2	7,358.8	630.4
1985	62,086.2	43,749.6	12,410.6	11,451.3	6,723.0	6,359.2	38,430.0	25,180.6	4,522.6	758.5
1986	69,756.8	50,959.1	15,914.0	15,625.7	6,257.6	6,224.0	43,893.7	28,814.9	3,691.5	294.5
1987	75,779.7	53,678.6	19,145.1	19,274.3	6,736.9	6,701.9	46,198.9	27,398.5	3,698.8	303.9
1988	90,648.7	64,090.1	25,848.7	25,406.9	8,083.9	7,600.2	52,834.5	30,667.1	3,881.6	415.9
1989	98,367.0	75,930.8	31,750.0	33,440.2	9,652.8	8,592.7	51,908.2	32,511.9	5,055.9	1,386.0
1990	106,222.5	81,566.8	37,612.8	39,017.8	9,968.5	7,788.6	53,334.6	33,570.9	5,306.6	1,189.5
1991 ^p	116,500.0	89,900.0	44,900.0	45,800.0	10,000.0	7,500.0	56,100.0	35,400.0	5,500.0	1,200.0

Note : Data include transshipment cargo but exclude ship's stores and mineral oil supplied as bunker fuel to vessels.

Source : Port of Singapore Authority

11.7 CONTAINERISED CARGO HANDLED BY COUNTRY/AREA, 1989-1991

Thousand Freight Tonnes

Country/Area	1989		1990		1991 ^P	
	Inward	Outward	Inward	Outward	Inward	Outward
All Countries/Areas	31,750.0	33,440.2	37,612.8	39,017.8	44,900.0	45,800.0
South East Asia	10,872.7	9,925.3	12,648.2	12,420.6	15,130.0	13,751.8
North East Asia	8,558.7	7,574.0	11,249.7	7,962.8	12,376.9	9,558.1
China	182.9	212.6	244.1	174.9	525.7	257.8
Hong Kong	2,248.1	2,036.4	2,722.6	2,217.8	2,995.3	2,721.3
Japan	3,033.8	2,410.8	4,057.9	2,826.3	4,425.2	3,514.6
Taiwan	2,448.8	2,431.2	3,325.4	2,194.6	3,302.1	2,308.7
S Korea	645.1	483.0	899.6	549.1	1,128.7	755.8
South Asia	1,793.8	2,282.7	1,729.8	2,668.9	2,425.9	3,035.1
India	811.1	910.4	800.3	1,198.2	1,243.0	1,162.5
Bangladesh	425.9	634.9	434.4	649.7	504.4	729.1
Sri Lanka	193.5	421.8	277.1	456.3	331.0	599.3
Pakistan	363.2	285.2	216.9	321.0	346.9	511.7
West Asia	746.2	1,878.4	840.9	1,983.3	1,126.0	3,086.9
United Arab Emirates	373.6	759.1	511.0	907.2	715.2	1,506.7
Saudi Arabia	223.7	484.6	165.0	480.1	241.3	797.8
Africa	382.2	655.6	454.3	945.9	639.3	1,250.0
EEC	5,231.6	5,508.3	6,405.1	7,179.8	7,074.6	8,105.2
Italy	574.4	557.1	749.5	711.8	717.9	800.2
France	516.1	662.3	681.7	783.5	609.6	904.2
Germany	1,394.1	1,399.4	1,835.7	1,901.5	2,050.7	2,096.5
Netherlands	1,210.1	1,160.4	1,358.3	1,620.8	1,540.9	1,665.9
United Kingdom	745.1	1,034.4	841.4	1,263.2	1,071.6	1,509.5
Belgium-Luxemburg	402.3	266.4	484.0	387.8	497.8	447.2
Spain	332.7	353.8	410.7	410.6	526.7	565.1
Other Europe	319.4	415.2	494.1	548.9	361.1	480.4
USSR	152.4	265.3	258.5	271.7	106.8	188.0
Oceania	1,156.4	1,546.9	1,098.4	1,413.2	2,021.7	1,735.6
Australia	1,023.4	1,204.8	865.7	1,086.4	1,705.0	1,309.6
New Zealand	107.1	172.3	200.9	176.4	279.0	192.8
Papua New Guinea	6.2	151.3	13.9	102.6	24.9	149.6
North America	2,294.1	3,182.8	2,417.4	3,438.5	2,927.4	3,696.8
Canada	199.1	102.9	218.3	107.8	227.5	104.8
USA	2,095.0	3,079.9	2,199.1	3,330.8	2,699.9	3,592.0
Central & South America	95.6	200.1	144.7	231.3	97.3	371.7

Source : Port of Singapore Authority

11.8 MINERAL OIL HANDLED BY COUNTRY/AREA, 1988-1991

Thousand Freight Tonnes

Country/Area	1988		1989		1990		1991 ^P	
	Inward	Outward	Inward	Outward	Inward	Outward	Inward	Outward
All Countries/Areas	52,834.5	30,667.1	51,908.2	32,511.9	53,334.6	33,570.9	56,100.0	35,400.0
South East Asia	7,661.5	10,804.1	7,758.7	11,382.5	8,619.7	12,812.8	8,707.9	13,824.5
North East Asia	6,225.4	14,275.0	5,161.9	15,280.9	5,142.8	14,591.9	6,245.3	12,683.5
China	5,535.8	1,394.0	4,093.7	2,200.7	3,964.0	736.0	3,789.8	813.9
Hong Kong	36.5	4,809.4	190.7	5,232.4	91.7	5,654.9	233.6	5,069.6
Japan	95.4	7,247.0	639.1	6,464.9	647.5	5,900.9	802.3	4,873.1
S Korea	285.0	351.2	79.6	524.7	366.7	834.6	1,161.7	992.4
Taiwan	272.7	472.8	158.8	840.6	72.9	1,458.7	255.3	933.5
South Asia	403.4	598.3	538.3	791.7	645.0	1,329.2	629.5	2,209.4
India	99.6	191.8	64.7	412.2	230.1	427.1	165.4	1,265.5
Sri Lanka	167.7	88.3	96.3	191.4	78.3	22.2	122.3	115.9
West Asia	34,436.0	810.7	34,133.0	815.5	34,569.6	714.7	34,620.9	2,716.0
Bahrain	2,224.3	59.3	2,022.0	84.4	1,634.1	78.8	1,498.1	19.1
Iran	3,178.3	329.7	3,109.6	202.3	2,489.7	26.0	3,233.1	320.6
Iraq	407.6	23.4	-	-	458.5	-	-	-
Kuwait	6,222.0	-	5,691.1	-	4,252.0	-	806.3	84.2
Saudi Arabia	16,097.2	208.7	15,574.3	480.7	14,772.0	12.7	18,123.9	1,319.8
United Arab Emirates	3,516.3	30.1	5,302.3	9.6	6,676.3	508.6	6,895.4	818.6
Africa	228.5	96.6	491.0	148.5	634.3	63.2	317.0	286.7
EEC	192.8	75.3	344.3	36.1	689.0	53.0	267.3	158.1
Other Europe	1,454.4	148.3	139.5	28.5	2.2	118.3	276.1	125.3
Oceania	1,502.2	2,434.5	1,061.9	2,685.1	2,003.3	2,823.7	2,160.5	2,496.7
Australia	1,451.9	1,551.7	1,042.2	1,585.9	1,953.2	1,301.9	1,847.2	1,321.7
New Zealand	-	24.0	-	5.6	9.5	74.0	102.7	46.6
North America	716.6	1,424.3	534.1	1,100.9	353.6	985.6	1,303.6	775.4
USA	716.6	947.2	534.1	1,100.9	353.5	985.6	1,303.6	775.4
Central & South America	13.6	-	408.6	97.8	675.1	0.4	1,514.5	9.1

Notes : Mineral oil refers to crude or refined petroleum handled in bulk.
Mineral oil which are handled in drums or other form of packaging
have been included in conventional cargo.

Source : Port of Singapore Authority

11.9 CIVIL AIRCRAFT LANDINGS, PASSENGERS AND PARCEL MAIL, 1981-1991

1981-8001 MONTHLY

Year	Aircraft Landings	Passengers			Parcel Mail	
		Arriving	Departing	In Transit	In-coming	Out-going
	Number	Persons			Tonnes	
1981	35,652	3,597,104	3,578,108	976,946	4,291	4,244
1982	34,068	3,787,411	3,791,145	1,033,256	4,043	4,286
1983	33,776	3,830,720	3,855,604	992,828	4,322	4,708
1984	35,327	4,180,752	4,221,117	1,063,782	4,308	4,978
1985	36,600	4,323,587	4,397,908	1,135,335	4,711	5,741
1986	36,514	4,445,576	4,489,692	1,132,451	4,422	5,527
1987	38,131	5,017,163	5,027,601	1,159,029	4,208	5,351
1988	41,646	5,686,450	5,719,996	1,188,838	4,359	5,102
1989	43,694	6,490,959	6,482,278	1,163,130	4,391	5,212
1990	48,803	7,237,233	7,166,347	1,217,178	4,159	4,535
1991	54,339	7,584,541	7,479,948	1,220,550	5,034	4,679

Note : Figures from 1989 refer to Changi Airport only.

Source : Civil Aviation Authority of Singapore
with effect from July 1986

11.10 AIR CARGO DISCHARGED AND LOADED BY REGION AND SELECTED COUNTRY OF ORIGIN AND DESTINATION, 1986-1991

Tonnes

Region/Country of Origin or Destination	1986		1987		1988		1989		1990		1991	
	Discharged	Loaded	Discharged	Loaded	Discharged	Loaded	Discharged	Loaded	Discharged	Loaded	Discharged	Loaded
Total	192,624	160,184	222,160	196,937	263,639	248,868	297,198	280,412	324,157	299,684	342,261	300,948
South East Asia	47,888	38,587	61,838	43,027	77,668	59,149	92,484	68,452	97,686	77,935	103,169	71,229
Malaysia	10,004	12,566	12,617	13,655	15,917	15,125	17,562	17,350	19,373	20,396	21,640	21,316
Philippines	3,248	3,810	4,055	4,990	4,423	5,419	3,923	5,988	3,730	6,066	3,973	5,502
Thailand	17,664	7,015	21,093	9,402	22,599	16,070	26,427	20,209	24,780	20,293	26,952	19,384
North East Asia	57,603	38,663	66,112	51,859	79,912	69,529	88,208	83,782	104,614	90,310	108,461	103,732
Hong Kong	13,992	10,481	14,603	14,527	15,566	18,827	16,147	22,617	18,992	24,181	18,633	27,296
Japan	22,205	17,168	27,763	22,920	35,934	32,423	38,431	37,629	44,564	41,121	48,170	48,331
Taiwan	15,270	4,229	15,770	5,956	18,274	7,109	18,878	7,132	22,702	8,178	22,210	9,567
South Asia	9,160	9,049	12,879	11,447	14,256	13,816	18,017	15,038	19,399	13,550	19,194	12,555
India	5,457	4,698	8,749	6,223	9,359	7,545	11,652	8,319	12,268	7,550	10,994	6,280
West Asia	1,632	4,444	1,345	5,526	2,060	6,014	2,448	6,363	2,850	7,328	1,815	6,371
Oceania	31,402	16,509	29,882	19,185	28,893	23,597	29,480	28,466	35,390	25,877	45,526	26,133
Australia	27,760	13,201	26,828	15,044	26,082	19,174	26,430	22,446	32,637	20,486	41,698	21,068
New Zealand	3,508	2,857	2,871	3,598	2,541	3,264	2,807	4,679	2,420	4,335	3,435	4,024
Europe	30,323	37,710	34,794	46,918	41,315	52,945	47,594	54,400	49,637	61,310	49,284	60,726
France	2,124	2,888	2,904	3,816	2,424	3,449	2,359	3,055	2,847	2,999	2,607	2,481
Germany ¹	2,929	4,332	2,938	4,479	3,114	4,026	3,745	4,127	4,862	5,856	4,936	5,519
Netherlands	4,946	7,243	5,588	9,718	7,716	10,077	8,468	9,543	8,544	10,475	10,152	10,763
Scandinavia	2,564	1,973	2,467	2,603	3,554	2,460	6,133	3,479	6,004	3,843	6,318	4,092
Switzerland	3,379	3,625	3,993	3,403	3,338	3,913	3,310	3,062	3,161	3,014	4,812	3,643
United Kingdom	3,059	8,851	4,614	9,826	7,074	11,771	8,995	13,172	10,662	12,923	8,165	11,611
North America	14,238	14,620	14,811	17,595	18,880	20,912	17,987	20,644	13,542	19,797	13,793	16,749
USA	14,067	14,463	14,737	17,354	18,259	19,942	16,831	19,165	12,354	18,323	12,012	15,086
Other Regions	378	602	500	1,379	653	2,906	980	3,267	1,036	3,578	1,019	3,453

Notes : See note to Table 11.9.

Data exclude passenger baggage, diplomatic cargo and aircraft stores.

Source : Civil Aviation Authority of Singapore
with effect from July 1986

1 Data prior to 1991 referred to West Germany only.

11.11 AIR PASSENGERS BY REGION AND SELECTED COUNTRY OF EMBARKATION AND DISEMBARKATION, 1986-1991

Number

Region/Country of Embarkation or Disembarkation	1986		1987		1988		1989		1990		1991	
	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures
Total	4,445,576	4,489,692	5,017,163	5,027,601	5,686,450	5,719,996	6,490,959	6,482,278	7,237,233	7,166,347	7,584,541	7,479,948
South East Asia	2,137,410	2,126,078	2,378,986	2,347,156	2,692,161	2,635,475	3,063,288	2,980,108	3,425,010	3,301,570	3,661,119	3,534,603
ASEAN	2,135,769	2,123,581	2,377,236	2,344,952	2,677,064	2,622,887	3,062,830	2,979,545	3,418,596	3,294,612	3,638,121	3,511,121
Brunei	)	)	)	)	115,158	120,687	119,751	119,468	113,017	112,690	115,735	110,513
Indonesia	)	)	)	)	667,338	679,420	775,512	795,313	861,638	893,331	956,870	1,006,083
Malaysia	) na	) na	) na	) na	1,090,085	1,030,228	1,237,686	1,161,680	1,439,381	1,321,051	1,622,985	1,471,320
Philippines	)	)	)	)	144,595	128,172	161,765	143,929	155,235	136,299	160,739	145,039
Thailand	)	)	)	)	659,888	664,380	768,116	759,155	849,325	831,241	781,792	778,166
North East Asia	879,376	855,315	1,018,718	999,732	1,136,032	1,130,118	1,347,600	1,343,926	1,615,491	1,602,788	1,727,980	1,729,486
Hong Kong	436,638	402,003	465,033	434,589	449,992	427,977	452,084	441,697	556,861	531,138	570,651	548,665
Japan	293,489	304,056	375,224	382,762	476,344	485,896	639,064	648,364	758,569	777,761	758,332	778,459
Taiwan	100,420	96,586	120,014	118,127	134,804	141,812	164,283	162,832	194,690	186,736	263,323	268,019
South Asia	290,639	315,477	339,243	350,837	340,938	345,091	354,699	352,781	393,519	377,665	390,686	369,920
India	186,261	203,145	223,527	235,864	216,257	222,044	221,110	222,133	244,447	232,822	226,708	216,435
Pakistan	22,420	24,022	29,256	27,273	26,965	27,160	22,928	24,686	22,646	22,958	22,903	23,668
Sri Lanka	58,683	61,159	51,281	50,852	55,830	51,392	64,043	58,266	73,692	68,767	82,862	72,175
West Asia	75,607	69,357	66,731	66,683	68,966	68,715	68,217	70,231	55,979	58,663	74,371	75,933
Oceania	489,188	546,796	557,430	610,595	675,654	723,307	755,295	808,808	772,621	843,453	750,357	809,052
Australia	411,567	467,707	467,769	515,890	571,726	615,899	634,435	684,861	655,829	721,661	639,766	695,666
New Zealand	62,922	65,411	74,880	79,557	84,752	88,220	97,779	102,729	96,583	102,375	91,906	95,700
Europe	478,139	476,907	526,400	523,982	616,325	659,868	718,990	736,410	782,155	779,748	775,382	755,051
France	31,136	34,220	30,263	35,061	32,824	38,441	37,408	40,900	42,260	41,385	43,066	40,685
Germany ¹	46,150	53,684	47,704	57,926	68,653	74,119	89,503	88,838	103,022	102,938	104,327	104,310
Netherlands	60,768	53,945	62,062	54,148	74,364	68,851	81,440	75,528	85,409	74,165	85,556	77,046
Scandinavia	26,192	29,318	29,175	29,679	33,153	34,249	35,285	36,862	40,434	43,778	48,432	50,585
Switzerland	31,360	38,065	36,796	42,829	46,081	52,570	53,684	58,009	50,973	54,821	58,299	59,965
United Kingdom	193,465	170,504	211,118	185,586	228,418	237,541	256,542	246,455	289,171	274,114	301,168	279,280
North America	74,552	79,453	93,012	94,722	112,017	115,461	127,603	136,515	139,227	150,003	153,961	152,482
USA	72,337	77,365	91,022	92,919	105,053	107,205	111,605	116,082	120,042	125,959	132,136	130,246
Other Regions	20,664	20,309	36,643	33,894	44,357	41,961	55,267	53,499	53,231	52,457	50,685	53,421

Notes : See note to Table 11.9.

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

1 Data prior to 1991 referred to West Germany only.

Source : Civil Aviation Authority of Singapore
with effect from July 1986

11.12 VISITOR ARRIVALS BY REGION AND SELECTED COUNTRY OF RESIDENCE, 1981-1991
(By Air, Sea and Land)

Thousand

Region/Country of Residence	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	2,828.6	2,956.7	2,853.6	2,991.4	3,031.0	3,191.1	3,678.8	4,186.1	4,830.0	5,322.9	5,414.6
Americas	185.3	186.7	204.1	213.9	219.0	231.7	260.6	281.8	316.1	337.1	326.8
Canada	24.2	24.9	27.8	26.9	31.0	32.6	36.6	42.6	55.3	61.1	58.5
USA	143.6	150.7	167.4	176.9	176.3	188.2	211.4	226.8	248.0	261.4	253.8
Asia	1,853.6	1,979.0	1,893.0	1,959.3	1,960.7	2,031.1	2,344.4	2,586.7	2,996.3	3,427.3	3,693.1
ASEAN	1,116.4	1,182.8	1,062.6	1,057.0	1,008.5	1,001.3	1,074.0	1,158.0	1,257.0	1,442.8	1,680.3
Hong Kong	85.8	92.9	92.9	98.5	97.7	104.8	125.1	124.1	147.5	194.1	213.1
India	116.9	121.5	154.4	192.7	218.5	236.6	243.5	203.7	194.1	216.5	209.7
Japan	354.8	378.5	370.6	369.5	377.7	404.3	541.4	682.4	841.4	971.6	871.3
Korea	22.1	34.0	37.4	36.0	31.0	30.4	36.6	55.2	87.7	108.9	133.4
Pakistan	15.4	14.4	15.7	19.1	20.9	26.1	33.5	33.8	33.9	33.2	37.8
Saudi Arabia	20.2	21.7	20.7	21.8	20.9	19.3	19.5	20.9	20.9	16.9	16.4
Sri Lanka	21.0	21.2	23.1	25.7	25.2	28.1	28.4	38.2	50.8	47.8	56.0
Taiwan	55.3	65.1	68.0	80.3	82.8	100.4	148.4	152.1	223.8	224.8	287.1
Europe	447.5	424.5	418.1	445.0	468.4	520.1	619.3	810.7	901.1	943.6	888.0
Austria	7.6	8.2	7.8	8.3	9.3	12.1	14.8	19.4	21.8	23.2	18.0
Belgium & Luxembourg	10.0	8.3	8.9	9.6	9.5	11.1	12.2	15.7	16.8	17.9	15.8
France	44.7	41.1	37.1	42.2	41.4	43.6	47.5	63.1	68.8	73.1	69.6
Greece	6.9	6.7	5.4	7.2	9.0	12.4	19.0	23.9	20.1	18.3	14.1
Italy	25.3	23.0	21.5	25.6	26.0	30.5	37.3	53.5	55.0	56.3	51.8
Netherlands	49.6	41.4	40.6	40.2	40.5	42.7	48.2	63.9	70.9	73.8	72.2
Scandinavia	36.1	36.0	37.2	40.8	45.4	53.6	67.9	86.9	95.2	100.5	95.2
Switzerland	25.5	26.2	25.4	27.9	32.2	35.6	40.4	56.3	62.6	60.4	57.7
United Kingdom	145.0	149.9	150.4	150.2	158.4	170.1	195.2	253.6	281.3	296.6	274.7
Germany ¹	79.8	68.1	67.3	72.8	73.9	78.4	93.3	118.5	140.6	140.8	142.4
Soviet Union & Eastern Europe	6.1	4.6	5.6	8.6	11.3	16.9	26.2	30.0	39.3	49.5	46.5
Oceania	326.0	351.2	325.4	359.2	368.8	390.4	421.2	458.0	558.9	550.7	449.9
Australia	258.6	282.0	259.4	291.1	300.8	315.9	330.2	361.5	450.2	456.6	368.0
New Zealand	58.0	59.9	57.0	58.9	57.5	62.3	76.5	79.1	86.7	72.7	62.0
Others	16.3	15.3	13.0	14.2	14.1	17.7	33.4	48.9	57.6	64.2	56.8
Africa	12.6	12.6	12.5	13.5	13.0	15.9	31.5	46.6	55.0	56.2	55.7

Note : Exclude arrivals of Malaysians by land.

1 Data prior to 1991 referred to West Germany only.

Source : Singapore Tourist Promotion Board

11.13 VISITOR ARRIVALS BY NATIONALITY, 1981-1991 (By Air, Sea and Land)

Thousand

Nationality	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	2,828.6	2,956.7	2,853.6	2,991.4	3,031.0	3,191.1	3,678.8	4,186.1	4,830.0	5,322.9	5,414.6
Americas	221.9	226.4	241.8	247.1	248.8	260.3	286.6	307.8	344.6	370.6	354.0
Canada	30.6	32.3	35.3	34.1	38.0	39.7	43.8	49.5	60.9	67.5	65.1
USA	172.4	181.1	196.2	201.1	197.8	208.3	228.5	243.5	267.9	283.3	271.0
Asia	1,677.2	1,786.7	1,714.1	1,782.1	1,791.5	1,858.0	2,156.1	2,402.4	2,792.2	3,177.5	3,417.4
ASEAN	966.5	1,036.5	928.3	927.5	890.4	882.8	959.6	1,045.5	1,141.4	1,321.1	1,551.3
India	173.8	168.4	202.7	237.7	259.0	279.1	284.0	242.1	234.8	259.9	256.7
Japan	365.2	389.1	381.4	383.3	390.2	417.9	556.6	700.3	860.5	990.5	887.7
Korea	28.3	37.3	41.9	40.7	35.7	35.5	43.3	62.4	95.7	116.6	140.8
Pakistan	17.7	16.8	18.0	21.5	23.0	28.3	36.0	36.6	36.9	36.2	40.7
Sri Lanka	24.3	24.1	25.8	28.4	28.3	32.0	32.7	43.0	57.9	54.6	63.0
Taiwan	58.5	67.6	69.9	84.2	87.0	104.0	152.8	155.7	227.5	229.5	291.8
Saudi Arabia	9.4	9.5	8.9	10.5	9.8	10.1	11.6	12.1	12.1	10.0	10.6
United Arab Emirates	1.2	1.5	1.2	1.2	1.0	1.5	2.1	2.5	2.7	2.2	2.9
Europe	612.8	602.3	587.9	619.3	638.9	699.7	820.1	1,019.2	1,132.7	1,204.8	1,157.5
Belgium & Luxembourg	9.6	8.2	8.7	9.3	9.2	10.9	11.9	15.3	16.0	17.1	15.3
France	53.2	49.5	44.8	50.2	49.5	53.4	60.5	79.1	85.6	89.4	84.8
Germany	85.1	73.3	72.7	78.6	79.3	84.8	99.9	125.7	147.9	146.9	147.9
Italy	26.4	24.3	23.0	27.4	27.9	32.4	39.5	56.4	58.1	59.4	54.7
Netherlands	59.0	50.9	50.7	50.0	50.0	52.1	58.0	74.6	82.0	83.3	83.8
Scandinavia	40.9	41.1	42.9	46.1	50.7	59.9	74.1	93.2	103.0	108.5	103.2
Switzerland	25.1	25.8	24.7	26.9	30.8	34.3	38.9	53.3	59.7	58.3	55.7
United Kingdom (incl. Dependencies)	276.4	292.4	284.5	287.2	291.9	309.0	350.0	411.5	459.1	507.3	490.8
U.K. Dependency (Hong Kong)	58.3	64.1	60.1	62.2	61.0	64.7	77.2	76.2	89.7	125.1	140.0
Soviet Union & Eastern Europe	6.7	5.5	6.4	10.0	12.9	18.5	28.4	32.3	40.4	50.2	49.6
Oceania	287.5	305.8	284.2	310.9	319.4	335.5	359.0	386.6	476.6	475.3	392.3
Australia	231.8	246.5	227.1	252.2	261.9	273.3	283.4	306.7	383.7	395.0	323.4
New Zealand	52.9	56.7	54.4	56.2	54.2	58.8	71.8	74.7	83.9	72.0	62.2
Others	29.2	35.5	25.5	32.0	32.3	37.5	57.0	70.1	83.9	94.7	93.4
Africa	10.3	10.6	10.8	11.3	10.9	13.7	27.1	40.1	48.1	52.7	52.1

Note : Exclude arrivals of Malaysians by land.

Source : Singapore Tourist Promotion Board

11.14 VISITOR ARRIVALS BY a) SEX AND b) AGE GROUP, 1981-1991 (By Air, Sea and Land)

Thousand

		1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total		2,822.3	2,956.7	2,853.6	2,991.4	3,031.0	3,191.1	3,678.8	4,186.1	4,830.0	5,322.9	5,414.6
Sex												
Males		1,879.5	1,958.8	1,910.5	2,004.7	2,002.1	2,065.1	2,309.1	2,616.3	2,996.0	3,313.9	3,372.9
Females		942.8	997.9	943.1	986.7	1,028.9	1,126.0	1,369.7	1,569.8	1,834.0	2,009.0	2,041.7
Age Group (Years)												
<u>1981-1988</u>	<u>1989-1991</u>											
Under 20	Under 15	264.8	277.8	251.1	267.1	276.7	291.3	332.4	367.9	295.5	338.2	337.4
	15 - 19									129.8	141.8	147.9
20 - 29	20 - 24	644.2	687.0	653.9	668.0	681.8	712.8	820.8	937.8	423.7	466.0	485.3
	25 - 34									1,279.1	1,412.3	1,471.2
30 - 39	35 - 44	773.7	818.2	799.1	835.9	839.0	868.3	971.2	1,084.4	1,150.1	1,274.7	1,318.1
40 - 49	45 - 54	545.1	568.3	558.4	593.9	593.6	632.2	735.8	865.7	817.4	892.8	893.3
50 - 59	55 - 64	359.2	363.3	348.1	366.3	368.9	394.5	463.5	534.8	484.2	519.7	493.1
60 & Over	65 & Over	220.9	228.3	231.2	248.1	258.6	279.2	340.0	380.0	236.6	250.8	232.6
Not Stated	Not Stated	14.4	13.8	11.8	12.1	12.4	12.8	15.0	15.5	13.5	26.6	35.7
Average Age (Years)		37.2	37.0	37.3	37.5	37.4	37.6	37.8	37.9	37.7	37.5	37.1

Notes : Exclude arrivals of Malaysians by land.
Figures for 1981 exclude Malaysians coming by sea in June and July for which information on such characteristics is not available.

Source : Singapore Tourist Promotion Board

11.15 VISITOR ARRIVALS BY a) PURPOSE OF VISIT AND b) TYPE OF ACCOMMODATION, 1981-1991
(By Air, Sea and Land)

Thousand

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	2,822.3	2,956.7	2,853.6	2,991.4	3,031.0	3,191.1	3,678.8	4,186.1	4,830.0	5,322.9	5,414.6
Purpose of Visit											
Holiday	1,858.7	1,942.7	1,793.0	1,855.7	1,904.3	2,039.0	2,443.5	2,786.2	3,101.2	3,312.4	3,133.1
Business	333.9	365.4	377.6	407.2	395.7	403.5	456.4	531.9	610.1	691.5	759.9
Business & Holiday	169.9	166.8	160.3	175.7	162.4	159.9	172.2	187.2	205.3	214.3	198.5
In Transit	255.2	260.7	279.4	288.3	293.0	289.5	305.8	352.9	432.7	481.2	501.8
Others	204.6	221.1	243.2	264.5	275.5	299.1	300.9	327.8	480.7	623.4	821.3
Type of Accommodation											
Hotel	2,006.7	2,115.9	1,995.1	2,109.0	2,145.5	2,324.5	2,789.7	3,232.4	3,744.6	4,010.2	3,897.8
Residence of Friends/Relatives	462.2	470.1	453.9	463.6	447.7	416.6	421.2	447.7	511.7	609.5	697.1
Others	206.4	214.4	242.1	238.2	259.9	274.8	289.1	314.4	347.5	426.3	512.1
No Accommodations Required	147.0	156.3	162.6	180.6	177.9	175.2	178.9	191.6	226.1	276.8	307.6

Note : See notes to Table 11.14.

Source : Singapore Tourist Promotion Board

11.16 VISITOR ARRIVALS BY LENGTH OF STAY, 1981-1991 (By Air, Sea and Land)

Thousand

Length of Stay (Days)	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	2,607.4	2,774.4	2,661.0	2,813.9	2,883.5	3,037.6	3,491.3	3,972.8	4,557.8	5,051.3	5,269.6
Under 1	247.4	267.9	278.9	287.0	290.8	301.1	335.6	384.7	446.9	566.1	709.7
1	493.4	526.5	542.1	595.4	636.5	644.2	717.1	823.2	934.7	1,044.2	1,133.3
2	556.6	588.8	563.6	596.4	619.5	676.7	828.2	918.6	1,074.7	1,172.2	1,178.3
3	432.1	457.7	414.5	437.5	450.6	480.6	593.2	708.2	808.3	873.5	853.1
4 - 7	555.7	585.7	526.4	567.4	581.0	627.5	682.4	760.9	876.5	920.7	872.9
8 - 14	212.0	232.1	222.7	206.5	191.5	198.6	221.1	249.0	279.6	318.6	351.2
15 & Over	110.1	115.7	112.7	123.7	113.6	108.9	113.6	128.1	137.1	156.0	171.1
Average Length of Stay (Days)	3.7	3.8	3.7	3.6	3.5	3.5	3.4	3.4	3.3	3.3	3.3

Notes : Exclude arrivals of Malaysians by land.
Refer to visitor arrivals who left Singapore during the period specified.

Source : Singapore Tourist Promotion Board

11.17 VISITOR ARRIVALS, HOTELS AND CESS COLLECTION, 1981-1991

Year	Visitor Arrivals	Tourist Hotels ¹				Cess on Food & Beverages
		Number (At End Year)	Number of Rooms Available	Average Occupancy Rate	Cess Collected	
1981	2,828.6	69	13,267	85.7	12,355.6	20,812.4
1982	2,956.7	47	13,784	80.8	13,789.7	22,921.5
1983	2,853.6	48	13,549	75.5	12,936.6	24,232.4
1984	2,991.4	51	14,350	75.5	12,569.3	25,342.1
1985	3,031.0	59	16,172	65.9	10,998.5	23,557.1
1986	3,191.1	60	18,858	64.7	10,224.2	23,154.7
1987	3,678.8	63	21,891	68.7	11,503.4	26,737.0
1988	4,186.1	67	22,612	79.3	14,420.9	31,176.6
1989	4,830.0	63	22,675	86.4	20,408.1	35,586.8
1990	5,322.9	65	22,408	84.0	38,607.4	51,210.4
1991	5,414.6	67	22,700	76.7	30,883.3	42,473.9

¹ Figures from 1982 refer to tourist hotels with 50 or more rooms.

Source : Singapore Tourist Promotion Board
Customs & Excise Department

11.18 PUBLIC ROADS, 1981-1991

Kilometres

End of Year	Total Public Roads	Paved Roads					Local Roads Unimproved
		Total	Expressways	Major Arterial Roads	Collector Roads	Local Roads Improved	
1981	2,483	2,198	54	345	188	1,611	285
1982	2,533	2,297	54	373	199	1,671	236
1983	2,568	2,369	57	387	211	1,714	199
1984	2,597	2,434	57	408	208	1,761	163
1985	2,645	2,507	73	435	202	1,797	138
1986	2,686	2,573	77	458	210	1,828	113
1987	2,760	2,655	83	490	227	1,855	105
1988	2,810	2,725	96	500	238	1,891	85
1989	2,836	2,752	102	512	242	1,896	84
1990	2,882	2,798	104	529	260	1,905	84
1991	2,924	2,840	108	539	282	1,911	84

Source : Public Works Department

11.19 MOTOR VEHICLE POPULATION, 1981-1991

								Number
End of Year	Total	Cars ¹	Rental Cars	Taxis	Buses	Goods Vehicles	Motor Cycles & Scooters	Others
1981	401,805	161,692	3,506	9,869	6,950	85,956	127,722	6,110
1982	440,276	179,635	4,515	10,283	7,585	94,632	136,899	6,727
1983	476,288	202,092	4,168	10,673	7,985	102,533	141,569	7,268
1984	491,322	217,119	4,159	11,062	8,283	108,631	134,693	7,375
1985	486,760	221,279	4,030	10,941	8,717	107,146	127,564	7,083
1986	473,659	220,566	3,314	10,677	8,638	103,429	120,387	6,648
1987	471,124	222,487	3,081	10,552	8,733	102,643	116,544	7,084
1988	491,808	237,801	3,140	10,473	8,924	106,843	117,570	7,057
1989	520,537	257,371	3,135	10,652	9,126	111,940	120,996	7,317
1990	542,352	271,174	3,343	12,239	9,448	115,536	122,525	8,087
1991	559,304	283,746	3,665	12,705	9,478	118,209	122,410	9,091

1 Include private cars and company cars.

Source : Registry of Vehicles

11.20 ROAD CASUALTIES, 1981-1991

Persons

Year	Total		Pedestrians		Pedal Cyclists, Trishaw Riders & Passengers		Motor Cyclists & Passengers		Motor Vehicle Drivers & Passengers		Others	
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
1981	275	12,483	110	2,160	27	671	79	5,307	56	4,240	3	105
1982	307	12,582	96	2,112	25	684	126	5,660	58	4,043	2	83
1983	298	10,953	115	1,965	33	424	100	4,752	49	3,710	1	102
1984	327	11,529	114	2,002	26	408	116	4,698	69	4,259	2	162
1985	265	9,506	75	1,513	28	419	84	3,899	76	3,606	2	69
1986	251	8,124	69	1,224	18	352	115	3,445	46	3,006	3	97
1987	205	8,056	73	1,149	16	291	86	3,571	29	2,959	1	86
1988	226	6,739	81	1,135	14	285	101	3,093	26	2,149	4	77
1989	232	6,726	64	1,004	11	257	110	3,251	45	2,146	2	68
1990	236	6,667	88	1,039	16	249	89	3,114	42	2,198	1	67
1991	243	6,591	69	912	18	258	112	3,105	41	2,241	3	75

Source : Police Department

11.21 VEHICLES INVOLVED IN ROAD ACCIDENTS BY TYPE OF VEHICLE, 1980-1990

Number

Year	Total	Pedal Cycle	Motor Cycle	Motor Car	Light Goods Vehicle	Heavy Goods Vehicle ¹	Bus	Others
1980	14,623	695	4,810	4,773	1,733	1,384	1,228	-
1981	15,846	770	5,428	5,210	1,823	1,575	1,040	-
1982	16,126	737	5,705	5,468	1,792	1,485	939	-
1983	13,740	473	4,791	4,807	1,470	1,119	944	136
1984	14,914	449	4,704	5,546	1,557	1,312	1,125	221
1985	12,143	463	3,761	4,500	1,249	1,034	983	153
1986	10,374	387	3,306	3,873	1,040	936	704	128
1987	10,166	317	3,390	3,911	968	855	628	97
1988	8,755	301	3,013	3,238	857	673	548	125
1989	8,928	274	3,090	3,431	765	767	485	116
1990	8,967	280	2,969	3,615	729	715	508	151

¹ From 1980 to 1982, heavy goods vehicles include lorries, tippers, tractors, rollers, trailers, cranes, land-rovers and other vehicles. From 1983, heavy goods vehicles include lorries, tippers, and trailers only.

Source : Police Department

11.22 POSTAL ARTICLES HANDLED, 1981-1991

Thousand

Year	Total	Ordinary Mail			Registered Mail	Parcel Mail	Local Urgent Mail	Express Mail	Speedpost Mail
		Domestic	Surface	Air					
1981	483,510	302,602	41,410	118,728	17,349	1,753	416	1,175	77
1982	504,946	323,550	38,935	120,274	18,726	1,750	373	1,235	103
1983	562,141	372,055	40,048	127,657	18,785	1,784	427	1,249	136
1984	615,448	412,512	40,900	138,196	20,182	1,736	529	1,216	177
1985	627,991	435,062	43,444	125,251	20,449	1,628	598	1,326	233
1986	642,110	454,600	45,900	119,000	19,000	1,530	580	1,220	280
1987	685,220	496,241	48,622	118,074	18,761	1,394	639	1,153	336
1988	743,274	554,841	51,427	114,284	19,349	1,280	617	1,046	430
1989	815,697	621,680	48,879	121,690	19,988	1,231	566	1,067	596
1990	869,760	680,405	41,102	123,519	21,174	1,171	609	1,012	768
1991	931,398	721,310	49,435	136,408	20,352	1,333	692	948	920

Source : Singapore Post

11.23 TELECOMMUNICATIONS, 1981-1991

Thousand

Year	Outgoing Telegrams		Outgoing Telex Calls		International Telephone Calls ¹	Total Number of Telephone Lines Installed ²
	Peninsular Malaysia	Other Countries	Peninsular Malaysia	Other Countries		
1981	44	567	669	8,894	5,058	575
1982	38	445	966	11,077	7,091	630
1983	36	378	1,273	12,620	9,673	679
1984	43	336	1,528	14,140	12,643	742
1985	34	273	1,561	14,682	15,725	796
1986	35	266	1,635	14,861	21,611	830
1987	35	238	1,530	14,496	30,797	875
1988	27	240	1,262	12,371	43,672	924
1989	18	222	1,025	10,394	58,653	981
1990	18	203	889	8,645	73,888	1,040
1991	16	189	762	7,046	88,438	1,080

1 Exclude calls to Peninsular Malaysia.

Source : Singapore Telecom

2 End of Period.

CHART 14

SEA CARGO HANDLED, 1981-1991

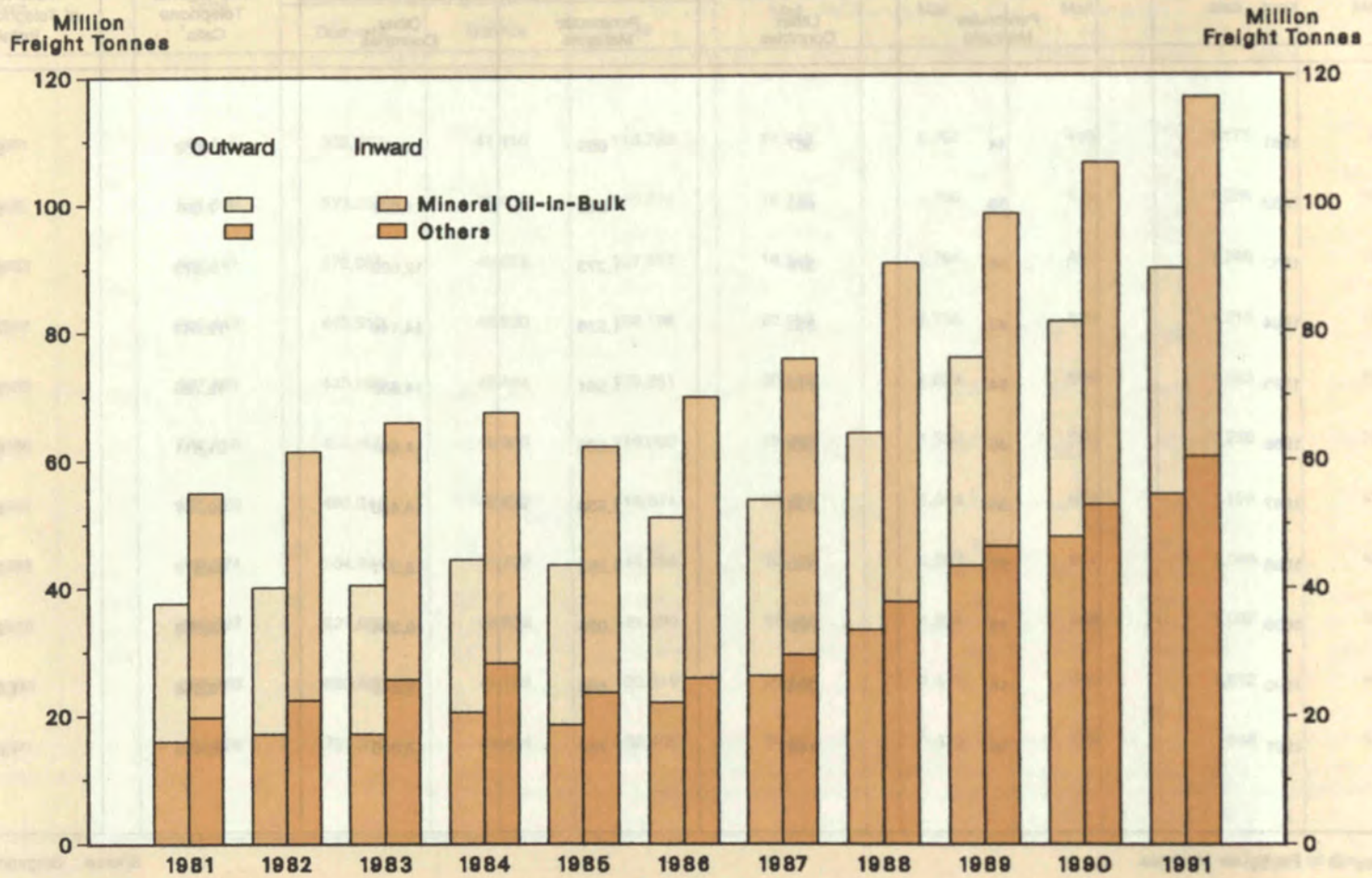


CHART 15

AIR CARGO HANDLED, 1981-1991

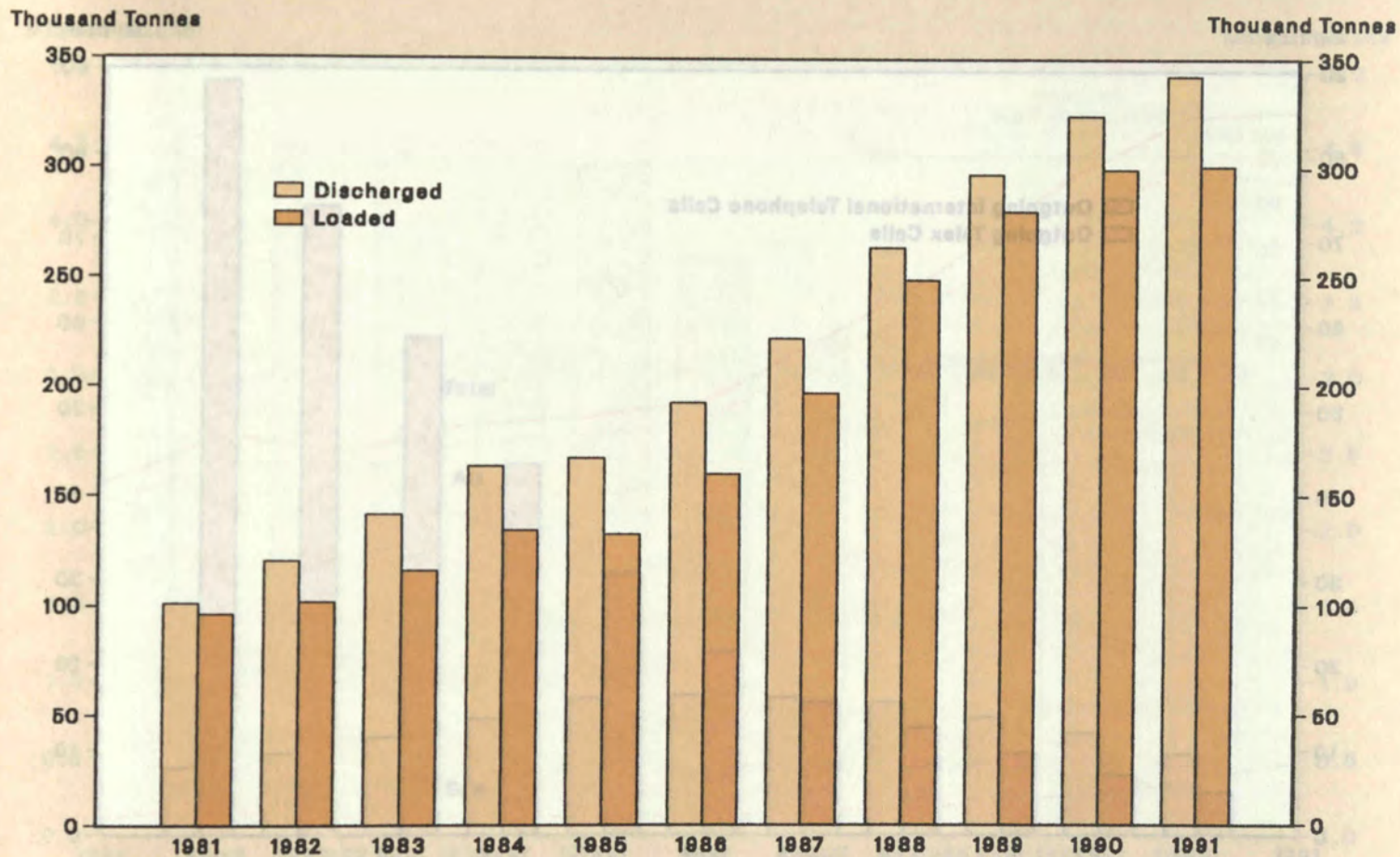


CHART 16

TELECOMMUNICATIONS, 1981-1991

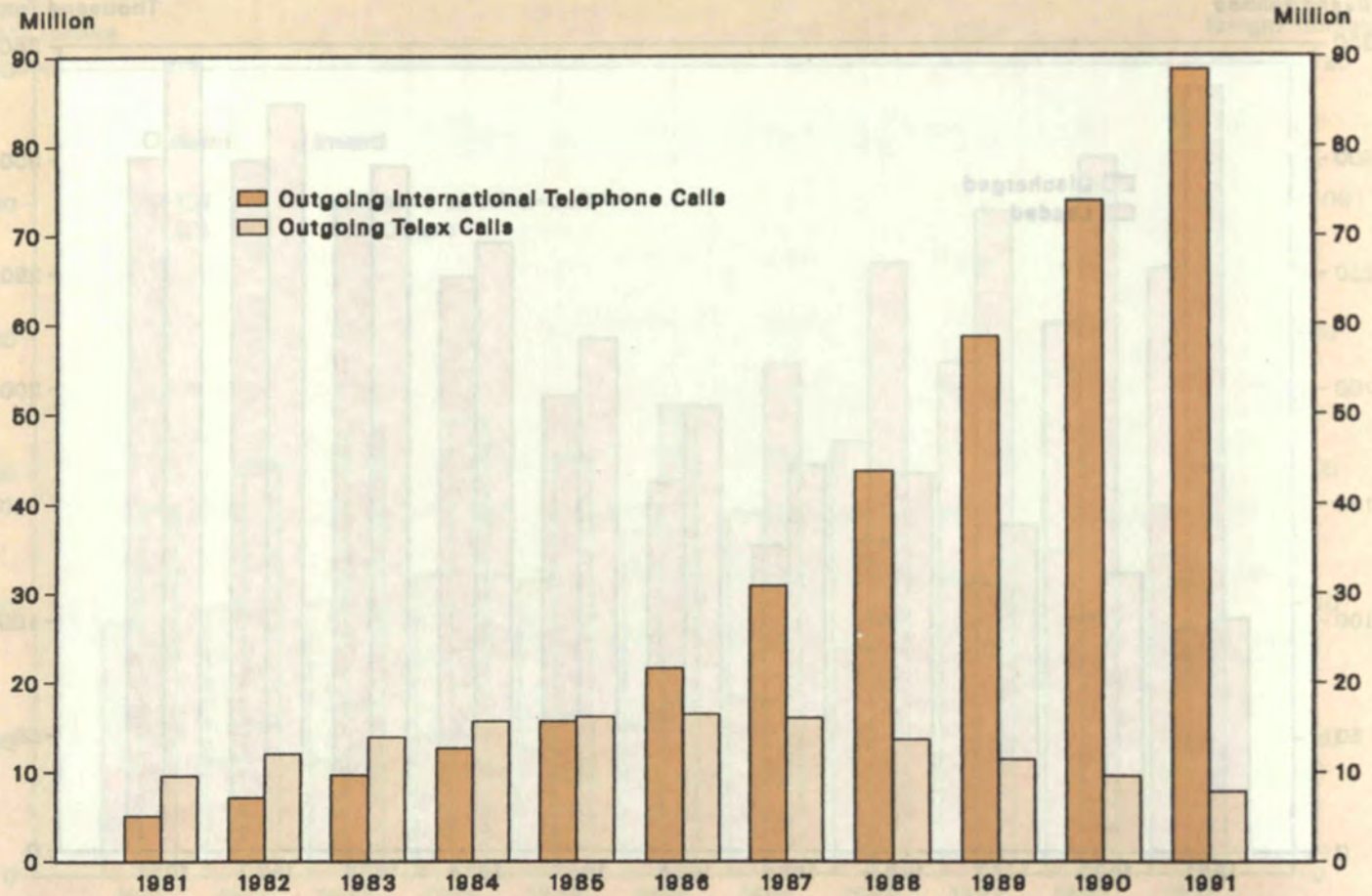


CHART 17

VISITOR ARRIVALS BY AIR AND SEA, 1981-1991

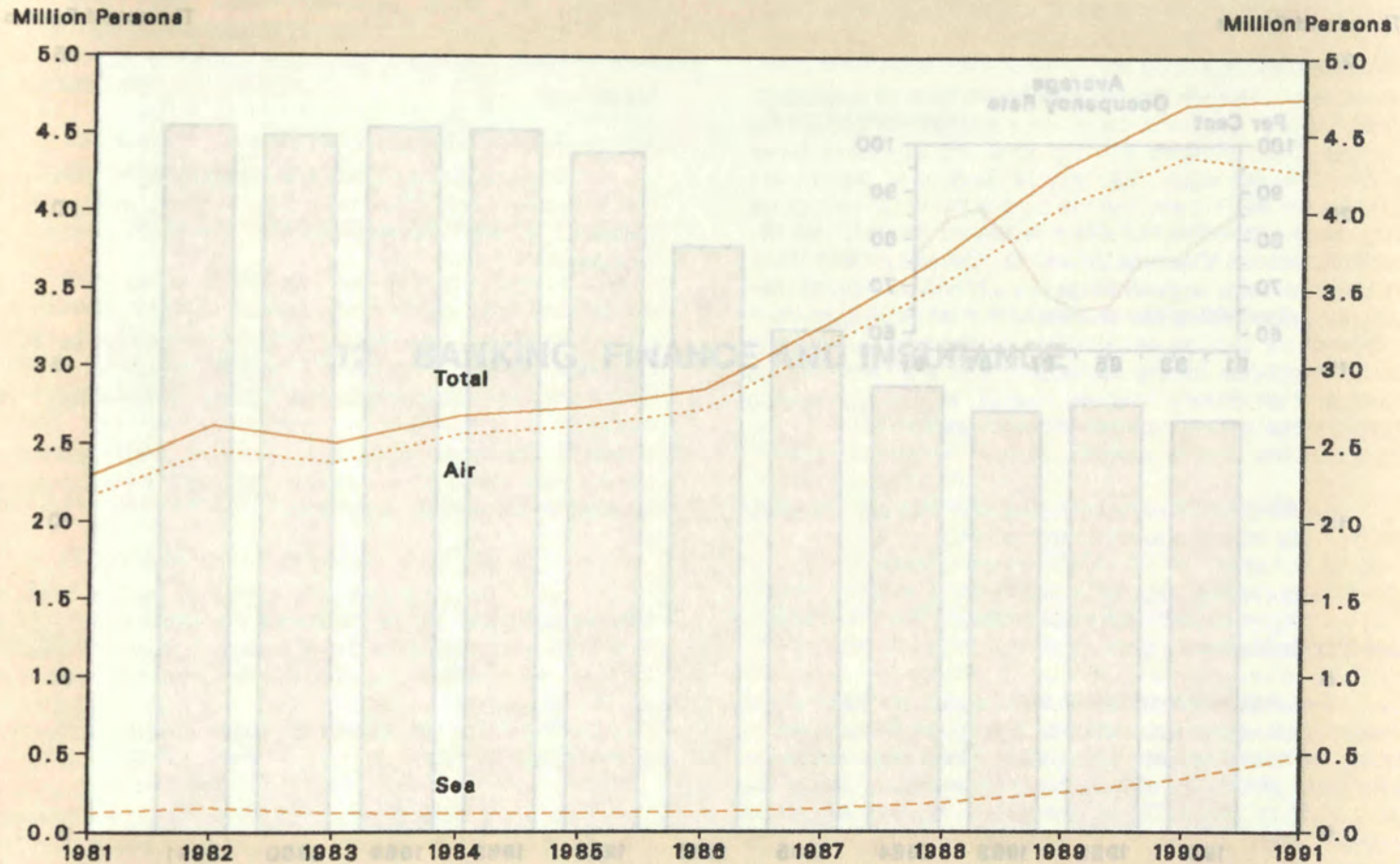
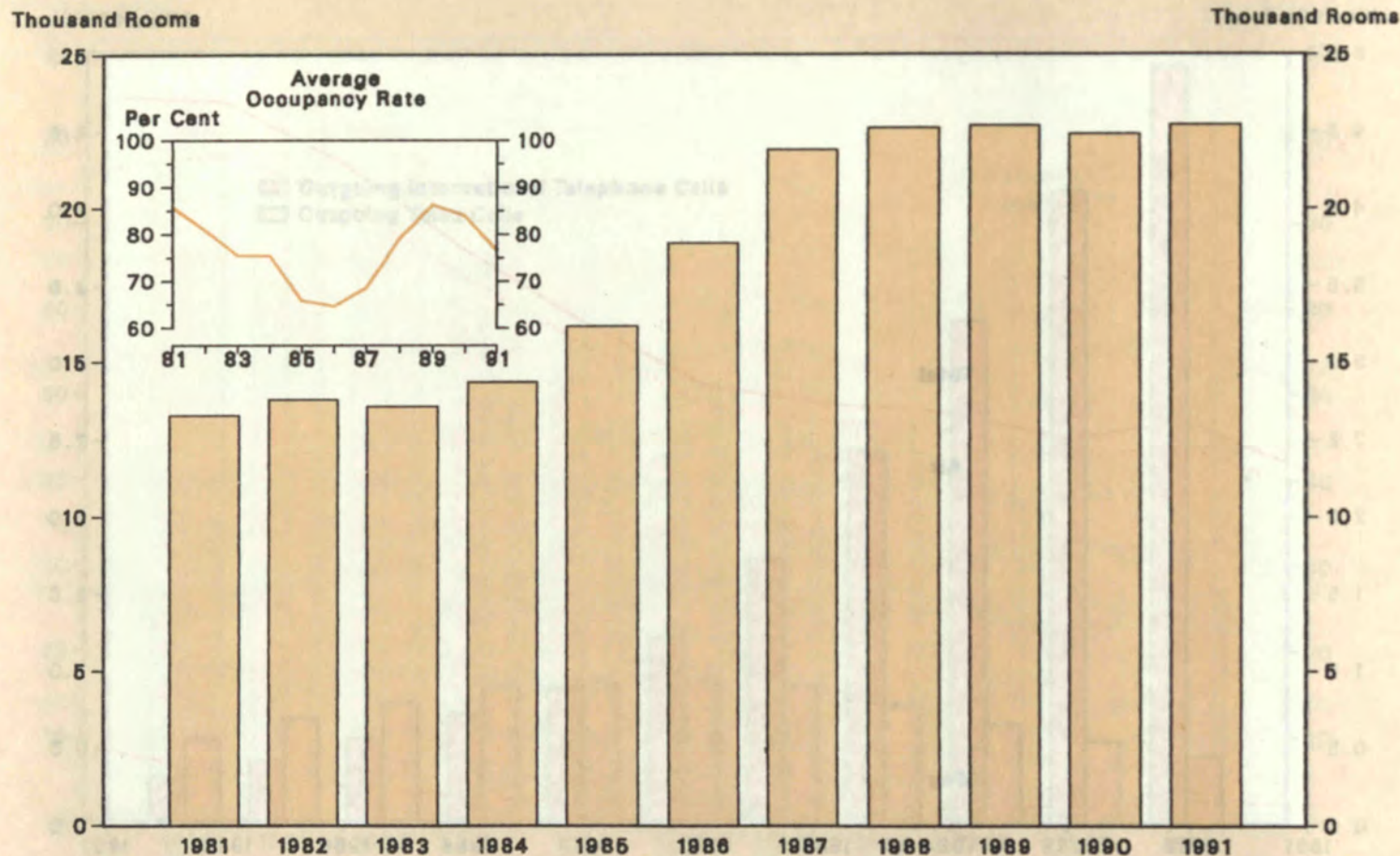


CHART 18

HOTEL ROOMS AND OCCUPANCY RATE, 1981-1991



12 BANKING, FINANCE AND INSURANCE

Before 1971, the various monetary functions normally associated with a central bank were performed by several government departments and agencies. To centralize 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 steady and non-inflationary economic growth in Singapore. It administers the statutes pertaining to money and banking and formulates policies for the development of a sound banking system and an orderly financial market. It aims to develop Singapore into an international financial centre.

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

Asian Dollar Market

The Asian Dollar Market was officially established in October 1968 when approval was first given for a bank to operate an Asian Currency Unit (ACU). Since then, merchant banks have also been allowed to operate ACUs. There are now a total of 198 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. The MAS also publishes the Annual Report of the Insurance Commissioner which contains a write-up on the performance of the insurance industry during the year, together with detailed statistics. The report is usually available around July of the following year.

More statistics on banking, finance and insurance may also be found in the "Monthly Statistical Bulletin" published by MAS.

Post Office Savings Bank

The Post Office Savings Bank of Singapore (POSBank) was incorporated under the Post Office Savings Bank of Singapore Act (Chapter 237). The principal objectives of the Bank are:

- (a) to conduct the general business of a savings bank and promote saving and encourage thrift; and
- (b) to mobilise domestic savings for public development.

Savings in POSBank are fully guaranteed by the government. Interest earned on savings accounts is tax-exempt. POSBank offers Passbook and Passcard Savings accounts, Save-As-You-Earn (SAYE) and Current accounts. The deposit base at the end of each year includes interest credited.

Central Provident Fund

Please see text on page 52.

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 gold and foreign exchange, Special Drawing Rights and Singapore's reserve position in the IMF.

Special Drawing Rights (SDR) : Refers to an international reserve asset created by the International Monetary Fund (IMF) and allocated to its members in proportion to their quotas as a supplement to existing reserve assets. The SDR is a unit of account of the IMF. The valuation of the SDR is determined on the basis of a basket of five currencies: the US Dollar, the Deutschemark, the French Franc, the Japanese Yen and the Pound Sterling.

12.1 CURRENCY IN CIRCULATION, 1981-1991

End of Year	Gross Circulation			Active Circulation ¹	Ratio of Active to Gross Circulation
	Total	Notes	Coins		
	Million Dollars				Per Cent
1981	3,689.6	3,487.4	202.2	3,381.8	91.7
1982	4,339.1	4,114.6	224.5	3,996.0	92.1
1983	4,739.7	4,492.7	247.0	4,335.3	91.5
1984	5,033.4	4,767.5	265.9	4,619.2	91.8
1985	5,149.1	4,871.0	278.1	4,739.0	92.0
1986	5,484.2	5,188.6	295.6	5,033.4	91.8
1987	5,885.7	5,561.5	324.2	5,439.8	92.4
1988	6,702.2	6,323.1	379.1	5,996.7	89.5
1989	7,138.0	6,735.6	402.4	6,610.0	92.6
1990	7,711.8	7,222.3	489.5	7,108.5	92.2
1991	8,168.7	7,645.7	523.0	7,497.1	91.8

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.

Source : Board of Commissioners of Currency, Singapore

12.2 MONEY SUPPLY, 1981-1991

Million Dollars

End of Period	Money Supply (M3)										
	Total (1) [(2) + (3) + (4)]	Net Deposits with Non-bank Financial Institutions ¹		Money Supply (M2)							
		Finance Companies (2)	Post Office Savings Bank (3)	Total (4) [(5) + (9)]	Quasi Money				Money Supply (M1)		
					Total (5) [(6) + (7) + (8)]	Fixed Deposits (6)	S\$ Negotiable Certificate of Deposits (7)	Savings and Other Deposits (8)	Total (9) [(10) + (11)]	Currency in Active Circulation ² (10)	Demand Deposits of Private Sector (11)
1981	24,991.5	2,395.3	2,925.1	19,671.1	12,429.0	10,144.7	210.3	2,074.0	7,242.1	3,381.8	3,860.3
1982	29,676.1	3,224.8	3,647.3	22,804.0	14,647.2	11,698.0	228.5	2,720.7	8,156.8	3,996.0	4,160.8
1983	33,742.9	4,188.8	4,028.4	25,525.7	16,918.0	12,930.0	203.6	3,784.4	8,607.7	4,335.3	4,272.4
1984	36,053.0	4,813.6	4,118.6	27,120.8	18,254.5	13,704.4	33.0	4,517.1	8,866.3	4,619.2	4,247.1
1985	37,028.5	4,359.3	4,521.5	28,147.7	19,362.7	13,789.2	24.7	5,548.8	8,785.0	4,739.0	4,046.0
1986	40,184.8	4,060.4	5,169.5	30,954.9	21,133.6	13,846.9	391.4	6,895.3	9,821.3	5,033.4	4,787.9
1987	47,147.9	4,490.5	5,568.2	37,089.2	26,058.7	17,407.3	761.2	7,890.2	11,030.5	5,439.8	5,590.7
1988	52,823.5	5,092.9	5,643.0	42,087.6	30,129.9	20,898.1	846.8	8,385.0	11,957.7	5,996.7	5,961.0
1989	64,007.8	6,709.2	5,753.1	51,545.5	37,800.9	27,207.8	1,138.7	9,454.4	13,744.6	6,609.9	7,134.7
1990	75,792.4	7,419.4	6,527.9	61,845.1	46,584.2	35,965.9	1,160.3	9,458.0	15,260.9	7,108.5	8,152.4
1991	84,199.7	7,557.3	7,100.1	69,542.3	53,112.3	40,852.0	921.8	11,338.5	16,430.0	7,497.1	8,932.9

1 Refer to deposits of finance companies and the Post Office Savings Bank less their deposits with banks and discount houses which have been included in M2. Discount houses ceased operations in May 1987.

Source : The Monetary Authority of Singapore

2 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.

12.3 CHANGES IN MONEY SUPPLY AND UNDERLYING FACTORS, 1981-1991 (Changes During Year)

Million Dollars

Year	Money Supply (M1)	Private Sector			Public Sector			Net Foreign Assets of Banking System		Others
		Bank Credit to Private Sector	Quasi Money	Excess of Lending or of Deposits (-)	Bank Credit to Government	Government Deposits with Banks	Excess of Lending or of Deposits (-)	Monetary Authorities ¹	Banks	
1981	1,107.5	5,043.2	2,498.6	2,544.6	373.0	3,530.9	-3,157.9	2,533.4	-994.8	182.2
1982	914.7	4,356.2	2,218.2	2,138.0	358.6	4,721.7	-4,363.1	2,454.7	-715.9	1,401.0
1983	450.9	5,356.5	2,270.8	3,085.7	559.6	5,021.5	-4,461.9	3,793.9	-2,826.0	859.2
1984	258.6	3,026.6	1,336.5	1,690.1	247.9	4,447.1	-4,199.2	2,889.3	-1,600.2	1,478.6
1985	-81.3	189.0	1,108.2	-919.2	267.3	3,350.4	-3,083.1	2,088.8	1,017.9	814.3
1986	1,036.3	-1,303.4	1,770.9	-3,074.3	-44.1	-1,685.0	1,640.9	691.9	3,788.5	-2,010.7
1987	1,209.2	2,208.2	4,925.1	-2,716.9	1,310.7	461.3	849.4	945.1	1,810.2	321.4
1988	927.2	4,095.2	4,071.2	24.0	125.6	4,776.7	-4,651.1	1,628.8	1,995.3	1,930.2
1989	1,786.9	7,967.3	7,671.0	296.3	1,414.0	7,573.4	-6,159.4	2,981.9	2,618.6	2,049.5
1990	1,516.3	7,040.6	8,783.3	-1,742.7	1,096.5	3,601.4	-2,504.9	7,799.1	-3,045.3	1,010.1
1991	1,169.1	6,928.2	6,528.1	400.1	1,842.2	3,034.0	-1,191.8	5,062.3	1,670.8	-4,779.9

¹ Refer to the Monetary Authority of Singapore and the Board of Commissioners of Currency, Singapore.

Source : The Monetary Authority of Singapore

12.4 OFFICIAL FOREIGN RESERVES, 1981-1991

Million Dollars

End of Year	Total Foreign Reserves	Special Drawing Rights	Reserve Position in the International Monetary Fund	Gold & Foreign Exchange
1981	15,491.1	75.6	173.0	15,242.5
1982	17,917.9	127.5	183.1	17,607.3
1983	19,755.3	150.9	184.9	19,419.5
1984	22,768.0	147.3	186.2	22,434.5
1985	27,070.9	164.9	212.2	26,693.8
1986	28,157.5	195.4	228.8	27,733.3
1987	30,441.7	224.5	240.5	29,976.7
1988	33,276.6	232.7	228.3	32,815.6
1989	38,607.2	247.1	215.5	38,144.6
1990	48,521.3	274.9	212.5	48,033.9
1991	55,795.2	279.1	199.7	55,316.4

Source : The Monetary Authority of Singapore

12.5 EXCHANGE RATES, 1981-1991

Period	Singapore Dollar Per									
	Malaysian Ringgit	US Dollar	Sterling Pound	Deutsche-Mark	French Franc	100 Japanese Yen	100 Korean Won	100 New Taiwan Dollar	Hong Kong Dollar	Australian Dollar
1981	0.9174	2.1127	4.2845	0.9378	0.3907	0.9581	0.3103	5.7363	0.3788	2.4286
1982	0.9166	2.1400	3.7450	0.8829	0.3270	0.8618	0.2927	5.4707	0.3532	2.1754
1983	0.9107	2.1136	3.2061	0.8296	0.2787	0.8903	0.2725	5.2752	0.2926	1.9074
1984	0.9104	2.1331	2.8486	0.7517	0.2448	0.8987	0.2647	5.3879	0.2729	1.8756
1985	0.8864	2.2002	2.8448	0.7520	0.2464	0.9275	0.2531	5.5221	0.2824	1.5428
1986	0.8441	2.1774	3.1958	1.0074	0.3151	1.3010	0.2472	5.7584	0.2790	1.4609
1987	0.8362	2.1060	3.4489	1.1727	0.3506	1.4595	0.2561	6.6354	0.2700	1.4758
1988	0.7691	2.0124	3.5837	1.1488	0.3388	1.5713	0.2750	7.0387	0.2578	1.5775
1989	0.7203	1.9503	3.1983	1.0391	0.3062	1.4173	0.2905	7.3890	0.2500	1.5445
1990	0.6702	1.8125	3.2262	1.1223	0.3331	1.2548	0.2563	6.7432	0.2327	1.4157
1991	0.6283	1.7276	3.0559	1.0449	0.3073	1.2843	0.2357	6.4415	0.2223	1.3454

Note : Figures refer to the average rates for the year.

Source : The Monetary Authority of Singapore

12.6 ASSETS OF BANKS, 1981-1991
(End of Period)

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	44,630.7	48,537.2	56,537.8	65,707.2	70,618.0	76,833.3	86,483.6	96,441.2	127,201.7	134,002.0	136,093.4
Cash	222.4	247.9	275.4	291.4	303.5	334.2	328.4	568.3	401.3	471.2	532.9
Amounts Due from Banks	11,824.2	9,823.6	11,904.5	17,087.8	20,768.4	28,000.6	33,853.2	38,148.1	57,238.3	55,205.7	47,683.7
In Singapore	4,196.0	3,727.9	3,699.2	4,088.4	5,341.5	6,694.3	9,270.5	8,832.6	15,165.8	18,438.4	12,058.4
Outside Singapore ¹	7,628.2	6,095.7	8,205.3	12,999.4	15,426.9	21,306.3	24,582.7	29,315.5	42,072.5	36,767.3	35,625.3
Balances with The Monetary Authority of Singapore	1,195.4	1,417.5	1,557.6	1,742.3	1,830.1	1,907.9	2,153.2	2,370.9	3,314.1	3,486.3	4,227.4
Money at Call with Discount Houses ²	1,478.0	1,917.9	2,049.9	2,387.2	2,290.1	2,316.0	-	-	-	-	-
S\$ Negotiable Certificates of Deposit Held	89.0	76.9	136.5	133.1	105.0	134.2	135.5	145.8	283.0	296.6	271.7
Investments in Securities & Equities	2,739.6	3,686.3	4,390.3	4,378.9	5,073.0	5,449.6	8,525.3	9,052.6	10,818.3	12,365.7	14,224.9
In Singapore	2,666.9	3,562.7	4,249.9	4,236.7	4,880.4	5,089.1	8,270.6	8,805.4	10,537.6	12,024.1	13,894.2
Outside Singapore	72.7	123.6	140.4	142.2	192.6	360.4	254.7	247.2	280.7	341.6	330.7
Loans & Advances Including Bills Financing	25,229.1	29,442.9	34,045.8	36,867.5	37,403.1	35,792.8	37,868.6	41,848.8	50,785.9	57,696.4	64,009.1
Bills Discounted or Purchased	3,979.4	4,107.3	3,900.4	4,124.8	3,628.1	4,113.1	3,599.6	4,096.9	4,533.4	4,952.0	5,466.0
Payable outside Singapore	1,493.2	1,592.9	1,341.2	1,315.6	1,254.4	1,354.5	1,424.2	1,403.9	1,523.4	1,535.9	1,332.3
Payable in Singapore	2,486.2	2,514.4	2,559.2	2,809.2	2,373.6	2,758.6	2,175.4	2,693.0	3,009.9	3,416.1	4,133.7
Loans & Advances	21,249.7	25,335.6	30,145.4	32,742.7	33,775.0	31,679.8	34,269.0	37,751.9	46,252.5	52,744.4	58,543.0
All Other Assets	1,853.0	1,924.2	2,177.8	2,819.0	2,844.8	2,898.0	3,619.5	4,306.6	4,360.7	4,480.0	5,143.8

¹ Include Asian Currency Units.

Source : The Monetary Authority of Singapore

² Discount houses ceased operations in May 1987.

12.7 LIABILITIES OF BANKS, 1981-1991 (End of Period)

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	44,630.7	48,537.2	56,537.8	65,707.2	70,618.0	76,833.3	86,483.6	96,441.2	127,201.7	134,002.0	136,093.4
Deposits of Non-bank Customers	20,007.9	23,408.7	26,265.5	28,026.3	28,744.5	30,612.6	36,393.0	42,475.3	53,351.1	63,979.7	72,241.1
Demand Deposits	4,441.0	4,781.4	4,982.7	4,856.7	4,700.2	5,422.9	6,657.9	6,636.2	8,019.2	9,169.9	10,290.8
Fixed Deposits	13,315.4	15,619.7	17,099.6	18,191.5	17,940.8	17,609.6	21,008.6	26,507.5	34,972.0	44,407.3	49,528.9
Savings Deposits	2,168.1	2,917.4	4,079.9	4,870.1	5,982.8	7,426.1	8,482.0	9,024.7	9,952.2	10,009.8	11,981.1
Other Deposits	83.4	90.2	103.3	108.0	120.7	154.0	244.6	306.9	407.7	392.6	440.3
S\$ Negotiable Certificates of Deposit Issued	404.5	428.0	471.6	300.7	263.6	696.4	896.8	992.6	1,421.7	1,457.0	1,193.4
Amounts Due to Banks	15,366.0	14,426.4	18,803.7	25,403.9	29,531.0	33,303.9	36,397.5	39,327.6	57,475.1	52,697.1	45,002.1
In Singapore	4,241.3	3,941.6	3,895.1	4,275.2	5,724.1	6,833.5	8,560.4	8,872.9	16,391.9	14,512.3	10,419.7
Outside Singapore ¹	11,124.7	10,484.8	14,908.6	21,128.7	23,807.0	26,470.4	27,837.1	30,454.7	41,083.2	38,184.8	34,582.4
All Other Liabilities	8,852.3	10,274.1	10,997.0	11,976.3	12,078.8	12,220.4	12,796.4	13,645.6	14,953.7	15,868.2	17,656.8

¹ Include Asian Currency Units.

Source : The Monetary Authority of Singapore

12.8 BANKS' LOANS AND ADVANCES TO NON-BANK CUSTOMERS BY INDUSTRY, 1981-1991
(End of Period)

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total Loans and Advances including Bills Financing	25,229.1	29,442.9	34,045.8	36,867.5	37,403.1	35,792.8	37,868.6	41,848.8	50,785.9	57,696.4	64,009.1
Agriculture, Mining & Quarrying	144.2	151.2	132.0	155.0	147.4	101.5	111.2	81.4	78.8	85.6	96.9
Manufacturing	5,048.5	5,382.1	5,927.2	5,699.9	5,669.3	4,988.0	6,141.3	6,698.5	7,432.6	7,488.9	8,122.6
Building & Construction ¹	3,031.2	3,984.0	5,704.0	7,349.7	7,997.4	8,001.6	7,669.1	8,010.2	10,903.3	12,864.3	15,578.4
General Commerce	8,516.0	9,350.6	10,633.1	11,128.8	10,105.0	10,330.5	10,728.6	11,591.1	12,385.7	13,686.1	15,694.7
Transport, Storage & Communications	1,795.6	2,029.3	1,818.5	1,529.8	1,183.0	947.8	818.8	771.7	1,080.7	1,736.7	1,816.9
Financial Institutions	3,096.1	4,076.8	4,673.9	5,354.6	5,658.8	4,858.9	5,281.6	6,729.3	8,431.9	9,923.0	10,317.9
Professional & Private Individuals	2,218.8	2,581.4	3,368.3	3,785.7	4,285.9	4,389.6	4,641.5	5,180.3	6,981.4	7,752.3	8,290.2
Others	1,378.8	1,887.4	1,788.7	1,864.2	2,356.3	2,174.9	2,476.5	2,786.3	3,491.4	4,159.4	4,091.5

Note : All data on bills financing include bills refinanced by discount houses and the Monetary Authority of Singapore.
Discount houses ceased operations in May 1987.

Source : The Monetary Authority of Singapore

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

12.9 ASSETS AND LIABILITIES OF ASIAN CURRENCY UNITS, 1981-1991
(End of Period)

Million US Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
Total Assets	85,775.2	103,295.7	111,860.9	128,054.7	155,374.2	200,601.8	244,868.5	280,477.2	336,581.8	390,395.5	357,725.0
Loans to Non-bank Customers	19,452.2	27,606.3	30,384.6	33,766.1	37,440.3	38,741.8	55,010.8	66,550.7	86,393.5	125,516.0	134,078.2
Inter-bank Funds	62,173.1	69,564.4	74,446.8	85,329.0	104,933.2	146,609.7	171,092.9	194,755.5	228,725.2	239,119.8	197,028.2
In Singapore	1,495.2	1,738.5	2,791.4	3,832.1	4,618.7	4,926.5	5,079.7	5,254.2	7,329.6	8,744.6	8,221.1
Inter-Asian Currency Units	15,522.3	19,213.9	19,690.0	21,862.5	26,991.8	30,603.8	26,055.8	25,800.6	27,565.9	34,440.2	26,626.4
Outside Singapore	45,155.6	48,612.0	51,965.4	59,634.4	73,322.7	111,079.4	139,957.4	163,700.7	193,829.7	195,935.0	162,180.7
Other Assets	4,149.9	6,125.1	7,029.5	8,959.7	13,000.8	15,250.3	18,765.0	19,171.1	21,463.1	25,759.6	26,618.6
Total Liabilities	85,775.2	103,295.7	111,860.9	128,054.7	155,374.2	200,601.8	244,868.5	280,477.2	336,581.8	390,395.5	357,725.0
Deposits of Non-bank Customers	13,555.6	17,629.7	20,619.8	21,523.6	28,018.8	33,804.6	41,575.5	47,453.9	55,019.4	66,885.5	63,499.4
Inter-bank Funds	66,366.3	79,223.9	84,743.4	100,186.5	120,030.1	159,368.9	192,485.3	221,803.6	269,582.1	309,427.1	281,813.4
In Singapore	1,817.5	1,496.9	1,787.7	2,943.2	4,174.2	4,860.9	6,538.7	8,444.2	12,620.3	11,955.8	14,258.8
Inter-Asian Currency Units	15,523.0	19,226.6	19,697.9	21,866.5	26,993.8	30,603.5	26,056.6	25,801.4	27,566.5	34,438.1	26,624.1
Outside Singapore	49,025.8	58,500.4	63,257.8	75,376.8	88,862.1	123,904.5	159,890.0	187,558.0	229,395.3	263,033.2	240,930.5
Other Liabilities	5,853.4	6,442.2	6,497.7	6,344.5	7,325.3	7,428.5	10,807.6	11,219.7	11,980.4	14,082.8	12,412.1

Source : The Monetary Authority of Singapore

12.10 ASSETS AND LIABILITIES OF FINANCE COMPANIES, 1981-1991
(End of Period)

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total Assets	4,275.4	5,357.4	6,523.8	7,239.6	6,935.7	6,947.5	7,706.3	8,478.8	10,137.2	11,423.6	12,459.8
Cash	5.0	6.8	8.5	8.3	10.3	9.0	10.8	11.0	13.9	13.0	12.9
Balances with The Monetary Authority of Singapore	170.9	217.2	267.5	313.9	288.4	286.7	271.1	307.2	407.5	456.5	464.6
Deposits with Banks & Other Institutions	707.2	751.6	678.7	862.9	1,002.6	1,520.4	1,592.4	1,527.9	1,767.0	2,389.3	2,478.7
Investments	114.6	120.4	139.8	165.2	151.7	153.2	455.8	518.4	562.0	579.0	614.5
Loans & Advances	3,187.6	4,129.7	5,277.3	5,727.3	5,313.6	4,742.7	5,160.0	5,908.8	7,180.5	7,765.7	8,666.3
Hire Purchase Finance	891.7	887.1	904.3	833.2	583.7	420.8	563.0	1,039.7	1,732.0	2,076.8	2,384.1
Housing Loans	763.6	879.7	1,165.8	1,348.9	1,386.5	1,445.1	1,544.6	1,506.7	1,683.4	1,606.2	1,523.9
Other Loans & Advances	1,532.3	2,362.9	3,207.2	3,545.2	3,343.4	2,876.8	3,052.4	3,362.4	3,765.1	4,082.7	4,758.3
Other Assets	90.1	131.7	152.0	162.0	169.1	235.4	216.1	205.5	206.3	220.1	222.9
Total Liabilities	4,275.4	5,357.4	6,523.8	7,239.6	6,935.7	6,947.5	7,706.3	8,478.8	10,137.2	11,423.6	12,459.8
Capital & Reserves	672.1	815.7	1,042.7	1,116.5	1,131.8	1,147.7	1,176.7	1,249.8	1,332.8	1,415.8	1,510.3
Deposits from Individuals & Institutions	2,942.2	3,711.5	4,564.1	5,278.3	5,014.0	4,889.1	5,362.9	5,824.9	7,384.4	8,397.2	8,972.1
Savings Deposits	75.9	112.3	171.8	209.2	278.8	332.4	325.9	315.0	308.1	273.2	296.2
Fixed Deposits	2,728.4	3,304.7	3,979.6	4,655.5	4,306.7	4,240.8	4,609.6	5,031.8	6,507.2	7,719.2	8,323.8
Other Deposits	137.9	294.5	412.7	413.8	428.5	315.9	427.3	478.1	569.0	404.9	352.1
Other Liabilities	661.1	830.2	917.0	844.8	789.9	910.8	1,166.7	1,404.1	1,420.1	1,610.6	1,977.4

Source : The Monetary Authority of Singapore

12.11 FINANCE COMPANIES' LOANS AND ADVANCES BY INDUSTRY, 1981-1991
(End of Period)

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	1,310.7	1,763.4	2,431.8	2,741.2	2,699.7	2,449.9	2,472.2	2,610.0	2,753.6	2,935.4	3,637.7
Agriculture, Mining & Quarrying	-	-	0.6	0.9	1.1	0.9	0.8	0.5	1.4	1.0	3.3
Manufacturing	164.6	167.7	228.7	217.6	223.9	231.1	249.4	236.5	177.7	180.0	229.9
Building & Construction	174.1	451.4	790.8	923.7	898.3	810.1	808.7	852.5	695.2	715.4	861.7
General Commerce	217.1	260.3	274.0	269.6	286.6	276.8	273.5	245.4	336.2	369.6	455.9
Transport, Storage & Communications	74.7	94.1	91.8	82.6	58.2	44.1	39.2	49.9	99.3	145.1	202.5
Financial Institutions	-	197.4	231.5	377.7	330.4	262.4	229.9	293.2	437.9	502.1	595.2
Professional & Private Individuals	390.5	458.6	622.4	682.4	715.2	648.4	646.5	669.8	761.5	736.2	938.4
Others	289.7	133.9	192.0	186.7	186.0	176.0	224.0	262.2	244.4	286.0	350.8

Source : The Monetary Authority of Singapore

12.12 ASSETS AND LIABILITIES OF MERCHANT BANKS, 1981-1991
(End of Period)

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total Assets	19,279.6	22,020.4	23,625.0	25,844.9	28,207.0	31,581.4	32,119.5	36,925.1	34,048.0	32,336.0	30,022.5
Amounts Due from Banks	9,442.4	9,317.4	9,399.7	9,303.9	9,768.7	11,084.6	12,067.2	14,670.2	13,057.6	12,920.6	11,573.2
In Singapore	201.3	260.4	218.5	189.4	332.1	370.7	472.6	491.4	523.6	664.0	682.2
Outside Singapore ¹	9,241.1	9,057.0	9,181.2	9,114.5	9,436.6	10,713.9	11,594.6	14,178.8	12,534.0	12,256.6	10,891.0
Loans & Advances to Non-bank Customers	8,916.6	11,313.6	12,497.1	13,710.7	12,721.7	13,232.9	12,861.7	12,503.7	11,340.4	11,271.9	10,590.8
Securities & Equities	391.5	815.2	1,209.8	2,056.6	4,989.0	6,405.9	5,914.1	8,250.3	8,368.2	7,173.1	7,029.4
Other Assets	529.2	574.2	518.5	773.6	727.7	857.9	1,276.5	1,501.0	1,281.8	970.4	829.1
Total Liabilities	19,279.6	22,020.4	23,625.0	25,844.9	28,207.0	31,581.4	32,119.5	36,925.1	34,048.0	32,336.0	30,022.5
Capital & Reserves	909.8	1,395.3	1,620.4	2,412.6	2,956.8	3,868.0	4,574.2	4,809.7	4,459.6	4,662.6	4,781.9
Amounts Due to Banks	16,295.6	18,137.4	19,065.8	19,872.5	20,638.0	21,363.0	19,461.9	21,565.0	20,841.6	19,229.5	18,039.7
In Singapore	347.8	317.1	581.5	750.2	709.3	483.6	678.4	710.6	895.7	543.7	565.6
Outside Singapore ¹	15,947.8	17,820.3	18,484.3	19,122.3	19,928.7	20,879.4	18,783.5	20,854.4	19,945.9	18,685.8	17,474.1
Borrowings from Non-bank Customers	1,599.1	1,876.1	2,369.4	2,720.5	3,801.2	5,170.5	6,221.9	7,481.5	6,567.8	6,845.9	5,956.4
Other Liabilities	475.1	611.6	569.4	839.3	811.0	1,179.9	1,861.5	3,069.0	2,179.0	1,598.1	1,244.5

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.

Source : The Monetary Authority of Singapore

¹ Include Asian Currency Units.

12.13 DOMESTIC INTEREST RATES, 1981-1991 (End of Period)

Per Cent Per Annum

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Banks¹											
Prime Lending Rate	11.83	9.33	8.98	9.40	7.20	6.10	6.10	6.13	6.25	7.73	7.10
Deposit Rates											
3 Months	7.43	6.16	6.53	6.00	4.58	2.88	2.90	2.95	3.35	5.05	3.84
6 Months	8.40	6.55	6.55	6.35	4.70	3.03	3.11	3.33	3.86	5.37	4.13
12 Months	8.95	7.08	6.75	6.80	4.88	3.30	3.56	4.03	4.55	5.48	4.17
Savings Deposit Rate	7.90	6.43	6.30	6.53	5.18	3.08	3.03	2.83	2.98	3.83	3.05
Finance Companies											
Deposit Rates²											
Up to 3 Months	12.40 ³	6.60	6.90	6.48	4.88	3.19	3.20	3.41	4.15	5.20	4.33
12 Months	11.50 ³	7.58	7.38	7.18	5.30	3.60	3.98	4.48	4.98	5.80	4.65
POSBank Savings Deposit Rate for Amounts											
Up to \$100,000	9.50	7.00	6.50	6.75	5.25	3.25	3.25	3.00	3.25	4.50	4.00
Exceeding \$100,000	7.00	5.50	5.50	5.75	4.00	2.25	2.25	2.00	2.25	3.50	3.00

1 Rates refer to the average quoted by 10 leading banks.

2 The deposit rates prior to 1982 are weighted by outstanding deposits. From 1982, the rates refer to the average nominal rates quoted by 10 leading finance companies.

3 As at end of September.

Source : The Monetary Authority of Singapore
Post Office Savings Bank

12.14 NUMBER OF ACCOUNTS AND DEPOSITS OF POST OFFICE SAVINGS BANK, 1981-1991

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Number of Accounts (End of Period)	2,075,705	2,282,362	2,492,924	2,725,439	2,959,761	3,177,039	3,398,350	3,626,768	3,848,520	4,056,137	4,288,268
Transaction Volume ('000)	19,131	22,027	27,640	34,922	45,564	59,178	71,586	80,112	92,258	104,090	116,637
Net Deposit Inflow (\$ Million)	285.3	1,492.8	855.5	704.4	1,437.8	1,052.5	340.9	674.9	624.7	246.9	1,720.1
Total Deposit Base (\$ Million) (End of Period)	3,293.3	5,076.1	6,240.9	7,333.1	9,192.6	10,637.5	11,281.1	12,261.7	13,210.1	13,387.6	15,645.5

Note : Data refer to Savings Accounts and include Current Accounts from 1984.
Current Accounts was implemented on 16 February 1984.

Source : Post Office Savings Bank

12.15 CONTRIBUTIONS AND WITHDRAWALS OF CENTRAL PROVIDENT FUND, 1981-1991

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
Amount											
Contributed	3,007.2	3,901.4	4,491.0	5,385.2	5,993.4	4,777.9	4,446.8	4,985.1	6,107.5	7,174.2	8,101.4
Withdrawn	1,067.6	1,241.2	1,717.9	3,509.3	3,359.7	3,823.8	4,297.2	4,010.2	3,663.3	3,994.7	4,656.1
Due to Members (End of Period)	12,149.8	15,655.5	19,504.7	22,670.4	26,829.5	28,341.4	30,607.8	32,529.3	36,051.6	40,646.4	46,049.0

Source : Central Provident Fund Board

12.16 WITHDRAWALS OF CENTRAL PROVIDENT FUND BY TYPE, 1981-1991

Year	Total	Approved Housing Schemes				Reached 55 Years of Age ¹		Leaving Singapore & Malaysia Permanently ²		Death		Medisave Scheme	Others ³
		Public Housing		Approved Residential Properties									
	\$Million	No. ⁴	\$Million ⁵	No. ⁴	\$Million ⁵	No.	\$Million	No.	\$Million	No	\$Million		
1981	1,067.6	52,919	652.0	1,036	39.1	19,158	294.5	3,800	33.0	2,300	19.5	-	29.5
1982	1,241.2	30,214	540.2	5,241	256.1	21,392	322.9	8,304	56.4	2,969	27.1	-	38.5
1983	1,717.9	40,015	726.0	6,298	396.4	26,717	437.8	14,635	104.3	3,509	31.3	-	22.1
1984	3,509.3	81,390	2,153.8	7,095	539.1	31,725	606.0	8,424	96.4	3,171	35.6	17.6	60.8
1985	3,359.7	64,550	1,784.9	7,618	781.5	24,641	506.2	10,085	146.3	3,325	40.5	43.9	56.4
1986	3,823.8	54,387	1,477.5	11,859	1,169.8	35,988	666.3	6,890	156.8	3,415	44.4	104.8	204.2
1987	4,297.2	45,111	1,408.4	12,287	1,239.1	24,399	548.0	5,070	143.9	3,141	48.6	140.5	768.7
1988	4,010.2	59,469	1,859.8	8,670	916.3	24,397	573.5	5,011	151.7	3,813	52.2	169.9	286.8
1989	3,663.3	42,497	1,343.9	12,180	1,071.2	27,349	619.3	5,076	161.5	4,065	54.2	178.2	235.0
1990	3,994.7	33,317	1,252.3	10,082	1,006.8	34,550	803.4	4,838	156.3	3,852	54.1	207.8	514.0
1991 ^p	4,656.1	47,526	1,731.2	14,841	1,269.3	31,423	731.6	4,702	157.2	4,587	62.8	231.2	472.8

1 Include first and subsequent withdrawals.

Source : Central Provident Fund Board

2 Include Malaysians leaving Singapore permanently.

3 Include withdrawals by persons who are physically/mentally incapacitated and the various CPF schemes - Minimum Sum, Medishield, Home Protection, Dependents' Protection, Education, Non-Residential Properties, Investment and SBS (1978) Ltd shares.

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

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

12.17 TURNOVER OF STOCKS AND SHARES, 1981-1991

Million

Year	Total		Industrial		Finance		Hotels		Properties		Mining		Plantation		Debentures, Loan Stocks & Bonds	
	Units	Dollars	Units	Dollars	Units	Dollars	Units	Dollars	Units	Dollars	Units	Dollars	Units	Dollars	Units	Dollars
1981	2,777.8	13,472.0	1,767.0	8,451.7	257.8	1,891.3	282.7	986.1	267.2	1,590.0	74.1	204.3	85.4	295.7	43.6	52.9
1982	1,666.1	5,176.7	981.9	2,930.9	201.1	1,172.0	113.7	242.3	181.3	616.3	32.6	64.2	39.3	79.5	116.2	71.5
1983	3,605.2	11,807.1	2,193.4	7,205.1	340.5	2,108.0	212.6	514.1	317.6	1,033.3	125.3	256.6	170.1	502.5	245.7	187.5
1984	3,042.6	8,211.2	2,101.5	5,628.9	238.9	1,235.7	139.8	309.9	135.7	319.6	150.8	256.5	123.0	357.1	152.9	103.5
1985	3,024.7	6,319.3	2,144.8	4,338.0	286.2	1,227.5	109.1	153.4	159.0	246.5	151.4	105.2	86.2	203.3	88.0	45.4
1986	3,951.4	8,000.5	2,607.5	5,107.0	410.8	1,760.5	178.4	174.6	412.1	614.1	32.1	33.9	123.1	215.6	187.4	94.8
1987	9,757.9	22,478.2	5,384.6	12,510.3	1,131.6	5,262.0	577.1	835.1	1,167.8	2,202.3	140.9	268.7	417.0	804.8	938.9	595.0
1988	7,152.3	12,817.0	3,593.3	7,096.6	530.7	2,177.9	298.3	354.6	1,188.1	1,785.1	119.4	255.9	307.8	642.8	1,114.7	504.1
1989	21,646.0	39,149.9	9,773.4	19,654.5	1,342.0	4,799.3	811.2	1,472.8	4,042.3	7,124.3	189.1	391.1	784.1	1,261.8	4,703.9	4,446.1
1990	18,487.0	36,756.0	8,921.7	19,177.4	2,394.3	6,172.8	882.0	1,583.2	2,966.9	5,978.7	51.0	95.7	1,061.7	1,385.9	2,209.4	2,362.3
1991	15,556.9	30,549.1	6,897.5	16,593.6	1,489.2	5,082.0	670.3	1,299.9	2,502.7	4,198.0	105.3	176.4	507.5	602.6	3,384.4	2,596.6

Source : Stock Exchange of Singapore

12.18 STOCK EXCHANGE OF SINGAPORE INDICES, 1981-1991
(1975 = 100)

Year	Industrial	Finance	Hotels	Properties	Mining	Plantation
1981	329.7	302.5	632.6	425.5	503.0	412.6
1982	252.8	279.0	518.8	394.6	313.6	350.8
1983	306.5	353.3	463.4	404.8	316.9	463.4
1984	300.9	338.4	392.2	378.6	317.7	507.6
1985	236.4	285.4	306.4	343.1	238.1	426.7
1986	202.4	272.7	243.1	320.1	179.8	320.3
1987	299.3	355.6	355.2	354.2	276.0	428.0
1988	251.1	282.5	343.7	326.7	239.3	412.8
1989	320.7	317.6	543.7	397.7	294.5	410.3
1990	375.7	355.9	564.3	337.6	na	na
1991	381.9	364.9	494.7	305.9	na	na

Note : Data for 1990 are computed based on the share prices of all listed Singapore companies.

Source : Stock Exchange of Singapore

12.19 PLEDGES AT PAWNSHOPS, 1981-1991

Year	Pledges		Amount of Loans	
	Received	Redeemed	Given Out	Redeemed Including Interest
	Number	Number	Million Dollars	Million Dollars
1981	1,912,592	1,821,172	406.1	413.2
1982	1,920,851	1,854,035	397.2	410.8
1983	1,947,232	1,848,226	451.0	446.5
1984	2,046,769	1,899,551	492.0	489.1
1985	2,177,003	1,959,618	513.8	505.3
1986	2,227,215	2,094,071	534.9	544.4
1987	2,211,369	2,103,051	586.7	584.5
1988	2,250,020	2,107,883	659.4	648.6
1989	2,294,121	2,121,106	679.1	677.0
1990	2,373,031	2,157,726	717.4	701.5
1991	2,465,730	2,220,781	754.6	734.7

Source : Registry of Pawnbrokers

12.20 LIFE INSURANCE POLICIES, 1981-1990

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
	Number									
Policies in Force (End of Period)	271,214	314,375	359,902	379,880	405,452	463,139	565,032	702,986	870,304	1,055,353
New Policies	49,539	70,374	78,212	57,013	63,712	92,819	138,821	181,167	215,755	237,279
Policies Matured or Discontinued	26,409	27,213	32,685	37,193	38,140	35,132	36,928	43,213	48,437	52,230
	Million Dollars									
Policies in Force										
Amount Insured (End of Period)	7,778.4	10,721.0	13,810.3	16,421.8	19,466.9	23,439.8	28,612.3	38,472.5	48,676.9	59,455.1
Premiums	198.0	250.4	305.3	332.5	363.5	424.3	538.5	695.3	896.1	1,122.8
New Policies										
Amount Insured	1,894.5	3,302.8	4,193.0	4,001.8	4,786.4	6,070.1	7,903.9	12,819.0	13,335.3	14,975.2
Premiums	43.5	70.3	79.0	60.6	67.6	97.7	150.9	200.9	250.1	285.5
Policies Matured or Discontinued										
Amount Insured	450.9	360.2	1,111.9	1,381.6	1,741.1	2,097.3	2,049.9	2,866.0	3,130.2	4,200.0
Premiums	15.5	17.9	28.0	33.5	36.6	36.8	36.7	44.1	49.5	58.9

Source : The Monetary Authority of Singapore

12.21 REVENUE AND EXPENDITURE ACCOUNTS OF LIFE INSURANCE FUNDS, 1981-1990

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total Revenue	933.2	1,116.3	1,314.4	1,528.4	1,759.3	2,068.5	2,510.7	2,949.2	3,665.0	4,611.0
Balance of Revenue Account at Beginning of Year	649.2	776.6	926.9	1,087.7	1,282.6	1,462.9	1,720.7	2,060.3	2,470.3	3,054.2
Premiums	191.8	237.0	282.5	299.0	341.4	398.3	515.2	654.1	844.2	1,076.4
Net Interest, Dividends & Rents	61.3	69.8	79.2	91.3	101.8	109.9	116.0	145.2	183.3	213.6
Miscellaneous	30.9	32.9	25.8	50.4	33.5	97.4	158.8	89.6	167.2	266.8
Total Expenditure	933.2	1,116.3	1,314.4	1,528.4	1,759.3	2,068.5	2,510.7	2,949.2	3,665.0	4,611.0
Claims on Death, Disability & Maturity	36.9	41.4	50.0	57.3	71.0	85.5	99.2	115.6	138.2	183.7
Surrenders	20.0	23.0	26.3	33.2	49.9	64.3	63.4	60.8	63.7	62.1
Cash Bonuses & Annuities	6.0	4.8	5.7	5.0	6.0	7.0	7.4	8.8	42.5	53.5
Management Expenses										
Commission	40.6	64.8	72.4	59.2	63.9	92.4	137.0	181.4	239.6	291.4
Salaries	8.9	11.9	12.8	15.5	18.9	18.7	21.9	27.2	33.0	43.8
Others	34.7	24.2	28.3	29.2	31.7	26.2	30.0	22.0	49.6	68.2
Miscellaneous	9.5	19.2	20.4	46.4	55.0	53.7	89.3	65.2	44.2	180.0
Balance of Revenue Account at End of Year	776.6	927.0	1,098.5	1,282.6	1,462.9	1,720.7	2,062.5	2,468.2	3,054.2	3,728.3

Source : The Monetary Authority of Singapore

12.22 ASSETS OF LIFE INSURANCE FUNDS, 1981-1990
(End of Period)

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	834.7	998.8	1,196.5	1,384.0	1,576.3	1,851.5	2,238.9	2,689.4	3,298.6	4,099.5
Land & Buildings	37.7	52.5	57.7	54.2	51.9	59.6	83.6	96.3	104.6	115.3
Loans	186.9	205.9	232.3	268.9	314.2	442.9	518.5	678.6	666.0	801.6
On Mortgages	93.1	100.6	108.4	110.7	127.3	240.1	291.9	371.4	323.0	347.5
On Policies	76.6	87.0	99.1	123.4	153.6	178.9	201.1	216.9	237.8	274.4
Others	17.2	18.3	24.8	34.8	33.3	23.9	25.5	90.3	105.2	179.7
Investments	424.2	513.0	620.0	701.7	741.6	935.1	1,139.1	1,320.5	1,703.1	2,053.6
Government & Statutory Authorities	198.2	236.1	283.1	354.7	380.0	457.0	518.5	603.2	741.3	842.6
Debentures & Shares ¹	226.0	276.9	336.9	347.0	361.6	478.1	620.6	717.3	961.8	1,211.0
Cash & Deposits	154.9	180.5	234.8	305.7	403.5	354.5	424.9	503.7	699.5	946.5
Miscellaneous (including Outstanding Premiums) ²	31.0	46.9	51.7	53.5	65.1	59.4	72.8	90.3	125.4	182.5

¹ Include other investments.

Source : The Monetary Authority of Singapore

² Include furniture.

12.23 PREMIUMS AND CLAIMS OF GENERAL INSURANCE FUNDS, 1981-1990

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total Net Premiums¹	397.7	431.0	441.0	440.9	433.6	421.4	442.9	508.6	588.8	692.7
Marine, Aviation or Transit	74.2	70.5	70.7	68.0	65.9	62.9	64.3	76.8	83.6	98.5
Others	323.5	360.5	370.3	372.9	367.7	358.5	378.6	431.8	505.2	594.2
Fire	61.2	68.1	69.7	71.3	76.4	72.1	69.4	71.9	77.8	87.8
Motor Vehicles	117.4	135.5	147.4	158.9	152.1	148.2	165.6	205.5	254.2	297.9
Miscellaneous	144.9	156.9	153.2	142.7	139.2	138.2	143.6	154.4	173.2	208.5
Total Net Claims²	146.7	165.6	186.7	195.4	220.6	230.1	218.1	225.2	258.7	302.7
Marine, Aviation or Transit	35.7	38.6	36.1	27.5	27.9	25.7	25.6	24.4	39.0	44.7
Others	111.0	127.0	150.6	167.9	192.7	204.5	192.5	200.8	219.7	258.0
Fire	18.8	17.1	21.7	20.4	20.9	30.1	18.6	22.7	27.7	28.5
Motor Vehicles	52.6	58.9	71.1	87.2	99.2	99.8	107.6	110.7	122.2	147.7
Miscellaneous	39.6	51.0	57.8	60.3	72.6	74.6	66.3	67.4	69.8	81.8

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

Source : The Monetary Authority of Singapore

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

12.24 REVENUE AND EXPENDITURE ACCOUNTS OF GENERAL INSURANCE FUNDS, 1981-1990

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total Revenue	896.7	958.0	1,077.5	1,126.4	1,166.7	1,236.5	1,361.5	1,507.3	1,724.1	2,032.1
Balance of Revenue Account at Beginning of Year	39.5	74.1	88.4	93.0	69.6	95.7	125.3	210.9	249.2	308.5
Reserves for Unexpired Risks at Beginning of Year	146.7	178.3	197.6	205.3	207.5	199.9	192.3	203.5	228.0	272.5
Loss Reserves at Beginning of Year	178.2	217.1	265.0	305.2	369.5	420.5	433.9	482.1	542.8	621.3
Net Premiums Written	397.7	431.0	441.0	440.9	433.6	421.3	442.9	508.6	588.8	692.7
Net Interest, Dividends & Rents	40.4	46.9	49.6	55.3	54.0	47.4	46.9	52.9	63.5	76.3
Miscellaneous	94.2	10.6	35.9	26.7	32.5	51.7	120.2	49.3	51.8	60.8
Total Expenditure	896.7	958.0	1,077.5	1,126.4	1,166.7	1,236.5	1,361.5	1,507.3	1,724.1	2,032.1
Net Claims Settled, Loss Reserves at End of Year	366.0	429.8	489.7	567.1	637.6	677.0	695.6	760.5	867.5	1,006.8
Management Expenses										
Commission	91.3	76.4	72.5	68.2	71.7	69.4	69.8	79.2	93.3	107.8
Others	88.1	87.6	98.1	102.9	102.3	110.3	106.9	120.4	136.1	157.4
Miscellaneous	97.3	76.8	110.8	109.5	57.9	58.1	71.0	68.3	54.0	107.6
Balance of Revenue Account at End of Year	75.4	90.1	101.3	70.1	97.3	125.3	216.5	251.5	307.3	341.1
Reserves for Unexpired Risks at End of Year	178.6	197.3	205.1	208.6	199.9	196.4	201.7	227.4	265.9	311.4

Source : The Monetary Authority of Singapore

12.25 ASSETS OF GENERAL INSURANCE FUNDS, 1981-1990
(End of Period)

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	684.4	797.7	873.3	907.1	943.3	985.3	1,123.4	1,259.2	1,427.4	1,656.6
Land & Buildings	42.8	42.6	42.9	40.7	39.6	35.5	39.4	41.1	49.8	52.2
Loans	5.3	7.6	11.4	12.1	12.5	13.5	16.3	23.1	16.4	15.1
Investments	229.6	256.4	290.7	302.4	305.2	369.4	468.5	529.8	637.7	694.6
Government & Statutory Authorities	108.6	128.5	147.6	166.5	172.2	186.5	214.7	240.6	266.6	291.2
Debentures & Shares	121.0	127.9	143.1	135.9	133.0	182.9	253.8	289.2	371.1	403.4
Cash & Deposits	294.6	361.9	394.3	412.7	443.8	429.7	457.6	512.1	555.3	687.4
Miscellaneous	112.1	129.2	134.0	139.2	142.2	137.2	141.6	153.1	168.2	207.3

Source : The Monetary Authority of Singapore

CHART 19

MONEY SUPPLY, 1981-1991
(At End of Period)

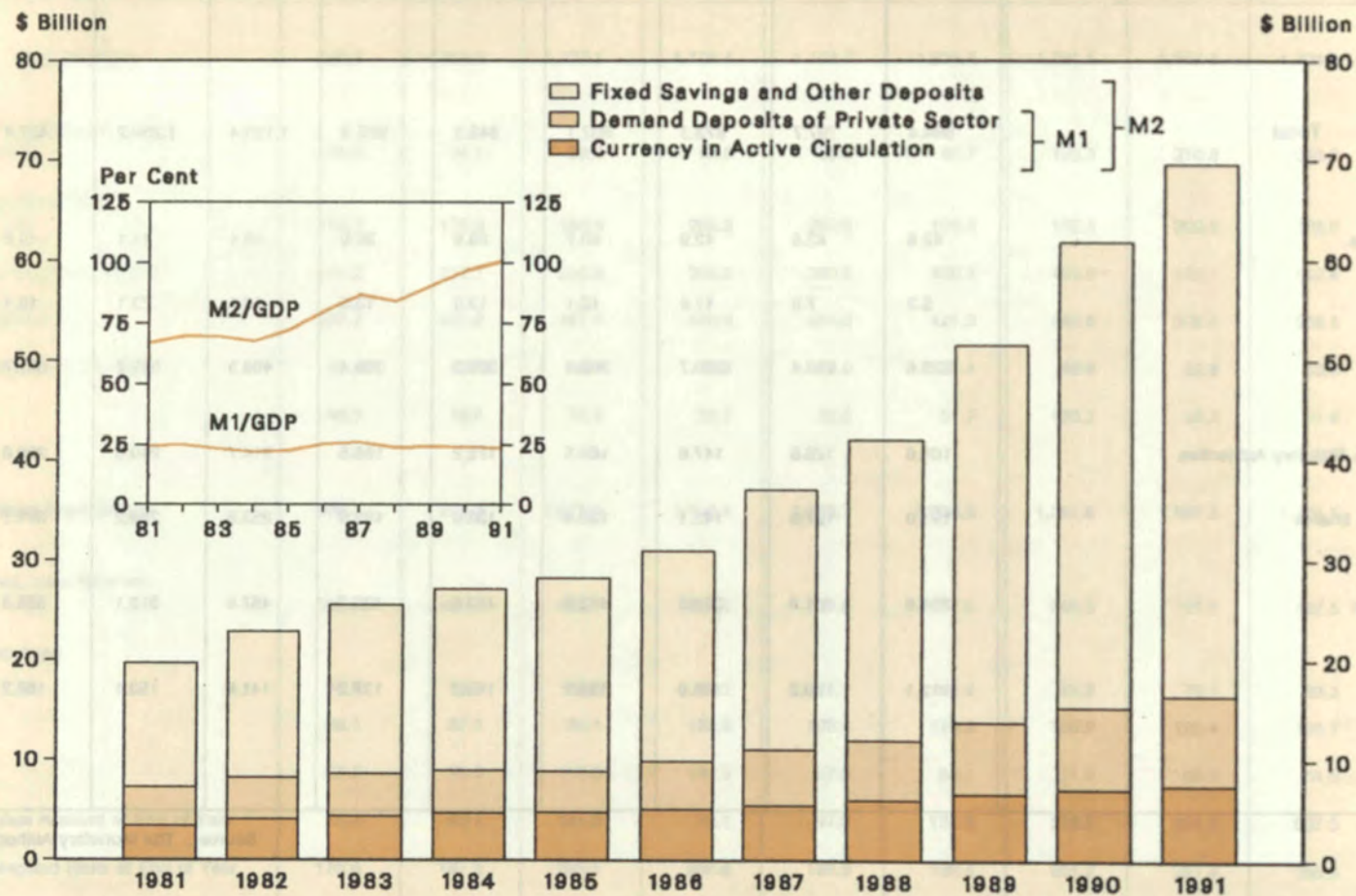


CHART 20

TYPE OF BANK DEPOSITS AND LOANS AND ADVANCES TO INDUSTRIES, 1981-1991
(At End of Period)

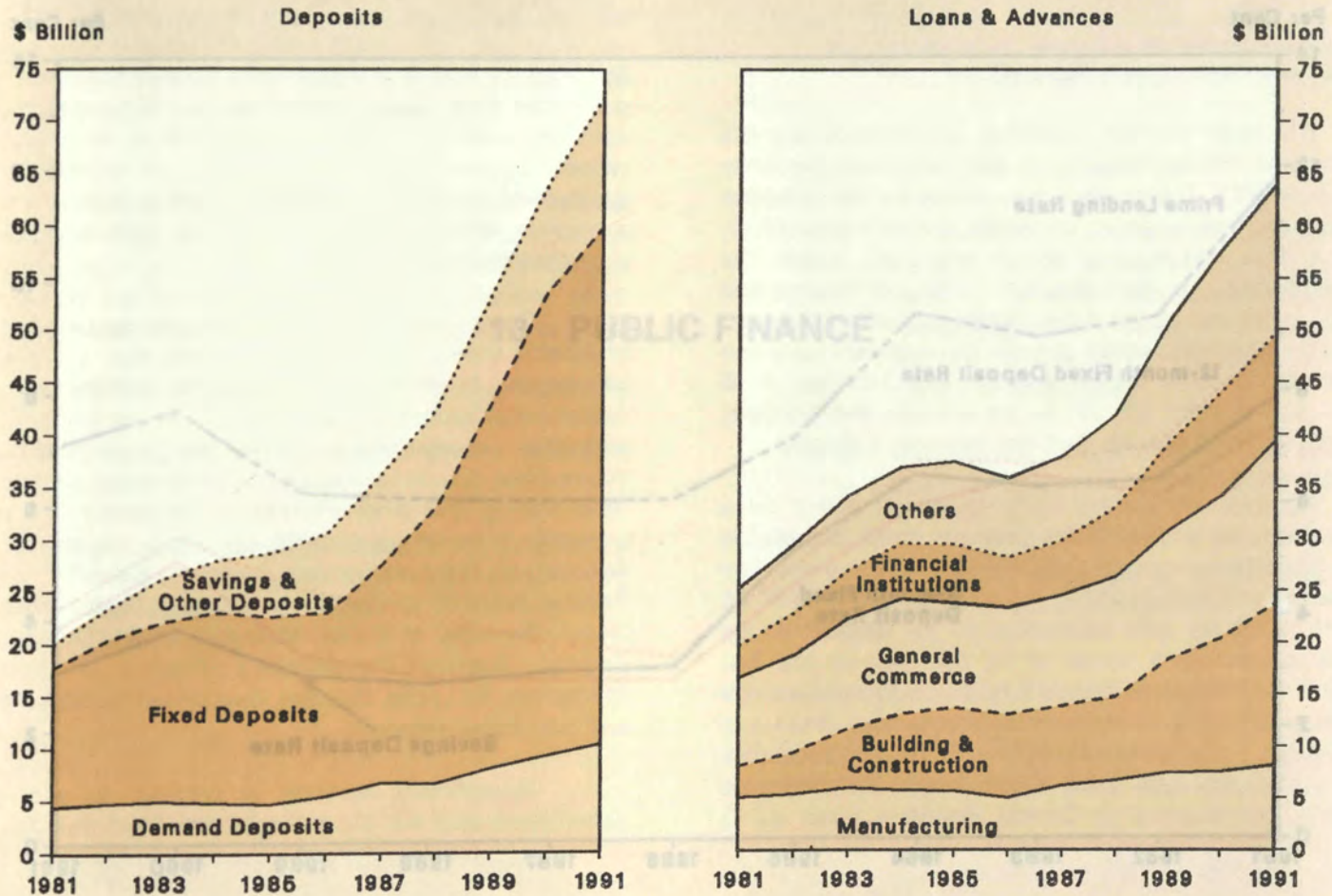
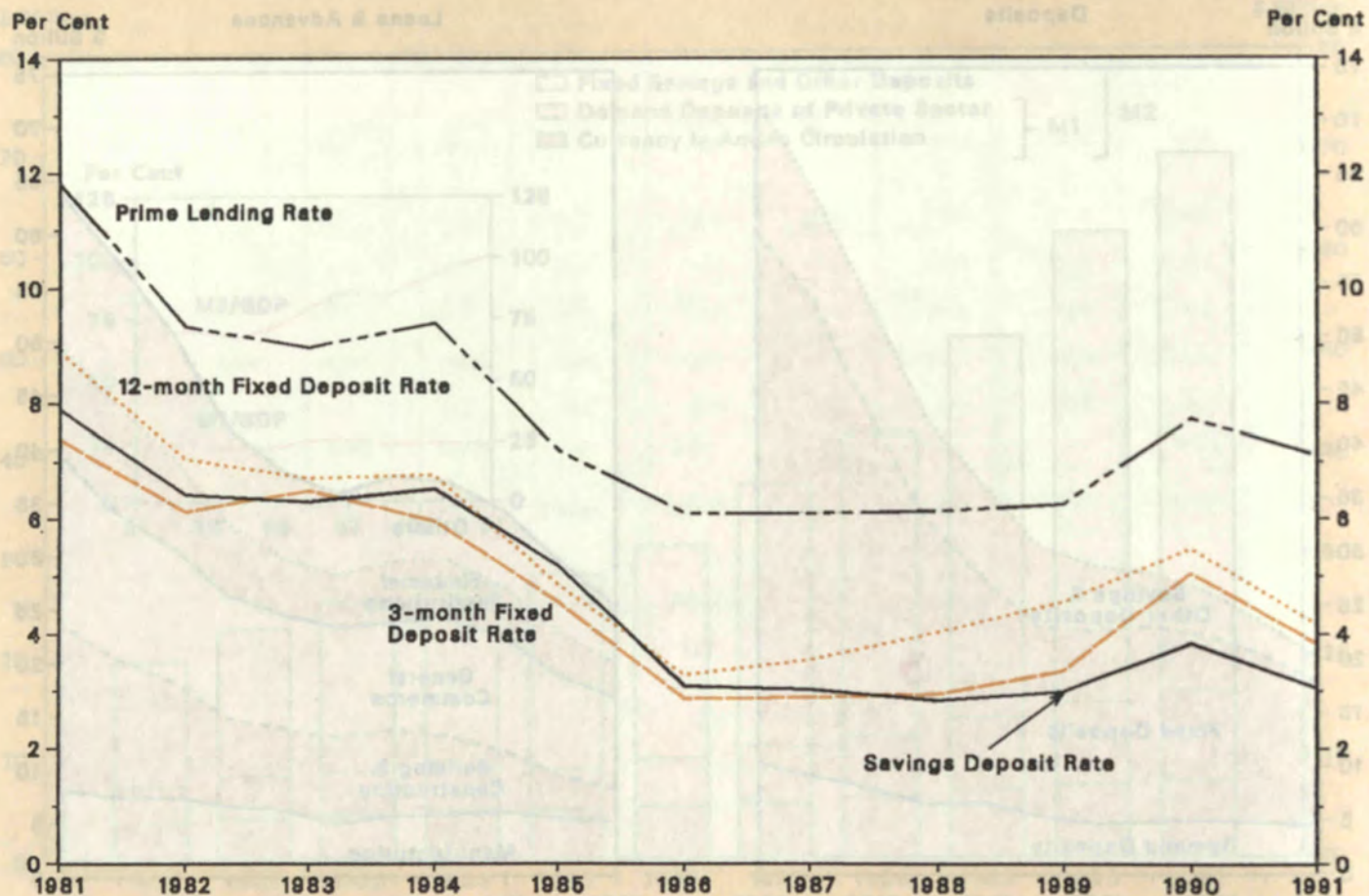


CHART 21

BANK INTEREST RATES, 1981-1991
(At End of Period)



Government Revenue and Expenditure

The main revenue collecting departments are the Customs and Excise Department and the Inland Revenue Department (IRD). The former is responsible for the collection of import and excise duties on liquor, tobacco, petroleum, motor vehicles, and film hire and entertainment duties. The IRD is responsible for the collection of taxes on income and property, estate and stamp duties, duties on sweepstakes and lotteries and the enforcement of Skills Development Levy and Charities Supervision. 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.

Personal income tax in Singapore is based on a progressive scale applied to the previous year's chargeable income after the appropriate deductions have been made. The tax rates for individual residents in Singapore range from 3.5 per cent to 33 per cent depending on the amount of the chargeable income. A rebate of 15 per cent on the first \$10,000 of the chargeable income is given. Deductions include allowances for personal relief, earned income, maintenance of wife, children and dependents, delivery and hospitalisation expenses for the new born fourth child, life insurance premiums, contributions to Central Provident Fund (CPF)

and approved pension schemes, compulsory course fees and cash used to top up an individual's or his parents' retirement account under the CPF Minimum Sum Scheme. Special rebates are also available for the new born second, third and fourth children. With effect from the Year of Assessment 1991, a relief of twice the foreign maid levy paid is available to women who qualify.

Company taxes are based on a flat rate of 31 per cent of income from the Year of Assessment 1991 with the usual allowances. In addition, special tax exemptions and liberal depreciation allowances are provided to pioneer companies and other export-orientated firms. The government has also entered into double taxation agreements with countries which have trading and other interests in Singapore. The treaties currently in force are with 26 countries, namely, Australia, Bangladesh, Belgium, Canada, Denmark, Finland, France, the Federal Republic of Germany, Indonesia, India, Israel, Italy, Japan, Republic of Korea, Malaysia, the Netherlands, New Zealand, Norway, the People's Republic of China, the Philippines, Sri Lanka, Sweden, Switzerland, Taiwan, Thailand, and the United Kingdom.

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. This Act defines the purposes and regulations of the Development Fund and also provides for the sums raised under any Loan Act to be paid into it.

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

The sources of funds for the Development Fund are:

- i) moneys appropriated from time to time from the Consolidated Fund;
- ii) proceeds of any loan raised for the purposes of the fund and appropriated to such purposes by the law raising the loan;

- iii) interest on investments of the fund and profits arising from the realization of any such investments; and
- iv) receipts of re-payments of any loans made from the fund, or 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.

13.1 GOVERNMENT REVENUE, 1981-1991

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
Total Revenue¹	7,344.6	8,989.5	10,612.6	11,250.7	10,829.4	10,970.4	10,470.9	13,775.9	15,508.9	16,424.7	19,569.4
Tax Revenue	5,214.0	6,181.5	7,080.5	7,591.0	6,774.4	5,188.1	5,525.4	8,263.1	9,606.4	10,533.8	12,016.8
Income Tax	2,634.3	3,248.0	3,523.3	3,568.3	3,006.7	2,231.8	2,356.6	4,339.7	4,388.4	4,908.2	6,062.9
Corporate & Personal Income Tax	2,634.3	3,248.0	3,523.3	3,568.3	3,006.7	2,231.8	2,356.6	2,839.7	3,618.6	4,396.0	5,346.5
Contributions by Statutory Boards	-	-	-	-	-	-	-	1,500.0	769.8	512.2	716.4
Assets Taxes	691.2	849.6	1,004.7	1,258.8	1,185.5	789.8	712.0	824.0	939.5	1,111.2	1,295.5
Motor Vehicle Taxes ²	525.5	613.2	672.1	699.1	682.1	522.6	634.6	1,041.9	1,458.4	1,337.5	1,164.2
Customs & Excise Duties	694.8	763.1	856.9	992.9	985.3	847.3	939.7	1,112.2	1,261.7	1,305.6	1,370.2
Betting Taxes	69.1	86.5	98.2	134.7	140.0	183.6	290.4	335.1	409.6	521.6	587.8
Stamp Duty	280.3	250.6	315.4	282.0	312.6	412.2	412.2	347.7	708.5	654.8	589.0
Others	318.8	370.5	609.9	655.2	462.2	200.8	179.9	262.5	440.3	694.9	947.2
Other Revenue	2,130.6	2,808.0	3,532.1	3,659.7	4,055.0	5,782.3	4,945.5	5,512.8	5,902.5	5,890.9	7,552.6
Fees & Charges	919.5	1,018.7	1,023.6	981.9	864.5	738.9	804.0	870.6	959.5	1,498.8	1,644.5
Investment Income ³	1,138.4	1,721.6	2,432.8	2,581.0	3,054.8	4,483.4	4,141.6	4,612.3	4,755.3	4,111.0	5,637.5
Other Receipts ⁴	72.7	67.7	75.7	96.8	135.7	560.0	-0.1	29.9	187.7	281.1	270.6

1 Total Revenue refers to receipts credited to the Consolidated Revenue Account, Development Fund Account and Sinking Fund Account, but excludes Capital Receipts.

Source : Ministry of Finance

2 Motor vehicle taxes 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 & Excise Duties.

3 Investment income includes currency surplus.

4 Other receipts exclude repayment of direct loans and advances.

13.2 GOVERNMENT RECURRENT EXPENDITURE, 1981-1991

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
Total¹	3,936.3	4,738.9	5,726.4	6,034.4	6,678.3	6,281.9	8,465.9	7,202.3	7,681.9	9,036.8	10,338.8
General Services	181.9	258.6	316.5	330.2	350.3	276.1	316.8	320.4	349.5	490.8	717.4
Defence, Justice & Police	1,350.2	1,618.0	1,724.0	1,972.2	2,574.6	2,365.0	2,419.2	2,420.5	2,825.7	3,396.9	3,786.3
Social & Community Services	1,147.7	1,442.3	1,804.9	2,111.5	2,160.8	2,059.2	2,040.2	2,274.5	2,482.2	2,687.7	2,885.1
Education	631.6	866.7	1,115.1	1,282.0	1,361.9	1,349.0	1,348.1	1,504.5	1,629.7	1,791.0	1,930.7
Health	257.3	313.3	342.0	376.3	419.1	400.7	397.4	432.1	460.9	464.2	490.6
Environment	132.8	158.8	164.3	177.5	188.4	169.5	159.2	176.3	189.9	187.2	187.0
Others	126.0	103.5	183.5	275.7	191.4	140.0	135.5	161.6	201.7	245.3	276.8
Economic Services	288.0	383.9	346.5	300.1	249.5	230.4	240.4	239.8	260.3	333.9	268.5
Debt Servicing	909.4	956.7	1,445.3	1,220.0	1,201.3	1,190.6	3,279.7	1,753.2	1,532.3	1,870.9	2,404.5
Pensions	59.1	79.4	89.2	100.4	141.8	160.6	169.6	193.9	231.9	256.6	277.0

¹ Government Recurrent Expenditure refers to payments from the Consolidated Revenue Account, but excludes contributions to the Development Fund, Revolving Fund, Sinking Fund and repayment of loans.

Source : Ministry of Finance

13.3 GOVERNMENT DEVELOPMENT EXPENDITURE, 1981-1991

Million Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
Total¹	1,601.8	1,782.0	2,068.5	2,248.6	2,919.3	3,310.5	5,214.4	4,711.4	2,944.5	4,220.3	3,524.5
General Services	177.3	267.8	252.4	349.9	622.8	731.8	671.1	379.3	359.0	343.5	104.8
Defence, Justice & Police	215.1	73.5	168.5	53.5	230.1	198.9	194.6	237.2	253.3	316.8	444.3
Social & Community Services	536.8	679.4	786.2	776.9	858.1	796.4	1,920.2	2,528.2	1,400.8	809.0	1,549.0
Education	196.9	326.9	467.9	445.5	447.4	388.7	316.2	187.8	144.8	234.6	372.7
Health	63.9	65.1	60.7	84.7	77.7	40.2	39.9	42.4	66.0	48.4	135.6
Environment	233.3	239.5	204.1	198.1	297.8	312.3	323.5	253.8	228.7	223.4	509.5
Housing	-	-	-	-	-	-	1,172.9	1,982.5	901.7	180.4	455.9
Others	42.7	47.9	53.5	48.6	35.2	55.2	67.7	61.7	59.6	122.2	75.3
Economic Services	672.6	761.3	861.4	1,068.3	1,208.3	1,583.4	2,428.5	1,566.7	931.4	2,751.0	1,426.4

¹ Government Development Expenditure excludes loans to statutory boards, industrial and commercial enterprises, and land transactions between government and statutory boards.

Source : Ministry of Finance

13.4 SOURCES AND USES OF DEVELOPMENT FUND, 1981/82-1991/92

Million Dollars

Financial Year	Balance (Beginning of Financial Year)	Sources				Uses			
		Total	Consolidated Revenue Account	Consolidated Loan Account	Others	Total	Government Development Expenditure	Loans to Statutory Boards & Enterprises	Others
1981/82	9,235.0	3,241.0	1,703.8	13.8	1,523.4	5,154.7	1,614.5	2,584.5	955.7
1982/83	7,321.3	5,197.0	1,995.1	1,330.4	1,871.5	4,997.8	1,951.0	3,046.8	-
1983/84	7,520.5	10,586.1	1,984.4	6,190.5	2,411.2	6,388.4	2,138.8	4,249.6	-
1984/85	11,718.2	7,963.0	2,393.1	12.1	5,557.8	7,216.9	3,580.5	3,636.4	-
1985/86	12,464.3	5,859.0	2,261.8	10.0	3,587.2	8,555.5	3,264.0	5,291.5	-
1986/87	9,767.8	11,104.8	5,879.7	3.3	5,221.8	10,578.1	4,634.6	5,943.5	-
1987/88	10,294.5	36,482.4	1,543.8	30,826.4	4,112.2	7,087.3	5,548.3	1,539.0	-
1988/89	39,689.6	8,433.6	-	3,098.1	5,335.5	5,187.6	3,635.3	1,552.3	-
1989/90	42,935.6	9,312.8	-	4,744.8	4,568.0	5,078.2	4,115.9	662.3	300.0
1990/91	47,170.2	6,796.4	-	2,496.0	4,300.4	5,004.4	3,356.4	1,648.0	-
1991/92 ^p	48,962.2	6,106.3	-	2,640.3	3,466.0	6,612.4	4,285.4	2,327.0	-

Source : Accountant-General's Department

13.5 GOVERNMENT DEBT, 1981-1991

Million Dollars

End of Year	Total	Domestic					External ¹					
		Total	Registered Stocks	Bearer Bonds	Treasury Bills & Deposits	Advance Deposits	Total	UK Special Aid	World Bank	Asian Development Bank	Capital Market Loan	Others
1981	17,138.2	16,241.8	11,333.0	80.0	1,943.3	2,885.5	896.4	232.0	143.5	16.0	436.0	68.9
1982	20,730.4	19,855.7	12,556.1	80.0	1,839.8	5,379.8	874.7	224.1	137.1	43.9	408.9	60.7
1983	25,031.5	24,359.9	18,438.6	40.0	1,723.0	4,158.3	671.6	217.4	129.8	70.3	202.0	52.1
1984	28,077.3	27,435.9	18,207.9	-	1,835.7	7,392.3	641.4	211.2	121.8	80.6	184.4	43.4
1985	32,164.4	31,568.1	18,107.4	-	1,420.5	12,040.2	596.3	205.4	112.6	79.9	163.7	34.7
1986	33,793.1	33,341.7	17,790.1	-	1,998.4	13,553.2	451.4	198.9	101.6	73.5	55.4	22.0
1987	38,274.3	37,971.1	34,021.3	-	2,780.0	1,169.8	303.2	62.0	72.4	60.0	61.8	47.0
1988	41,830.7	41,589.9	36,972.5	-	2,360.0	2,257.4	240.8	51.3	59.6	48.3	51.6	30.0
1989	46,209.7	46,071.0	40,499.1	-	1,900.0	3,671.9	138.7	38.3	48.2	36.8	-	15.4
1990	51,425.6	51,357.7	41,149.8	-	2,070.0	8,137.9	67.9	35.0	13.5	14.3	-	5.1
1991	59,041.1	59,000.3	41,810.2	-	3,470.0	13,720.1	40.8	25.2	8.2	6.4	-	1.0

¹ Figures were computed at market rates.

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

13.6 REVENUE COLLECTED BY CUSTOMS AND EXCISE DEPARTMENT, 1981-1991

Million Dollars

Year	Total	Import & Excise Duties					Entertainment Duties	Film Hire Duty	Licence Fees	Miscellaneous Receipts
		Liquors	Tobacco	Petroleum	Motor Vehicles	Others				
1981	748.4	167.7	168.3	184.1	126.0	52.9	36.4	4.0	4.4	4.6
1982	813.7	173.5	176.9	206.1	149.9	53.9	40.7	4.1	4.6	4.0
1983	913.5	193.4	195.4	265.1	148.7	56.9	41.1	3.8	5.4	3.7
1984	1,046.3	214.3	227.3	381.0	107.0	61.4	40.8	3.8	5.4	5.3
1985	1,022.6	203.7	227.9	431.8	62.0	60.7	21.1	4.1	5.8	5.5
1986	883.1	191.9	228.4	330.0	57.2	46.8	13.8	4.1	6.4	4.5
1987	961.8	218.8	214.5	335.0	113.8	49.3	15.3	4.1	6.9	4.1
1988	1,147.4	241.4	250.0	350.6	225.8	44.6	16.6	5.1	7.3	6.0
1989	1,297.3	245.3	263.9	409.2	295.1	48.7	16.9	5.4	7.8	5.0
1990	1,345.5	235.6	257.3	500.1	256.2	57.4	19.8	5.2	8.3	5.6
1991	1,414.4	234.4	306.9	533.5	248.9	55.2	14.2	6.1	9.1	6.1

Source : Customs and Excise Department

13.7 REVENUE COLLECTED BY INLAND REVENUE DEPARTMENT, 1981-1991

Million Dollars

Year	Total	Income Tax ¹	Property Tax ²	Estate Duties	Stamp Duties	Bets, Sweepstakes & Private Lotteries ³	Skills Development Levy ⁴	Others ⁵
1981	3,919.1	2,628.4	648.3	47.6	279.2	68.3	112.9	134.4
1982	4,714.5	3,251.2	807.5	43.2	251.8	86.4	112.6	161.8
1983	5,249.1	3,527.4	948.8	61.2	314.2	102.8	112.4	182.3
1984	5,546.0	3,568.7	1,204.1	49.0	280.7	130.1	109.1	204.3
1985	4,829.3	2,999.8	1,195.3	32.7	314.2	140.0	66.2	81.1
1986	3,617.7	2,235.2	719.0	26.3	413.0	191.9	30.9	1.4
1987	3,758.7	2,338.9	678.0	25.7	410.5	282.0	22.5	1.1
1988	4,399.8	2,861.3	807.3	15.6	348.2	342.0	24.6	0.8
1989	5,714.8	3,623.0	911.9	27.8	717.6	410.8	22.7	1.0
1990	6,706.0	4,415.0	1,065.0	46.0	644.2	514.1	20.4	1.3
1991	7,850.1	5,340.2	1,248.7	46.3	592.5	613.9	7.7	0.8

1 Include compounding fees.

Source : Inland Revenue Department

2 Include compounding fees and surcharges on property tax.

3 Include duty on Toto sales on account of withdrawal of exemption wef 1 Oct 1983.

4 Amount directly credited to the Skills Development Fund. The levy was reduced from 2 per cent to 1 per cent wef April 1986.

5 Include Payroll Tax which was suspended wef April 1985, Search and Valuation fees, Auctioneers, Appraisers and Housing Agent fees, Court Attendance fees and Radio & Television Licensing Fees which were collected by the Singapore Broadcasting Corporation.

13.8 TAXPAYERS, ASSESSED INCOME AND TAX ASSESSED, 1989 AND 1990

	Taxpayers			Assessed Income			Tax Assessed		
	Total	Resident	Non-resident	Total	Resident	Non-resident	Total	Resident	Non-resident
	Number			Million Dollars					
	1989								
Total	949,683	933,636	16,047	26,524.9	25,332.1	1,192.9	3,675.8	3,383.2	292.6
Individuals	932,766	917,722	15,044	18,695.3	18,579.7	115.7	1,266.6	1,241.8	24.8
Employees	789,616	776,130	13,486	15,354.4	15,272.3	82.1	959.3	943.2	16.2
Sole Proprietors	103,160	101,829	1,331	2,176.0	2,153.3	22.7	181.8	176.7	5.1
Partners	39,990	39,763	227	1,164.8	1,154.0	10.8	125.4	121.9	3.6
Companies	15,269	14,266	1,003	7,803.1	6,725.9	1,077.2	2,401.6	2,133.8	267.8
Trusts	865	865	-	15.0	15.0	-	4.8	4.8	-
Clubs & Associations	783	783	-	11.5	11.5	-	2.8	2.8	-
	1990								
Total	604,493	585,056	19,437	24,114.4	22,043.9	2,070.5	4,098.0	3,631.9	466.2
Individuals	587,833	569,796	18,037	13,674.1	13,492.3	181.7	1,085.1	1,042.9	42.2
Employees	496,565	479,857	16,708	11,108.3	10,999.1	109.2	796.6	775.3	21.3
Sole Proprietors	56,867	55,592	1,275	1,396.9	1,333.2	63.7	145.8	127.7	18.1
Partners	34,401	34,347	54	1,168.9	1,160.1	8.8	142.7	139.8	2.8
Companies	15,811	14,411	1,400	10,417.0	8,528.3	1,888.7	3,005.6	2,581.7	423.9
Trusts	651	651	-	20.5	20.5	-	6.5	6.5	-
Clubs & Associations	198	198	-	2.8	2.8	-	0.7	0.7	-

Notes : Figures for 1989 refer to assessments made during the period 1.1.89 to 31.12.90 (24 months).
Figures for 1990 refer to assessments made during the period 1.1.90 to 31.12.90 (12 months).

Source : Inland Revenue Department

13.9 ASSESSED INCOME AND TAX ASSESSED ON INDIVIDUALS BY ASSESSED INCOME GROUP, 1989 AND 1990

Assessed Income Group (\$)	Taxpayers			Assessed Income			Tax Assessed		
	Total	Resident	Non-resident	Total	Resident	Non-resident	Total	Resident	Non-resident
	Number			Million Dollars					
	1989								
Total	932,766	917,722	15,044	18,695.3	18,579.7	115.7	1,266.6	1,241.8	24.8
6,000 & below	95,992	83,920	12,072	442.0	413.3	28.6	8.6	3.8	4.8
6,001 - 8,000	122,051	121,475	576	865.7	861.7	4.0	10.8	10.0	0.8
8,001 - 10,000	133,437	133,135	302	1,196.9	1,194.2	2.7	16.9	16.3	0.6
10,001 - 15,000	211,981	211,437	544	2,597.4	2,590.6	6.7	49.3	47.9	1.4
15,001 - 20,000	118,563	118,217	346	2,051.8	2,045.8	6.0	56.9	55.7	1.3
20,001 - 30,000	114,034	113,586	448	2,761.8	2,750.8	11.0	108.0	105.8	2.2
30,001 - 50,000	78,060	77,669	391	2,981.3	2,966.1	15.2	174.0	170.9	3.1
50,001 - 100,000	42,276	42,001	275	2,846.2	2,827.5	18.7	273.7	269.8	3.9
100,001 - 200,000	12,642	12,575	67	1,701.2	1,692.3	9.0	272.6	270.1	2.6
200,001 - 1,000,000	3,660	3,641	19	1,132.8	1,125.4	7.4	260.8	258.7	2.1
1,000,001 and above	70	66	4	118.3	112.0	6.3	34.9	32.9	2.1
	1990								
Total	587,833	569,796	18,037	13,674.1	13,492.3	181.7	1,085.1	1,042.9	42.2
6,000 & below	57,609	42,643	14,966	243.3	207.1	36.3	7.7	2.1	5.7
6,001 - 8,000	54,827	54,169	658	389.8	385.3	4.5	5.7	4.9	0.8
8,001 - 10,000	74,237	73,845	392	668.5	665.0	3.5	9.8	9.3	0.6
10,001 - 15,000	140,150	139,664	486	1,721.3	1,715.3	6.0	31.5	30.4	1.1
15,001 - 20,000	77,956	77,569	387	1,347.9	1,341.2	6.7	34.5	33.4	1.2
20,001 - 30,000	74,727	74,303	424	1,807.7	1,797.3	10.4	66.4	64.6	1.8
30,001 - 50,000	57,149	56,733	416	2,192.7	2,176.7	16.0	125.8	123.0	2.8
50,001 - 100,000	35,890	35,644	246	2,447.1	2,430.9	16.2	235.8	232.9	2.9
100,001 - 200,000	11,884	11,840	44	1,595.2	1,589.7	5.5	254.4	253.1	1.3
200,001 - 1,000,000	3,340	3,327	13	1,019.9	1,015.1	4.8	237.5	236.2	1.2
1,000,001 and above	64	59	5	240.6	168.8	71.8	76.0	53.0	23.0

Note : See notes to Table 13.8.

Source : Inland Revenue Department

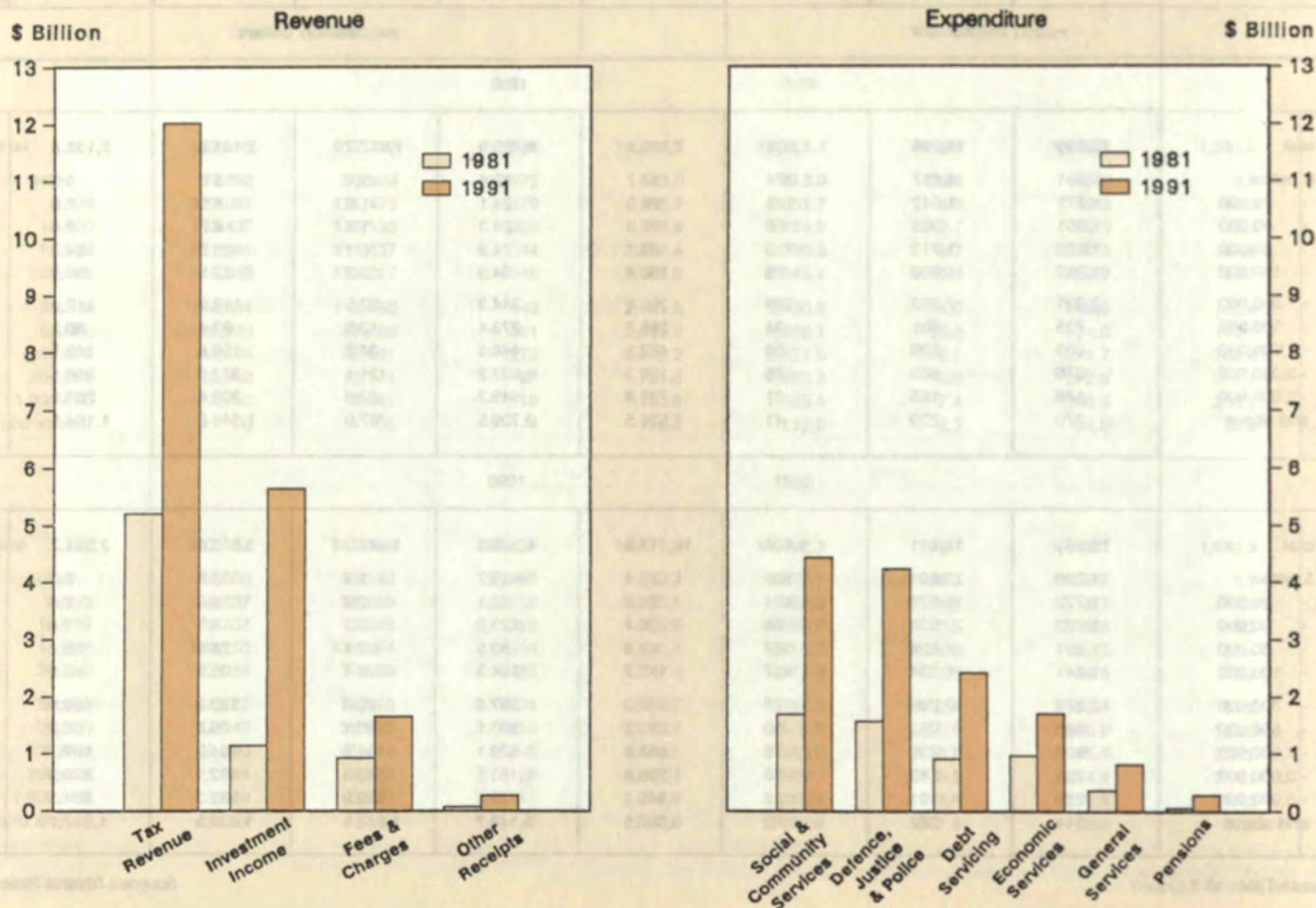
**13.10 ASSESSED INCOME AND TAX ASSESSED ON COMPANIES BY ASSESSED INCOME GROUP,
1989 AND 1990**

Assessed Income Group (\$)	Taxpayers			Assessed Income			Tax Assessed		
	Total	Resident	Non-resident	Total	Resident	Non-resident	Total	Resident	Non-resident
	Number			Million Dollars					
	1989								
Total	15,269	14,266	1,003	7,803.1	6,725.9	1,077.2	2,401.6	2,133.8	267.8
10,000 & below	4,691	4,417	274	17.7	16.6	1.1	5.8	5.5	0.4
10,001 - 20,000	1,771	1,642	129	26.0	24.1	1.9	8.5	7.9	0.6
20,001 - 30,000	1,051	985	66	26.0	24.3	1.6	8.5	8.0	0.5
30,001 - 60,000	1,828	1,713	115	80.1	74.9	5.1	26.3	24.6	1.7
60,001 - 100,000	1,287	1,208	79	100.4	94.3	6.2	32.9	30.9	2.0
100,001 - 300,000	2,091	1,962	129	366.8	344.3	22.5	119.9	112.6	7.4
300,001 - 500,000	735	701	34	286.2	273.4	12.9	93.4	89.2	4.3
500,001 - 1,000,000	689	639	50	482.2	448.0	34.2	156.4	145.5	10.9
1,000,001 - 3,000,000	670	605	65	1,158.3	1,037.2	121.1	372.6	336.5	36.2
3,000,001 - 5,000,000	186	165	21	732.8	649.2	83.6	230.4	208.8	21.6
5,000,001 and above	270	229	41	4,526.5	3,739.5	787.0	1,346.8	1,164.5	182.3
	1990								
Total	15,811	14,411	1,400	10,417.0	8,528.3	1,888.7	3,005.6	2,581.7	423.9
10,000 & below	4,296	3,891	405	17.4	15.7	1.7	5.6	5.0	0.6
10,001 - 20,000	1,772	1,578	194	25.9	23.1	2.8	8.3	7.4	0.9
20,001 - 30,000	1,022	936	86	25.4	23.2	2.2	8.1	7.4	0.7
30,001 - 60,000	1,991	1,824	167	87.9	80.5	7.4	28.0	25.7	2.3
60,001 - 100,000	1,441	1,334	107	112.7	104.3	8.4	35.9	33.2	2.7
100,001 - 300,000	2,378	2,209	169	417.3	387.6	29.7	132.2	122.9	9.3
300,001 - 500,000	803	753	50	313.2	293.1	20.1	99.4	93.2	6.2
500,001 - 1,000,000	806	730	76	583.6	529.1	54.5	184.2	167.7	16.5
1,000,001 - 3,000,000	739	683	56	1,286.8	1,183.5	103.3	402.2	370.9	31.3
3,000,001 - 5,000,000	219	191	28	849.4	739.4	109.9	262.3	231.2	31.1
5,000,001 and above	344	282	62	6,697.5	5,148.7	1,548.8	1,839.5	1,517.1	322.4

Note : See notes to Table 13.8.

Source : Inland Revenue Department

GOVERNMENT REVENUE AND EXPENDITURE, 1981 AND 1991



Consumer Price Index (CPI)

The Consumer Price Index (September 1987-August 1988=100) measures the price changes over time of a fixed basket of goods and services commonly consumed by households. It is based on the list of items and weighting pattern derived from the Household Expenditure Survey conducted from September 1987 to August 1988. The expenditure records of 5,174 households with monthly expenditure of \$500 - \$4,999 were used as the weighting pattern. These households constituted 90 per cent of all households surveyed.

The index is compiled monthly using the base-weighted Laspeyres' formula. The yearly index is the simple average of the twelve monthly indices. To obtain the annual rate of inflation for the year, the yearly index is compared with that of the preceding year.

The CPI is published in the Department's "Monthly Digest of Statistics". Additional detailed CPI data and analysis of consumer price changes are available in the monthly report

of the Consumer Price Index. More information on the methodology may also be obtained from the memorandum on "The Consumer Price Index, Singapore, based on Household Expenditure Survey, 1987/88".

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 parts of the country. The frequency of pricing depends on the price stability of the items. Prices are collected thrice weekly for perishable food items such as fish, vegetables, meat and poultry and weekly for sundries and provisions. Clothing materials, furniture, consumer durables and some miscellaneous items including items of services are priced monthly. Items with infrequent price fluctuations (eg house rents, school fees, public utilities charges, bus fares) are priced quarterly, yearly or as and when their prices are revised. Altogether 740 items of goods and services are selected for regular pricing in the CPI. For each of these items, a number of brands, varieties and grades from different retailers are chosen. The total number of items priced, including brands, varieties and grades is 2,020.

Other Price Indices

Other price indices consist of the Domestic Supply Price Index and Indices on Singapore manufactured products, imported products, exported products, building materials, selected farm products and property. 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 base-weighted Laspeyres' formula using 1985 as the base year.

The list of items and weighting patterns for the Singapore manufactured products were derived from data collected in the 1984 Census of Industrial Production, while those for the exported and imported products were derived from exports and imports statistics of 1984. For the building materials price index, the weights were derived from the 1984 Census of Industrial Production and the 1984 external trade statistics. 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. Those for the building materials were proportionate to the consumption of materials of the building and construction industries.

Data are collected monthly by mail from importers, exporters and manufacturers. Data on selected farm products are, however, obtained from the Primary Production Department. 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 these publications: A Technical Note on Import Price Index, Export Price Index, Singapore Manufactured Products Price Index and the Domestic Supply Price Index.

The collection and compilation of data for the Property Price Index are undertaken by the Urban Redevelopment Authorities of the Ministry of National Development.

Produce Prices

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

14.1 CONSUMER PRICE INDEX, 1981-1991

Section	All Items	Food	Clothing	Housing	Transport & Communications	Miscellaneous
Period \ Weights ¹	10,000	3,977	570	1,717	1,450	2,286
September 1987 - August 1988 = 100						
1981	92.1	95.1	102.3	95.9	92.9	80.3
1982	95.7	99.9	102.7	98.0	95.2	83.8
1983	96.8	100.2	102.8	98.3	95.9	87.8
1984	99.3	101.7	102.3	100.3	99.6	92.7
1985	99.8	100.5	99.8	102.8	102.9	93.9
1986	98.4	99.0	97.4	100.9	99.0	95.0
1987	98.9	98.8	97.8	99.9	100.0	97.6
1988	100.4	100.2	101.1	100.1	100.9	100.3
1989	102.8	101.7	102.7	101.6	105.5	103.9
1990	106.3	102.5	103.7	107.5	113.7	108.2
1991	110.0	104.0	105.5	109.5	121.6	114.4
Percentage Change Over Previous Year						
1981	8.2	9.6	1.8	4.3	9.5	8.6
1982	3.9	5.0	0.4	2.2	2.4	4.4
1983	1.2	0.3	0.1	0.3	0.8	4.8
1984	2.6	1.5	-0.4	2.1	3.8	5.6
1985	0.5	-1.2	-2.5	2.5	3.3	1.2
1986	-1.4	-1.4	-2.3	-1.9	-3.8	1.2
1987	0.5	-0.2	0.3	-1.0	1.1	2.8
1988	1.5	1.4	3.4	0.3	0.9	2.7
1989	2.4	1.5	1.6	1.5	4.5	3.7
1990	3.4	0.8	0.9	5.7	7.8	4.1
1991	3.4	1.5	1.7	1.8	7.0	5.8

¹ The weights refer to the consumption pattern of 1987/88 and are used in the computation of the indices for the years 1989-1991. Indices for the period 1981-1982 and 1983-1988 relate to the consumption pattern of 1977/78 and 1982/83 respectively.

14.2 PRICE INDICES OF SELECTED CONSUMER ITEMS, 1981-1991
(September 1987 - August 1988 = 100)

	Utility				Private Road Transport			Miscellaneous		
	Water Tariff	Electricity Tariff	Gas Tariff	Liquefied Petroleum Gas	Petrol, Premium	Petrol, Inter- mediate	Other Running Costs	Primary School Miscellaneous Fees	Secondary, Pre-U & JC School & Miscellaneous Fees	Consultation Fees for Adult & Children at Outpatient Dispensary
Weights Per 10,000	94.0	212.0	28.0	39.0	244.0	32.0	120.0	13.0	29.0	124.0
Period										
1981	60.0	134.1	152.4	124.9	118.1	126.7	70.6	80.9	93.8	67.8
1982	69.8	134.8	152.4	123.1	117.3	124.3	70.6	80.9	93.8	71.8
1983	70.8	127.9	139.2	121.9	121.1	123.8	72.6	94.4	97.7	80.6
1984	82.3	125.0	127.4	121.6	136.8	139.1	89.8	94.4	97.7	90.5
1985	82.3	124.1	127.0	121.6	151.5	154.5	98.7	94.4	97.7	94.5
1986	89.7	109.7	112.7	107.7	107.7	108.0	100.0	94.4	97.7	94.9
1987	100.0	99.6	103.6	98.9	103.2	103.2	99.9	94.4	97.7	98.3
1988	100.0	97.3	98.0	99.9	97.6	97.4	101.4	104.5	101.9	101.1
1989	100.0	92.0	100.2	98.4	108.3	108.9	124.2	107.9	106.5	104.6
1990	100.0	97.3	105.6	103.2	126.1	126.2	136.2	107.9	114.5	110.9
1991	101.3	96.2	118.7	114.1	131.7	126.6	136.6	134.8	145.0	125.4

Note : See note to Table 14.1

14.3 RETAIL PRICES OF SELECTED FOODSTUFFS, 1981-1991

Dollars

Year	Rice & Other Cereals				Meat & Poultry					Milk & Eggs		
	Thai Rice 100%	Instant Noodles	Rice Vermicelli ¹	Bread	Lean Pork	Pork Rib Bones	Fresh Beef	Fresh Mutton	Hen	Condensed Milk	Powdered Milk	Hen Eggs
	5 kg	425g Pkt	400g Pkt	400g	Per kg					397g Tin	2 kg tin	Per 10
1981	6.43	1.85	.70	.62	7.15	6.84	11.87	10.30	4.34	1.14	12.11	1.73
1982	5.50	1.95	.63	.63	7.86	7.89	12.21	11.00	4.80	1.15	13.48	1.67
1983	5.38	1.76	.68	.62	7.96	7.96	12.60	10.98	4.59	1.15	14.05	1.54
1984	5.35	1.78	.70	.67	7.33	7.56	12.60	10.98	4.62	1.12	14.02	1.67
1985	4.60	1.75	.70	.67	6.68	7.14	13.12	10.97	4.51	1.01	13.81	1.57
1986	4.05	1.75	.70	.67	6.22	6.79	13.28	10.92	4.23	.95	13.70	1.46
1987	3.93	1.74	.67	.68	6.24	6.88	13.32	10.80	4.11	.93	13.70	1.46
1988	4.63	1.77	.67	.67	6.57	7.30	12.51	10.80	4.02	.97	13.98	1.57
1989	4.78	1.77	.65	.68	6.86	7.59	13.00	10.94	4.15	1.10	15.68	1.46
1990	4.85	1.77	.62	.72	6.50	7.33	12.98	10.84	4.15	1.13	16.44	1.50
1991	4.88	1.76	.69	.72	6.02	7.00	13.04	10.44	4.15	1.10	15.96	1.48

1 Prior to 1982, prices refer to 500g packet.

14.3 RETAIL PRICES OF SELECTED FOODSTUFFS, 1981-1991 (continued)

Dollars

Year	Cooking Oils		Fish & Other Sea Products						Vegetables			
	Deodorised Oil	Corn Oil	Kurau (cut)	White Pomfret	Spanish Mackerel (Tenggiri)	Gold Banded Scad (Kunning)	Fresh Prawns	Fresh Cuttlefish	Cabbage	Spinach (Bayam)	Small Mustard	Kale
	2 kg bottle		Per kg						Per kg			
1981	5.24	6.49	17.70	14.72	7.12	3.70	20.45	4.04	1.52	1.14	1.77	3.05
1982	5.03	6.24	18.79	15.53	8.64	4.52	23.02	4.57	1.48	1.40	2.20	3.67
1983	4.96	5.83	20.66	13.85	8.54	4.65	23.59	4.97	1.65	1.55	2.42	4.17
1984	5.50	6.20	20.36	14.40	8.61	4.77	23.13	4.87	1.42	1.86	2.50	4.42
1985	5.49	6.05	20.93	14.55	8.38	5.05	21.77	5.20	1.55	1.77	2.28	4.29
1986	5.34	5.79	22.03	13.89	8.34	5.62	22.73	5.19	1.43	1.60	1.99	3.58
1987	5.29	5.64	22.59	13.33	8.05	5.04	23.78	5.37	1.61	1.76	2.37	4.14
1988	5.31	5.64	22.72	13.52	8.03	5.15	24.89	5.59	1.66	1.74	2.33	3.96
1989	5.28	6.14	23.87	13.78	8.20	5.27	23.19	5.22	1.58	1.67	2.12	3.47
1990	5.24	5.70	25.39	13.98	8.36	5.23	21.75	5.01	1.64	1.82	2.21	3.41
1991	5.18	5.79	26.57	14.88	8.50	5.43	22.47	5.38	1.71	2.10	2.42	3.47

14.3 RETAIL PRICES OF SELECTED FOODSTUFFS, 1981-1991 (continued)

Dollars

Year	Vegetables			Fruits					Miscellaneous			
	Long Beans	Tomatoes	Red Chillies	Papaya	Bananas (Emas)	Orange	Apple	Pear	Sugar	Coffee Powder	Food Beverage ²	Tea
	Per kg			Per kg		Each			Per kg		400g Tin	100 Tea Bags
1981	1.41	2.01	3.79	.80	1.08	.35	.32	.58	1.35	10.90	4.00	4.75
1982	1.58	2.20	4.96	.88	1.19	.42	.35	.60	1.26	10.62	3.67	4.83
1983	1.85	2.42	7.84	.96	1.22	.35	.30	.56	1.25	11.65	3.71	4.70
1984	1.89	2.31	6.09	.92	1.25	.39	.32	.57	1.22	11.65	3.55	4.74
1985	1.94	2.47	5.33	.99	1.26	.38	.29	.55	1.07	11.68	3.60	4.87
1986	1.77	2.23	4.48	1.02	1.24	.39	.31	.54	.96	12.47	3.52	4.95
1987	1.89	2.32	4.97	.90	1.23	.38	.30	.55	.96	11.70	3.38	5.12
1988	1.89	2.33	4.64	.86	1.23	.38	.33	.59	.84	11.50	3.48	5.00
1989	1.78	2.13	3.90	1.02	1.26	.38	.33	.59	1.00	10.98	3.64	4.83
1990	2.01	2.21	4.71	1.00	1.27	.38	.32	.57	1.12	10.70	3.62	4.82
1991	2.18	2.26	4.67	.92	1.26	.43	.34	.69	.98	10.58	3.48	4.81

2 Prior to 1982, prices refer to 500g tin.

14.4 DOMESTIC SUPPLY PRICE INDEX, 1986-1991

(1985 = 100)

Item	Weight	1986	1987	1988	1989	1990	1991
All Items	10,000	84.9	91.3	89.6	91.9	93.5	88.2
Food	476	99.9	100.9	105.6	108.7	105.3	104.1
Live animals	8	102.2	105.9	115.5	119.2	108.3	98.3
Meat & meat preparations	48	102.2	102.4	101.5	110.2	108.4	103.4
Dairy produce & eggs	40	100.6	96.9	108.4	124.7	127.1	118.3
Fish & fish preparations	54	107.2	112.3	119.1	115.7	116.8	121.2
Cereals & cereal preparations	76	93.7	94.1	105.4	112.0	104.2	100.9
Vegetables & fruits	101	107.8	110.1	112.3	107.7	109.4	116.1
Sugar & sugar preparations	35	91.0	96.2	94.3	114.0	106.7	79.1
Coffee etc & spices	45	95.0	89.3	87.6	84.2	67.6	78.5
Animal feeding stuff	40	98.3	102.1	115.1	114.9	109.5	107.5
Miscellaneous food preparations	29	89.6	89.3	85.7	84.9	87.2	86.2
Beverages & Tobacco	121	101.8	106.7	107.9	114.5	117.0	125.4
Beverages	70	101.9	104.8	107.2	114.3	115.1	117.4
Tobacco & manufactures	51	101.5	109.4	108.8	114.7	119.6	136.5
Crude Materials	184	95.6	99.1	106.4	101.1	100.1	101.9
Oil seeds, nuts, & kernels	10	81.3	81.6	97.7	99.8	86.7	88.2
Crude rubber incl synthetic	51	104.6	122.5	139.7	109.5	92.4	86.4
Cork & wood	30	103.4	105.8	110.8	112.6	121.2	123.4
Paper making material	1	95.8	109.9	122.9	139.5	132.0	107.7
Textile fibres & waste	8	78.3	79.7	81.5	83.4	68.6	65.6
Crude fertilizers & minerals	59	89.9	84.0	82.2	81.2	100.6	111.3
Metallic ores & scrap	7	97.7	102.4	110.6	105.6	103.5	97.7
Crude materials nec	18	97.3	104.4	121.0	127.4	103.4	103.8
Mineral Fuels	3,501	54.3	65.9	51.8	58.8	68.6	55.8
Petroleum & products	3,485	54.2	65.9	51.8	58.8	68.6	55.8
Gas	16	77.9	61.4	54.3	54.2	61.4	54.9
Animal & Vegetable Oils	209	58.7	67.4	81.6	67.8	56.5	63.4
Vegetable oil unprocessed	48	62.5	69.5	82.9	79.0	66.4	68.6
Other animal & vegetable oils	161	57.6	66.8	81.2	64.4	53.6	61.8

14.4 DOMESTIC SUPPLY PRICE INDEX, 1986-1991 (continued)
(1985 = 100)

Item	Weight	1986	1987	1988	1989	1990	1991
Chemicals & Chemical Products	438	99.8	106.3	118.8	112.8	106.8	105.5
Organic chemicals	88	97.6	103.9	128.9	117.7	107.5	109.8
Inorganic chemicals	35	101.1	116.8	120.0	111.3	106.6	91.5
Dyes & colours	56	96.9	102.9	109.2	110.1	107.9	107.5
Medicinal products	27	100.6	102.2	96.6	85.6	84.4	82.2
Perfume, toilet preparations	55	104.0	104.9	108.8	116.2	116.8	117.1
Fertilizers manufactured	3	59.7	75.1	98.9	89.4	87.3	98.0
Explosives	1	95.2	95.2	95.6	97.9	97.9	97.9
Plastic materials	121	101.7	113.5	136.0	121.4	110.5	108.3
Chemical products nec	52	98.8	96.2	95.8	100.7	98.6	99.4
Manufactured Goods	1,498	100.1	105.0	113.7	120.2	120.0	119.0
Leather products nec	6	99.0	112.2	136.2	146.4	153.1	163.9
Rubber manufactures nec	34	106.8	110.1	115.3	116.6	115.8	119.3
Wood & cork manufactures	62	101.3	109.9	126.8	123.7	116.9	109.4
Paper manufactures	134	105.7	115.3	126.0	129.9	122.9	122.1
Textile manufactures	256	96.5	102.5	103.7	102.9	102.3	101.6
Non-metal mineral manufactures	327	95.6	94.8	95.5	108.2	118.6	123.4
Iron & steel	262	101.3	109.8	126.7	133.5	128.2	123.5
Non-ferrous metals	92	89.4	95.9	126.8	135.5	113.5	102.2
Metal manufactures	325	106.3	110.2	117.5	125.8	129.7	129.4
Machinery & Transport Equipment	2,750	104.8	107.1	108.9	106.9	103.2	100.6
Power generating machinery	144	104.3	106.0	108.1	107.0	104.1	101.4
Industrial machinery	144	102.3	107.9	115.5	97.9	95.0	96.3
Metalworking machinery	54	98.3	96.7	101.9	106.4	101.8	99.8
General industrial machinery	372	108.9	117.9	126.4	127.9	136.2	141.5
Office & data machines	380	92.2	91.5	90.1	90.2	84.9	81.3
Telecommunication apparatus	344	109.6	109.7	109.5	108.7	105.2	103.3
Electrical machinery nec	1,180	104.3	105.0	104.4	102.5	96.3	90.5
Road vehicles	132	125.6	136.0	146.0	141.1	128.5	128.9
Miscellaneous Manufactures	823	106.3	110.3	113.3	111.3	109.2	107.9
Prefab building, sanitary, lighting	18	103.5	104.7	102.7	98.5	100.6	99.9
Furniture, bedding, mattresses	70	104.9	107.6	111.7	111.1	110.6	112.0
Travel goods	22	101.7	105.7	110.6	112.1	112.9	110.8
Clothing	114	101.5	104.6	107.8	112.6	113.9	110.1
Footwear	30	112.1	114.9	114.4	113.4	116.0	114.7
Scientific instruments	73	100.0	99.9	100.0	98.3	95.6	93.2
Photographic apparatus	114	111.0	118.7	125.7	121.3	120.9	121.9
Miscellaneous mfd articles nec	382	107.8	112.1	114.7	110.8	106.3	104.8

14.5 SINGAPORE MANUFACTURED PRODUCTS PRICE INDEX, 1986-1991
(1985 = 100)

Item	Weight	1986	1987	1988	1989	1990	1991
All Items	10,000	85.2	87.1	85.5	87.4	90.8	86.3
Food	282	98.4	97.2	94.3	96.7	96.4	92.4
Meat & meat preparations	15	104.0	103.7	103.5	106.2	106.3	99.8
Dairy produce & eggs	24	96.3	94.6	96.7	108.4	112.6	106.0
Fish & fish preparations	8	98.8	99.7	101.5	101.8	101.8	101.8
Cereals & cereal preparations	64	99.7	98.3	99.6	102.5	105.3	104.5
Vegetables & fruits	14	100.9	101.2	101.1	101.7	102.1	103.1
Sugar & sugar preparations	30	83.4	83.5	69.8	84.9	83.2	66.9
Coffee etc & spices	50	108.5	108.5	93.2	81.0	70.3	63.6
Animal feeding stuff	38	98.1	94.9	100.0	107.8	107.5	105.5
Miscellaneous food preparations	39	93.7	90.4	91.5	91.7	97.7	98.9
Beverages & Tobacco	125	99.7	104.0	106.2	116.8	119.3	128.3
Beverages	78	99.6	99.7	101.7	111.9	110.0	111.7
Tobacco & manufactures	47	99.7	111.2	113.5	125.0	134.6	155.7
Crude Materials	207	98.7	107.3	116.5	101.0	99.4	99.6
Crude rubber incl synthetic	106	105.1	123.4	139.9	109.9	92.7	86.6
Cork & wood	16	99.3	99.7	109.4	109.4	112.0	110.0
Crude fertilizers & minerals	63	90.1	82.8	81.0	80.5	104.2	117.1
Metallic ores & scrap	14	85.8	87.6	86.9	87.2	80.7	76.7
Crude materials nec	8	104.9	137.6	150.9	151.1	156.8	154.0
Mineral Fuels	3,104	59.0	63.9	53.7	59.8	71.3	63.6
Petroleum & products	3,063	58.8	64.0	53.6	59.8	71.3	63.5
Gas	41	68.1	62.5	60.0	55.7	68.0	72.4
Animal & Vegetable Oils	167	68.8	73.5	86.5	84.1	73.8	75.2
Vegetable oil unprocessed	62	66.2	73.9	88.0	89.0	77.0	76.6
Other animal & vegetable oils	105	70.3	73.3	85.6	81.3	72.0	74.4

14.5 SINGAPORE MANUFACTURED PRODUCTS PRICE INDEX, 1986-1991 (continued)
(1985 = 100)

Item	Weight	1986	1987	1988	1989	1990	1991
Chemicals & Chemical Products	580	96.4	106.8	124.8	112.8	104.2	102.4
Organic chemicals	176	87.4	99.7	121.4	115.0	103.9	103.0
Inorganic chemicals	32	99.2	104.0	105.0	97.2	94.7	92.9
Dyes & colours	57	99.6	105.1	110.4	114.8	115.0	116.3
Medicinal products	59	105.0	104.1	100.5	98.3	89.9	87.9
Perfume, toilet preparations	35	97.5	98.6	99.5	103.5	102.6	101.8
Plastics in primary forms	149	101.2	124.5	167.5	128.4	112.4	106.4
Chemical products nec	72	97.1	96.2	97.4	96.8	96.6	97.9
Manufactured Goods	1,082	96.4	96.1	101.6	111.6	116.8	119.5
Leather products nec	3	79.9	79.9	108.6	113.0	113.0	113.0
Rubber manufactures nec	16	79.7	78.8	82.6	85.7	84.8	83.7
Wood & cork manufactures	77	100.1	109.3	119.4	116.2	114.3	108.5
Paper manufactures	114	99.2	101.6	107.0	108.8	112.0	115.1
Textile manufactures	54	101.2	110.1	111.1	110.9	104.4	101.9
Non-metal mineral manufactures	291	92.8	87.4	86.5	102.2	120.1	131.3
Iron & steel	139	97.8	98.1	107.0	117.1	117.3	114.1
Non-ferrous metals	42	74.7	79.4	91.4	102.0	83.5	77.8
Metal manufactures	346	100.0	98.7	106.9	119.7	123.5	125.2
Machinery & Transport Equipment	3,479	96.8	94.9	93.2	92.6	92.8	86.7
Power generating machinery	64	106.0	103.4	99.6	98.9	97.8	90.0
Industrial machinery	119	92.5	93.5	96.3	87.5	89.6	90.3
Metallworking machinery	21	98.7	98.6	101.8	107.7	110.1	109.7
General industrial machinery	254	100.7	101.7	101.9	104.7	104.4	105.4
Office & data machines	88.2	83.0	81.6	78.3	71.9	63.3	
Telecommunication apparatus	743	97.2	94.9	92.0	90.2	88.8	86.8
Electrical machinery nec	1,374	101.3	101.1	99.1	100.8	106.0	97.5
Road vehicles	23	93.1	87.9	86.2	88.3	85.5	85.7
Miscellaneous Manufactures	974	102.6	104.2	106.1	106.1	105.1	102.1
Prefab building, sanitary, lighting	6	98.1	93.8	93.9	97.7	118.8	118.5
Furniture, bedding, mattresses	106	98.3	98.9	100.7	100.7	99.4	102.7
Travel goods	7	99.0	99.3	99.3	99.3	99.3	99.7
Clothing	272	101.9	104.3	106.0	113.8	117.0	111.6
Footwear	11	100.0	102.4	106.2	107.5	113.0	113.8
Scientific Instruments	42	95.2	83.4	78.4	73.3	70.6	65.4
Photographic apparatus	47	98.5	99.3	98.3	88.0	87.8	85.7
Miscellaneous mfd articles nec	483	105.1	107.8	110.8	107.7	104.0	100.9

14.6 IMPORT PRICE INDEX, 1986-1991

(1985 = 100)

Item	Weight	1986	1987	1988	1989	1990	1991
All Items	10,000	88.3	95.6	96.0	95.9	95.0	89.9
Food	682	100.0	99.9	103.8	103.0	96.3	94.7
Live animals	8	102.2	105.9	115.4	118.8	107.6	97.2
Meat & meat preparations	47	100.9	100.8	100.5	110.7	108.1	103.9
Dairy produce & eggs	36	102.1	97.9	112.4	130.8	132.1	123.1
Fish & fish preparations	75	105.2	113.7	122.2	115.7	115.6	119.8
Cereals & cereal preparations	153	90.6	92.8	107.6	116.3	103.7	98.8
Vegetables & fruits	144	105.6	107.1	109.2	104.7	105.8	112.5
Sugar & sugar preparations	21	97.7	107.5	116.2	139.9	127.6	90.0
Coffee etc & spices	146	103.6	92.1	80.3	65.6	51.6	50.6
Animal feeding stuff	33	97.6	107.8	127.6	120.5	110.4	107.8
Miscellaneous food preparations	19	84.0	83.2	74.6	71.3	73.0	69.0
Beverages & Tobacco	72	104.3	109.3	108.9	110.1	112.0	119.2
Beverages	37	105.0	111.2	114.1	117.1	121.1	123.9
Tobacco & manufactures	35	103.5	107.2	103.4	102.7	102.3	114.2
Crude Materials	507	99.2	109.3	124.4	105.2	93.0	90.6
Hides, skins undressed	3	89.0	94.5	111.0	103.9	81.7	75.5
Oil seeds, nuts, kernels	18	76.8	81.4	98.2	98.5	83.5	85.9
Crude rubber incl synthetic	305	103.9	120.1	140.9	107.4	90.9	86.5
Cork & wood	61	101.0	100.3	103.9	107.1	116.7	119.1
Paper making material	2	95.8	109.9	122.9	139.5	132.0	107.7
Textile fibres & waste	16	78.3	77.7	78.1	78.6	66.1	62.7
Crude fertilizers & minerals	31	92.8	89.3	84.5	81.5	88.8	92.7
Metallic ores & scrap	30	86.8	89.9	94.2	96.0	94.6	92.3
Crude materials nec	41	95.1	97.3	115.2	122.2	88.5	89.4
Mineral Fuels	2,923	53.6	66.5	51.8	59.0	68.5	54.8
Petroleum & products	2,915	53.5	66.5	51.8	59.0	68.5	54.9
Gas	8	88.0	60.3	48.5	52.7	54.7	37.1
Animal & Vegetable Oils	234	56.2	65.4	79.7	64.9	53.3	60.9
Vegetable oil unprocessed	77	55.7	63.4	76.4	68.4	56.0	62.3
Other animal & vegetable oils	157	56.4	66.4	81.3	63.2	51.9	60.3

14.6 IMPORT PRICE INDEX, 1986-1991 (continued)

(1985 = 100)

Item	Weight	1986	1987	1988	1989	1990	1991
Chemicals & Chemical Products	491	105.2	106.1	117.2	110.1	104.5	103.8
Organic chemicals	98	105.0	105.8	126.6	110.5	102.3	107.3
Inorganic chemicals	34	100.0	117.2	122.3	116.8	108.8	90.4
Dyes & colours	36	100.1	107.4	112.7	103.1	100.7	97.4
Medicinal products	35	102.6	104.6	99.1	87.7	86.6	84.9
Perfume, toilet preparations	56	106.9	109.1	113.1	120.5	121.4	121.9
Fertilizers manufactured	19	70.6	76.0	88.2	84.4	82.6	87.6
Plastics in primary forms	5	95.5	96.3	106.1	106.1	106.1	106.1
Plastics in non-primary forms	129	102.8	114.2	135.0	120.8	110.5	109.4
Chemical products nec	79	97.9	94.4	94.6	101.3	98.3	98.5
Manufactured Goods	1,366	99.2	107.5	118.5	121.6	116.4	113.4
Leather products nec	6	102.8	118.6	141.5	151.7	159.4	171.9
Rubber manufactures nec	44	108.6	114.3	121.2	120.1	118.2	122.8
Wood & cork manufactures	69	102.2	111.8	134.6	130.9	120.8	111.0
Paper manufactures	102	109.9	123.9	137.7	142.4	129.4	126.5
Textile manufactures	326	95.5	100.8	102.2	101.8	101.3	100.6
Non-metal mineral manufactures	205	98.3	101.6	103.7	112.6	116.2	115.4
Iron & steel	266	101.7	116.4	138.4	140.5	130.8	127.9
Non-ferrous metals	164	78.9	83.6	106.5	114.5	92.3	82.2
Metal manufactures	184	111.8	121.9	127.3	129.6	133.0	130.1
Machinery & Transport Equipment	3,065	107.6	111.7	115.2	113.0	108.9	107.2
Power generating machinery	193	104.3	106.8	110.9	109.0	106.6	106.8
Industrial machinery	268	106.8	121.3	135.3	122.0	119.8	123.8
Metalworking machinery	65	98.1	96.4	101.7	105.5	99.8	97.5
General industrial machinery	436	109.2	119.7	131.0	132.4	140.1	145.1
Office & data machines	327	98.1	100.5	99.1	100.0	94.2	91.2
Telecommunication apparatus	407	113.5	113.9	114.2	114.8	110.9	108.9
Electrical machinery nec	1,173	105.2	106.0	105.1	102.7	95.5	89.8
Road vehicles	196	128.5	139.7	150.0	143.7	130.4	130.1
Miscellaneous Manufactures	660	107.4	111.8	114.8	111.9	109.0	108.4
Prefab building, sanitary, lighting	19	104.1	106.1	104.9	100.0	98.1	97.8
Furniture, bedding, mattresses	31	115.1	120.5	128.6	127.8	127.7	127.2
Travel goods	21	101.2	105.7	111.9	114.9	115.7	112.5
Clothing	106	102.2	106.3	108.5	110.0	109.7	107.5
Footwear	28	114.4	116.9	115.1	112.7	114.3	112.1
Scientific instruments	107	100.7	101.3	101.7	99.3	96.1	94.1
Photographic apparatus	132	111.9	120.3	127.7	123.1	122.6	123.6
Miscellaneous mfd articles nec	216	109.5	113.7	115.7	110.5	103.7	103.9

14.7 EXPORT PRICE INDEX, 1986-1991
(1985 = 100)

Item	Weight	1986	1987	1988	1989	1990	1991
All Items	10,000	85.9	88.9	87.6	87.2	87.6	83.3
Food	555	100.9	99.9	99.8	94.4	86.2	84.3
Live animals	3	99.0	100.0	95.7	94.2	94.2	94.2
Meat & meat preparations	13	103.9	108.9	102.6	120.9	120.7	119.0
Dairy produce & eggs	16	97.3	96.6	98.1	108.4	104.9	100.5
Fish & fish preparations	63	98.7	109.8	106.4	99.0	94.7	90.2
Cereals & cereal preparations	157	96.4	101.9	111.0	115.8	108.7	107.3
Vegetables & fruits	74	93.0	89.1	90.8	84.5	86.1	92.1
Sugar & sugar preparations	5	97.1	99.1	113.3	129.4	130.4	112.1
Coffee etc & spices	180	109.8	99.0	88.3	70.6	53.2	49.3
Animal feeding stuff	24	105.7	109.3	123.9	123.3	116.4	108.8
Miscellaneous food preparations	20	87.1	87.2	96.3	91.5	94.7	97.0
Beverages & Tobacco	46	102.0	103.8	106.2	109.3	110.4	110.9
Beverages	25	101.8	104.4	106.2	107.7	108.9	106.6
Tobacco & manufactures	21	102.1	103.1	106.3	111.3	112.1	116.1
Crude Materials	648	99.5	113.4	132.8	111.2	97.8	93.0
Hides, skins undressed	10	101.2	131.3	173.0	150.4	140.5	118.9
Oil seeds, nuts, kernels	12	80.8	87.3	94.7	98.6	84.3	77.2
Crude rubber incl synthetic	406	104.8	120.2	146.6	109.8	91.7	86.7
Cork & wood	69	113.0	126.7	125.8	144.1	152.2	151.2
Paper making material	9	96.2	114.7	120.7	116.6	101.8	101.3
Crude fertilizers & minerals	19	96.9	87.3	75.3	71.5	70.5	66.1
Metallic ores & scrap	73	67.6	78.3	92.0	89.5	75.3	70.3
Crude materials nec	50	90.3	103.2	115.0	117.6	109.2	104.3
Mineral Fuels	3,021	59.2	64.6	54.2	60.5	72.5	64.4
Petroleum & products	2,982	59.2	64.7	54.2	60.6	72.6	64.3
Gas	39	63.7	58.0	56.5	51.4	64.3	69.0
Animal & Vegetable Oils	288	69.2	71.9	81.6	73.5	70.3	73.1
Vegetable oil unprocessed	210	68.2	71.1	79.6	72.9	70.9	73.3
Other animal & vegetable oils	78	71.9	74.2	86.8	75.3	68.6	72.6

14.7 EXPORT PRICE INDEX, 1986-1991 (continued)

(1985 = 100)

Item	Weight	1986	1987	1988	1989	1990	1991
Chemicals & Chemical Products	565	98.8	103.5	117.1	109.5	103.0	100.7
Organic chemicals	172	97.0	101.9	117.4	119.3	115.0	110.9
Inorganic chemicals	24	96.6	93.8	90.4	89.6	85.3	82.1
Dyes & colours	23	100.0	100.1	99.8	106.8	104.8	102.4
Medicinal products	49	103.6	96.3	93.8	85.2	79.8	78.5
Perfume, toilet preparations	35	101.5	99.4	98.7	97.7	92.3	90.1
Fertilizers manufactured	32	84.4	79.6	91.4	100.7	105.0	102.9
Plastics in primary forms	6	103.2	101.8	106.0	106.0	106.0	106.0
Plastics in non-primary forms	122	99.6	122.0	163.5	127.0	112.3	107.6
Chemical products nec	102	102.3	99.8	97.8	96.1	89.6	92.7
Manufactured Goods	784	95.2	100.8	109.9	112.6	106.8	103.8
Rubber manufactures nec	28	105.8	106.1	108.3	108.9	107.6	104.9
Wood & cork manufactures	90	104.5	114.6	132.5	124.0	115.7	110.1
Paper manufactures	51	103.2	108.3	120.4	125.4	125.8	123.2
Textile manufactures	155	101.4	106.2	109.8	109.1	108.0	102.7
Non-metal mineral manufactures	73	101.3	104.1	107.7	112.6	118.2	116.1
Iron & steel	133	93.6	111.3	135.2	138.4	129.0	128.6
Non-ferrous metals	127	73.2	72.6	77.0	89.6	66.2	60.9
Metal manufactures	127	95.5	95.8	97.6	100.2	101.9	102.7
Machinery & Transport Equipment	3,417	98.3	96.7	93.0	92.8	89.6	86.6
Power generating machinery	155	100.6	99.4	98.4	98.7	99.6	97.0
Industrial machinery	288	101.4	103.2	99.8	100.2	80.2	79.2
Metalworking machinery	41	100.4	102.0	108.0	112.6	111.5	107.8
General industrial machinery	342	98.5	99.3	99.8	100.8	99.6	98.5
Office & data machines	574	88.1	83.6	81.9	79.6	72.5	70.3
Telecommunication apparatus	651	101.3	101.9	99.9	97.1	92.3	88.8
Electrical machinery nec	1,251	99.5	96.0	88.4	89.6	91.7	87.6
Road vehicles	115	106.0	111.3	109.1	110.1	107.9	105.8
Miscellaneous Manufactures	676	102.6	105.0	107.2	106.0	107.6	105.1
Prefab building, sanitary, lighting	9	99.6	97.7	95.9	95.3	90.8	89.2
Furniture, bedding, mattresses	34	100.9	104.8	107.6	110.0	109.9	113.0
Travel goods	9	100.0	100.0	116.7	133.3	133.3	133.3
Clothing	222	100.5	109.3	111.9	111.0	121.3	117.7
Footwear	9	106.6	107.9	111.3	112.8	111.9	110.4
Scientific instruments	94	105.1	103.2	102.7	99.3	96.9	95.7
Photographic apparatus	77	110.8	112.0	113.5	109.1	103.4	103.0
Miscellaneous mfd articles nec	222	101.0	99.3	102.0	101.2	99.1	95.4

14.8 BUILDING MATERIALS PRICE INDEX, 1981-1991

Section	All Items	Timber & Wood Products	Concrete Ingredients (Granite)	Paints	Cement	Bricks & Concrete Blocks	Tiles	Iron & Steel Products	Cables	Sanitary & Plumbing Fixtures	Others	
Period	Weights ¹	10,000	585	872	292	1,338	2,076	952	1,764	646	69	1,406
1985 = 100												
1981	125.7	109.6	159.0	97.0	167.4	114.4	120.6	120.5	123.7	100.0	99.5	
1982	120.5	109.2	145.3	97.0	164.6	115.5	115.2	111.9	108.3	103.3	101.0	
1983	115.7	105.4	131.1	97.0	162.6	117.9	111.7	102.5	113.3	100.9	101.6	
1984	107.7	103.7	118.4	98.5	121.9	113.9	108.9	100.8	111.5	100.0	101.8	
1985	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
1986	97.1	94.5	89.9	100.4	93.0	91.5	102.9	101.6	98.6	97.9	104.0	
1987	97.1	98.1	84.3	105.7	93.4	84.1	107.7	109.2	101.3	98.7	101.0	
1988	102.9	109.4	83.4	113.3	90.5	84.0	113.3	125.7	115.5	109.3	108.0	
1989	113.0	110.6	82.6	116.8	123.7	94.0	113.2	131.2	130.0	115.5	118.8	
1990	119.3	114.9	105.4	114.4	143.9	106.3	113.7	122.9	126.7	104.1	123.2	
1991	122.7	111.2	116.5	114.6	151.4	114.4	114.0	119.0	123.5	102.7	128.9	
Percentage Change Over Previous Year												
1981	6.5	1.3	31.3	1.4	9.8	16.1	9.1	-1.0	-18.4	12.2	7.0	
1982	-4.1	-0.5	-8.7	-	-1.7	0.9	-4.4	-7.2	-12.4	3.3	1.5	
1983	-4.0	-3.5	-9.8	-	-1.2	2.1	-3.1	-8.3	4.6	-2.3	0.6	
1984	-6.9	-1.6	-9.7	1.5	-25.1	-3.4	-2.5	-1.7	-1.6	-0.9	0.3	
1985	-7.2	-3.6	-15.5	1.5	-17.9	-12.2	-8.2	-0.8	-10.3	-	-1.8	
1986	-2.9	-5.5	-10.1	0.4	-7.0	-8.5	2.9	1.6	-1.4	-2.1	4.0	
1987	-0.1	3.8	-6.3	5.3	0.3	-8.1	4.7	7.5	2.7	0.9	-2.9	
1988	6.0	11.5	-1.0	7.2	-3.1	-0.2	5.2	15.0	14.0	10.6	7.0	
1989	9.8	1.1	-0.9	3.1	36.7	12.0	-0.1	4.4	12.6	5.8	10.0	
1990	5.6	3.8	27.5	-2.1	16.4	13.1	0.5	-6.3	-2.5	-9.9	3.7	
1991	2.8	-3.2	10.7	0.2	5.2	7.6	0.2	-3.2	-2.6	-1.3	4.7	

¹ The weights for indices after 1984 were based on the 1984 distribution pattern of building materials. Prior to 1985, the weights were based on the 1973 distribution pattern.

14.9 PRICE INDICES OF SELECTED FARM PRODUCTS, 1981-1991

Period	Pigs	Fowls	Ducks	Hen Eggs	Leafy Vegetables	Fruit Vegetables	Root Vegetables	Fresh Fish
1985 = 100								
1981	125.6	118.5	133.7	123.9	74.0	83.5	77.8	89.4
1982	132.2	116.0	121.6	108.0	101.9	109.9	86.1	95.0
1983	133.3	108.2	109.2	98.6	111.5	113.7	98.6	94.8
1984	100.8	102.9	115.6	110.7	106.9	110.6	111.9	102.5
1985	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1986	94.9	87.2	98.9	91.6	87.3	97.0	88.8	101.0
1987	98.1	87.7	94.3	91.6	102.9	106.5	88.8	97.7
1988	107.0	81.0	100.7	107.3	94.6	105.7	88.8	97.4
1989	104.2	89.8	104.5	91.5	91.0	97.8	95.1	98.2
1990	95.4	113.6	109.9	104.6	89.6	102.7	98.6	98.5
1991	80.4	99.0	97.8	104.2	104.6	109.5	105.9	99.8
Percentage Change Over Previous Year								
1981	14.9	13.0	23.8	21.6	2.6	6.5	19.3	9.2
1982	5.3	-2.1	-9.1	-12.8	37.7	31.6	10.7	6.2
1983	0.8	-6.7	-10.2	-8.8	9.4	3.4	14.5	-0.2
1984	-24.4	-4.9	5.9	12.3	-4.1	-2.7	13.4	8.1
1985	-0.8	-2.8	-13.5	-9.7	-6.5	-9.6	-10.6	-2.4
1986	-5.1	-12.8	-1.1	-8.3	-12.6	-2.9	-11.1	1.0
1987	3.4	0.6	-4.7	-0.1	17.8	9.8	-	-3.2
1988	9.0	-7.6	6.9	17.1	-8.0	-0.8	-	-0.4
1989	-2.6	10.8	3.7	-14.7	-3.8	-7.5	7.0	0.9
1990	-8.5	26.4	5.2	14.2	-1.6	5.0	3.7	0.3
1991	-15.7	-12.8	-11.1	-0.4	16.7	6.6	7.5	1.2

Note : Prices used for the respective indices are auction prices for pigs and fresh fish, wholesale prices for fowls, retail prices for fruit and root vegetables, and ex-farm prices for ducks, hen eggs and leafy vegetables.

14.10 PROPERTY PRICE INDEX BY TYPE OF PROPERTY, 1981-1991
(1985 = 100)

Type of Property	All Properties	Residential						Commercial			Industrial
		Total	Detached	Semi-detached	Terraced Houses	Flats	Condominium Units	Total	Offices	Shops	Flatted Factories/Warehouses
Weights	10,000	9,066	990	1,694	1,932	1,701	2,749	621	267	354	313
Period											
1981	130	111	100	92	85	135		211	224	197	190
1982	125	112	107	101	99	126		180	193	166	169
1983	130	126	124	124	119	131		162	173	149	141
1984	120	119	124	124	117	116	117	134	134	134	125
1985	100	100	100	100	100	100	100	100	100	100	100
1986	87	88	100	91	86	80	87	91	84	96	75
1987	103	103	126	108	101	97	98	107	98	114	79
1988	110	111	135	113	108	104	107	121	117	124	86
1989	125	124	143	122	116	121	128	149	156	144	109
1990	141	139	159	131	133	136	144	165	190	147	137
1991 ^P	153	152	174	145	147	153	150	167	190	150	158

Note : Prior to 1984, the series were compiled by the Department of Statistics with different weights and base year = 1979.

Source : Ministry of National Development
Urban Redevelopment Authority
with effect from September 1989

14.11 PRODUCE PRICES, 1981-1991

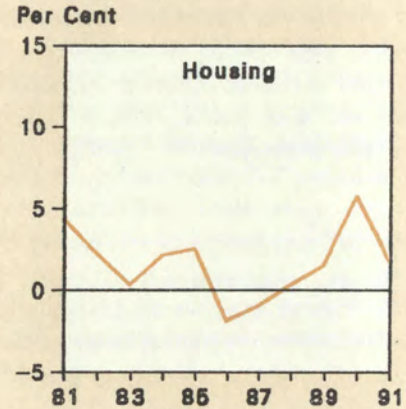
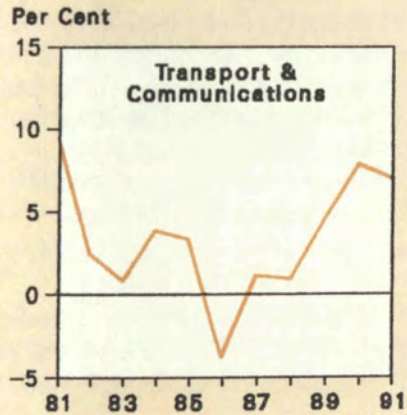
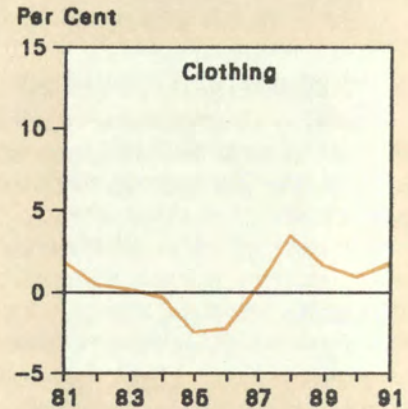
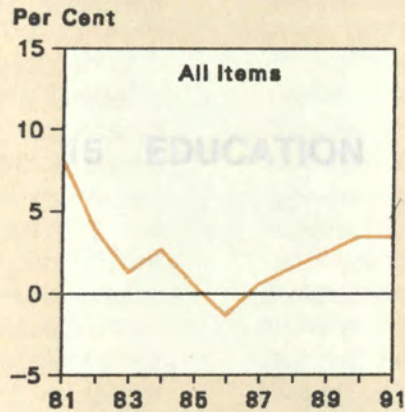
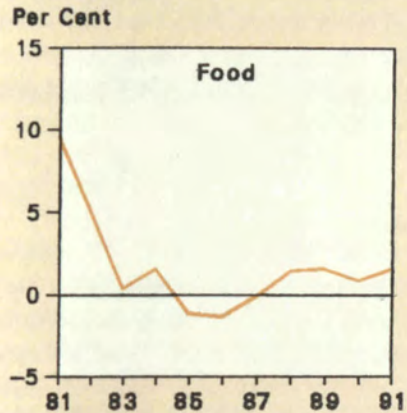
Year	Rubber							Pepper		Coffee AP 1	Crude Coconut Oil (In Drums)	Tin
	Ribbed Smoked Sheet				SSR 20	SSR 50	Int 3 Thick Blanket Crepe (Amber)	Black Lampung	White Muntok Genuine			
	Int 1	Int 2	Int 3	Int 4								
	Cents Per Kilogram (fob)							Dollars Per 100 kilogram (fob)				M\$ Per Kilogram (fob)
1981	235.03	213.15	207.72	201.22	207.62	204.73	185.40	277.92	397.25	441.73	130.52	31.92
1982	182.10	172.60	167.14	155.97	162.60	159.88	145.88	278.36	346.37	419.79	106.88	30.18
1983	226.67	217.85	214.38	205.13	204.05	200.80	176.02	305.73	405.98	452.17	143.82	30.16
1984	203.09	196.73	193.91	186.88	195.17	193.22	171.16	436.72	658.21	583.75	218.58	29.16
1985	167.04	160.92	158.92	155.26	157.85	155.77	137.20	797.68	893.78	556.39	127.67	29.65
1986	173.44	171.45	169.40	165.32	165.83	162.79	144.47	996.57	1,292.33	668.73	64.25	15.50
1987	207.26	202.57	199.05	193.13	192.88	191.00	165.50	1,047.32	1,233.59	461.40	101.28	16.83
1988	234.57	232.86	230.49	226.31	220.94	219.17	189.32	665.89	938.80	424.65	124.52	18.46
1989	185.75	182.57	178.26	171.55	167.83	165.83	133.42	489.39	574.06	309.52	109.76	23.08
1990	157.64	153.98	148.94	144.96	141.30	139.30	123.28	321.47	335.81	201.75	74.91	16.44
1991	142.80	141.71	138.59	134.75	137.23	135.23	122.92	237.57	244.89	187.21	85.72	15.04

Note : Int = International
 SSR = Singapore Specified Rubber
 AP 1 = After Polished Grade 1
 M\$ = Malaysian Ringgit

Source : Rubber Association of Singapore
 Chinese Produce Exchange

CHART 23

ANNUAL CHANGES IN CONSUMER PRICE INDEX, 1981-1991



15 EDUCATION

A child in Singapore normally undergoes at least six years of primary education and four years of secondary education. A fundamental feature of our education system is the bilingual policy where each student learns English and his mother tongue.

Primary Education

At 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 the curriculum is provided to give pupils a working knowledge of English and a good grounding in the mother tongue and Mathematics. Pupils also learn subjects like Music, Art and Crafts, Health Education and Moral Education, and participate in Physical Education and extra-curricular activities.

Formal streaming takes place at the end of Primary Four. Pupils are streamed into different language streams according to their abilities. At the end of primary schooling, all pupils will sit the Primary School Leaving Examination (PSLE), the purpose of which is to assess pupils' ability and place

them in the right secondary school course to suit their learning pace and aptitude.

Secondary Education

Secondary education may take four or five years, again depending on the ability of the pupils. Pupils in the Special and Express courses sit for the General Certificate of Education Ordinary Level Examination (GCE 'O' Level) at the end of their fourth year. Pupils in the Normal stream will take their GCE 'O' Level Examination at the end of the fifth year. In the first two years of secondary education, all pupils go through a common curriculum, and by secondary three, pupils may choose to be in either the Arts, Science, Commerce or Technical stream, and study subjects relevant to that stream for the GCE 'O' levels. Pupils can also take up a third language such as French, German or Japanese.

Pre-University Education

Pupils who qualify and wish to pursue further academic courses after the GCE 'O' levels will go on to pre-university education. Pre-university education may be either

two years in a junior college or three years in a centralised institute or pre-university centre. At the end of their pre-university course, pupils will sit for the General Certificate of Education Advanced Level Examination (GCE 'A' Level). If they do well in the "A" levels, they can proceed to join any of the institutions of higher learning.

Sources of Data

Data on school enrolment and teachers in Government and Government-Aided schools are extracted from the relevant computer databanks in the Ministry of Education. Statistics on private schools are compiled from their submissions to the Private Schools Unit of the Ministry of Education. These are the mid-year figures.

Detailed educational statistics may be obtained from the annual 'Education Statistics Digest' published by the Ministry of Education.

Vocational & Industrial Training Board

The Vocational & Industrial Training Board (VITB) was established in April 1979. It promotes, provides and administers vocational training in Singapore.

The VITB conducts full-time training programmes in some 41 courses at 6 levels of training. The Board offers skills training leading to the award of the Industrial Technician

Certificate, the National Trade Certificate and the Certificate of Vocational Training. Commercial training programmes leading to the award of the Certificate in Business Studies and the Certificate in Office Skills are also offered.

The VITB also offers the opportunity for workers to upgrade their skills and educational level. The part-time Modular Skills Training (MOST) Scheme is for workers who wish to upgrade or acquire new skills. The Basic Education for Skills Training (BEST) programme is to raise the literacy and numeracy levels of workers who do not have sufficient education to take up skills training and be upgraded. The worker Improvement through Secondary Education (WISE) programme is for workers to raise their formal education to the GCE Normal level.

The VITB registers and administers apprenticeship and assists industry in conducting ad hoc training programmes and encourages them to set up training centres. In 1990, a New Apprenticeship System was launched with the objectives of making apprenticeship training more attractive to school leavers. Key features of the new system include improving the quality of industry trainers through pedagogic training, increasing of Skills Development Fund (SDF) training subsidies to employers, and providing continuing education for apprentices without adequate academic qualifications.

The VITB is also the national authority for the setting of skills standards, the conduct of public trade testing and the certification of skills.

Higher Learning

The institutions of higher learning in Singapore are the National University of Singapore, the Nanyang Technological University, the Singapore Polytechnic, the Ngee Ann Polytechnic and the Temasek Polytechnic.

The National University of Singapore was established on 8 August 1980 through the merger of the University of Singapore and Nanyang University. It has eight faculties and four postgraduate schools; namely, the Faculties of Architecture and Building, Arts and Social Sciences, Business Administration, Dentistry, Engineering, Law, Medicine and Science, the Schools of Postgraduate Medical, Dental and Management Studies and the Postgraduate School of Engineering. In addition, the University has three non-faculty departments - Department of Extra-mural Studies, English Language Proficiency Unit and Human Resource Management Unit.

To provide facilities for research and further training in the fields of Computing and Information Systems, Molecular Biology and Micro-electronics, the University has established the Institute of Systems Science, the Institute of Molecular and Cell Biology and the Institute of Micro-electronics.

The Nanyang Technological University (NTU) was established on 1 July 1991. It has its origin in the former Nanyang Technological Institute (NTI) which was set up in 1981. In its main campus in Jurong, there are five schools

namely, School of Accountancy and Business, School of Applied Science, School of Civil and Structural Engineering, School of Electrical and Electronic Engineering, and School of Mechanical and Production Engineering.

NTU places top priority in relating its professional courses to the requirements of industry and business. Apart from the undergraduate courses, NTU offers postgraduate programmes leading to the award of higher degrees as well as postgraduate diplomas. To facilitate research and advanced training, various research institutes and centres of excellence are set up at the University.

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. Located at the University's branch campus in Bukit Timah, NIE provides professional training for teachers as well as the study of Science, Physical Education, the Humanities and Fine Arts in its four schools, respectively the Schools of Education, Science, Physical Education and Arts.

Four-year courses leading to either a Bachelor of Arts or Bachelor of Science degree with Diploma In Education were introduced for the first time in 1991. NIE also offers the Postgraduate Diploma in Education programmes for university graduates, and the two-year Diploma in Education and Diploma in Physical Education programmes for holders of GCE 'A' level qualifications. In addition to the "pre-service" training courses, NIE also conducts a variety of "in-service"

training programmes.

There are three polytechnics offering a wide range of technical, business and management courses at diploma and post-diploma levels. They are the Singapore Polytechnic, Ngee Ann Polytechnic and the new Temasek Polytechnic established in 1990. Each of the polytechnics specializes in specific fields, in addition to various basic engineering and general business and management courses. Some of the specialized courses include Banking and Financial Services, Biotechnology, Graphic Design and Product Design, Mass Communication, Tourism Management, Nautical Studies, Plastic Mould Design,

Public Health Engineering, Quality Assurance Engineering and Software Engineering. Some of the specialized courses are conducted on a part-time basis so that persons who are working can also enrol in them.

Expenditure on Education

Education has been a major item of public expenditure, accounting for about one-fifth of the total government recurrent expenditure. A substantial proportion of the cost of education is subsidized by the state.

15.1 ENROLMENT IN EDUCATIONAL INSTITUTIONS, 1981 - 1991

Year	Total	Primary Schools	Secondary				Pre-University ¹				Technical & Vocational Institutes ²	Institutions of Higher Learning ³
			Total	Academic	Technical	Commercial	Total	Academic	Technical	Commercial		
1981	501,052	285,179	158,187	136,257	17,532	4,398	19,051	12,585	798	5,668	14,242	24,393
1982	506,946	286,780	157,262	134,888	17,565	4,809	19,583	12,609	458	6,516	16,361	26,960
1983	521,420	290,800	161,936	137,173	18,226	6,537	20,407	13,693	134	6,580	17,132	31,145
1984	528,502	288,623	164,928	138,388	19,071	7,469	22,836	15,800	-	7,036	16,172	35,943
1985	529,462	278,060	164,168	136,268	19,782	8,118	26,160	18,167	-	7,993	21,161	39,913
1986	537,663	268,820	173,990	142,945	21,601	9,444	29,098	20,145	-	8,953	23,438	42,317
1987	536,785	261,603	172,054	141,658	20,876	9,520	30,803	20,985	-	9,818	27,349	44,976
1988	537,618	259,270	168,587	139,787	19,622	9,178	33,168	22,259	-	10,909	29,604	46,989
1989	537,995	257,833	166,274	139,464	17,730	9,080	32,802	21,598	-	11,204	30,344	50,742
1990	534,165	257,932	161,029	136,365	15,819	8,845	30,430	19,435	-	10,995	29,102	55,672
1991	535,243 ^p	260,286	157,282	132,600	15,330	9,352	28,431	17,708	-	10,723	28,871	60,373 ^p

1 Include Pre-U Centres, Centralised Institutes and Junior Colleges.

2 Include enrolment from Institutes run by Economic Development Board.

3 Include National University of Singapore, Nanyang Technological University (NTU), Singapore Polytechnic, Ngee Ann Polytechnic and Temasek Polytechnic. NTU was established in July 1991, with its origin in the former Nanyang Technological Institute, National Institute of Education, formed in July 1991 by merging of the former Institute of Education and College of Physical Education, is part of NTU.

Source : Ministry of Education

15.2 STUDENTS AND TEACHERS IN EDUCATIONAL INSTITUTIONS, END JUNE 1991

Number

	Institutions ¹	Students			Teachers		
		Total	Males	Females	Total	Males	Females
Total	417	535,243	286,570	248,673	25,588	10,985	14,603
Primary Schools	202	260,286	136,994	123,292	9,843	2,675	7,168
Secondary Schools	146	157,282	80,417	76,865	7,599	2,875	4,724
Pre-U Centres ² & Centralised Institutes ³	26 ⁴	7,852	2,624	5,228	-	-	-
Junior Colleges	14	20,579	9,709	10,870	1,601	567	1,034
Technical & Vocational Institutes & Economic Development Board Institutes	23	28,871	21,915	6,956	1,586	1,251	335
Polytechnics	3	32,312	20,237	12,075	2,250	1,592	658
National Institute of Education	1	2,012	415	1,597	221	121	100
National University of Singapore & Nanyang Technological University	2	26,049	14,259	11,790	2,488	1,904	584

Source : Ministry of Education

- 1 A school conducting both primary and secondary classes is treated as one primary and one secondary school.
- 2 Teachers teaching in Pre-U Centres are included under Secondary Schools.
- 3 Teachers teaching in Centralised Institutes are included under Junior Colleges.
- 4 Include 22 Pre-U Centres where Pre-U classes are held in Secondary Schools.

15.3 PRIMARY SCHOOLS, STUDENTS AND TEACHERS BY TYPE OF SCHOOL, 1981 -1991

	Number										
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total Schools	328	320	305	275	252	236	230	221	212	208	202
Government	200	211	207	193	180	172	169	166	158	157	152
Government-aided	126	107	96	81	71	63	60	54	53	50	49
Private	2	2	2	1	1	1	1	1	1	1	1
Total Students	285,179	286,780	290,800	288,623	278,060	268,820	261,603	259,270	257,833	257,932	260,286
Government	210,245	217,885	219,742	219,930	211,855	205,281	199,174	198,429	196,186	195,994	197,491
Government-aided	74,756	68,734	70,862	68,564	66,020	63,387	62,225	60,688	61,504	61,763	62,618
Private	178	161	196	129	185	152	204	153	143	175	177
Total Teachers¹	9,454	9,444	9,915	10,416	10,351	10,256	10,190	9,962	9,998	10,006	9,843
Government	7,260	7,437	7,854	7,958	7,917	7,921	7,893	7,798	7,797	7,848	7,677
Government-aided	2,194	2,007	2,061	2,458	2,434	2,335	2,297	2,164	2,201	2,158	2,166

¹ Exclude kindergarten, relief teachers, teachers in ECA Centre and headquarters and those seconded to statutory boards and other ministries.

Source : Ministry of Education

15.4 ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED PRIMARY SCHOOLS BY LEVEL AND AGE, END JUNE 1991
a) Males

Age Level & Course		Number										
		Total	Under 7 Years	7 & Under 8	8 & Under 9	9 & Under 10	10 & Under 11	11 & Under 12	12 & Under 13	13 & Under 14	14 & Under 15	15 & Over
Total		136,900	21,028	20,538	21,713	21,441	21,029	20,968	5,982	4,012	161	28
Primary 1		21,237	21,023	174	32	5	3	-	-	-	-	-
Primary 2		20,639	5	20,357	200	64	11	2	-	-	-	-
Primary 3		21,887	-	7	21,472	269	118	15	6	-	-	-
Primary 4 Normal		21,606	-	-	9	21,096	314	144	33	10	-	-
Primary 5 Normal		17,026	-	-	-	7	16,530	294	149	33	13	-
Extended		2,941	-	-	-	-	2,862	63	13	2	1	-
Monolingual		1,208	-	-	-	-	1,182	22	4	-	-	-
Primary 6 Normal		16,871	-	-	-	-	9	15,515	938	375	28	6
Extended		2,533	-	-	-	-	-	2,457	61	12	2	1
Monolingual		1,386	-	-	-	-	-	1,356	15	13	2	-
Primary 7 Extended		3,150	-	-	-	-	-	1,100	1,984	51	14	1
Monolingual		1,485	-	-	-	-	-	-	1,447	31	7	-
Primary 8 Extended		3,542	-	-	-	-	-	-	1,331	2,131	68	12
Monolingual		1,389	-	-	-	-	-	-	1	1,354	26	8

Source : Ministry of Education

15.4 ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED PRIMARY SCHOOLS BY LEVEL AND AGE, END JUNE 1991

b) Females

Age Level & Course		Number										
		Total	Under 7 Years	7 & Under 8	8 & Under 9	9 & Under 10	10 & Under 11	11 & Under 12	12 & Under 13	13 & Under 14	14 & Under 15	15 & Over
Total		123,209	19,099	18,797	19,769	19,777	19,346	19,129	4,683	2,518	80	11
Primary 1		19,248	19,090	131	24	3	-	-	-	-	-	-
Primary 2		18,907	9	18,657	189	42	8	2	-	-	-	-
Primary 3		19,890	-	9	19,552	234	86	7	2	-	-	-
Primary 4 Normal		19,869	-	-	4	19,495	259	89	14	8	-	-
Primary 5 Normal		16,868	-	-	-	3	16,486	266	86	22	5	-
Extended		2,002	-	-	-	-	1,946	42	11	2	1	-
Monolingual		568	-	-	-	-	556	7	5	-	-	-
Primary 6 Normal		16,635	-	-	-	-	5	15,214	1,082	320	12	2
Extended		1,888	-	-	-	-	-	1,850	30	8	-	-
Monolingual		764	-	-	-	-	-	751	10	2	-	1
Primary 7 Extended		2,437	-	-	-	-	-	901	1,494	36	5	1
Monolingual		779	-	-	-	-	-	-	766	12	1	-
Primary 8 Extended		2,709	-	-	-	-	-	-	1,183	1,477	44	5
Monolingual		645	-	-	-	-	-	-	-	631	12	2

Source : Ministry of Education

15.5 SECONDARY SCHOOLS, STUDENTS AND TEACHERS BY TYPE OF SCHOOL, 1981 -1991

Type of School	Number										
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total Schools	145	150	147	150	149	157	161	161	164	164	164
Government	90	94	93	98	98	109	113	113	116	115	115
Government-aided & Independent	51	52	50	48	47	44	44	44	44	45	45
Private	4	4	4	4	4	4	4	4	4	4	4
Total Students	177,238	176,845	182,343	187,764	190,328	203,088	202,857	201,755	199,076	191,459	185,713
Government	128,127	128,786	133,839	137,400	137,526	149,296	148,240	147,596	145,587	137,800	133,327
Government-aided & Independent	47,333	46,266	46,629	48,445	50,763	51,840	52,885	52,589	51,971	51,956	50,643
Private	1,778	1,793	1,875	1,919	2,039	1,952	1,732	1,570	1,518	1,703	1,743
Total Teachers¹	8,284	8,355	8,650	8,240	8,574	8,703	9,378	9,040	9,236	9,197	9,200
Government	5,655	5,694	5,946	6,006	6,261	6,461	6,960	6,806	6,834	6,698	6,688
Government-aided & Independent	2,553	2,584	2,625	2,150	2,227	2,159	2,341	2,161	2,338	2,428	2,445
Private ²	76	77	79	84	86	83	77	73	64	71	67

1 Exclude relief teachers, teachers in ECA Centre and headquarters and those seconded to statutory boards and other ministries.

2 Include teachers teaching primary classes.

Source : Ministry of Education

15.6 ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED SECONDARY SCHOOLS BY LEVEL AND AGE, END JUNE 1991

a) Males

Age Level & Course		Number										
		Total	Under 12 Years	12 & Under 13	13 & Under 14	14 & Under 15	15 & Under 16	16 & Under 17	17 & Under 18	18 & Under 19	19 & Under 20	20 & Over
Total		92,056	9	14,341	15,904	19,592	17,294	12,651	9,170	2,438	552	105
Secondary 1												
Special		1,275	-	1,239	30	6	-	-	-	-	-	-
Express		9,572	9	8,589	447	476	45	6	-	-	-	-
Normal		7,227	-	4,491	1,423	1,246	54	9	3	-	1	-
Secondary 2												
Special		1,267	-	3	1,227	28	9	-	-	-	-	-
Express		10,230	-	18	8,946	742	473	39	11	1	-	-
Normal		6,698	-	1	3,821	1,737	1,064	64	9	2	-	-
Secondary 3												
Special		1,200	-	-	-	1,152	36	12	-	-	-	-
Express		11,355	-	-	10	9,867	841	572	45	18	2	-
Normal		7,000	-	-	-	4,329	1,459	1,130	62	17	3	-
Secondary 4												
Special		1,124	-	-	-	-	1,071	37	14	2	-	-
Express		10,984	-	-	-	8	8,571	1,653	681	57	13	1
Normal		6,448	-	-	-	1	3,659	1,577	1,150	47	13	1
Secondary 5												
Normal		5,781	-	-	-	-	-	2,986	1,908	828	43	16
Pre-University 1		889	-	-	-	-	-	434	316	131	7	1
Pre-University 2		623	-	-	-	-	-	-	322	213	82	6
Pre-University 3		674	-	-	-	-	-	-	-	356	244	74
Junior College 1		4,745	-	-	-	-	12	4,128	494	101	8	2
Junior College 2		4,964	-	-	-	-	-	4	4,155	665	136	4

Source : Ministry of Education

15.6 ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED SECONDARY SCHOOLS BY LEVEL AND AGE, END JUNE 1991

b) Females

Age Level & Course		Number										
		Total	Under 12 Years	12 & Under 13	13 & Under 14	14 & Under 15	15 & Under 16	16 & Under 17	17 & Under 18	18 & Under 19	19 & Under 20	20 & Over
Total		91,914	14	14,222	15,638	18,745	17,051	12,764	9,799	2,987	597	97
Secondary 1												
Special		1,109	2	1,087	16	3	1	-	-	-	-	-
Express		9,646	11	8,918	395	299	20	3	-	-	-	-
Normal		6,332	1	4,210	1,206	887	26	1	1	-	-	-
Secondary 2												
Special		1,174	-	-	1,143	21	9	1	-	-	-	-
Express		10,456	-	7	9,375	728	310	31	5	-	-	-
Normal		5,844	-	-	3,489	1,456	860	31	7	-	1	-
Secondary 3												
Special		1,154	-	-	1	1,119	30	3	1	-	-	-
Express		11,363	-	-	13	10,335	617	357	32	9	-	-
Normal		5,964	-	-	-	3,892	1,203	825	37	7	-	-
Secondary 4												
Special		1,089	-	-	-	1	1,045	35	8	-	-	-
Express		11,051	-	-	-	4	9,387	1,150	471	35	3	1
Normal		5,858	-	-	-	-	3,534	1,338	935	41	8	2
Secondary 5												
Normal		5,545	-	-	-	-	-	3,227	1,570	719	25	4
Pre-University 1		1,544	-	-	-	-	2	923	487	125	7	-
Pre-University 2		1,469	-	-	-	-	-	2	918	435	111	3
Pre-University 3		1,446	-	-	-	-	-	-	-	981	378	87
Junior College 1		5,374	-	-	-	-	7	4,831	454	74	8	-
Junior College 2		5,496	-	-	-	-	-	6	4,873	561	56	-

Source : Ministry of Education

15.7 ENROLMENT AT PRIMARY LEVELS IN PRIVATE REGULAR SCHOOLS BY LEVEL AND AGE, END JUNE 1991

Number											
Level \ Age	Total	Under 7 Years	7 & Under 8	8 & Under 9	9 & Under 10	10 & Under 11	11 & Under 12	12 & Under 13	13 & Under 14	14 & Under 15	15 & Over
Males											
Total	94	3	6	3	7	8	8	13	6	22	18
Primary 1	6	3	1	-	2	-	-	-	-	-	-
Primary 2	9	-	5	3	1	-	-	-	-	-	-
Primary 3	12	-	-	-	3	3	3	2	1	-	-
Primary 4	10	-	-	-	1	-	3	2	2	2	-
Primary 5	16	-	-	-	-	5	-	6	1	1	3
Primary 6	41	-	-	-	-	-	2	3	2	19	15
Females											
Total	83	2	2	11	7	5	6	4	5	12	29
Primary 1	4	2	-	1	-	1	-	-	-	-	-
Primary 2	3	-	1	2	-	-	-	-	-	-	-
Primary 3	10	-	1	7	2	-	-	-	-	-	-
Primary 4	12	-	-	1	5	-	3	1	1	-	1
Primary 5	10	-	-	-	-	4	1	-	3	2	-
Primary 6	44	-	-	-	-	-	2	3	1	10	28

Source : Ministry of Education

**15.8 ENROLMENT AT SECONDARY LEVELS IN PRIVATE REGULAR SCHOOLS
BY LEVEL AND AGE, END JUNE 1991**

		Number									
Level	Age	Total	12 & Under 13	13 & Under 14	14 & Under 15	15 & Under 16	16 & Under 17	17 & Under 18	18 & Under 19	19 & Under 20	20 & Over
		Males									
	Total	694	4	7	41	55	94	174	146	96	77
Secondary 1		95	4	4	28	37	15	5	2	-	-
Secondary 2		49	-	3	5	14	16	6	2	1	2
Secondary 3		67	-	-	8	2	12	25	12	6	2
Secondary 4		45	-	-	-	2	6	12	14	4	7
Pre-University 1		246	-	-	-	-	45	121	59	12	9
Pre-University 2		187	-	-	-	-	-	5	54	72	56
Pre-University 3		5	-	-	-	-	-	-	3	1	1
		Females									
	Total	1,049	4	6	46	58	154	272	283	146	80
Secondary 1		91	4	5	40	30	8	3	1	-	-
Secondary 2		74	-	1	4	22	27	14	5	1	-
Secondary 3		74	-	-	2	3	16	25	17	7	4
Secondary 4		41	-	-	-	3	2	8	15	6	7
Pre-University 1		385	-	-	-	-	70	144	118	46	7
Pre-University 2		304	-	-	-	-	31	60	87	70	56
Pre-University 3		80	-	-	-	-	-	18	40	16	6

Source : Ministry of Education

15.9 ENROLMENT IN INSTITUTIONS OF HIGHER LEARNING, 1981-1991

Year	Total ¹		National University ² of Singapore		Nanyang Technological University ³		Singapore Polytechnic	
	Males	Females	Males	Females	Males	Females	Males	Females
1981	15,302	9,091	5,833	4,790	-	-	6,983	1,867
1982	17,169	9,791	6,231	5,740	525	57	7,714	2,033
1983	19,295	11,850	6,213	6,830	1,147	120	8,523	2,386
1984	22,582	13,361	6,567	7,329	1,715	230	9,565	2,789
1985	25,075	14,838	7,299	7,694	1,825	253	9,965	2,880
1986	26,470	15,847	7,840	7,944	1,900	302	10,022	2,885
1987	27,812	17,164	7,737	7,229	2,454	1,486	10,529	3,224
1988	28,664	18,325	8,254	7,945	2,650	1,751	10,479	3,553
1989	30,368	20,374	8,303	8,309	3,357	2,125	10,676	4,059
1990	32,692	22,980	8,718	8,658	4,265	2,700	10,921	4,632
1991	34,911	25,462	8,322	8,601	6,352	4,786	11,162	5,404

1 Include part-time students.

2 Include enrolment for both undergraduate and postgraduate courses.

3 Nanyang Technological University (NTU) was established in July 1991, with its origin in the former Nanyang Technological Institute. Figures include National Institute of Education (NIE). NIE, formed in July 1991 by merging of the former Institute of Education and College of Physical Education, is part of NTU.

15.9 ENROLMENT IN INSTITUTIONS OF HIGHER LEARNING, 1981-1991 (continued)

Number											
Year			Ngee Ann Polytechnic		Temasek Polytechnic		Institute of Education ³		College of Physical Education ³		
			Males	Females	Males	Females	Males	Females	Males	Females	
1981	2,157	980	-	-	329	1,454	-	-	-	-	
1982	2,507	1,153	-	-	192	808	-	-	-	-	
1983	3,175	1,650	-	-	237	864	-	-	-	-	
1984	4,545	2,374	-	-	163	619	27	20	-	-	
1985	5,718	3,047	-	-	216	909	52	55	-	-	
1986	6,426	3,510	-	-	226	1,140	56	66	-	-	
1987	6,821	4,037	-	-	218	1,121	53	67	-	-	
1988	7,066	4,213	-	-	172	802	43	61	-	-	
1989	7,667	4,704	-	-	296	1,117	69	60	-	-	
1990	8,180	5,111	175	531	348	1,283	85	65	-	-	
1991	8,610	5,668	465	1,003	-	-	-	-	-	-	

Source : Ministry of Education

15.10 MALE STUDENTS ADMITTED TO INSTITUTIONS OF HIGHER LEARNING, 1981/82-1991/92

		Number										
Course \ Session		1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92
Total		5,596	6,702	7,060	8,902	8,967	8,373	9,035	9,177	10,155	11,006	11,360
National University of Singapore (NUS) ¹		1,709	1,913	1,683	2,224	2,346	2,316	2,160	2,646	2,470	2,623	1,985
Arts & Social Sciences		225	237	172	223	242	262	238	321	313	391	410
Science ²		220	298	281	411	369	473	443	578	543	609	584
Medicine		132	147	134	157	143	128	102	97	99	100	97
Dentistry		19	22	23	35	29	22	21	24	23	25	28
Law		62	67	94	107	113	105	109	116	97	91	100
Business Administration		155	171	123	141	199	196	171	204	207	219	278
Accountancy ³		89	91	81	101	122	134	-	-	-	-	-
Architecture, Building & Estate Management		149	112	114	173	143	121	100	84	101	115	118
Engineering		658	768	661	876	986	875	976	1,222	1,087	1,073	370
Nanyang Technological University (NTU) ^{4 & 5}		-	132	153	153	140	102	322	336	756	1,061	1,831
Engineering ⁵		-	132	153	153	140	102	129	134	345	441	1,112
Accountancy ³		-	-	-	-	-	-	193	202	223	318	313
Business		-	-	-	-	-	-	-	-	65	110	142
Computer Technology		-	-	-	-	-	-	-	-	123	192	216
Materials Engineering		-	-	-	-	-	-	-	-	-	-	35
Arts with Diploma in Education		-	-	-	-	-	-	-	-	-	-	7
Science with Diploma in Education		-	-	-	-	-	-	-	-	-	-	6
National Institute of Education (NIE) ⁶		-	-	-	-	-	-	-	-	-	-	189
Institute of Education ⁶		127	149	176	129	199	144	197	183	236	268	-
College of Physical Education ^{6 & 7}		-	-	-	25	26	25	25	17	51	45	-

1 Cover undergraduates only.

2 Include Pharmacy.

3 The School of Accountancy was transferred from NUS to the former Nanyang Technological Institute in July 1987.

4 NTU was established in July 1991, with its origin in the former Nanyang Technological Institute.

5 Exclude second year engineering students transferred from NUS.

6 NIE, formed in July 1991 by merging of the former Institute of Education and College of Physical Education, is part of NTU.

7 College of Physical Education was established in July 1984. Figures include in-service students.

15.10 MALE STUDENTS ADMITTED TO INSTITUTIONS OF HIGHER LEARNING, 1981/82-1991/92 (continued)

Number

Course	Session	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92
Singapore Polytechnic ⁸		2,964	3,335	3,700	4,109	3,820	3,510	3,846	3,482	3,715	3,891	3,962
Engineering		2,320	2,745	3,017	3,519	3,333	3,140	3,409	2,984	3,148	3,197	3,297
Architecture & Building		478	414	450	416	351	229	198	213	226	219	155
Nautical		119	120	105	87	71	71	83	62	75	114	153
Business Administration ⁹		47	56	128	87	65	70	106	100	207	192	230
Computer ¹⁰		-	-	-	-	-	-	50	123	59	169	127
Ngee Ann Polytechnic ¹¹		796	1,173	1,348	2,262	2,436	2,276	2,485	2,513	2,927	2,936	2,918
Engineering		663	951	1,081	1,985	2,159	1,908	2,128	2,215	2,564	2,646	2,582
Business Studies & Accountancy		133	165	192	167	228	301	279	220	254	209	247
Computer Studies		-	57	75	110	49	67	78	78	99	71	72
Mass Communication		-	-	-	-	-	-	-	-	10	10	17
Temasek Polytechnic ¹²		-	-	-	-	-	-	-	-	-	182	475
Business		-	-	-	-	-	-	-	-	-	79	201
Design		-	-	-	-	-	-	-	-	-	103	117
Science & Technology		-	-	-	-	-	-	-	-	-	-	157

8 Include part-time students.

9 Prior to 1987/88, it was known as Business and Communications.

10 Refer to courses conducted by Japan-Singapore Institute of Software Technology. The Institute was transferred to Singapore Polytechnic with effect from 1 April 1987.

11 Include part-time students enrolled in full-time equivalent diploma courses which were introduced in 1985/86.

12 Temasek Polytechnic was established in April 1990.

Source : National University of Singapore
Nanyang Technological University
Singapore Polytechnic
Ngee Ann Polytechnic
Temasek Polytechnic

15.11 FEMALE STUDENTS ADMITTED TO INSTITUTIONS OF HIGHER LEARNING, 1981/82-1991/92

Number

Course	Session	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92
Total		3,281	4,203	4,902	5,090	5,585	5,820	6,461	6,738	7,731	8,921	9,778
National University of Singapore (NUS) ¹		1,719	2,024	2,478	2,217	2,308	2,581	2,326	2,691	2,589	2,430	2,319
Arts & Social Sciences		513	661	781	686	719	785	773	979	971	955	941
Science ²		439	461	521	501	538	598	689	685	744	772	741
Medicine		38	53	68	49	57	61	79	73	61	50	53
Dentistry		19	15	14	3	9	16	14	10	11	9	7
Law		72	94	103	105	87	130	87	84	99	108	103
Business Administration		238	269	397	353	292	332	337	456	485	302	264
Accountancy ³		258	296	342	326	334	400	-	-	-	-	-
Architecture, Building & Estate Management		70	106	125	108	115	106	126	164	144	170	145
Engineering		72	69	127	86	157	153	221	240	74	64	65
Nanyang Technological University (NTU) ^{4 & 5}		-	18	20	26	28	19	449	535	783	1,121	1,197
Engineering ⁵		-	18	20	26	28	19	24	26	124	161	142
Accountancy ³		-	-	-	-	-	-	425	509	485	415	391
Business		-	-	-	-	-	-	-	-	140	474	471
Computer Technology		-	-	-	-	-	-	-	-	34	71	73
Materials Engineering		-	-	-	-	-	-	-	-	-	-	14
Arts with Diploma in Education		-	-	-	-	-	-	-	-	-	-	82
Science with Diploma in Education		-	-	-	-	-	-	-	-	-	-	24
National Institute of Education (NIE) ⁶		-	-	-	-	-	-	-	-	-	-	888
Institute of Education ⁶		426	741	503	418	737	778	671	570	734	877	-
College of Physical Education ^{6 & 7}		-	-	-	20	36	30	35	25	33	37	-

Note : See notes to Table 15.10

15.11 FEMALE STUDENTS ADMITTED TO INSTITUTIONS OF HIGHER LEARNING, 1981/82-1991/92 (continued)

Number												
Course	Session	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92
Singapore Polytechnic ⁸		778	859	997	1,189	1,000	895	1,316	1,405	1,633	1,882	2,180
Engineering		474	553	625	790	727	721	836	797	928	1,061	1,199
Architecture & Building		300	302	343	347	222	101	119	122	148	188	210
Nautical		-	-	-	-	-	-	-	-	1	1	20
Business Administration ⁹		4	4	29	52	51	73	239	333	476	468	580
Computer ¹⁰		-	-	-	-	-	-	122	153	80	164	171
Ngee Ann Polytechnic ¹¹		358	561	904	1,220	1,476	1,517	1,664	1,512	1,959	2,024	2,157
Engineering		125	179	303	528	611	474	540	543	700	764	816
Business Studies & Accountancy		233	319	436	582	765	865	934	801	973	952	1,021
Computer Studies		-	63	165	110	100	178	190	168	228	228	232
Mass Communication		-	-	-	-	-	-	-	-	58	80	88
Temasek Polytechnic ¹²		-	-	-	-	-	-	-	-	-	550	1,037
Business		-	-	-	-	-	-	-	-	-	341	648
Design		-	-	-	-	-	-	-	-	-	209	245
Science & Technology		-	-	-	-	-	-	-	-	-	-	144

Note : See notes to Table 15.10

Source : National University of Singapore
Nanyang Technological University
Singapore Polytechnic
Ngee Ann Polytechnic
Temasek Polytechnic

15.12 MALE GRADUATES FROM INSTITUTIONS OF HIGHER LEARNING, 1980/81-1990/91

Session Course		Number										
		1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91
Total		3,426	3,736	4,085	4,749	5,140	5,827	6,847	7,347	7,406	7,634	7,997
National University of Singapore (NUS) ¹		1,117	1,254	1,397	1,583	1,337	1,384	1,584	1,631	1,836	1,694	1,856
Arts & Social Sciences		229	209	224	239	280	249	281	291	325	317	372
Science ²		198	293	270	219	313	345	432	414	526	518	625
Medicine		68	77	83	105	82	103	155	113	164	151	114
Dentistry		18	11	27	23	12	20	23	26	34	17	10
Law		43	36	31	52	60	71	82	100	113	88	107
Business Administration		147	139	145	161	178	140	151	201	209	192	222
Accountancy		92	96	91	80	73	81	99	-	-	-	-
Architecture, Building & Estate Management		51	91	112	155	146	130	152	180	148	143	120
Engineering		271	302	414	549	193	245	209	306	317	268	286
Nanyang Technological University (NTU) ³		-	-	-	-	501	597	560	736	794	823	921
Engineering		-	-	-	-	501	597	560	616	664	642	724
Accountancy		-	-	-	-	-	-	-	120	130	181	197
National Institute of Education (NIE) ⁴		-	-	-	-	-	-	-	-	-	-	76
Institute of Education ⁴		222	152	138	184	126	152	155	186	166	229	121
College of Physical Education ^{4 & 5}		-	-	-	-	-	-	3	7	5	45	69

1 Cover first degree graduates only.

2 Include Pharmacy.

3 NTU was established in July 1991, with its origin in the former Nanyang Technological Institute.

4 NIE, formed in July 1991 by merging of the former Institute of Education and College of Physical Education, is part of NTU.

5 College of Physical Education was established in July 1984. Figures include in-service students.

15.12 MALE GRADUATES FROM INSTITUTIONS OF HIGHER LEARNING, 1980/81-1990/91 (continued)

											Number
Session	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91
Course											
Singapore Polytechnic ⁶	1,594	1,838	1,965	2,148	2,223	2,527	2,776	2,909	2,825	3,016	2,999
Engineering	1,412	1,536	1,598	1,694	1,811	2,037	2,397	2,464	2,412	2,644	2,560
Architecture & Building	157	274	262	287	291	324	234	317	268	184	206
Nautical	25	28	67	106	79	80	35	30	32	27	32
Business Administration ⁷	-	-	38	61	42	86	55	39	47	94	110
Computer ⁸	-	-	-	-	-	-	55	59	66	67	91
Ngee Ann Polytechnic ⁶	493	492	585	834	953	1,167	1,769	1,878	1,780	1,827	1,920
Engineering	447	421	483	665	781	919	1,511	1,675	1,553	1,592	1,692
Business Studies & Accountancy	46	71	102	124	151	169	160	149	180	189	158
Computer Studies	-	-	-	45	21	79	98	54	47	46	70
Temasek Polytechnic ⁹	-	-	-	-	-	-	-	-	-	-	35
Business	-	-	-	-	-	-	-	-	-	-	-
Design	-	-	-	-	-	-	-	-	-	-	35
Science & Technology	-	-	-	-	-	-	-	-	-	-	-

6 Include graduates from part-time courses.

7 Prior to 1986/87, it was known as Business and Communications.

8 Refer to courses conducted by Japan-Singapore Institute of Software Technology.
The Institute was transferred to Singapore Polytechnic with effect from 1 April 1987.

9 Temasek Polytechnic was established in April 1990.

Source : National University of Singapore
Nanyang Technological University
Singapore Polytechnic
Ngee Ann Polytechnic
Temasek Polytechnic

15.13 FEMALE GRADUATES FROM INSTITUTIONS OF HIGHER LEARNING, 1980/81-1990/91

Course	Session	Number										
		1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91
Total		2,941	2,783	2,866	3,583	3,815	4,591	5,036	5,235	5,409	6,077	6,553
National University of Singapore(NUS) ¹		1,070	1,141	1,508	1,826	2,117	2,476	2,390	1,993	2,150	2,307	2,584
Arts & Social Sciences		390	414	541	600	766	873	828	808	887	876	1,080
Science ²		262	284	393	507	541	600	580	568	640	760	706
Medicine		53	51	44	58	55	47	45	56	60	56	53
Dentistry		18	11	16	21	15	15	17	2	10	11	10
Law		42	37	49	54	67	89	90	108	84	122	88
Business Administration		86	134	188	229	286	391	367	303	343	341	453
Accountancy		102	125	201	265	291	330	311	-	-	-	-
Architecture, Building & Estate Management		65	38	49	56	77	113	118	124	93	109	144
Engineering		52	47	27	36	19	18	34	24	33	32	50
Nanyang Technological University(NTU) ³		-	-	-	-	56	64	104	386	522	510	626
Engineering		-	-	-	-	56	64	104	79	115	119	156
Accountancy		-	-	-	-	-	-	-	307	407	391	470
National Institute of Education (NIE) ⁴		-	-	-	-	-	-	-	-	-	-	307
Institute of Education ⁴		1,300	797	454	683	408	570	649	757	581	683	410
College of Physical Education ^{4 & 5}		-	-	-	-	1	2	2	7	8	36	43

Note : See notes to Table 15.12.

15.13 FEMALE GRADUATES FROM INSTITUTIONS OF HIGHER LEARNING, 1980/81-1990/91 (continued)

Session											Number
Course	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91
Singapore Polytechnic ⁶	469	586	561	615	644	714	950	911	941	1,184	1,230
Engineering	317	355	325	382	435	520	662	588	671	753	706
Architecture & Building	152	231	233	229	205	168	172	211	109	113	108
Nautical	-	-	-	-	-	-	-	-	-	-	-
Business Administration ⁷	-	-	3	4	4	26	37	41	73	227	316
Computer ⁸	-	-	-	-	-	-	79	71	88	91	100
Ngee Ann Polytechnic ⁶	102	259	343	459	589	765	941	1,181	1,207	1,357	1,299
Engineering	28	105	141	126	141	246	422	496	406	435	422
Business Studies & Accountancy	74	154	202	273	366	405	418	546	649	781	698
Computer Studies	-	-	-	60	82	114	101	139	152	141	179
Temasek Polytechnic ⁹	-	-	-	-	-	-	-	-	-	-	54
Business	-	-	-	-	-	-	-	-	-	-	-
Design	-	-	-	-	-	-	-	-	-	-	54
Science & Technology	-	-	-	-	-	-	-	-	-	-	-

Note : See notes to Table 15.12.

Source : National University of Singapore
Nanyang Technological University
Singapore Polytechnic
Ngee Ann Polytechnic
Temasek Polytechnic

15.14 INTAKE OF TRAINEES OF VOCATIONAL AND INDUSTRIAL TRAINING INSTITUTES, 1987-1991

Number

Course Level	1987			1988			1989			1990			1991		
	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females
Total	27,011	20,590	6,421	27,473	21,726	5,747	29,066	22,922	6,144	29,507	23,350	6,157	30,012	24,103	5,909
Full-time	11,573	7,328	4,245	10,294	6,526	3,768	9,982	6,307	3,675	9,221	5,869	3,352	8,969	5,627	3,342
Part-time	15,438	13,262	2,176	17,179	15,200	1,979	19,084	16,615	2,469	20,286	17,481	2,805	21,043	18,476	2,567
Diploma in Applied Arts ¹	82	35	47	108	42	66	106	36	70	-	-	-	-	-	-
Full-time	82	35	47	108	42	66	106	36	70	-	-	-	-	-	-
Industrial Technician Certificate	1,493	1,304	189	1,751	1,506	245	1,708	1,482	226	1,871	1,622	249	1,857	1,666	191
Full-time	1,168	1,000	168	1,336	1,125	211	1,343	1,141	202	1,410	1,207	203	1,326	1,161	165
Part-time	325	304	21	415	381	34	365	341	24	461	415	46	531	505	26
Certificate in Business Studies	902	177	725	1,040	164	876	1,098	172	926	1,077	160	917	1,135	164	971
Full-time	902	177	725	1,040	164	876	1,098	172	926	1,077	160	917	1,135	164	971
National Trade Certificate (Grade 2)	5,367	4,978	389	5,987	5,650	337	5,790	5,442	348	5,992	5,588	404	6,412	5,983	429
Full-time	1,241	1,097	144	1,346	1,229	117	1,301	1,175	126	1,370	1,273	97	1,289	1,228	61
Part-time	4,126	3,881	245	4,641	4,421	220	4,489	4,267	222	4,622	4,315	307	5,123	4,755	368
Certificate in Office Skills ²	1,775	209	1,566	1,529	193	1,336	1,418	169	1,249	1,367	145	1,222	1,219	101	1,118
Full-time	1,775	209	1,566	1,529	193	1,336	1,418	169	1,249	1,367	145	1,222	1,219	101	1,118

15.14 INTAKE OF TRAINEES OF VOCATIONAL AND INDUSTRIAL TRAINING INSTITUTES, 1987-1991 (continued)

Number

Course Level	1987			1988			1989			1990			1991		
	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females
National Trade Certificate (Grade 3)/ Certificate of Vocational Training ³	3,158	2,373	785	2,507	1,920	587	4,716	3,614	1,102	3,997	3,084	913	4,000	2,973	1,027
Full-time	3,158	2,373	785	2,507	1,920	587	4,716	3,614	1,102	3,997	3,084	913	4,000	2,973	1,027
National Trade Certificate (Grade 3) Part-time	10,402	8,653	1,749	11,943	10,308	1,635	13,415	11,433	1,982	14,474	12,317	2,157	14,981	12,900	2,081
Part-time	10,402	8,653	1,749	11,943	10,308	1,635	13,415	11,433	1,982	14,474	12,317	2,157	14,981	12,900	2,081
Pre-Vocational Training ³	3,247	2,437	810	2,428	1,853	575	-	-	-	-	-	-	-	-	-
Full-time	3,247	2,437	810	2,428	1,853	575	-	-	-	-	-	-	-	-	-
Certificate of Competency	28	27	1	66	62	4	197	191	6	186	180	6	107	107	-
Full-time	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Part-time	28	27	1	66	62	4	197	191	6	186	180	6	107	107	-
Ad hoc	557	397	160	114	28	86	618	383	235	543	254	289	301	209	92
Part-time	557	397	160	114	28	86	618	383	235	543	254	289	301	209	92

- 1 Transferred to the Temasek Polytechnic with effect from July 1990.
- 2 Prior to July 1989, it was known as Preliminary Certificate in Business Studies.
- 3 In January 1989, the former Pre-Vocational Training course was replaced by the Basic Vocational Training (BVT) 1st Year. It is no longer considered as a terminal programme. It is now the 1st year programme of a 3-year course leading to the award of the National Trade Certificate-Grade 3 or the new Certificate of Vocational Training. The Certificate of Vocational Training is awarded to female trainees who opt for the BVT-2nd year non-technical option and successfully complete another year in a Work-Based programme.

Source : Vocational & Industrial Training Board

15.15 TRAINEES WHO COMPLETED COURSES AT VOCATIONAL AND INDUSTRIAL TRAINING INSTITUTES, 1987-1991

Number

Course Level	1987			1988			1989			1990			1991		
	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females
Total	23,963	19,000	4,963	26,026	20,756	5,270	26,911	21,539	5,372	27,425	21,775	5,650	27,644	22,418	5,226
Full-time	8,853	6,002	2,851	9,025	5,749	3,276	7,532	4,695	2,837	7,469	4,580	2,889	6,968	4,294	2,674
Part-time	15,110	12,998	2,112	17,001	15,007	1,994	19,379	16,844	2,535	19,956	17,195	2,761	20,676	18,124	2,552
Diploma in Applied Arts ¹	65	22	43	78	20	58	78	24	54	82	36	46	-	-	-
Full-time	65	22	43	78	20	58	78	24	54	82	36	46	-	-	-
Industrial Technician															
Certificate	770	633	137	827	672	155	1,062	915	147	1,172	991	181	1,164	1,008	156
Full-time	641	517	124	700	557	143	923	781	142	1,025	846	179	1,000	855	145
Part-time	129	116	13	127	115	12	139	134	5	147	145	2	164	153	11
Certificate in Business Studies	382	54	328	645	87	558	629	101	528	744	113	631	831	114	717
Full-time	382	54	328	645	87	558	629	101	528	744	113	631	831	114	717
National Trade Certificate (Grade 2)	5,109	4,784	325	5,347	5,028	319	5,700	5,317	383	5,861	5,415	446	6,473	5,969	504
Full-time	1,009	911	98	737	638	99	1,133	986	147	1,239	1,100	139	1,350	1,214	136
Part-time	4,100	3,873	227	4,610	4,390	220	4,567	4,331	236	4,622	4,315	307	5,123	4,755	368
Certificate in Office Skills ²	1,129	108	1,021	1,431	131	1,300	1,381	148	1,233	1,245	110	1,135	1,184	107	1,077
Full-time	1,129	108	1,021	1,431	131	1,300	1,381	148	1,233	1,245	110	1,135	1,184	107	1,077
National Trade Certificate (Grade 3)	13,250	10,990	2,260	15,370	13,075	2,295	17,027	14,296	2,731	17,214	14,692	2,522	17,367	14,904	2,463
Full-time	2,820	2,282	538	3,302	2,678	624	3,388	2,655	733	2,740	2,375	365	2,386	2,004	382
Part-time	10,430	8,708	1,722	12,068	10,397	1,671	13,639	11,641	1,998	14,474	12,317	2,157	14,981	12,900	2,081
Certificate of Vocational Training ³	-	-	-	-	-	-	-	-	-	394	-	394	217	-	217
Full-time	-	-	-	-	-	-	-	-	-	394	-	394	217	-	217
Pre-Vocational Training ³	2,779	2,080	699	2,132	1,638	494	-	-	-	-	-	-	-	-	-
Full-time	2,779	2,080	699	2,132	1,638	494	-	-	-	-	-	-	-	-	-
Certificate of Competency	56	55	1	56	56	-	197	191	6	170	164	6	107	107	-
Full-time	28	28	-	-	-	-	-	-	-	-	-	-	-	-	-
Part-time	28	27	1	56	56	-	197	191	6	170	164	6	107	107	-
Ad hoc	423	274	149	140	49	91	837	547	290	543	254	289	301	209	92
Part-time	423	274	149	140	49	91	837	547	290	543	254	289	301	209	92

Note : See notes to Table 15.14.

Source : Vocational & Industrial Training Board

15.16 GOVERNMENT EXPENDITURE ON EDUCATION, 1981/82-1991/92

Thousand Dollars

	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92 ^P
Total	942,517	1,358,430	1,611,647	1,769,728	1,775,580	1,638,767	1,653,956	1,604,302	1,765,065	2,056,173	2,869,054
Recurrent Expenditure	712,732	983,751	1,107,113	1,272,559	1,388,325	1,277,288	1,352,551	1,461,858	1,619,760	1,794,521	2,410,228
Primary Schools	241,364	337,339	357,249	403,915	422,806	384,044	392,741	446,713	497,385	531,475	563,039
Secondary Schools & Junior Colleges	244,940	323,163	348,200	392,387	431,866	402,396	424,465	486,226	533,091	570,968	610,575
Vocational & Industrial Training Board	38,900	47,401	55,121	65,662	80,294	68,966	64,191	72,857	79,551	84,300	92,030
Tertiary	156,105	229,057	291,782	350,152	387,224	362,813	413,541	393,298	434,842	526,477	1,057,960
National University of Singapore & Nanyang Technological University ¹	108,527	156,435	197,947	240,448	253,811	240,805	293,443	259,014	288,571	351,476	886,370
Institute of Education & College of Physical Education ¹	13,955	17,746	18,817	21,268	22,979	19,883	20,843	21,072	19,395	23,591	-
Polytechnics	33,623	54,876	75,018	88,436	110,434	102,125	99,255	113,212	126,876	151,410	171,590
Others ²	31,423	46,791	54,761	60,443	66,135	59,069	57,613	62,764	74,891	81,301	86,624
Development Expenditure	229,785	374,679	504,534	497,169	387,255	361,479	301,405	142,444	145,305	261,652	458,826

¹ Figures for 1991/92 include National Institute of Education (NIE). NIE, formed in July 1991 by merging of the former Institute of Education and College of Physical Education, is part of NTU.

Source : Ministry of Education

² Include Curriculum Development Institute of Singapore, Extra Curricular Activities Centre, Institute of Southeast Asian Studies, Science Centre Board and headquarters expenditure.

16 HEALTH AND MEDICAL CARE

There are 11 public sector hospitals of which 8 are general hospitals providing accident and emergency services and multi-disciplinary treatment, and 3 specialist hospitals providing specialist treatment in obstetrics and gynaecology, ophthalmology, psychiatry, dermatology, venereology and infectious diseases. In addition, there are 11 private hospitals catering to the medical needs of the people.

The Primary Health Care Services which include Community Health (CH), Maternal & Child Health (MCH) and School Health Services (SHS) are provided at 22 community health clinics and 19 maternal and child health clinics. The community health clinics offer general and curative treatment while maternal and child health clinics concentrate on preventive health care for women of child-bearing age and

Primary Health Care Services

on this subject. The Ministry of Health is responsible for the overall policy on health matters, the maintenance of public health standards, the development of health programmes and preventive measures, the provision of treatment and hospital facilities and family planning services in the public sector. In addition, the Ministry monitors family planning and population policies in relation to family planning and population control. It is responsible for the development of health services and for the provision of health services to the general public.

The health services provided by the government is very comprehensive. The Ministry of Health is responsible for the overall policy on health matters, the maintenance of public health standards, the development of health programmes and preventive measures, the provision of treatment and hospital facilities and family planning services in the public sector. In addition, the Ministry monitors family planning and population policies in relation to family planning and population control. It is responsible for the development of health services and for the provision of health services to the general public.

16 HEALTH AND MEDICAL CARE

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The Ministry of Health's services to the general public are in respect of four main areas; namely, Primary Health Care Services, Hospital Services, Supporting Services and Dental Services.

Primary Health Care Services

The Primary Health Care Services which include Community Health (CHS), Maternal & Child Health (M&CH) and School Health Services (SHS) are provided at 22 community health clinics and 19 maternal and child health clinics. The community health clinics offer general and curative treatment while maternal and child health clinics concentrate on preventive health care for women of child-bearing age and

pre-school children, and implementing immunization programmes for pre-school children. Health screening and immunization for school children is undertaken by School Health Services.

Statistics on immunization are collected from the various M&CH clinics, vaccination records kept by SHS and private practitioners and from the compulsory notifications of diphtheria and measles immunization carried out for pre-school children received by the Central Immunization Registry. Data on patient attendances at primary health care clinics are obtained from the administrative and patient registration records of the clinics.

Hospital Services

There are 11 public sector hospitals of which 6 are general hospitals providing accident and emergency services and multi-disciplinary treatment, and 5 specialist hospitals providing specialist treatment in obstetrics and gynaecology, ophthalmology, psychiatry, dermatology, venereology and infectious diseases. In addition, there are 11 private hospitals catering to the medical needs of the people.

Data on government hospital beds, patient admissions and outpatient attendances are obtained from administrative records and the computerised patient registration systems of the hospitals. For the private hospitals, the data are compiled from special returns prescribed by the Ministry of Health.

Other Medical and Supporting Services

These are provided by the Radiology and Radiotherapy Department, Pathology Department, Blood Transfusion Service, Rehabilitation Services (including physiotherapy, occupational therapy and speech therapy), Medical Social Services and Pharmaceutical Services.

Dental Services

The Dental Services provide curative and preventive dental treatment at 185 dental clinics located at the various hospitals, community/maternal and child health clinics and schools. Data on attendances at dental clinics are obtained

from the administrative and patient registration records of the clinics.

Medical Personnel

Data on medical personnel refer to the number of doctors, dentists, pharmacists, nurses and midwives registered respectively under the Medical Registration Act, the Registration of Dentists Act, the Registration of Pharmacists Act, the Nurses Registration Act and the Midwives Act. Separate computerised manpower registers for each of these personnel groups are maintained by the Ministry of Health and the statistics pertaining to these health personnel are derived from the registers.

The Research & Evaluation Department of the Ministry of Health is responsible for processing and collating statistical returns from the various government and private medical establishments. Patient statistics of private medical establishments are currently confined to private hospitals and do not cover activities of private clinics.

16.1 HOSPITALS AND GOVERNMENT CLINICS, 1981 -1991

Number

Year	Hospitals			Government Dental Clinics ²	Community Health Clinics	Maternal & Child Health Clinics
	Total	Public Sector Hospitals ¹	Private Sector Hospitals			
1981	26	13	13	133	26	29
1982	26	13	13	137	26	29
1983	23	11	12	160	26	29
1984	22	11	11	162	26	29
1985	22	11	11	176	26	29
1986	22	11	11	183	26	28
1987	21	10	11	183	24	23
1988	21	10	11	191	21	20
1989	20	10	10	193	21	19
1990	21	11	10	192	21	18
1991	22	11	11	185	22	17

¹ Include Government Hospitals, Government Restructured Hospitals and National University Hospital.

² Include dental clinics in schools.

Source : Ministry of Health

16.2 REGISTERED HEALTH PERSONNEL, 1981 -1991

Number

Year	Doctors			Dentists ¹			Pharmacists			State Registered Nurses			State Enrolled Nurses			Midwives		
	Public ²	Private	Not in active practice	Public ²	Private	Not in active practice	Public ²	Private	Not in active practice ³	Public ²	Private	Not in active practice	Public ²	Private	Not in active practice	Public ²	Private	Not in active practice
1981	914	1,108	69	166	158	8	58	300	-	2,674	2,052	884	1,425	347	179	432	259	127
1982	1,001	1,143	81	180	213	9	59	314	-	2,884	1,356	813	2,017	187	222	503	79	138
1983	1,047	1,249	65	174	248	14	58	329	-	3,205	1,567	764	1,690	236	219	437	88	149
1984	1,109	1,294	101	165	294	16	58	351	-	3,241	1,656	795	1,673	253	212	407	73	172
1985	1,214	1,307	110	159	326	11	55	381	-	3,613	1,835	838	1,569	316	222	377	83	163
1986	1,337	1,348	96	157	341	28	58	396	-	3,540	2,038	813	1,579	365	235	356	86	161
1987	1,420	1,413	106	160	379	18	59	428	-	3,374	2,203	861	1,602	421	262	352	92	144
1988	1,551	1,496	115	164	411	18	75	421	30	3,871	1,847	870	1,665	432	272	343	92	134
1989	1,720	1,538	139	184	440	19	93	433	31	3,935	1,962	881	1,715	464	280	332	95	123
1990	1,831	1,593	149	185	466	21	96	452	39	4,238	1,980	966	1,612	526	373	300	104	139
1991	1,971	1,677	131	180	479	23	112	477	40	4,435	2,119	1,016	1,695	575	393	289	100	140

Source : Ministry of Health

1 Refer to those with professional degrees only.

2 Refer to Government, Government Restructured Hospitals and University personnel.

3 Prior to 1988, figures were included in private sector.

16.3 BEDS IN PUBLIC SECTOR HOSPITALS, 1981 -1991

	Number										
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	8,365	8,246	8,222	8,085	8,329	8,274	8,191	7,893	7,852	7,922	7,892
Alexandra Hospital	503	545	545	545	560	560	554	523	520	397	397
Changi Hospital	202	202	203	203	203	144	144	144	144	144	144
Sembawang Hospital ¹	64	62	-	-	-	-	-	-	-	-	-
Singapore General Hospital ²	1,651	1,500	1,593	1,656	1,671	1,650	1,621	1,488	1,479	1,663	1,664
Tan Tock Seng Hospital	1,337	1,324	1,274	1,274	1,434	1,407	1,410	1,445	1,432	1,432	1,362
Toa Payoh Hospital ³	418	410	410	410	410	410	410	410	407	350	357
Kandang Kerbau Hospital ³	687	687	681	681	681	561	561	510	440	490	516
St Andrew's Hospital ⁴	80	80	80	80	80	80	-	-	-	-	-
Middle Road Hospital ⁵	44	44	44	44	44	35	35	-	-	-	-
Middleton Hospital ⁶	228	228	228	228	-	-	-	-	-	-	-
Woodbridge Hospital ⁷	2,901	2,914	2,914	2,714	2,714	2,714	2,654	2,500	2,500	2,500	2,500
View Road Hospital	250	250	250	250	250	250	250	250	250	250	250
National University Hospital ⁸	-	-	-	-	282	463	552	623	680	696	702

1 Closed with effect from 31 March 1983.

2 Became a Government Restructured Hospital with effect from 1 April 1989.

3 Became Government Restructured Hospitals with effect from 1 April 1990.

4 Closed with effect from 31 December 1987.

5 Closed with effect from 9 December 1988.

6 Renamed Communicable Disease Centre and came under the administration of Tan Tock Seng Hospital in January 1985.

7 Include Trafalgar Unit, Mental Defective Unit and Chronic Sick Unit.

8 Started functioning from 24 June 1985.

Source : Ministry of Health

16.4 BEDS IN PRIVATE SECTOR HOSPITALS, 1981 -1991

Number

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	1,542	1,583	1,637	1,602	1,671	1,837	1,836	1,837	1,792	1,837	1,909
Gleneagles Hospital	121	121	121	127	127	127	126	130	132	132	132
Jurong Hospital	40	40	40	40	40	40	40	40	40	40	40
Mt Alvernia Hospital	312	304	304	304	304	304	304	304	304	321	321
East Shore Hospital ¹	21	149	149	149	149	149	149	145	137	135	145
Youngberg Hospital	68	68	68	55	55	38	38	38	20	40	40
St Andrew's Mission Hospital ²	50	-	-	-	-	-	-	-	-	-	-
Adam Road Hospital ³	30	45	45	45	45	45	45	45	45	60	60
Kwong Wai Shiu Hospital	425	425	425	425	505	505	505	454	454	454	454
Shenton Medical Centre ⁴	15	15	18	18	18	16	16	16	15	10	10
Thomson Medical Centre	96	96	96	96	108	108	108	160	160	160	158
Mt Elizabeth Hospital	322	282	337	323	300	485	485	485	485	485	485
Eye Clinic ⁵	20	20	20	20	20	20	20	20	-	-	-
Gentle Nursing & Health Centre ⁶	22	18	14	-	-	-	-	-	-	-	-
Balestier Medical Centre ⁷	-	-	-	-	-	-	-	-	-	-	64

Source : Ministry of Health

1 Known as The American Hospital of Singapore prior to July 1990.

2 Services were discontinued after 22 April 1982.

3 Known as Singapore Nursing Home prior to 1 April 1989.

4 Known as Shenton Nursing Home prior to November 1991.

5 Closed with effect from 31 December 1989.

6 Closed with effect from 1 February 1984.

7 Opened with effect from 1 October 1991.

16.5 ADMISSIONS TO PUBLIC SECTOR HOSPITALS, 1981 -1991

Number

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	230,330	233,683	226,991	230,138	232,988	237,014	247,659	265,380	257,407	259,541	259,720
Alexandra Hospital	33,056	32,459	31,553	33,898	33,255	30,145	29,468	29,300	26,896	20,142	19,716
Changi Hospital	5,289	3,888	4,343	3,466	3,755	3,937	3,245	3,889	4,451	4,926	4,272
Sembawang Hospital ¹	1,078	1,058	119	-	-	-	-	-	-	-	-
Singapore General Hospital ²	54,655	60,552	60,685	62,310	64,982	65,473	73,950	83,756	80,045	80,643	84,411
Tan Tock Seng Hospital	35,961	36,671	39,915	38,459	42,987	45,475	47,672	47,958	45,911	46,351	45,200
Toa Payoh Hospital ³	31,852	29,280	29,410	29,925	29,477	28,070	26,961	27,968	26,077	22,513	21,387
Kandang Kerbau Hospital ³	53,904	54,280	48,072	48,436	48,442	39,620	32,648	34,409	29,648	36,172	38,966
St Andrew's Hospital ⁴	152	104	122	174	124	158	140	-	-	-	-
Middle Road Hospital ⁵	846	925	820	887	738	767	803	673	-	-	-
Middleton Hospital ⁶	7,811	9,215	6,562	6,587	-	-	-	-	-	-	-
Woodbridge Hospital ⁷	5,598	5,177	5,335	5,828	6,056	5,959	5,908	5,756	5,837	5,926	5,528
View Road Hospital	128	74	55	168	179	130	129	114	127	148	87
National University Hospital ⁸	-	-	-	-	2,993	17,280	26,735	31,557	38,415	42,720	40,153

Note : See notes to Table 16.3.

Source : Ministry of Health

16.6 HOSPITAL ADMISSIONS AND PUBLIC SECTOR OUTPATIENT ATTENDANCES, 1981 -1991

	Number										
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Hospital Admissions											
Total	266,548	275,234	271,790	277,881	280,152	290,322	310,302	337,723	330,301	337,103	336,905
Public Sector Hospitals ¹	230,330	233,683	226,991	230,138	232,988	237,014	247,659	265,380	257,407	259,541	259,720
Private Sector Hospitals	36,218	41,551	44,799	47,743	47,164	53,308	62,643	72,343	72,894	77,562	77,185
Public Sector Outpatient Attendances											
Specialist Outpatient Clinics	1,234,808	1,238,563	1,241,146	1,222,817	1,246,343	1,311,863	1,339,712	1,386,350	1,346,095	1,455,985	1,578,396
Accident & Emergency Departments	403,330	439,734	458,824	469,522	438,308	378,145	436,660	485,762	514,434	533,571	541,502
Community Health Clinics	2,833,394	2,928,976	2,662,370	2,431,286	2,346,344	2,344,081	2,199,875	2,155,640	2,072,973	2,015,083	1,935,380
Maternal & Child Health Clinics	1,013,136	926,286	869,015	782,118	747,623	765,919	771,122	808,395	812,503	791,865	775,583
Dental Clinics	1,080,982	1,139,698	1,175,300	1,133,267	1,164,031	1,165,610	1,155,532	1,132,513	1,142,101	1,109,043	1,092,143

¹ Include Government Hospitals, Government Restructured Hospitals and National University Hospital.

Source : Ministry of Health

Year	Total	Dental Clinics		
		School	Hospital	Community
1981	1,080,982	494,446	201,888	384,648
1982	1,139,698	520,969	194,589	424,140
1983	1,175,300	638,307	165,355	371,638
1984	1,133,267	660,597	146,949	325,721
1985	1,164,031	750,157	149,332	264,542
1986	1,165,610	804,504	159,999	201,107
1987	1,155,532	825,484	172,056	157,992
1988	1,132,513	813,119	183,160	136,234
1989	1,142,101	829,625	188,649	123,827
1990	1,109,043	825,279	181,284	102,480
1991	1,092,143	825,318	165,778	101,047

Source : Ministry of Health

16.8 NOTIFICATIONS OF SPECIFIC NOTIFIABLE DISEASES, 1981-1991

												Number
Year	Dengue/ DHF	Malaria	Enteric Fever ¹	Viral Hepatitis	Cholera	Polio- myelitis	Diphthe- ria	Chicken pox	Viral Encephali- tis	Tuber- culosis	Leprosy	
1981	136	261	209	425	34	-	-	1,455	27	2,425	64	
1982	216	282	174	426	31	1	6	1,283	15	2,179	61	
1983	205	219	137	626	14	2	4	1,395	16	2,065	69	
1984	86	193	118	601	40	2	-	3,034	17	2,143	43	
1985	126	166	148	610	27	-	-	2,879	5	1,952	57	
1986	354	180	158	730	27	2	1	4,276	7	1,760	39	
1987	436	165	132	752	63	-	1	4,312	4	1,616	44	
1988	245	228	174	464	19	-	-	8,711	4	1,666	39	
1989	944	203	128	439	39	-	1	17,087	4	1,617	48	
1990	1,733	216	231	440	26	-	1	18,934	4	1,591	36	
1991	2,179	267	132	501	34	-	1	17,930	1	1,841 ^P	23	

Note : No case of plague, smallpox and yellow fever was reported during the period.

Source : Ministry of Health

¹ Refer to typhoid and paratyphoid.

16.9 IMMUNIZATION COVERAGE BY PUBLIC AND PRIVATE SECTORS, 1981 -1991

											Per Cent
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
BCG											
National	83	87	82	95	93	94	98	99	99	99	99
Public	83	80	77	75	73	68	61	57	53	47	46
Private	na	7	5	20	20	26	37	42	46	52	53
Diphtheria											
National	87	83	84	77	78	91	96	90	90	86	91
Public	70	66	66	63	63	69	59	66	65	63	66
Private	17	17	18	14	15	22	37	24	25	23	25
Poliomyelitis											
National	87	83	86	81	81	94	95	90	91	86	91
Public	71	68	69	64	63	69	59	66	66	63	66
Private	16	15	17	17	18	25	36	24	25	23	25
Measles											
National	59	78	88	85	75	85	94	82	77	82	92
Public	54	71	78	73	61	64	63	62	60	60	71
Private	5	7	10	12	14	21	31	20	17	22	21

Source : Ministry of Health

16.10 VACCINATION AND IMMUNIZATION OF SCHOOL CHILDREN, 1981 -1991

Thousand Doses

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
BCG Vaccination	28.8	44.5	35.2	35.4	32.9	29.2	31.2	39.0	31.5	34.5	31.8
Diphtheria Tetanus	110.1	98.0	84.7	81.2	81.8	78.5	71.0	79.2	76.2	74.5	76.4
Poliomyelitis Immunization	102.2	91.6	84.2	75.6	80.4	77.1	57.0	77.4	73.6	74.0	75.7
Rubella	17.7	51.2	44.6	44.9	44.5	40.0	38.2	41.7	36.4	38.0	37.2

Source: Ministry of Health

16.11 STUDENT MEDICAL CHECK-UP, 1981 -1991

Thousand

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	225.3	204.0	185.0	174.3	196.6	195.6	469.6	616.3	611.1	589.7	580.0
Category of Students:											
New Entrants	41.9	39.4	42.7	38.4	39.1	39.9	39.9	40.5	40.8	39.0	40.2
Primary School Leavers and equivalent levels	37.2	55.7	48.3	48.8	47.2	42.9	39.7	42.7	38.3	38.5	38.9
Secondary School Leavers and equivalent levels	15.0	15.6	17.2	21.4	37.4	35.7	35.2	38.7	37.8	36.7	36.0
Re-examination	130.2	92.6	74.5	64.0	71.7	77.2	354.8	485.6	486.6	472.6	461.8
Others ¹	1.0	0.7	2.3	1.7	1.3	-	-	8.8	7.6	2.8	3.1
Sex of Students:											
Males	106.1	95.9	86.3	79.0	100.4	98.9	242.8	319.8	317.4	305.5	300.1
Females	119.2	108.1	98.7	95.3	96.2	96.7	226.8	296.5	293.7	284.2	279.9

1 Figures from 1988 refer to VITB and Special School Students.

Source : Ministry of Health

16.12 COMMON DEFECTS OF STUDENTS EXAMINED, 1981 -1991

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Per 10,000 Males Examined											
Incidence of:											
Defective Vision	3,114	3,161	2,690	2,786	3,490	4,062	3,598	3,824	4,062	4,106	4,243
Obesity - Primary School Entrants	255	250	380	622	777	952	1,174	1,189	1,156	1,188	1,426
- Primary School Leavers	1,040	1,064	1,204	1,123	1,144	1,443	1,570	1,789	1,785	1,881	2,080
- Secondary School Leavers ¹	-	-	-	-	-	-	1,271	1,320	1,385	1,401	1,634
Scoliosis	61	78	127	331	587	477	538	494	527	505	232
Asthma	na	na	na	na	123	295	135	166	129	468	462
Phimosis	658	462	434	444	493	514	511	426	377	330	301
Per 10,000 Females Examined											
Incidence of:											
Defective Vision	4,158	3,558	3,747	3,773	4,409	4,514	3,998	4,151	4,377	4,424	4,532
Obesity - Primary School Entrants	195	181	239	555	650	761	973	1,004	938	977	1,217
- Primary School Leavers	799	944	952	757	716	930	1,023	1,020	1,010	1,159	1,372
- Secondary School Leavers	864	916	1,442	1,019	971	1,047	1,106	1,158	1,162	1,136	1,357
Scoliosis	177	278	529	622	957	852	791	837	896	853	538
Asthma	na	na	na	na	80	199	100	101	93	334	308
Heart Conditions	190	193	373	138	201	147	189	182	158	294	229

¹ Prior to 1987, Ministry of Health did not screen Secondary School Leavers for obesity.

Source: Ministry of Health

16.13 BLOOD DONATIONS AND TRANSFUSIONS, 1981 -1991

Year	Donors	Blood Donations Received					Blood Transfusions Given		
		Total	National Blood Centre ¹	Mobile	Red Cross	National University Hospital Blood Centre ²	Total	Public Sector Hospitals ³	Private Sector Hospitals
	Persons	Number of Units							
1981	36,526	55,038	28,001	27,037	-	-	49,059	44,071	4,988
1982	39,448	59,711	31,595	28,116	-	-	53,408	47,942	5,466
1983	38,808	59,474	31,954	27,520	-	-	52,507	46,869	5,638
1984	38,350	58,018	31,966	24,125	1,927	-	54,421	48,082	6,339
1985	39,772	59,308	33,627	21,530	4,151	-	52,411	46,164	6,247
1986	42,337	61,990	34,448	22,041	5,501	-	56,045	48,804	7,241
1987	39,654	59,985	34,137	20,474	5,374	-	53,658	46,301	7,357
1988	39,478	57,991	36,814	16,684	4,493	-	52,617	44,811	7,806
1989	41,738	61,239	35,932	20,736	4,115	456	55,096	47,525	7,571
1990	43,383	61,403	36,679	18,934	3,098	2,692	57,683	49,186	8,497
1991	45,302	63,691	33,860	22,572	3,096	4,163	55,258	47,711	7,547

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.

Source : Ministry of Health

1 Formerly known as Blood Transfusion Service.

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

3 Include Government Hospitals, Government Restructured Hospitals and National University Hospital.

D ESTABLISHMENTS

17 HAWKERS AND

17 HAWKERS AND

17 HAWKERS AND FOOD ESTABLISHMENTS

The Ministry of the Environment issues licences to hawkers and operators of food establishments. It also ensures that all hawkers observe proper food hygiene practices and that all food sold in Singapore is safe for consumption.

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 resiting of street hawkers into statutory board markets and food centres. Street

pitch hawkers were completely phased out by 1989.

With effect from July 90, the Ministry of the Environment is also licensing the individual hawkers operating in statutory board and private markets and food centres.

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 are significant increases in restaurants, snack bars, food factories and supermarkets.

17.1 LICENSED HAWKERS BY a) TYPE OF PREMISES AND b) TYPE OF GOODS SOLD, 1981-1991
(End of Year)

		Number										
		1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total		10,245	9,818	8,406	7,580	6,775	6,479	6,254	6,095	5,813	5,358	4,689
Type of Premises												
Market/Food Centre		7,190	7,148	6,936	6,693	6,353	6,098	5,960	5,817	5,613	5,184	4,530
Street Pitch		2,656	2,296	1,121	576	151	126	56	54	-	-	-
Show Case		63	61	57	52	43	38	31	28	26	19	18
Itinerant ¹		336	313	292	259	228	217	207	196	174	155	141
Type of Goods Sold												
Market Produce		4,216	4,158	3,560	3,242	2,906	2,776	2,642	2,532	2,420	2,198	1,856
Cooked Food		4,521	4,340	3,863	3,506	3,127	3,069	2,994	2,939	2,825	2,634	2,357
Piece & Sundries		1,508	1,320	983	832	742	634	618	624	568	526	476

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

Source : Ministry of the Environment

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

17.2 LICENSED HAWKERS BY a) MANAGEMENT AUTHORITY AND b) TYPE OF GOODS SOLD, 1981-1991
(End of Year)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	17,096	17,573	18,407	18,751	19,011	18,974	18,574	18,194	17,203	16,484	16,182
Management Authority											
HDB	14,964	15,736	16,692	17,198	17,410	17,514	17,158	16,917	16,356	15,814	15,509
JTC	526	232	234	231	229	226	228	230	228	226	227
PSA	64	58	58	58	60	75	76	76	76	70	70
STPB	27	29	29	26	29	29	29	29	25		
Private Market	1,515	1,518	1,394	1,238	1,283	1,130	1,083	942	518	374	376
Type of Goods Sold											
Market Produce	9,525	9,806	10,102	10,201	10,330	10,190	9,853	9,541	8,863	8,352	8,177
Cooked Food	5,789	5,856	6,073	6,274	6,352	6,401	6,352	6,309	6,119	5,963	5,880
Piece & Sundries	1,782	1,911	2,232	2,276	2,329	2,383	2,369	2,344	2,221	2,169	2,125

Source : Ministry of the Environment

17.3 LICENSED FOOD ESTABLISHMENTS, 1981-1991

End of Year	Total	Restaurants	Eating Houses	Snack Bars	Canteens		Coffee Shops	Food Factories	Super-markets	Number
					School	Others				Others
1981	5,991	560	1,534	261	444	1,213	236	1,049	76	618
1982	6,226	585	1,530	284	450	1,360	231	1,042	77	667
1983	6,401	650	1,502	331	445	1,355	237	1,086	86	709
1984	6,579	736	1,508	404	434	1,269	243	1,141	115	729
1985	6,870	767	1,603	482	428	1,173	261	1,206	169	781
1986	7,254	806	1,649	568	449	1,105	272	1,219	161	1,025
1987	7,645	880	1,723	671	447	1,137	263	1,260	160	1,104
1988	7,820	921	1,742	708	420	1,113	237	1,352	143	1,184
1989	8,025	962	1,722	749	399	1,132	212	1,428	141	1,280
1990	8,240	1,125	1,670	754	400	1,129	180	1,439	140	1,403
1991	8,410	1,236	1,572	773	397	1,154	158	1,460	156	1,504

Source : Ministry of the Environment

The main objectives of the Child Care Program are to promote the development of children and to provide a wide range of services to children and their families. The program is implemented through a network of child care centres, day care centres, and family day care services. The program also provides financial assistance to families who are providing services to children in their homes. The program is administered by the Ministry of Community Development and Social Services.

Public Assistance (PA) is a program that provides financial assistance to low-income families. The program is administered by the Ministry of Community Development and Social Services. The program provides financial assistance to families who are providing services to children in their homes.

The Ministry of Community Development and Social Services coordinates and monitors the implementation of a range of services for senior citizens. The main services under the Aged Services Program include Community-based Services and Residential Care Services.

Data on the Residential Homes for the Aged are obtained from the Government Welfare Homes, Voluntary Homes for the Aged and Commercial Homes.

18 COMMUNITY SERVICES

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

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Grassroots organisations include Residents' Committees, Citizens' Consultative Committees, Community Centre/Club Management Committees, Women's Executive Committees, Senior Citizens' Executive Committees and Constituency Sports Clubs. They have created 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.

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Grassroots organisations

Grassroots organisations include Residents' Committees, Citizens' Consultative Committees, Community Centre/Club Management Committees, Women's Executive Committees, Senior Citizens' Executive Committees and Constituency Sports Clubs. They have created 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 MCD context, refer to individuals who are providing services in Community and Welfare Programmes without receiving a full market rate of remuneration or allowance.

Services for Senior Citizens

The Ministry of Community Development plans, coordinates and monitors the implementation of a range of services for senior citizens. The main services under the Aged Programme includes Community-based Services and Residential Care Services.

Data on the Residential Homes for the Aged are obtained from the Government Welfare Homes, Voluntary Homes for the Aged and Commercial Homes.

Child Care Centres

The main objectives of the Child Care Programme are to promote and develop Child Care Centres. The Ministry 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 old.

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 allowances are granted to the following categories of persons :

- (i) aged destitutes;
- (ii) the disabled, the mentally ill and the chronically sick who are unfit to work;
- (iii) widows or deserted wives with children under 12 years of age; and
- (iv) orphans.

18.1 GRASSROOTS ORGANISATIONS, 1981-1991

End of Year	Number						
	Residents' Committees (RC)	Citizens' Consultative Committees (CCC)	CCC Area ¹ Committees	Community Centres/ Club Management Committees (CCMC)	Women's Executive Committees (WEC)	Senior Citizens ² Executive Committees	Constituency Sports Clubs
1981	221	75	-	157	72	-	64
1982	241	75	-	155	74	-	70
1983	246	75	32	146	75	-	70
1984	263	75	37	145	76	-	68
1985	276	79	37	138	80	-	68
1986	311	79	39	125	80	53	75
1987	341	79	44	120	80	71	76
1988	363	76	49	112	81	74	70
1989	378	81	47	110	86	79	79
1990	395	81	46	112	88	83	80
1991 ^p	401	81	46	107	88	91	81

¹ CCC Area Committees started in 1983.

² Senior Citizens' Executive Committees started in 1986.

Source : Ministry of Community Development

18.2 VOLUNTEERS BY VOLUNTEER GROUP AND TYPE OF SERVICE, 1981-1991

(End of Period)

Number

Volunteer Group	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 ^P
COMMUNITY SERVICE											
Total	10,256	11,433	11,942	12,417	12,290	14,343	15,753	16,815	17,527	18,211	18,692
RC/Block Representative	3,353	4,080	4,262	4,476	4,579	5,847	7,031	7,868	8,466	8,590	8,958
CCC/CCC Area-Committees ¹	1,642	1,873	2,198	2,300	2,242	2,408	2,471	2,447	2,551	2,610	2,555
Community Resource Volunteers ²	-	-	-	-	-	-	26	50	76	79	100
Community Centre/Club Management Committees	2,166	2,201	2,193	2,278	2,148	2,152	2,089	2,036	1,950	2,134	2,121
Women's Executive Committee	767	794	809	876	901	942	929	932	946	1,130	1,111
Senior Citizens' Executive Committees ³	-	-	-	-	-	425	693	1,028	1,069	1,146	1,267
Youth Executive Committees	1,369	1,448	1,430	1,485	1,401	1,444	1,387	1,400	1,371	1,371	1,399
Constituency Sports Club Members	959	1,037	1,050	1,002	1,019	1,125	1,127	1,054	1,098	1,151	1,181
WELFARE SERVICE											
Total	331	338	348	413	748	700	833	884	825	1,047	1,108
Welfare Service Boards/Committees	na	na	na	na	58	58	96	99	111	90	75
Befrienders for the Aged Destitutes ⁴	-	-	-	-	124	144	165	131	117	127	126
Volunteer Probation Officers	331	338	321	295	391	294	284	264	251	300	330
Befrienders for Senior Citizens ⁵	-	-	27	118	175	193	274	375	316	482	534
Volunteers in Toa Payoh Girls' Homes, Singapore Boys' Home and Bukit Batok Boys' Hostel	-	-	-	-	-	11	14	15	30	48	43

Source : Ministry of Community Development

- 1 CCC Area Committees started in 1983.
- 2 Community Resource Volunteers started in 1987.
- 3 Senior Citizens' Executive Committees started in 1986.
- 4 Befrienders for the Aged Destitutes started in 1985.
- 5 Befrienders for Senior Citizens started in 1983.

18.3 ENROLMENT IN CHILD CARE CENTRES BY TYPE OF PROGRAMME AND ORGANISATION, 1981-1991

Number

Period (As at 1 Dec)	Total	Type of Programme						
		Full-Day Programme						Half-Day Programme
		Total	People's Association	NTUC	Voluntary	Workplace ¹	Private	
1981	1,166	1,166	64	875	161	-	66	-
1982	1,406	1,406	60	890	421	-	35	-
1983	1,862	1,734	133	771	741	35	54	128
1984	2,375	1,919	128	787	778	132	94	456
1985	2,918	2,157	263	642	829	268	155	761
1986	3,756	2,799	461	705	1,069	369	195	957
1987	5,659	4,537	601	779	1,874	626	657	1,122
1988	8,044	6,652	696	863	2,586	835	1,671	1,393
1989	10,201	8,633	836	1,014	3,249	866	2,668	1,568
1990	12,474	11,105	847	1,057	3,961	975	4,265	1,369
1991	16,109	14,337	924	1,236	4,787	1,140	6,250	1,772

Notes : Data for 1981 and 1982 were as at 31 March and those for 1983 to 1986 were as at 31 December.

NTUC = National Trades Union Congress.

Source : Ministry of Community Development

1 Include 3 centres set up by employers at workplace but run by private operators.

18.4 PUBLIC ASSISTANCE RECIPIENTS BY CATEGORY, 1983-1991

End of Period	Number					
	Total	Aged Destitutes	Medically Unfit for Work	Abandoned/ Distressed Wives & Orphans	Handicapped and Disabled	Widows with Children under 12 years old
1983	3,241	2,850	103	59	175	54
1984	3,278	2,883	109	70	163	53
1985	3,076	2,734	76	53	160	53
1986	3,075	2,736	79	53	155	52
1987	2,934	2,618	78	55	134	49
1988	2,867	2,565	83	54	118	47
1989	2,827	2,508	82	69	123	45
1990	2,791	2,463	84	71	126	47
1991	2,332	2,030	89	75	95	43

Source : Ministry of Community Development

18.5 RESIDENTS IN OLD FOLKS' HOMES BY TYPE OF ORGANISATION AND SEX, 1984-1991

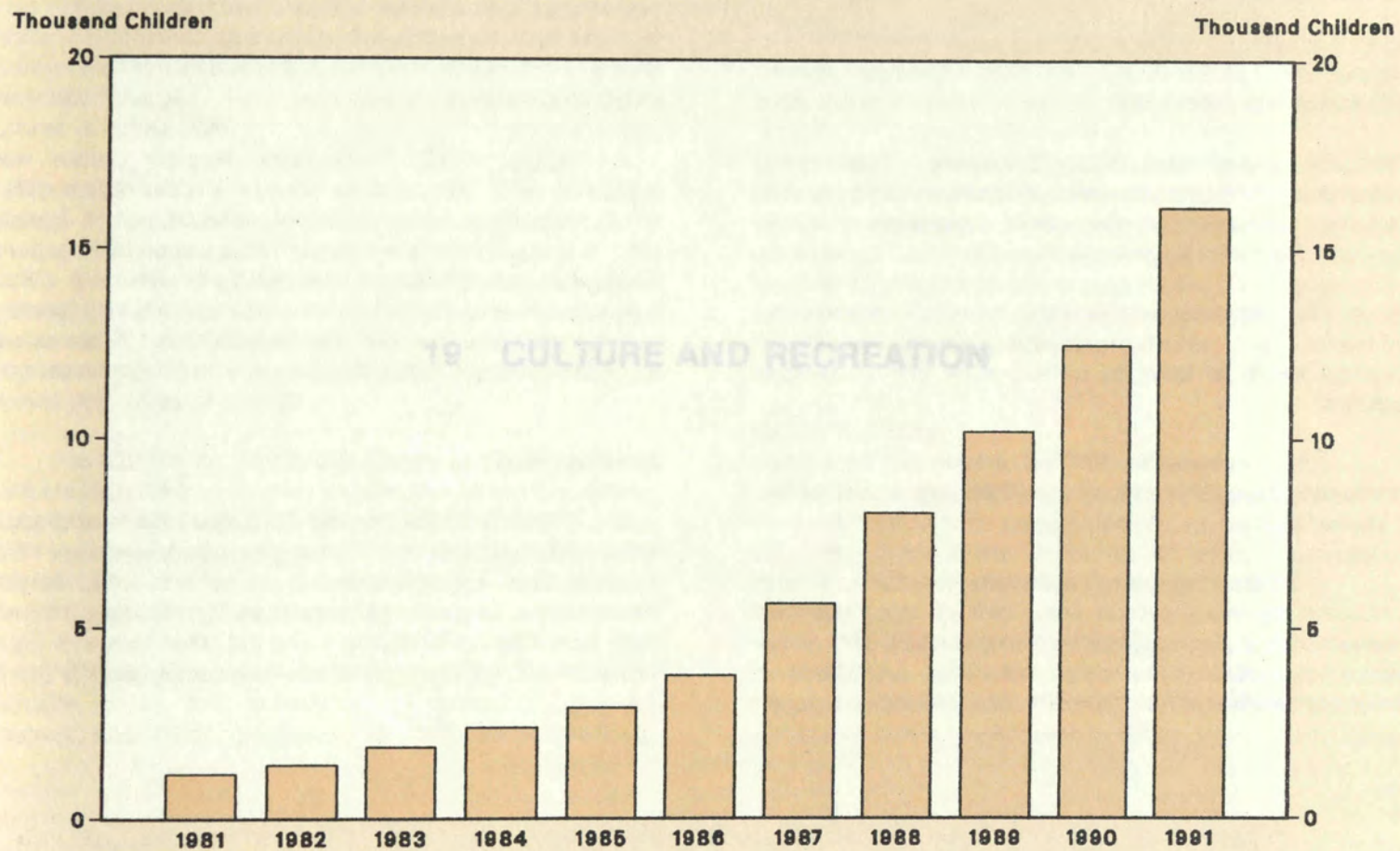
Number

End of Period	Total			Government			Voluntary			Commercial		
	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
1984	3,102	1,508	1,594	885	667	218	1,939	761	1,178	278	80	198
1985	3,279	1,560	1,719	857	670	187	1,980	746	1,234	442	144	298
1986	3,400	1,580	1,820	774	627	147	2,032	756	1,276	594	197	397
1987	3,542	1,660	1,882	754	623	131	2,070	774	1,296	718	263	455
1988	3,730	1,789	1,941	749	615	134	2,065	847	1,218	916	327	589
1989	3,793	1,729	2,064	760	632	128	2,094	754	1,340	939	343	596
1990	3,864	1,736	2,128	794	657	137	2,074	738	1,336	996	341	655
1991 ^p	3,838	1,747	2,091	798	666	132	2,070	738	1,332	970	343	627

Source : Ministry of Community Development

CHART 24

ENROLMENT IN CHILD CARE CENTRES, 1981-1991



Data on cinema are obtained from the Customs and Excise Department. Under the Entertainment Duty Act, all cinemas are liable to pay entertainment duty according to the admission charges. Total attendance and number of tickets sold.

NTUC VOICE Co-operative Society Limited was registered on 2 July 1990 to operate a radio station called NTUC Radio Heat which started broadcasting on 15 January 1991. It is the first private wireless radio station in Singapore. It operates two full-time programmes, broadcast in English and Chinese. It also provides information and entertainment programmes. It is a multi-media and multi-language radio station with a variety of programmes and information.

19 CULTURE AND RECREATION

In addition to the Centre for the Performing Arts, there are other cultural centres in Singapore. The Singapore Chinese Cultural Centre (SCCC) is a multi-media and multi-language radio station with a variety of programmes and information. It is a multi-media and multi-language radio station with a variety of programmes and information. It is a multi-media and multi-language radio station with a variety of programmes and information.

The Arts Resource Centre in the Reference Services Division maintains a good collection of books, periodicals and audio-visual materials, covering the arts and culture.

The Arts Resource Centre in the Reference Services Division maintains a good collection of books, periodicals and audio-visual materials, covering the arts and culture. It is a multi-media and multi-language radio station with a variety of programmes and information. It is a multi-media and multi-language radio station with a variety of programmes and information. It is a multi-media and multi-language radio station with a variety of programmes and information.

Sports Facilities

SCC also transmits a news and information service of 300 pages daily to its subscribers. It is a multi-media and multi-language radio station with a variety of programmes and information. It is a multi-media and multi-language radio station with a variety of programmes and information. It is a multi-media and multi-language radio station with a variety of programmes and information.

SBC Radio and Television

Established in 1980, Singapore Broadcasting Corporation (SBC) operates nine radio stations and three VHF Television channels in the official languages - Malay, Mandarin, Tamil and English.

SBC maintains a balance in news and a variety of information and entertainment programmes in various language media to cater to a multi-racial and multilingual audience.

SBC also transmits SBCText, a news and information service of 500 pages from 6 am to 12 midnight daily over two of its channels.

Under the Singapore Broadcasting Act, 1979, a licence is required by every person using one or more television receivers at any place of residence or premises. The annual licence fee is \$100 for a colour television set, \$36 for a monochrome television set and \$24 for a car radio receiver.

NTUC Radio Heart

NTUC VOICE Co-operative Society Limited was registered on 2 July 1990 to operate a radio station called NTUC Radio Heart which started broadcasting on 15 January 1991. It is the first private wireless radio station in Singapore. It operates two stations, broadcasting in the four official languages. Its mission is to inform, educate and help listeners to better understand labour policies and current issues as well as to provide them with entertaining radio programmes.

Rediffusion

Rediffusion (Singapore) Pte Ltd, a commercial audio broadcasting station under Government franchise since 1949, provides direct sound broadcasts via cable to subscribers on two networks. One network broadcasts Mandarin programmes daily from 6 am to 12 midnight and the other carries 24 hours of non-stop English programmes. The monthly rental is \$10.00 per set.

Cinema

Data on cinemas are obtained from the Customs and Excise Department. Under the Entertainment Duty Act, all cinemas are liable to pay entertainment duty according to their admission charges. Total attendances are based on the number of tickets sold.

Library

The National Library, a large public library maintained by the government, provides essential library facilities as well as a variety of cultural, educational and recreational programmes for the community. Membership is open to the general public free of charge.

In addition to the Central Library at Stamford Road, there are eight full-time branch libraries in Ang Mo Kio, Bedok, Bukit Merah, Geylang East, Jurong East, Marine Parade, Queenstown, and Toa Payoh. They provide books and materials for loan, an audio-visual service and a basic reference and information service.

The Reference Services Division of the Central Library maintains books and collections of special interest for research and other purposes as well as periodicals,

newspapers, maps, etc. Many documents and publications are also on microfilm and microfiche.

The Arts Resource Centre in the Reference Services Division maintains a good collection of books, periodicals and audio-visual materials, covering various aspects of fine arts.

The computerized National Library Network (NALINET) is a centralized system which links the National Library and its eight branch libraries. The computerized functions include cataloguing, acquisitions, serials, legal deposit, enquiries, loans and the online public access catalogue. Data on library membership, loans and collections are generated on a regular basis by the computer system.

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 stadia, multi-purpose fields, sports halls, netball

courts, squash courts, tennis courts, swimming pools and fitness parks and corners.

Cultural and Sports Courses

The Peoples's Association (PA), a statutory board

established on 1 Jul 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 cultural courses.

19.1 RADIO AND TELEVISION LICENCES AND REDIFFUSION SUBSCRIBERS, 1981-1991

				Number
End of Year	Radio Licences Issued ¹	Television Licences Issued	Rediffusion Subscribers	
1981	66,897	414,535	110,792	
1982	73,602	424,089	110,348	
1983	104,735	464,269	95,030	
1984	111,009	474,877	81,336	
1985	108,735	481,907	73,195	
1986	111,568	509,908	66,145	
1987	109,453	531,215	62,457	
1988	107,101	554,133	62,940	
1989	105,120	533,021	55,406	
1990	126,778	582,540	45,376	
1991	184,971	595,730	39,484	

¹ With effect from Dec 1990, a licence is no longer required for a radio installed in an address irrespective of whether a TV licence has been obtained.

Source : Singapore Broadcasting Corporation
Rediffusion (Singapore) Pte Ltd

Hours Per Week

Year	Total (Radio)	Radio (SBC)					Radio (SBC and NTUC ¹)				Television
		AM/FM				Symphony 92.4 FM	FM				
		English	Malay	Chinese	Tamil		English	Malay	Chinese	Tamil	
1981	639	126	135	147	105	126	-	-	-	-	115.0
1982	639	126	135	147	105	126	-	-	-	-	115.0
1983	646	126	135	147	112	126	-	-	-	-	115.0
1984	646	126	135	147	112	126	-	-	-	-	132.0
1985	649	127	135	148	112	127	-	-	-	-	149.2
1986	649	127	135	148	112	127	-	-	-	-	155.0
1987	653	131	135	148	112	127	-	-	-	-	155.0
1988	653	131	135	148	112	127	-	-	-	-	156.0
1989	828	131	139	130	112	127	168	-	-	-	161.0
1990	1,218	128	149	127	134	127	294	126	133	-	172.4
1991	1,504	127	149	127	134	127	427	140	259	14	193.9

1 Operated with effect from January 1991.

Source : Singapore Broadcasting Corporation
NTUC Voice Co-operative Society Ltd

19.3 CINEMAS, 1981-1991

Year	Cinemas			Total Seating Capacity	Attendances
	Total	Air Conditioned	Others		
	Number			Thousand	
1981	73	63	10	74	36,469
1982	72	63	9	71	35,781
1983	57	55	2	63	30,659
1984	51	49	2	57	27,388
1985	47	47	-	54	22,702
1986	42	42	-	49	19,520
1987	41	41	-	48	19,767
1988	46	46	-	48	22,251
1989	51	51	-	49	21,376
1990	56	56	-	48	20,655
1991	60	60	-	47	20,736

Source : Customs & Excise Department

19.4 NATIONAL LIBRARY MEMBERSHIP, 1981-1991

				Number
Year		Total	Persons Aged 12 Years & Over	Children Under 12 Years
1981		445,455	250,863	194,592
1982		540,215	334,755	205,460
1983		640,322	422,279	218,043
1984		715,501	492,370	223,131
1985		833,907	594,977	238,930
1986		925,245	681,050	244,195
1987		891,253	672,665	218,588
1988 ¹		442,200	308,442	133,758
1989		615,180	449,785	165,395
1990		722,316	545,797	176,519
1991		796,459	619,863	176,596

1 Members re-registered as a result of computerisation.

Source : Singapore National Library

19.5 BOOK COLLECTIONS AT THE NATIONAL LIBRARY, 1981-1991

Number

Year	Total	English	Chinese	Malay	Tamil
1981	1,430,753	769,603	409,401	181,948	69,801
1982	1,601,680	885,346	447,000	202,528	66,806
1983	1,771,412	966,050	493,884	232,902	78,576
1984	2,162,231	1,196,288	615,236	263,118	87,589
1985	2,322,242	1,290,524	661,109	282,015	88,594
1986	2,541,556	1,452,482	701,125	304,274	83,675
1987	2,671,796	1,545,392	732,467	307,737	86,200
1988	2,769,398	1,606,345	739,362	335,649	88,042
1989	2,936,305	1,719,069	776,880	350,707	89,649
1990	2,437,094	1,492,350	613,730	264,213	66,801
1991	2,726,156	1,685,069	668,602	299,144	73,341

Source : Singapore National Library

19.6 LOANS OF BOOKS AT THE NATIONAL LIBRARY, 1981-1991

Number

Year	Total	Persons Aged 12 Years & Over	Children Under 12 Years
1981	3,603,750	1,942,081	1,661,669
1982	4,679,017	2,638,849	2,040,168
1983	6,227,930	3,453,528	2,774,402
1984	6,093,392	3,472,286	2,621,106
1985	7,025,899	3,886,211	3,139,688
1986	8,659,955	4,625,025	4,034,930
1987	7,580,674	3,934,840	3,645,834
1988	7,438,247	3,488,080	3,950,167
1989	9,317,796	4,282,810	5,034,986
1990	9,118,091	4,290,581	4,827,510
1991	9,066,277	4,265,431	4,800,846

Source : Singapore National Library

19.7 DAILY NEWSPAPER CIRCULATION, 1981-1991

Number

Year	Total	English	Chinese	Malay	Indian
1981	644,310	283,644	320,367	33,539	6,760
1982	657,340	289,537	326,583	34,025	7,195
1983	694,711	301,205	351,392	35,267	6,847
1984	709,383	307,376	357,778	37,444	6,785
1985	713,866	308,221	359,303	39,915	6,427
1986	684,298	282,192	354,892	41,760	5,454
1987	700,927	292,721	360,691	42,041	5,474
1988	743,334	340,401	354,840	42,458	5,635
1989	777,052	362,634	366,211	42,849	5,358
1990	813,484	385,902	378,381	44,361	4,840
1991	877,523	422,869	401,116	47,988	5,550

1. Figures for 1981-1989 were based on annual circulation figures for the year ending on 31 March of the following year.
 2. Figures for 1990-1991 were based on annual circulation figures for the year ending on 31 March of the following year.
 3. Figures for 1992-1993 were based on annual circulation figures for the year ending on 31 March of the following year.

19.8 VISITORS TO PLACES OF INTEREST, 1981-1991

Thousands

Period	National Museum ¹	Singapore Science Centre ²	Singapore Zoological Gardens	Sentosa ³	Chinese/Japanese Gardens ³	Jurong Bird Park ³
1981	na	282.0	706.8	1,245.6	739.3	606.6
1982	320.0	347.9	751.1	1,900.7	805.3	707.1
1983	253.8	410.1	862.7	1,400.0	692.6	704.6
1984	152.0	463.1	896.1	1,660.0	721.2	699.1
1985	406.9	558.6	850.0	1,641.0	642.1	741.5
1986	396.4	578.6	958.8	1,675.7	616.8	761.0
1987	348.9	620.1	1,112.1	2,106.8	712.8	850.2
1988	322.5	690.2	1,104.3	2,606.8	629.5	980.7
1989	na	767.4	1,133.0	2,616.8	512.7	1,038.9
1990	na	711.9	1,341.3	2,590.0	453.0	1,009.6
1991	255.7	543.1	1,164.6	na	395.4	1,026.7

Note : Figures may not add up due to rounding.

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

2 Figures for 1981-1986 refer to financial year beginning on 1 Apr and ending on 31 March the following year.

3 Figures refer to financial years.

Source : National Museum

Singapore Science Centre

Singapore Zoological Gardens

Sentosa Development Corporation

Singapore Leisure Industries Pte Ltd

Jurong Bird Park

19.9 UTILISATION OF SPORTS FACILITIES, 1981-1991

		Number								
Period		Swimming (Complex)	Tennis (Court)	Badminton (Court)	Squash (Court)	Netball (Court)	Soccer	Hockey	Rugby	Athletics
		Attendance	Bookings							
1981		3,993,038	92,429	46,042	179,040	2,534	11,273	169	61	563
1982		5,905,741	96,962	50,814	179,126	2,595	10,585	377	71	548
1983		6,766,438	98,755	41,172	165,795	2,516	10,540	447	92	644
1984		5,960,539	139,320	46,473	178,232	2,818	10,052	764	104	529
1985		6,101,678	156,008	66,139	187,661	2,166	10,181	716	52	619
1986		6,435,994	138,377	61,912	165,331	1,755	10,950	711	92	547
1987		6,247,930	135,937	67,332	130,044	1,221	10,140	697	74	721
1988		6,523,324	141,291	71,687	98,536	203	10,099	664	113	627
1989		6,190,794	148,938	59,046	70,649	183	8,163	537	173	508
1990		6,011,906	161,476	78,188	60,074	397	8,156	1,129	81	464
1991		5,418,025	180,460	86,166	65,194	678	8,043	1,471	61	571

Notes : Data refer to sports facilities provided by Singapore Sports Council.
Figures for 1981-1984 refer to financial years.

Source : Singapore Sports Council

19.10 SPORTS AND CULTURAL COURSES CONDUCTED BY COMMUNITY CENTRES/CLUBS, 1981-1991

Type of Course	Number									
	FY ¹ 81/82	FY 82/83	FY 83/84	FY 84/85	FY 85/86	FY 86/87	FY 87/88	FY 88/89	FY 89/90	FY 90/91
Classes										
SPORTS COURSES	992	1,192	1,363	1,557	1,749	1,938	2,150	1,700	2,090	2,452
Ball Games	320	337	341	382	446	429	427	320	314	387
Board Games	5	6	19	8	17	11	15	6	2	4
Keep Fit	193	256	276	325	367	436	698	340	353	347
Martial Art	291	390	483	541	666	774	752	734	801	835
Performing Sports	81	91	88	114	111	108	111	117	62	117
Water Sports	100	112	156	187	139	179	143	180	558	762
Others	2	-	-	-	3	1	4	3	-	-
CULTURAL COURSES	1,333	1,629	2,252	3,158	4,130	4,657	4,826	4,887	5,450	5,474
Dance	462	619	965	1,704	2,356	2,634	2,528	2,667	3,028	3,022
Drama	33	40	30	30	41	49	40	41	38	29
Music	838	970	1,255	1,421	1,733	1,974	2,254	2,179	2,369	2,420
Others	-	-	2	3	-	-	4	-	15	3
Participants										
SPORTS COURSES	25,110	30,973	35,612	40,158	45,571	56,137	67,702	40,522	44,751	45,219
Ball Games	5,626	5,521	5,450	5,220	5,951	5,757	5,263	3,656	3,056	3,601
Board Games	220	128	311	125	309	172	197	73	32	41
Keep Fit	3,683	5,092	5,375	6,445	8,100	13,402	27,557	6,889	6,985	6,974
Martial Art	10,642	14,725	17,872	20,341	24,640	30,004	28,278	23,038	24,145	24,328
Performing Sports	2,729	3,228	3,061	3,697	3,716	3,550	3,508	3,795	2,194	3,853
Water Sports	2,150	2,279	3,543	4,330	2,751	3,218	2,801	3,016	8,339	6,422
Others	60	-	-	-	104	34	98	55	-	-
CULTURAL COURSES	18,791	22,896	32,968	50,311	63,451	68,875	72,299	77,893	90,124	88,277
Dance	8,629	11,427	18,743	36,046	46,369	49,856	51,205	55,134	60,355	57,207
Drama	523	709	555	488	733	847	646	660	628	461
Music	9,639	10,760	13,608	13,732	16,349	18,172	20,321	22,099	28,814	30,525
Others	-	-	62	45	-	-	127	-	327	84

¹ FY refers to financial year beginning on 1 April and ending on 31 March the following year

Source : People's Association

20 MISCELLANEOUS

The mission of the Singapore Joint Civil Defence Forces (SJCDF) is to protect and save civilian lives and property in the event of an emergency and also to prevent and fight fires in peacetime. Data on fire occurrence and property damaged by fire are compiled by SJCDF.

Definitions

Structural (Residential) : Refers to all building structures, either permanent or temporary, used for residential purposes only.

Structural (Non-Residential) : Refers to all building structures, either permanent or temporary, used for other than residential purposes such as commercial, manufacturing, storages, sales and services, etc.

Non-Structural : Refers to all properties other than building structures such as motor-vehicles, ships, vegetation, discarded materials, outdoor electrical cables/wiring, etc.

20.1 FIRE OCCURRENCES AND VALUE OF PROPERTY DAMAGED, 1981-1991

Type of Property	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	Fire Occurrences (Number)										
	5,851	6,093	6,802	4,646	5,384	5,306	5,206	4,718	5,177	6,444	5,740
	926	1,648	2,048	2,241	2,332	2,198	2,122	2,269	2,364	2,253	2,176
	486	916	679	614	642	700	583	682	590	645	1,149
	4,439	3,529	4,075	1,791	2,410	2,408	2,501	1,767	2,223	3,546	2,415
Total	Value of Property Damaged (Million Dollars)										
	85.6	26.5	47.1	28.0	18.8	17.3	17.9	39.9	75.6	43.7	23.2
	3.1	2.4	6.0	5.1	3.1	3.1	2.8	2.5	0.8	2.1	5.8
	24.3	22.8	18.5	20.8	14.2	12.9	13.4	36.3	73.3	39.8	12.1
	58.2	1.3	22.6	2.1	1.5	1.3	1.7	1.1	1.6	1.8	5.3

Source : Singapore Joint Civil Defence Forces

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