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YEARBOOK OF STATISTICS SINGAPORE 1990

DEPARTMENT OF STATISTICS
SINGAPORE

PREFACE

The Yearbook of Statistics, Singapore, 1990 is the twenty-fourth edition. Important statistical series on the demographic, economic and social characteristics of Singapore and relevant statistical charts highlighting socio-economic trends are put together in this Yearbook. Annual series for eleven years are included wherever available to facilitate time series analysis.

The contents of the Yearbook are regularly reviewed and updated to keep pace with the latest developments in Singapore. 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

* preliminary
na not available
- nil or negligible

nec not elsewhere classified
nes not elsewhere specified
nie not included elsewhere

1

ECONOMIC INDICATORS I, 1980-1990

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 ¹	Output ²	Index of Industrial Production ² (1989 = 100)
							Total	Public	Private			
	At Current Market Prices				At 1985 Market Prices							
	\$ Million	\$	\$ Million									
1980	24,188.5	8,343	8,282.0	11,627.6	28,832.5	11,126.6	18,051.2	3,241.5	14,809.7	1,413.5	32,805.8	56.2
1981	28,191.2	9,869	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	11,120	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	12,584	16,306.1	17,595.8	36,537.2	17,067.7	21,088.0	4,235.9	16,852.1	1,775.8	37,888.3	59.5
1984	40,815.1	13,671	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	13,133	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	39,601.9	12,914	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	43,244.8	13,634	17,108.4	16,636.6	43,387.4	15,028.0	25,719.0	5,666.5	20,052.5	1,743.0	46,337.7	76.7
1988	49,941.4	15,235	20,659.8	18,135.0	48,221.6	16,259.6	28,121.3	5,363.7	22,757.6	2,007.4	56,804.5	90.8
1989	56,340.0	16,841	24,379.7	19,411.6	52,669.6	19,138.9	29,985.3	5,588.3	24,397.0	1,958.7	63,924.1	100.0
1990*	63,905.1	18,437	28,504.3	24,245.5	57,016.2	21,958.4	32,284.9	6,228.8	26,056.1	2,484.3	70,992.5	109.5

1 Exclude petrochemicals.

2 Refer to establishments engaging 10 or more workers.

GROWTH RATES IN ECONOMIC INDICATORS I, 1980-1990 *(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						
1980	18.3	21.1	13.5	30.6	9.7	20.2	6.6	9.4	6.0	49.8	24.6	12.3
1981	16.5	18.3	26.6	16.9	9.6	15.1	4.7	5.2	4.6	31.8	14.9	9.8
1982	12.7	12.7	22.9	15.2	6.9	20.3	5.5	13.3	3.8	-8.5	-1.5	-5.5
1983	15.1	13.2	26.5	12.4	8.2	10.8	5.7	9.6	4.8	4.2	2.0	2.1
1984	11.6	8.6	14.0	10.4	8.3	9.4	5.1	5.2	5.1	3.0	10.1	9.1
1985	-1.2	-3.9	-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	9.2	5.6	9.8	11.7	9.4	3.4	7.6	1.1	9.7	20.2	23.6	17.5
1988	15.5	11.7	20.8	9.0	11.1	8.2	9.3	-5.3	13.5	15.2	22.6	18.4
1989	12.8	10.5	18.0	7.0	9.2	17.7	6.6	4.2	7.2	-2.4	12.5	10.1
1990*	13.4	9.5	16.9	24.9	8.3	14.7	7.7	11.5	6.8	26.8	11.1	9.5

ECONOMIC INDICATORS II, 1980-1990

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									
1980	9,343.7	2,777.5	7,371.0	5,014.0	92,797.1	41,452.3	25,805.2	14,180.2	11,625.0	15,647.1	353.5	15,293.6	51,344.8
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	6,873.2*	2,836.0*	7,628.4*	4,873.3*	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

1 Refer to private sector only.

GROWTH RATES IN ECONOMIC INDICATORS II, 1980-1990 *(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	
1980	28.0	49.1	13.0	-3.3	34.0	34.0	41.8	57.8	26.2	22.8	77.0	22.0	33.9
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	31.3*	0.1*	15.0*	16.9*	11.4	9.3	13.6	29.6	8.5	1.8	-27.7	2.0	13.4

ECONOMIC INDICATORS III, 1980-1990

Year	Transport & Communications								Utilities		
	Sea Cargo Handled			Air Cargo Handled			Outgoing Telex Calls	Inter- national Telephone Calls ¹	Electricity Production	Gas Production	Water Consumption
	Total	Inward	Outward	Total	Discharged	Loaded					
	Thousand Freight Tonnes			Tonnes			Thousand		Million Kilowatt Hours		Million Cubic Metres
1980	86,299.5	50,122.0	36,177.5	181,775	90,713	91,062	7,354	3,535	6,967.6	614.1	256.4
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	187,790.0*	106,223.0*	81,567.0*	623,841	324,157	299,684	9,534	73,888	15,617.6	807.1	374.2

1 Exclude calls to Peninsular Malaysia.

GROWTH RATES IN ECONOMIC INDICATORS III, 1980-1990 (continued)

Per Cent

Year	Transport & Communications								Utilities		
	Sea Cargo Handled			Air Cargo Handled			Outgoing Telex Calls	Inter- national Telephone Calls	Electricity Production	Gas Production	Water Consumption
	Total	Inward	Outward	Total	Discharged	Loaded					
1980	3.8	3.3	4.5	15.0	15.9	14.1	36.6	42.0	7.5	2.8	7.8
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

ECONOMIC INDICATORS IV, 1980-1990

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
1980	2.1412	6,134.6	13,757.7	3.22	33,316.1	16,035.0	20,206.9	13.60	10.55	54,392.6	13,299.6
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

¹ Include bills financing.

GROWTH RATES IN ECONOMIC INDICATORS IV, 1980-1990 *(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	
1980	-1.5	7.5	9.5	24.6	31.7	26.2	43.5	37.9	42.5	58.7
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

ECONOMIC INDICATORS V, 1980-1990

Year	Finance Companies ¹			POSBank ¹	CPF ¹	Stock Exchange		Insurance Companies			
	Deposits from Individuals & Institutions	Loans for		Amount Due To		Turnover of Stocks & Shares		Life Insurance		General Insurance	
		Hire Purchase of Motor Vehicles	Housing	Account Holders	Members	Value	Volume	Policies in Force		Net Premiums ²	Net Claims ³
								Number	Amount Insured		
Million Dollars						Million Units	Number	Million Dollars			
1980	2,121.3	537.4	637.2	2,756.7	9,551.2	7,824.7	2,222.2	248,077	6,334.8	340.7	141.6
1981	2,942.2	628.6	763.6	3,265.9	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	5,058.4	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	7,287.3	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	9,129.4	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	10,558.6	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	11,165.3	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	12,139.8	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	13,049.7	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	13,239.7	40,646.4*	36,756.0	18,487.0	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, 1980-1990 *(continued)*

Per Cent

Year	Finance Companies			POSBank	CPF	Stock Exchange		Insurance Companies			
	Deposits from Individuals & Institutions	Loans for		Amount Due To		Turnover of Stocks & Shares		Life Insurance		General Insurance	
		Hire Purchase of Motor Vehicles	Housing	Account Holders	Members	Value	Volume	Policies in Force		Net Premiums	Net Claims
								Number	Amount Insured		
1980	17.0	47.6	15.5	9.2	27.1	238.5	130.4	0.6	22.7	24.1	24.3
1981	38.7	17.0	19.8	18.5	27.2	72.2	25.0	9.3	22.8	16.7	3.6
1982	26.1	-6.1	15.2	54.9	28.9	-61.6	-40.0	15.9	37.8	8.4	12.9
1983	23.0	3.2	32.5	23.4	24.6	128.1	116.4	14.5	28.8	2.3	12.7
1984	15.6	-7.0	15.7	16.8	16.2	-30.5	-15.6	5.6	18.9	-	4.7
1985	-5.0	-26.8	2.8	25.3	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	5.7	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	7.5	10.8	205.5	202.6	23.8	26.5	15.8	14.9
1990	13.7	12.4	-4.6	1.5	12.7*	-6.1	-14.6	na	na	na	na

ECONOMIC INDICATORS VI, 1980-1990

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	Per Cent
1980	5,936.6	3,651.0	14,669.5	13,732.5	937.0	1.0	85.1	107.4	87.0	2,562.1	86.1
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	103.1	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	106.8	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	110.0*	5,322.9	84.0

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, 1980-1990 (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					
1980	26.5	19.5	18.3	20.3	-4.1	8.5	19.6	11.4	14.0	0.8
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	4.9	13.8	15.4
1989	12.6	6.7	10.5	10.8	-42.4	2.4	2.6	3.6	15.4	9.0
1990	5.9*	17.6*	11.3	11.5	-51.0	3.4	1.7	3.0*	10.2	-2.8

SOCIAL INDICATORS I, 1980-1990

Year	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 ⁴	Total Fertility Rate	Gross Reproduction Rate
	Thousand	Per Cent	Persons Per Square Kilometre	Years	Per Cent		Per 1,000 Population		Per Cent	Per 1,000 Live-births	Per 1,000 Female Population	
1980	2,413.9 ⁵	1.2	3,907	24.5	46.6	17.4	17.1	5.2	77.7	11.7	1,737	840
1981	2,443.3	1.2	3,954	25.0	45.0	18.3	17.3	5.3	78.2	10.7	1,723	830
1982	2,471.8	1.2	3,999	25.6	43.9	19.1	17.3	5.2	78.0	10.7	1,706	816
1983	2,502.0	1.1	4,048	26.2	43.1	19.9	16.2	5.3	79.2	9.4	1,589	765
1984	2,529.1	1.1	4,078	26.7	42.4	20.6	16.4	5.2	79.1	8.8	1,609	770
1985	2,558.0	1.1	4,122	27.3	42.1	21.4	16.6	5.2	79.9	9.3	1,619	780
1986	2,586.2	1.0	4,160	27.8	41.4	22.3	14.8	5.0	80.0	9.4	1,445	694
1987	2,612.8	1.2	4,197	28.4	40.6	23.3	16.7	5.0	80.7	7.4	1,636	789
1988	2,647.1	1.5	4,231	28.8	40.2	24.0	20.0	5.2	80.9	6.9	1,980	957
1989	2,685.4	1.3	4,287	29.3	40.3	24.4	17.8	5.2	82.2	6.6	1,788	862
1990 ⁴	2,690.1 ⁵	1.7	4,250	29.8	41.4	25.9	18.4*	4.8*	81.7	6.7*	1,827*	881*

1 Persons under 15 years and persons 65 years and over divided by persons aged 15-64 years.

2 Persons aged 65 years and over divided by persons under 15 years.

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

4 Population figures and vital statistics rates for 1990 other than those on mortality refer to Singapore residents only.
The rate of growth refers to average annual rate of increase of resident population during 1980-1990.

5 Based on censuses.

SOCIAL INDICATORS II, 1980-1990

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		
1980	29	22	4,844	78.6	84.0	83.3	68.6	67.9	720	1,220	4,845
1981	30	21	6,367	81.5	84.4	81.7	70.1	61.2	846	1,382	6,400
1982	30	21	6,519	84.1	84.8	87.3	75.4	64.1	1,176	1,827	8,496
1983	29	21	6,951	88.3	85.3	87.0	74.5	65.4	1,229	1,910	9,369
1984	28	23	8,332	91.3	85.6	85.5	79.9	65.3	1,399	2,090	9,742
1985	27	22	8,955	92.0	86.0	85.9	89.0	66.2	1,521	2,269	9,702
1986	26	23	10,418	94.3	86.4	85.6	85.3	70.8	1,429	1,981	8,574
1987	26	22	11,883	93.8	86.8	86.5	88.1	73.9	1,501	2,092	9,195
1988	26	22	12,582	93.7	87.2	86.5	89.2	72.5	1,723	2,410	8,370
1989	26	22	12,815	93.6	87.6	88.4	88.1	68.5	1,929	2,678	8,567
1990	26	21	13,711	92.6	90.1	88.2	88.9	76.5	2,094	2,623	9,282

1 Students aged 6-17 years divided by population of same age group. For 1990, the base refers to resident population of same age group.

2 For population 10 years and over. For 1990, figure refers to resident population 10 years and over.

SOCIAL INDICATORS III, 1980-1990

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
1980	1,112	3.5	63.2	77.7	22.6	96	1,222	6,977	252
1981	1,146	2.9	63.0	80.1	20.2	112	1,168	6,604	247
1982	1,171	2.6	63.4	79.2	18.8	130	1,111	6,149	251
1983	1,206	3.2	63.8	76.1	17.6	139	1,060	5,739	254
1984	1,207	2.7	63.4	78.1	16.4	154	1,010	5,324	261
1985	1,204	4.1	62.2	73.9	17.4	195	972	5,157	256
1986	1,229	6.5	62.3	74.2	17.5	187	930	4,917	254
1987	1,252	4.7	62.7	74.7	17.2	157	889	4,691	257
1988	1,281	3.3	62.9	75.2	17.0	170	837	4,464	270
1989	1,305	2.2	63.1	75.7	16.7	188	790	4,176	276
1990	1,516	1.3	64.9	67.4	14.4	187	753	4,003	274

1- For 1990 refer to residents.

SOCIAL INDICATORS IV, 1980-1990

Year	Culture & Recreation				Communications			
	Daily Newspapers Circulation	Per Cent of National Library Members to Total Population		Annual Cinema Attendances	Radio & 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
1980	255	28.7 ¹	10.5 ²	17	165	371	16	255
1981	264	38.8	12.9	15	170	352	15	248
1982	266	41.1	17.0	14	172	326	14	240
1983	278	43.9	21.1	12	186	313	12	234
1984	280	45.5	24.2	11	188	305	12	229
1985	279	49.3	28.7	9	188	293	12	234
1986	265	50.7	32.4	8	197	299	12	242
1987	268	45.5	31.5	8	203	299	12	248
1988	281	29.7	14.0	8	209	297	11	253
1989	289	33.2	20.6	8	198	294	10	252
1990 ³	302	34.8	25.0	8	217	285	10	220

1 Refers to children under 15 years.

2 Refers to persons aged 15 years and over.

3 Data refer to resident population only.

SOCIAL INDICATORS V, 1980-1990

Year	Public Housing ¹				Utilities		Fire		Public Order	
	Public Flats		Per Cent of Total Population Living in		Electricity Consumption Per Person	Water Consumption Per Person	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 Population	
1980	372,640	64	73	42	2,529.5	89.7	4,705	24.1	123	30
1981	383,026	63	74	43	2,695.7	95.2	5,851	85.6	161	31
1982	399,935	66	75	50	2,811.1	97.4	6,093	26.5	160	30
1983	430,169	70	77	54	3,054.7	102.7	6,802	47.1	164	31
1984	506,340	74	81	60	3,292.0	104.9	4,646	28.0	178	31
1985	551,767	76	84	64	3,448.3	104.0	5,384	18.8	182	32
1986	585,445	78	85	66	3,664.0	103.0	5,306	17.3	193	32
1987	612,826	80	86	69	4,063.3	107.9	5,206	18.0	190	30
1988	630,645	82	87	71	4,433.1	112.2	4,718	39.7	219	29
1989	610,955	87	88	79	4,724.6	115.5	5,177	75.6	208	29
1990 ⁴	623,821	87	87	80	5,276.5	120.0	6,444	43.7	204	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 involving persons refer to resident population only.

1 CLIMATE, ATMOSPHERIC ENVIRONMENT AND LAND USE

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 633 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 has been reduced to 10 stations whereas the nitrogen oxides measurement was carried out at 7 stations in 1990. The air pollution levels in 1990 are low and were all within the accepted international standards.

In general, the air pollution levels are lower during the monsoon periods when much of the pollutants are washed out

by the rain, and higher during the inter-monsoon periods (April-May and October-November) when the low winds and calm airs and relatively moderate rainfall are less effective in dispersing the air pollutants.

Land Use

Of the total land area, about 49.2 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 TEMPERATURE, RAINFALL AND SUNSHINE, 1980-1990

Year	Mean Temperature (°C)		Mean Relative Humidity at 2.00pm ¹ (%)	Rainfall			Bright Sunshine Daily Mean Hours
	Maximum	Minimum		Total (mm)	Maximum in a Day (mm)	Number of Rainy days	
1980	31.0	23.9	74	2,326	134	176	5.7
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

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, 1980 - 1990

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		
1980	37	38	19	30	18	19	41	31	31	0.50	0.97	0.49
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

Source : Pollution Control Department

1.3 LAND USE, 1980-1990

Square Kilometres

Year	Total	Built-up Area ¹	Farm Holding Area ²	Forest	Marsh & Tidal Waste	Others ³
1980	617.8	275.1	80.9	30.0	26.0	205.8
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

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

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 last 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 status in Singapore.

Mid-Year Estimates

The mid-year population estimates for the intercensal years 1981-1989 will be revised to refer only to Singapore

residents and published in forthcoming issues of the "Monthly Digest of Statistics".

Births and Deaths

The Registration of Births and Deaths Act, 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 1990 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 irrespective 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

Age-specific fertility rate (ASFR) : It refers to the number of births by mothers of a specific age group during a given year, per one 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 childbearing years.

Net reproduction rate (NRR) : It is a refinement of the gross reproduction rate, in that it takes into account 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.

Rates for 1990 refer to Singapore residents only.

Other References

Vital statistics on births, deaths and marriages are compiled and published monthly in the "Singapore Demographic Bulletin" and "Monthly Digest of Statistics".

Annual data on marriages are also 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.

2.1 POPULATION, 1901 ..., 1980 -1990

Year	Population											Rate of Population Increase	Sex Ratio (Males Per 1,000 Females)
	Total			Malays		Chinese		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	20.2	15.8	130.4	33.7	14.3	3.4	5.1	4.7	2.3	2,951
1911	303.3	215.5	87.8	22.6	19.2	161.6	57.9	23.1	4.7	8.2	6.0	2.9	2,454
1921	418.3	280.9	137.4	29.6	24.0	214.2	100.9	26.9	5.4	10.2	7.1	3.3	2,044
1931	557.7	352.1	205.6	34.9	30.1	261.0	157.6	42.8	8.0	13.4	9.9	2.9	1,713
1947	938.2	515.0	423.2	62.3	51.5	387.4	342.1	51.7	17.3	13.6	12.3	3.3	1,217
1957	1,445.9	762.8	683.1	103.2	93.8	555.7	534.9	89.1	40.5	14.8	13.9	4.4	1,117
1970	2,074.5	1,062.1	1,012.4	158.4	153.0	796.5	783.4	87.5	57.6	19.7	18.4	2.8	1,049
1980	2,413.9	1,231.7	1,182.2	181.9	169.6	935.0	921.2	88.0	66.6	26.8	24.8	1.5	1,042
1990	2,690.1	1,360.5	1,329.6	193.3	187.3	1,049.9	1,039.5	103.2	87.8	14.1	15.1	1.7	1,023
Mid-year Estimates													
1980 (Census)	2,413.9	1,231.7	1,182.2	181.9	169.6	935.0	921.2	88.0	66.6	26.8	24.8	1.2	1,042
1981	2,443.3	1,246.3	1,197.0	184.7	172.3	945.5	931.4	88.7	67.8	27.4	25.5	1.2	1,041
1982	2,471.8	1,260.4	1,211.4	187.4	175.0	955.5	941.2	89.4	68.9	28.1	26.3	1.2	1,040
1983	2,502.0	1,275.5	1,226.5	190.4	178.1	965.9	951.2	90.4	70.2	28.8	27.0	1.1	1,040
1984	2,529.1	1,288.7	1,240.4	193.3	181.1	974.9	960.1	91.1	71.5	29.4	27.7	1.1	1,039
1985	2,558.0	1,302.9	1,255.1	196.5	184.3	984.4	969.5	91.9	72.8	30.1	28.5	1.1	1,038
1986	2,586.2	1,316.9	1,269.3	199.8	187.6	993.6	978.4	92.8	74.0	30.7	29.3	1.0	1,038
1987	2,612.8	1,330.2	1,282.6	203.0	190.8	1,002.1	986.5	93.8	75.3	31.3	30.0	1.2	1,037
1988	2,647.1	1,347.4	1,299.7	206.7	194.5	1,013.8	997.5	94.9	76.9	32.0	30.8	1.5	1,037
1989	2,685.4	1,366.4	1,319.0	210.5	198.3	1,027.3	1,010.7	95.9	78.4	32.7	31.6	1.3	1,036
1990 (Census) ²	2,690.1	1,360.5	1,329.6	193.3	187.3	1,049.9	1,039.5	103.2	87.8	14.1	15.1	1.7	1,023

¹ From 1970, Indians include Sri Lankans (Ceylonese) who were previously classified under 'Others'.

² Data for 1990 refer to Singapore residents only and may not add up due to rounding. The rate of population increase refers to average annual rate of increase of resident population during 1980-1990.

2.2 MALE POPULATION ESTIMATES BY AGE GROUP, 1980 -1990

Thousand

Age Group (Years)	1980 ¹	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990 ²
Total	1,231.7	1,246.3	1,260.4	1,275.5	1,288.7	1,302.9	1,316.9	1,330.2	1,347.4	1,366.4	1,360.5
0 - 4	100.9	101.4	101.8	104.8	105.1	107.7	107.6	106.5	108.5	114.7	115.5
5 - 9	115.8	113.0	110.1	104.9	102.5	100.3	100.9	101.4	104.4	104.7	106.4
10 - 14	120.8	117.3	116.0	116.2	116.4	115.6	112.8	109.9	104.8	102.3	102.2
15 - 19	148.2	143.8	138.6	133.2	126.2	120.6	117.0	115.7	115.9	116.2	113.8
20 - 24	152.8	155.3	155.1	153.9	151.8	147.4	143.0	137.9	132.6	125.6	116.8
25 - 29	129.4	134.6	140.2	144.8	148.3	151.9	154.4	154.1	153.1	151.1	141.5
30 - 34	107.4	115.2	117.3	120.9	124.8	128.6	133.7	139.4	143.8	147.4	147.2
35 - 39	68.9	69.0	77.6	86.4	95.0	106.5	114.2	116.4	120.1	123.9	127.5
40 - 44	66.5	69.4	71.1	71.5	71.4	68.0	68.1	76.8	85.4	93.9	102.8
45 - 49	54.7	56.1	56.8	58.2	62.0	65.2	68.1	69.8	70.3	70.2	64.0
50 - 54	48.3	49.9	50.6	51.5	51.6	52.8	54.1	55.1	56.3	60.1	59.0
55 - 59	37.0	38.0	39.6	41.3	43.3	45.3	46.9	47.7	48.7	48.8	49.6
60 - 64	29.8	30.7	31.4	32.0	32.8	33.3	34.3	35.7	37.4	39.3	40.8
65 - 69	23.7	23.4	23.5	23.8	24.4	25.3	26.2	26.9	27.7	28.5	29.2
70 & Over	27.5	29.2	30.7	32.1	33.1	34.4	35.6	36.9	38.4	39.7	44.0

1 Census of Population.

2 Census of Population. Data refer to Singapore residents only and may not add up due to rounding.

2.3 FEMALE POPULATION ESTIMATES BY AGE GROUP, 1980 -1990

Thousand

Age Group (Years)	1980 ¹	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990 ²
Total	1,182.2	1,197.0	1,211.4	1,226.5	1,240.4	1,255.1	1,269.3	1,282.6	1,299.7	1,319.0	1,329.6
0 - 4	92.8	93.4	93.6	96.2	96.7	99.8	99.3	98.5	100.9	106.7	107.5
5 - 9	108.1	105.4	102.6	97.7	94.9	92.4	93.1	93.2	95.8	96.4	98.6
10 - 14	114.7	111.0	109.0	109.2	109.0	108.0	105.2	102.4	97.5	94.9	95.4
15 - 19	139.2	135.9	131.6	126.1	119.8	114.5	110.8	108.8	109.1	108.7	106.6
20 - 24	143.4	144.9	144.5	143.8	142.3	138.9	135.6	131.3	125.9	119.6	113.0
25 - 29	124.1	128.9	133.7	137.6	140.7	143.0	144.5	144.3	143.4	141.9	139.2
30 - 34	103.7	111.5	113.7	116.9	120.1	123.7	128.5	133.1	137.1	140.2	143.3
35 - 39	66.9	66.4	74.9	83.7	92.0	103.2	111.0	113.1	116.4	119.6	123.9
40 - 44	65.0	68.3	70.3	70.7	70.0	66.4	66.0	74.3	83.1	91.4	100.5
45 - 49	52.5	54.3	55.1	56.6	60.9	64.2	67.5	69.6	70.1	69.3	63.1
50 - 54	44.8	46.7	48.0	48.9	49.6	51.4	53.3	54.0	55.5	59.8	58.2
55 - 59	34.4	35.1	36.7	38.5	40.8	43.3	45.1	46.6	47.5	48.3	49.8
60 - 64	29.9	30.6	30.9	31.6	32.2	32.4	33.2	34.8	36.5	38.9	41.6
65 - 69	25.6	25.7	25.9	26.2	26.7	27.3	28.0	28.4	29.0	29.5	30.2
70 & Over	37.1	38.9	40.9	42.8	44.7	46.6	48.2	50.2	51.9	53.8	58.8

Note : See note to Table 2.2

2.4 SINGAPORE RESIDENTS BY AGE GROUP, ETHNIC GROUP AND SEX, 1980 CENSUS

Age Group (Years)	Total			Malays			Chinese			Indians			Others		
	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
	Thousand														
Total	2,282.1	1,159.0	1,123.1	328.7	167.3	161.4	1,787.8	900.2	887.6	143.4	80.4	63.0	22.2	11.1	11.1
0 - 4	185.8	96.7	89.1	28.9	15.0	13.9	145.4	75.8	69.6	9.6	4.9	4.7	1.9	1.0	0.9
5 - 9	216.6	112.0	104.6	33.8	17.4	16.4	169.3	87.6	81.7	11.8	6.1	5.7	1.7	0.9	0.8
10 - 14	228.2	116.9	111.3	39.8	20.1	19.7	171.5	88.2	83.3	15.1	7.7	7.4	1.8	0.9	0.9
15 - 19	270.5	139.3	131.2	48.3	24.7	23.6	201.7	104.1	97.6	18.3	9.4	8.9	2.2	1.1	1.1
20 - 24	272.2	139.9	132.3	41.8	21.3	20.5	210.8	108.4	102.4	17.4	9.1	8.3	2.2	1.1	1.1
25 - 29	232.8	118.0	114.8	31.5	15.6	15.9	185.8	94.5	91.3	13.4	6.9	6.5	2.1	1.0	1.1
30 - 34	194.2	97.8	96.4	23.0	11.4	11.6	158.5	80.0	78.5	10.7	5.4	5.3	2.0	1.0	1.0
35 - 39	124.7	62.3	62.4	13.5	6.3	7.2	102.7	51.5	51.2	7.3	3.9	3.4	1.2	0.6	0.6
40 - 44	124.1	62.1	62.0	15.5	7.4	8.1	99.5	50.1	49.4	7.7	4.0	3.7	1.4	0.6	0.8
45 - 49	103.0	52.1	50.9	13.7	6.5	7.2	79.8	39.7	40.1	8.2	5.2	3.0	1.3	0.7	0.6
50 - 54	90.2	46.5	43.7	13.0	7.0	6.0	67.5	32.8	34.7	8.5	6.1	2.4	1.2	0.6	0.6
55 - 59	69.4	35.8	33.6	10.0	5.8	4.2	51.8	24.4	27.4	6.6	5.0	1.6	1.0	0.6	0.4
60 - 64	58.5	29.2	29.3	7.0	4.0	3.0	46.4	21.4	25.0	4.3	3.4	0.9	0.8	0.4	0.4
65 - 69	48.4	23.4	25.0	4.2	2.3	1.9	41.2	19.0	22.2	2.4	1.8	0.6	0.6	0.3	0.3
70 & Over	63.5	27.0	36.5	4.7	2.5	2.2	55.9	22.7	33.2	2.1	1.5	0.6	0.8	0.3	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	100.0	100.0	100.0	100.0
0 - 19	39.5	40.1	38.8	45.9	46.1	45.6	38.5	39.5	37.4	38.2	35.0	42.4	34.2	35.2	33.3
20 - 39	36.1	36.1	36.2	33.4	32.6	34.2	36.8	37.2	36.4	34.0	31.5	37.3	33.8	33.3	34.3
40 - 59	16.9	16.9	16.9	15.9	16.0	15.8	16.7	16.3	17.1	21.6	25.2	17.0	22.1	22.5	21.6
60 & Over	7.5	6.9	8.1	4.8	5.3	4.4	8.0	7.0	9.1	6.2	8.3	3.3	9.9	9.0	10.8

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

Age Group (Years)	Total			Malays			Chinese			Indians			Others		
	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
Thousand															
Total	2,690.1	1,360.5	1,329.6	380.6	193.3	187.3	2,089.4	1,049.9	1,039.5	191.0	103.2	87.8	29.2	14.1	15.1
0 - 4	223.0	115.5	107.5	45.1	23.0	22.0	156.5	81.4	75.1	17.5	9.0	8.5	3.9	2.0	1.9
5 - 9	205.1	106.4	98.6	37.6	19.4	18.2	149.7	77.9	71.8	15.2	7.8	7.4	2.6	1.3	1.3
10 - 14	197.6	102.2	95.4	27.6	14.3	13.3	155.6	80.5	75.1	12.5	6.4	6.1	1.8	0.9	0.9
15 - 19	220.4	113.8	106.6	31.6	16.3	15.2	172.9	89.3	83.6	14.2	7.3	6.9	1.7	0.9	0.8
20 - 24	229.8	116.8	113.0	37.8	19.1	18.7	173.1	88.2	84.9	17.0	8.7	8.3	1.9	0.9	1.0
25 - 29	280.7	141.5	139.2	45.7	23.2	22.5	211.4	106.7	104.7	20.9	10.4	10.5	2.7	1.2	1.6
30 - 34	290.5	147.2	143.3	39.7	20.3	19.4	227.4	115.1	112.3	20.5	10.5	9.9	2.9	1.3	1.6
35 - 39	251.4	127.5	123.9	29.6	14.8	14.8	203.1	103.4	99.7	16.3	8.2	8.1	2.4	1.1	1.3
40 - 44	203.3	102.8	100.5	21.0	10.4	10.6	167.0	84.6	82.4	13.2	6.8	6.4	2.1	1.1	1.1
45 - 49	127.2	64.0	63.1	12.1	5.7	6.4	105.3	53.0	52.3	8.6	4.8	3.8	1.2	0.6	0.6
50 - 54	117.1	59.0	58.2	13.0	6.4	6.6	94.6	47.5	47.1	8.2	4.4	3.8	1.3	0.6	0.7
55 - 59	99.4	49.6	49.8	12.5	5.8	6.7	77.5	38.0	39.5	8.2	5.1	3.0	1.3	0.6	0.6
60 - 64	82.5	40.8	41.6	10.9	5.6	5.3	62.6	29.0	33.6	7.9	5.6	2.2	1.1	0.5	0.6
65 - 69	59.3	29.2	30.2	7.8	4.3	3.5	45.1	20.3	24.9	5.5	4.1	1.4	0.9	0.5	0.4
70 & Over	102.8	44.0	58.8	8.6	4.5	4.0	87.6	35.1	52.5	5.3	3.9	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 - 19	31.5	32.2	30.7	37.3	37.8	36.7	30.4	31.3	29.4	31.1	29.6	33.0	34.3	36.2	32.4
20 - 39	39.1	39.2	39.1	40.1	40.1	40.3	39.0	39.4	38.6	39.1	36.7	41.9	34.0	31.9	36.4
40 - 59	20.3	20.2	20.4	15.4	14.6	16.2	21.3	21.3	21.3	20.0	20.5	19.4	20.3	20.6	19.9
60 & Over	9.1	8.4	9.8	7.2	7.5	6.8	9.3	8.0	10.7	9.8	13.2	5.7	11.4	11.3	11.3

Note : Figures may not add up due to rounding.

2.6 VITAL STATISTICS, 1980 -1990

Year	Live-births			Deaths		Natural Increase	Crude Birth Rate	Crude Death Rate	Rate of Natural Increase	Infant Mortality Rate
	Total ¹	Males	Females	Total	Infants					
	Number						Per 1,000 Population			Per 1,000 Live-births
1980	41,217	21,308	19,908	12,505	483	28,712	17.1	5.2	11.9	11.7
1981	42,250	21,910	20,336	12,863	451	29,387	17.3	5.3	12.0	10.7
1982	42,654	22,285	20,367	12,896	456	29,758	17.3	5.2	12.0	10.7
1983	40,585	21,049	19,533	13,321	382	27,264	16.2	5.3	10.9	9.4
1984	41,556	21,661	19,894	13,162	365	28,394	16.4	5.2	11.2	8.8
1985	42,484	22,027	20,452	13,348	394	29,136	16.6	5.2	11.4	9.3
1986	38,379	19,929	18,447	12,821	359	25,558	14.8	5.0	9.9	9.4
1987	43,616	22,570	21,042	13,173	324	30,443	16.7	5.0	11.7	7.4
1988	52,957	27,332	25,624	13,690	368	39,267	20.0	5.2	14.8	6.9
1989	47,669	24,712	22,951	14,069	315	33,600	17.8	5.2	12.5	6.6
1990*	50,985	26,380	24,603	13,891	341	37,094	18.4 ²	4.8 ²	13.6 ²	6.7

- 1 Figures for males and females may not add up to the total due to unknown sex.
 2 Births, deaths and natural increase 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, 1980 -1990

Per Thousand Female Population

Age Group (Years)	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
15 - 19	12.2	11.5	11.2	10.3	10.2	9.7	8.5	7.9	7.4	7.3	8.2
20 - 24	79.9	80.3	77.1	70.0	66.9	66.9	59.5	59.2	65.2	59.9	59.5
25 - 29	137.3	136.3	133.9	124.8	124.5	124.7	110.5	125.3	148.4	131.5	136.5
30 - 34	84.5	82.0	83.3	79.5	83.2	86.6	76.4	94.6	121.8	107.9	109.8
35 - 39	27.2	28.6	30.4	29.2	31.9	31.2	29.0	34.0	45.7	43.3	44.0
40 - 44	5.7	5.4	4.9	3.8	4.8	4.5	4.8	6.0	7.4	7.6	7.2
45 - 49	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	-	0.1	0.1
TOTAL FERTILITY RATE	1,737	1,723	1,706	1,589	1,609	1,619	1,445	1,636	1,980	1,788	1,827
Gross Reproduction Rate	840	830	816	765	770	780	694	789	957	862	881
Net Reproduction Rate	819	810	796	746	750	760	677	769	932	840	na

Note : The 1990 rates refer to births of female residents per thousand resident female population.

2.8 LIVE-BIRTHS BY BIRTH ORDER, 1980 -1990

Birth Order	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
Total¹	Number										
	41,217	42,250	42,654	40,585	41,556	42,484	38,379	43,616	52,957	47,669	50,985
	17,968	18,599	19,105	18,255	18,071	18,638	17,336	17,586	20,522	19,465	20,270
	13,999	14,431	14,593	14,078	15,171	15,498	13,406	16,441	19,495	16,631	18,164
	6,236	6,305	6,228	5,757	5,877	5,900	5,443	6,966	9,806	8,845	9,593
	1,885	1,876	1,777	1,655	1,606	1,525	1,337	1,590	2,036	2,017	2,246
	590	522	506	470	436	443	382	398	459	471	486
	422	438	391	302	276	236	205	235	229	237	221
	Per Cent										
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1st	43.6	44.0	44.8	45.0	43.5	43.9	45.2	40.3	38.8	40.8	39.8
2nd	34.0	34.2	34.2	34.7	36.5	36.5	34.9	37.7	36.8	34.9	35.6
3rd	15.1	14.9	14.6	14.2	14.1	13.9	14.2	16.0	18.5	18.6	18.8
4th	4.6	4.4	4.2	4.1	3.9	3.6	3.5	3.6	3.8	4.2	4.4
5th	1.4	1.2	1.2	1.2	1.0	1.0	1.0	0.9	0.9	1.0	1.0
6th & Over	1.0	1.0	0.9	0.7	0.7	0.6	0.5	0.5	0.4	0.5	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, 1980 -1990

Place of Occurrence	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
TOTAL	Number										
	41,217	42,250	42,654	40,585	41,556	42,484	38,379	43,616	52,957	47,669	50,985
	33,970	33,872	33,437	30,695	30,500	30,456	25,896	26,212	28,695	24,991	24,217
	5,041	6,576	7,892	8,858	10,337	11,375	12,054	17,004	23,908	22,364	26,449
	1,244	857	412	337	296	259	137	131	119	81	75
	962	945	913	695	423	394	292	269	235	233	244
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
	82.4	80.2	78.4	75.7	73.4	71.7	67.5	60.1	54.2	52.4	47.5
	12.2	15.6	18.5	21.8	24.9	26.8	31.4	39.0	45.1	46.9	51.9
	3.0	2.0	1.0	0.8	0.7	0.6	0.3	0.3	0.2	0.2	0.1
	2.4	2.2	2.1	1.7	1.0	0.9	0.8	0.6	0.5	0.5	0.5

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

2.10 MALE AND FEMALE AGE SPECIFIC DEATH RATES, 1985 -1990

Per Thousand Population

Age Group (Years)	Males						Females					
	1985	1986	1987	1988	1989	1990 ²	1985	1986	1987	1988	1989	1990 ²
Total	5.8	5.5	5.6	5.6	5.8	5.2	4.6	4.4	4.5	4.7	4.6	4.3
Under 1¹	10.2	9.6	8.5	7.1	7.0	7.1	8.3	9.0	6.2	6.8	6.0	6.2
1 - 4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.5	0.5	0.3
5 - 9	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.1
10 - 14	0.3	0.3	0.4	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2
15 - 19	0.9	0.8	0.6	0.6	0.7	0.5	0.5	0.3	0.4	0.3	0.4	0.2
20 - 24	1.0	1.1	0.9	1.1	1.0	0.8	0.4	0.5	0.4	0.5	0.5	0.4
25 - 29	1.2	1.1	1.0	1.0	1.1	0.9	0.7	0.5	0.6	0.6	0.5	0.5
30 - 34	1.4	1.2	1.2	1.2	1.2	1.0	0.8	0.9	0.8	0.7	0.7	0.6
35 - 39	1.9	1.8	1.8	1.8	1.5	1.4	1.2	0.9	1.1	1.2	1.0	1.0
40 - 44	3.0	2.9	2.6	2.7	2.6	2.2	1.5	1.8	1.7	1.5	1.7	1.4
45 - 49	5.1	4.4	4.4	4.2	4.2	4.2	2.8	2.6	2.8	2.6	2.5	2.5
50 - 54	8.8	8.9	8.2	8.0	8.0	6.9	5.0	4.7	5.1	4.9	4.1	4.2
55 - 59	16.9	14.8	14.8	14.0	14.5	12.1	8.2	7.8	8.1	7.5	6.9	7.4
60 - 64	24.7	22.7	23.6	21.5	22.4	21.3	14.8	13.5	13.6	12.7	13.0	10.8
65 - 69	37.0	36.4	32.8	34.2	34.0	30.5	23.2	21.3	20.7	21.3	21.1	18.5
70 & Over	84.4	77.7	79.5	80.4	83.5	69.4	65.3	60.8	61.8	65.4	63.9	56.0

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

2 The 1990 rates refer to deaths of residents per thousand resident population.

2.11 DEATHS BY BROAD GROUPS OF CAUSES, 1980 -1990

Causes of Death	Number										
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
All Causes	12,505	12,863	12,896	13,321	13,162	13,348	12,821	13,173	13,690	14,069	13,891
Infective & Parasitic Diseases	425	432	393	432	390	375	402	432	430	439	316
of which : Tuberculosis	240	221	207	224	163	177	177	186	168	132	110
Neoplasms	2,623	2,672	2,729	2,903	2,817	2,939	2,921	3,169	3,233	3,321	3,262
of which : Cancer	2,561	2,616	2,668	2,858	2,776	2,893	2,887	3,131	3,194	3,283	3,220
Endocrine, Nutritional & Metabolic Diseases	359	404	397	423	512	492	508	521	525	461	379
of which : Diabetes	319	368	361	373	469	464	479	492	501	419	326
Diseases of the Blood & Blood-forming Organs	31	42	33	33	28	29	30	35	35	48	50
Diseases of the Nervous System & Sense Organs	131	114	121	92	97	87	87	102	133	111	140
Diseases of the Circulatory System	4,305	4,413	4,430	4,436	4,637	4,651	4,482	4,675	4,847	5,082	4,864
of which : Heart & Hypertensive Diseases	2,777	2,892	2,866	2,911	3,156	3,129	3,028	3,251	3,318	3,416	3,150
Cerebrovascular Disease	1,447	1,438	1,469	1,454	1,413	1,418	1,355	1,343	1,414	1,551	1,633
Diseases of the Respiratory System	1,965	2,196	2,257	2,429	2,096	2,241	1,974	1,942	2,110	2,167	1,990
of which : Pneumonia	1,129	1,284	1,375	1,513	1,204	1,287	1,082	998	1,039	1,130	1,124
Bronchitis	75	67	68	77	55	63	53	49	52	33	32
Diseases of the Digestive System	368	385	400	403	369	394	326	329	380	363	357
Diseases of the Genito-Urinary System	366	366	319	375	405	319	343	393	380	370	336
Congenital Anomalies	185	178	182	155	172	189	202	171	201	170	178
of which : Congenital Anomalies of Heart	111	109	101	86	91	84	101	87	98	75	73
Certain Causes of Perinatal Mortality	227	208	215	149	151	147	128	128	127	135	117
Accidents, Poisonings & Violence	899	938	966	1,085	1,095	1,082	1,025	931	958	1,042	331
of which : Motor Vehicle Accidents	250	281	326	323	343	292	265	233	242	245	na
Other Accidents	122	157	198	231	194	214	223	198	168	206	na
Suicides	271	191	239	267	211	327	329	302	367	395	na
Other Diseases & Causes	621	515	454	406	393	403	393	345	331	360	1,571 ¹
of which : Senility	403	237	219	208	236	170	140	125	112	113	108

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

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

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

2.12 POPULATION AGED 60 YEARS AND OVER, 1980 -1990

	1980 ¹	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990 ¹
Demographic Characteristics²											
Persons Aged 60 Years & Over ('000)	173.6	178.5	183.3	188.5	193.9	199.3	205.5	212.9	220.9	229.7	244.6
Percentage of Total Population	7.2	7.3	7.4	7.5	7.7	7.8	7.9	8.1	8.3	8.6	9.1
Sex Ratios (Males Per 1,000 Females)											
of Persons Aged											
60 - 69 Years	965	961	967	965	971	982	989	991	994	991	975
70 Years & Over	739	751	751	750	740	738	739	735	740	738	748
60 Years & Over	874	875	876	874	872	875	878	877	882	880	873
Literacy Rate of Persons Aged 60 Years & Over (Per 1,000 Population)											
Males	695	706	716	727	737	750	762	773	784	794	832*
Females	194	208	219	230	241	255	270	285	302	320	351*
Economic Characteristics³											
Economically Active Persons											
Aged 60 Years & Over ('000)	37.7	40.1	39.7	42.5	42.2	41.1	38.5	38.2	37.8	39.8	47.4
Percentage of Total Economically Active	3.4	3.5	3.4	3.5	3.5	3.4	3.1	3.1	3.0	3.0	3.1
Employed Persons Aged 15-59 Years ('000)	1,035.7	1,073.6	1,101.2	1,125.8	1,133.4	1,113.9	1,112.0	1,155.5	1,201.1	1,237.8	1,438.5
Self-employed (%)	13.6	11.5	12.0	12.4	12.7	12.7	12.8	12.6	12.0	12.1	10.0
Employees (%)	83.9	86.2	85.7	85.5	85.4	85.4	85.4	85.2	86.3	86.6	88.5
Employed Persons Aged 60 Years & Over ('000)	37.7	39.2	39.3	41.8	41.4	40.4	37.0	37.4	37.4	39.4	47.3
Self-employed (%)	44.9	42.0	39.9	42.8	39.8	37.9	43.0	44.3	40.9	41.4	40.0
Employees (%)	52.5	54.2	56.9	53.8	56.3	58.4	52.5	52.0	55.8	56.1	57.3

1 Census of Population.

2 Data for 1990 refer to Singapore residents only.

3 Data for 1990 are grossed up based on 10 per cent sample.

2.13 MARRIAGES REGISTERED BY ETHNIC GROUP OF COUPLE, 1980-1990

Number

Year	All Marriages Registered	Women's Charter					Muslim Law Act			
		Total	Chinese	Indians	Others	Inter-ethnic Group	Total	Malays	Others	Inter-ethnic Group
1980	23,721	19,689	17,758	1,171	118	642	4,032	3,192	242	598
1981	25,024	20,595	18,614	1,195	116	670	4,429	3,494	246	689
1982	23,214	18,392	16,503	1,079	119	691	4,822	3,791	257	774
1983	22,059	17,465	15,377	1,177	124	787	4,594	3,657	255	682
1984	24,940	20,446	18,255	1,256	109	826	4,494	3,496	260	738
1985	23,466	18,903	16,747	1,281	83	792	4,563	3,576	261	726
1986	20,075	15,690	13,824	1,094	95	677	4,385	3,415	241	729
1987	23,404	18,939	16,904	1,133	99	803	4,465	3,545	248	672
1988	24,853	20,052	17,861	1,158	88	945	4,801	3,787	227	787
1989	23,662	18,868	16,629	1,218	110	911	4,794	3,763	269	762
1990	24,339	19,577	17,113	1,234	107	1,123	4,762	3,718	259	785

Source : Registry of Marriages
Registry of Muslim Marriages

2.14 MARRIAGES BY AGE GROUP OF GROOMS AND BRIDES, 1988-1990

Number

Age Group (Years)	1988				1989				1990			
	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	19,782	4,801	19,782	4,801	18,546	4,794	18,546	4,794	19,191	4,762	19,191	4,762
Under 20	58	39	802	449	60	56	760	512	68	67	765	558
20 - 24	3,631	1,254	8,341	2,348	3,288	1,310	7,414	2,298	2,988	1,164	7,160	2,109
25 - 29	9,306	2,209	7,520	1,279	8,374	2,154	7,121	1,273	8,654	2,198	7,678	1,307
30 - 34	4,701	731	2,231	376	4,520	718	2,281	382	4,834	746	2,462	407
35 - 39	1,357	256	618	185	1,494	264	654	166	1,689	293	791	226
40 - 44	403	136	185	75	434	127	209	85	567	117	232	92
45 - 49	162	60	51	43	186	58	61	40	196	60	62	23
50 & Over	164	116	34	46	190	107	46	38	195	117	41	40

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

2.15 AVERAGE AGE AT MARRIAGE OF GROOMS AND BRIDES, 1980-1990

Years

Year	All Marriages		Women's Charter		Muslim Law Act	
	Grooms	Brides	Grooms	Brides	Grooms	Brides
1980	27.8	24.6	27.9	24.7	27.3	23.8
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

Source : Registry of Marriages
Registry of Muslim Marriages

2.16 AGE SPECIFIC MARRIAGE RATES, 1970, 1982 -1990

Per Thousand Unmarried Population

Age Group (Years)	1970	1982	1983	1984	1985	1986	1987	1988	1989	1990 ¹
Males										
15 - 19	1.6	1.7	1.6	1.5	1.2	1.0	1.0	0.8	1.0	1.2
20 - 24	52.4	46.1	42.6	43.3	42.3	34.9	37.5	38.6	38.3	36.5
25 - 29	173.0	119.2	109.5	123.7	110.6	87.8	104.2	112.0	101.6	113.0
30 - 34	171.7	126.4	117.3	137.3	115.0	97.2	113.7	115.0	105.2	102.4
35 - 39	113.1	119.0	88.2	110.2	87.0	74.0	93.7	84.3	82.8	74.0
40 - 44	59.5	87.5	61.9	70.8	61.7	67.6	67.5	66.6	67.6	44.8
General Marriage Rate (15-44)	51.6	54.4	51.1	58.4	54.7	46.3	54.3	57.4	54.4	54.8
Females										
15 - 19	19.1	18.5	17.7	16.1	15.7	12.7	12.4	11.6	11.8	11.2
20 - 24	123.8	101.0	95.0	104.8	98.6	81.6	93.0	100.8	96.7	88.1
25 - 29	192.3	117.3	111.9	131.8	117.1	99.3	130.4	133.6	123.1	139.1
30 - 34	99.1	74.7	67.1	73.2	67.5	62.9	79.7	81.0	81.5	72.2
35 - 39	46.0	48.5	39.5	45.1	35.7	34.8	40.6	41.4	39.2	37.9
40 - 44	18.1	24.9	20.7	19.4	19.7	18.5	21.4	21.9	22.2	15.1
General Marriage Rate (15-44)	67.3	67.1	63.6	71.4	67.0	57.2	67.9	71.1	67.5	62.8

¹ Data for 1990 refer to marriages of resident males and females per thousand unmarried resident population.

Source : Registry of Marriages
Registry of Muslim Marriages

2.17 DIVORCES BY ETHNIC GROUP OF COUPLE, 1983-1990

Year	Women's Charter					Muslim Law Act				
	Total	Chinese	Indians	Others	Inter-ethnic Group	Total	Malays	Indians	Others	Inter-ethnic Group
Number										
1983	1,602	1,427	92	11	72	711	549	39	6	117
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
Per Cent										
1983	100.0	89.1	5.7	0.7	4.5	100.0	77.2	5.5	0.8	16.5
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

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, 1988-1990

Number

Age Group (Years)	1988				1989				1990			
	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	2,023	893	2,023	893	2,002	907	2,002	907	2,662	972	2,662	972
Under 20	-	2	2	14	-	1	3	15	1	2	3	18
20 - 24	41	52	181	185	24	41	178	163	35	59	180	162
25 - 29	370	241	608	262	362	243	572	265	443	233	761	301
30 - 34	541	215	501	169	521	234	496	199	746	269	736	178
35 - 39	473	153	371	121	463	167	354	125	606	155	455	155
40 - 44	271	83	166	59	290	99	183	70	393	109	288	79
45 - 49	152	59	73	36	144	48	76	29	181	49	104	36
50 & Over	109	88	55	47	125	74	66	41	191	96	68	43
Not Stated	66	-	66	-	73	-	74	-	66	-	67	-
Mean Age (Years)	36.5	35.9	33.0	31.9	36.8	35.6	33.3	32.0	37.0	35.9	33.5	32.2

Note : See note to Table 2.17.

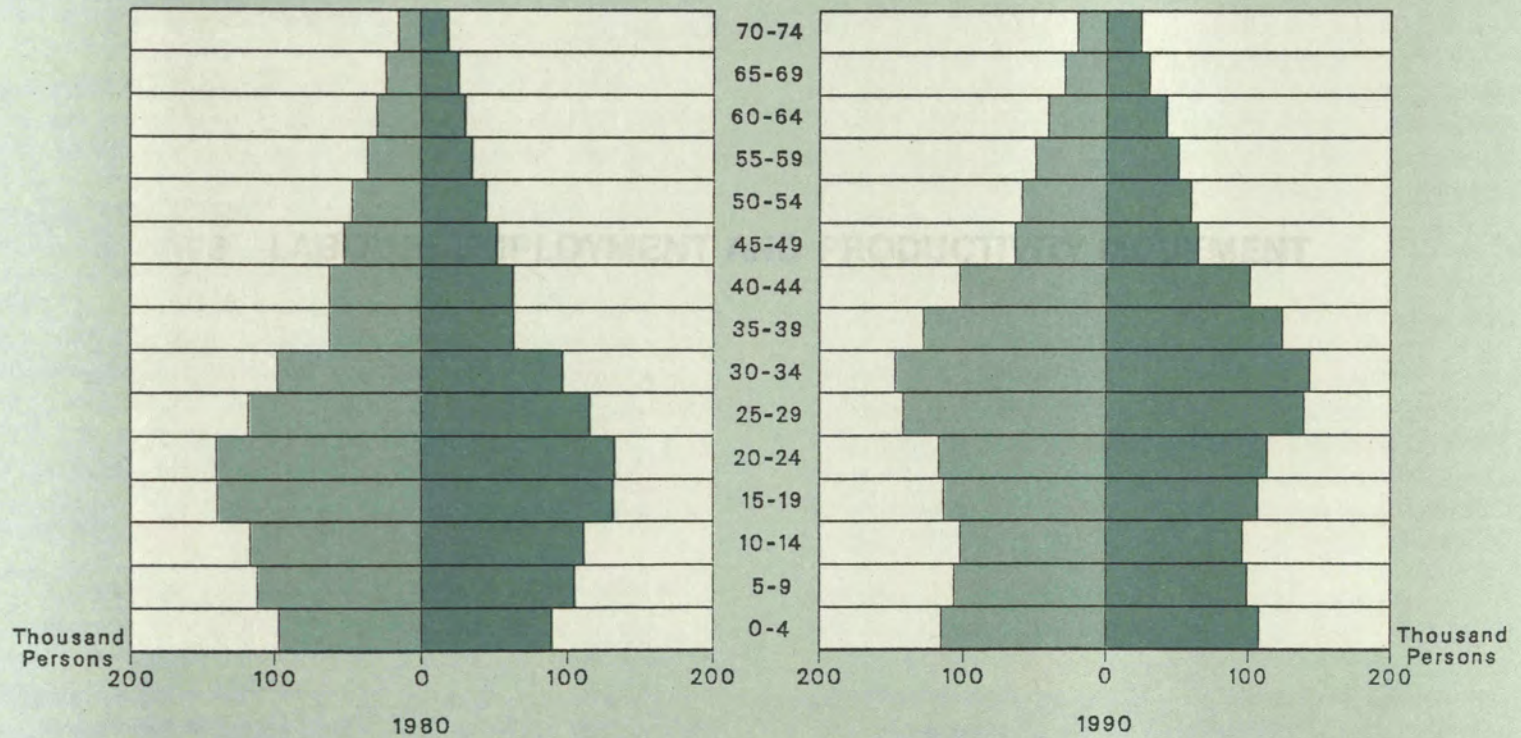
Source : Supreme Court
Syariah Court

CHART 1

AGE DISTRIBUTION OF RESIDENT POPULATION, 1980 AND 1990

Male Female

Age Group
in Years



3 LABOUR, EMPLOYMENT AND PRODUCTIVITY MOVEMENT

3 LABOUR, EMPLOYMENT AND PRODUCTIVITY MOVEMENT

Labour Force

Data for 1980 and 1990 were based on the Population Censuses whereas those for 1981 to 1989 were based on annual labour force surveys. Labour force 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

Prior to 1985, statistics on the average monthly earnings of workers were obtained from the Hours and

Earnings Survey conducted by the Ministry of Labour. The survey covered public and private sector establishments with at least 10 workers. From 1985, the data are compiled from the Occupational Wages Survey conducted by the Central Provident Fund (CPF) Board on behalf of the Ministry of Labour. It covered public and private sector establishments with at least 25 active CPF contributors. The data for the two periods are thus not strictly comparable.

Definitions

Monthly Earnings : Refers to all remuneration received before deduction of the employee's CPF contribution and personal income tax. It includes basic wage/salary, overtime payments, commissions, shift/food/housing/transport allowances, service point payments, and other regular cash payments; but excludes annual wage supplement, variable payments/bonuses, employer's CPF contributions and payments-in-kind.

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 1990 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	16.5% of total wages	Nil
Between \$200 and \$363	16.5% of ordinary wages	8% plus one-third of (total wages minus \$200)
Exceeding \$363	16.5% of ordinary wages up to a maximum of \$990 plus 16.5% of additional wages	23% of ordinary wages up to a maximum of \$1,380 plus 23% 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. The key activities of the Board centre around the promotion of productivity, providing assistance to companies through training and management guidance and the measurement of productivity.

The NPB Institute for Productivity Training, (NPB-IPT), established in April 1988, conducted continuing education courses for managers, executives and workers. Short intensive workshops, conferences and seminars were also conducted. Further, the NPB works in partnership with the private sector to develop national training programmes. The Service Quality Centre was established in 1990. The Centre will train top management, supervisors and frontline staff of small and medium enterprises and provide consultancy on accreditation service and workers' attitude tests.

NPB has also teamed up with the Singapore Manufacturers' Association to develop an "Improving Quality" programme to help local manufacturers develop a management culture that "understand quality" as well as to train workers to emphasize quality in their work.

Trade Unions

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

Trade Disputes

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

A trade dispute means any dispute between employees and employers connected with the employment or non-employment or the terms of employment or the conditions of work of any person.

Industrial Stoppages

Data on industrial stoppages refer to cases reported to and handled by the Labour Relations Division of the Ministry of Labour and include both strikes and lockouts.

3.1 LABOUR FORCE, 1980-1990

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		
1980 ¹	1,112.1	728.6	383.5	704.6	368.8	24.0	14.7	81.5	44.3	3.5
1981	1,146.0	738.2	407.8	717.8	395.0	20.3	12.8	81.1	44.8	2.9
1982	1,170.5	752.6	417.9	734.6	406.0	18.0	11.9	81.5	45.2	2.6
1983	1,206.4	777.9	428.6	752.8	414.9	25.1	13.6	81.6	45.7	3.2
1984	1,207.4	768.2	439.1	748.0	426.8	20.2	12.4	81.2	45.8	2.7
1985	1,204.0	766.1	437.9	734.3	420.0	31.9	17.9	79.9	44.9	4.1
1986	1,228.6	773.4	455.2	719.0	430.1	54.4	25.1	79.4	45.6	6.5
1987	1,251.7	778.9	472.8	739.2	453.7	39.7	19.1	78.6	47.0	4.7
1988	1,281.4	787.1	494.3	757.0	481.5	30.1	12.8	78.5	47.8	3.3
1989	1,305.4	792.6	512.8	774.0	503.2	18.5	9.6	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	1.3

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

Source : Ministry of Labour
(Other than Census years)

3.2 PERSONS AGED 15 YEARS AND OVER BY AGE GROUP, ACTIVITY STATUS AND SEX, 1990

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	2,335.4	1,177.5	1,157.9	1,516.0	933.0	583.0	1,485.8	912.2	573.6	30.2	20.8	9.4	819.4	244.5	574.9
15 - 19	252.9	132.1	120.7	71.1	37.5	33.6	68.8	36.8	32.0	2.3	0.7	1.6	181.7	94.6	87.1
20 - 24	305.6	157.8	147.8	250.7	133.1	117.6	243.8	129.0	114.8	6.9	4.1	2.8	54.9	24.7	30.2
25 - 29	339.0	172.7	166.4	291.7	164.7	126.9	285.2	160.2	125.0	6.4	4.5	1.9	47.4	7.9	39.4
30 - 34	329.3	168.5	160.9	264.1	162.7	101.4	259.1	158.8	100.3	5.1	3.9	1.1	65.2	5.8	59.4
35 - 39	275.6	140.1	135.4	210.7	136.3	74.4	207.0	133.5	73.5	3.6	2.7	0.9	64.9	3.9	61.0
40 - 44	218.6	110.9	107.8	164.1	108.2	55.9	161.6	106.2	55.3	2.6	2.0	0.6	54.5	2.6	51.9
45 - 49	135.7	68.6	67.1	95.4	65.3	30.2	93.7	63.8	29.9	1.7	1.4	0.3	40.3	3.3	36.9
50 - 54	123.3	61.8	61.5	75.5	54.5	21.0	74.4	53.6	20.9	1.1	0.9	0.1	47.8	7.3	40.5
55 - 59	102.3	49.6	52.7	45.3	33.9	11.3	44.8	33.5	11.2	0.5	0.4	0.1	57.0	15.7	41.3
60 & Over	253.1	115.5	137.6	47.4	36.8	10.6	47.3	36.8	10.5	0.1	0.1	-	205.7	78.7	127.0

Note : Figures are grossed up based on 10 per cent sample data obtained from the 1990 Population Census and may not add up due to rounding.

3.3 AGE-SEX SPECIFIC LABOUR FORCE PARTICIPATION RATES, 1980 AND 1987-1990

Per Cent

Age Group (Years)	1980 ¹			1987			1988			1989			1990 ¹		
	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
Total	63.2	81.5	44.3	62.7	78.6	47.0	62.9	78.5	47.8	63.1	78.6	48.4	64.9	79.2	50.3
15 - 19	49.1	47.5	50.7	26.7	26.3	27.0	26.2	25.2	27.2	26.8	25.5	28.2	28.1	28.4	27.8
20 - 24	86.1	93.4	78.4	83.0	86.0	79.9	82.7	84.6	80.9	83.0	84.8	81.3	82.0	84.3	79.6
25 - 29	78.3	97.2	58.7	83.6	96.7	71.2	85.1	96.7	73.8	85.2	96.6	74.1	86.0	95.4	76.3
30 - 34	71.5	97.9	44.2	77.0	98.3	56.3	77.8	98.1	58.4	78.7	98.3	59.8	80.2	96.6	63.0
35 - 39	68.0	98.0	37.1	74.6	98.6	50.2	74.1	98.7	50.6	75.8	99.0	53.3	76.5	97.3	54.9
40 - 44	65.8	97.6	33.2	71.7	98.7	45.5	72.2	98.3	46.6	73.6	97.8	50.2	75.1	97.6	51.9
45 - 49	61.8	95.7	26.5	67.9	96.3	39.3	68.5	96.0	39.3	68.1	96.1	41.3	70.3	95.2	45.0
50 - 54	56.3	89.6	20.4	58.3	89.6	28.1	58.3	88.9	28.8	59.5	89.2	30.7	61.2	88.2	34.1
55 - 59	43.6	70.7	14.5	40.6	63.8	17.1	40.5	65.1	17.4	42.2	66.6	19.4	44.3	68.3	21.4
60 - 64	31.9	52.5	11.3	28.9	45.7	12.2	29.5	47.3	11.9	28.9	48.2	11.0	30.1	48.4	12.8
65 - 69	23.5	38.6	9.5	19.8	31.8	8.4	18.8	30.6	8.1	18.6	31.1	7.6	20.0	32.7	8.4
70 - 74	15.0	25.1	6.2	12.4	20.5	5.6	10.6	18.6	3.6	11.1	18.0	5.6	13.3	22.5	5.8
75 & Over	6.6	13.3	2.5	5.5	10.3	2.4	5.4	10.5	1.9	4.7	9.0	1.8	5.6	11.1	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 years)

3.4 EMPLOYED PERSONS AGED 15 YEARS AND OVER BY INDUSTRY, 1980 AND 1982-1990

Thousand

Industry	1980 ¹	1982	1983	1984	1985	1986	1987	1988	1989	1990 ²
Total	1,073.4	1,140.6	1,167.6	1,174.8	1,154.3	1,149.0	1,192.9	1,238.5	1,277.4	1,485.8
Agriculture & Fishing	16.8	11.6	11.8	8.8	8.1	9.6	10.4	5.4	5.8	5.7
Quarrying	1.1	2.5	2.3	1.9	2.4	1.3	0.6	0.8	0.8	0.5
Manufacturing	322.6	336.0	324.4	322.2	293.8	290.1	318.9	352.6	369.9	421.9
Utilities	8.5	7.9	8.5	9.2	7.7	7.8	7.2	7.8	6.9	6.8
Construction	71.0	71.9	84.0	99.8	102.8	99.5	91.5	83.3	84.5	134.4
Commerce	228.4	253.6	265.0	264.6	271.1	265.6	279.4	283.6	291.5	327.2
Transport & Communications	119.7	129.8	131.9	122.4	117.0	114.1	121.0	120.2	126.2	140.0
Financial & Business Services	84.0	89.8	95.0	100.9	100.7	99.9	105.7	111.4	117.1	158.9
Other Services	220.9	235.5	243.1	242.2	248.3	259.2	256.7	271.6	273.5	290.3
Activities Not Adequately Defined	0.4	2.0	1.6	2.8	2.4	1.8	1.6	1.8	1.2	-

1 Data for 1980 and 1990 were classified according to the Singapore Standard Industrial Classification (SSIC) 1990, while those from 1982 to 1989 were classified according to SSIC 1978. Owing to differences between SSIC 1978 and SSIC 1990, data for the census years and those for other years are strictly not comparable.

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

Source : Ministry of Labour
(Other than Census years)

3.5 EMPLOYED PERSONS AGED 15 YEARS AND OVER BY OCCUPATION, 1980 AND 1982-1990

Thousand

Occupation	1980 ¹	1982	1983	1984	1985	1986	1987	1988	1989	1990 ²
Total	1,073.4	1,140.6	1,167.6	1,174.8	1,154.3	1,149.0	1,192.9	1,238.5	1,277.3	1,485.8
Professional & Technical Workers	125.4	106.3	111.4	119.1	120.5	126.4	133.6	142.8	152.5	233.9
Administrative, Managerial & Executive Workers	67.4	58.3	62.3	70.0	65.9	68.1	71.9	86.3	97.7	122.2
Clerical Workers	147.9	186.9	196.1	194.8	184.7	180.6	184.8	190.7	193.5	197.0
Sales & Service Workers	156.9	277.5	288.0	292.0	297.0	292.1	309.4	316.0	323.8	196.0
Agricultural Workers & Fishermen	17.0	15.4	15.7	12.7	12.5	12.8	14.3	8.9	9.1	4.8
Production, Transport & Other Manual Workers	496.6	439.0	441.0	439.4	419.0	411.0	422.8	437.2	447.7	651.0
Workers Not Classifiable by Occupation	62.2	57.2	53.1	46.7	54.6	57.9	56.2	56.6	53.0	80.8

1 Data for 1980 and 1990 were classified according to the Singapore Standard Occupational Classification (SSOC) 1990, while those from 1982 to 1989 were classified according to SSOC 1978. Owing to differences between SSOC 1978 and SSOC 1990, data for the census years and those for other years are strictly not comparable.

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

Source : Ministry of Labour
(Other than Census years)

3.6 EMPLOYED PERSONS AGED 15 YEARS AND OVER BY INDUSTRY AND OCCUPATIONAL STATUS, 1990 CENSUS

Thousand

Industry	Occupational Status				
	Total	Employers	Own Account Workers	Employees	Unpaid Family Workers
TOTAL	1,485.8	66.5	96.1	1,299.7	23.5
Agriculture & Fishing	5.7	0.6	1.9	2.5	0.7
Quarrying	0.5	-	-	0.5	-
Manufacturing	421.9	10.0	5.6	404.5	1.9
Utilities	6.8	-	-	6.8	-
Construction	134.4	8.1	5.9	119.5	0.8
Commerce	327.2	32.0	42.1	234.7	18.4
Transport & Communications	140.0	4.2	25.7	109.7	0.5
Financial & Business Services	158.9	5.5	5.3	147.8	0.3
Other Services	290.3	6.1	9.7	273.6	0.9

Note : Data are grossed up based on 10 per cent sample data obtained from the 1990 Population Census and may not add up due to rounding.

The industries are classified according to the "Singapore Standard Industrial Classification (1990)"

3.7 EMPLOYED PERSONS AGED 15 YEARS AND OVER BY INDUSTRY AND OCCUPATION, 1990 CENSUS

Thousand

Occupation		Thousand						
Industry	Total	Professional & Technical Workers	Admin-istrative, Managerial & Executive Workers	Clerical Workers	Sales & Service Workers	Agricultural Workers & Fishermen	Production, Transport & Other Manual Workers	Workers Not Classifiable by Occupation
Total	1,485.8	233.9	122.2	197.0	196.0	4.8	651.0	80.8
Agriculture & Fishing	5.7	0.1	0.3	0.2	-	4.1	1.0	0.1
Quarrying	0.5	-	0.1	0.1	-	-	0.3	0.1
Manufacturing	421.9	50.0	23.3	37.2	4.3	-	301.9	5.2
Utilities	6.8	2.1	-	1.0	0.2	-	3.1	0.3
Construction	134.4	5.7	9.1	4.9	0.3	-	112.9	1.5
Commerce	327.2	25.8	59.1	49.1	141.7	0.2	47.8	3.4
Transport & Communications	140.0	18.7	7.8	30.4	9.4	-	71.2	2.4
Financial & Business Services	158.9	52.5	16.4	49.7	10.2	-	28.0	2.1
Other Services	290.3	78.9	6.1	24.2	29.9	0.5	84.9	65.8

Note : Data are grossed up based on 10 per cent sample data obtained from the 1990 Population Census and may not add up due to rounding.
 The industries and occupations are classified according to the "Singapore Standard Industrial Classification (1990)" and "Singapore Standard Occupational Classification (1990)".

3.8 GOVERNMENT EMPLOYEES BY DIVISIONAL STATUS, 1980-1990

Divisional Status	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
Total	Number										
	71,081	69,866	68,677	69,051	69,298	69,630	70,001	69,494	68,336	65,753	63,170
	7,796	8,068	8,467	8,911	9,547	10,158	11,047	11,433	11,518	12,029	12,359
	23,051	22,724	22,962	23,441	23,101	22,915	22,942	22,611	22,766	21,782	20,643
	24,892	23,947	22,778	22,162	22,251	22,369	21,963	21,794	20,901	20,110	19,742
	15,342	15,127	14,470	14,537	14,399	14,188	14,049	13,656	13,151	11,832	10,426
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
	11.0	11.5	12.3	12.9	13.8	14.6	15.8	16.4	16.9	18.3	19.6
	32.4	32.5	33.4	33.9	33.3	32.9	32.8	32.5	33.3	33.1	32.7
	35.0	34.3	33.2	32.1	32.1	32.1	31.4	31.4	30.6	30.6	31.2
	21.6	21.7	21.1	21.1	20.8	20.4	20.0	19.7	19.2	18.0	16.5

Note : Figures exclude daily-rated employees.

Source : Public Service Commission

3.9 CHANGES IN PRODUCTIVITY BY INDUSTRY, 1980-1990

Per Cent

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
TOTAL	5.7	5.2	1.6	5.3	6.9	3.1	6.3	4.8	4.5	4.8	3.4
Total excluding Construction	5.6	5.8	1.9	5.1	6.7	2.4	7.1	4.8	4.5	5.0	3.5
Manufacturing	4.6	9.2	-0.7	9.1	7.2	-1.5	13.6	3.7	2.0	3.8	4.6
Construction	6.6	0.5	4.2	10.1	9.0	5.7	-4.3	0.8	1.6	0.1	1.4
Commerce	4.9	1.3	1.2	2.1	4.5	0.4	4.9	6.3	10.9	4.1	3.2
Transport & Communications	10.0	9.1	8.0	8.8	11.9	5.2	10.7	6.3	6.6	4.8	4.7
Financial & Business Services	8.8	4.7	-0.1	4.3	7.7	12.0	1.4	17.7	6.0	7.4	5.3

Source : Department of Statistics
Ministry of Labour

3.10 AVERAGE MONTHLY EARNINGS BY INDUSTRY AND OCCUPATION, 1980-1990 (As at August)

Dollars

Industry	All Occupations										
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	692	789	910	991	1,083	1,191	1,210	1,231	1,295	1,427	1,557
Manufacturing	575	670	740	821	907	980	989	1,025	1,095	1,225	1,358
Construction	687	851	881	861	891	1,250	1,208	1,240	1,378	1,556	1,741
Commerce	674	797	877	946	1,017	1,055	1,072	1,057	1,124	1,239	1,376
Transport, Storage & Communications	778	857	998	1,109	1,196	1,309	1,354	1,422	1,422	1,517	1,594
Financing, Insurance, Real Estate & Business Services	927	1,022	1,164	1,283	1,422	1,418	1,421	1,458	1,551	1,737	1,897
Community, Social & Personal Services	788	845	1,090	1,188	1,337	1,422	1,469	1,483	1,551	1,678	1,781
Others ¹	815	907	1,137	1,181	1,345	1,317	1,312	1,339	1,412	1,551	1,597

Note : The data for 1985-1990 refer to firms with at least 25 CPF contributors, while those for 1980-1984 refer to firms with at least 10 workers.

They are thus not strictly comparable.

1 Agriculture & Fishing, Mining & Quarrying and Utilities.

Source : Ministry of Labour

3.10 AVERAGE MONTHLY EARNINGS BY INDUSTRY AND OCCUPATION, 1980-1990 *(continued)* (As at August)

Dollars

Industry	Professional, Administrative, Managerial, Executive and Related Workers										
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	1,619	1,761	2,068	2,228	2,419	2,296	2,322	2,339	2,421	2,610	2,756
Manufacturing	1,919	2,076	2,201	2,360	2,521	2,191	2,215	2,236	2,260	2,408	2,578
Construction	1,529	1,762	2,073	2,250	2,427	2,247	2,219	2,159	2,239	2,381	2,549
Commerce	2,061	2,222	2,405	2,472	2,591	2,409	2,449	2,471	2,606	2,743	2,905
Transport, Storage & Communications	2,199	2,242	2,541	2,793	2,921	2,416	2,480	2,471	2,585	2,762	2,870
Financing, Insurance, Real Estate & Business Services	1,865	2,101	2,354	2,546	2,704	2,690	2,709	2,718	2,837	3,088	3,208
Community, Social & Personal Services	1,217	1,261	1,675	1,822	2,065	2,121	2,191	2,179	2,256	2,443	2,565
Others ¹	1,582	1,797	2,235	2,291	2,512	2,228	2,226	2,235	2,327	2,571	2,587

Note : The data for 1985-1990 refer to firms with at least 25 CPF contributors, while those for 1980-1984 refer to firms with at least 10 workers. They are thus not strictly comparable.

1 Agriculture & Fishing, Mining & Quarrying and Utilities.

Source : Ministry of Labour

3.10 AVERAGE MONTHLY EARNINGS BY INDUSTRY AND OCCUPATION, 1980-1990 (continued)

(As at August)

Dollars

Industry		Clerical, Sales, Service and Related Workers											
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	
Total		561	617	695	744	808	853	872	890	917	987	1,067	
Manufacturing		601	674	726	786	868	930	962	979	1,021	1,097	1,180	
Construction		523	657	716	751	811	876	885	890	943	1,015	1,093	
Commerce		514	592	642	685	735	773	779	774	812	891	978	
Transport, Storage & Communications		618	676	791	843	910	1,032	1,065	1,130	1,109	1,175	1,236	
Financing, Insurance, Real Estate & Business Services		614	637	700	754	834	816	832	861	881	951	1,033	
Community, Social & Personal Services		525	549	672	722	784	822	843	855	893	942	1,018	
Others ¹		739	755	925	954	1,080	1,082	1,096	1,125	1,149	1,230	1,270	

Note : The data for 1985-1990 refer to firms with at least 25 CPF contributors, while those for 1980-1984 refer to firms with at least 10 workers. They are thus not strictly comparable.

1 Agriculture & Fishing, Mining & Quarrying and Utilities.

Source : Ministry of Labour

3.10 AVERAGE MONTHLY EARNINGS BY INDUSTRY AND OCCUPATION, 1980-1990 (continued)
(As at August)

Dollars

Industry	Production, Transport and Other Manual Workers										
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	473	553	613	668	729	790	783	817	866	941	1,023
Manufacturing	443	523	564	630	691	730	732	773	828	908	991
Construction	519	661	720	710	753	989	910	920	1,029	1,171	1,294
Commerce	489	573	630	675	716	794	798	802	868	894	982
Transport, Storage & Communications	631	700	802	867	937	955	965	1,068	1,035	1,101	1,161
Financing, Insurance, Real Estate & Business Services	463	553	613	638	709	926	878	847	973	1,035	1,160
Community, Social & Personal Services	422	465	556	566	647	841	821	825	853	926	1,006
Others ¹	575	622	779	782	878	926	885	891	925	991	1,020

Note : The data for 1985-1990 refer to firms with at least 25 CPF contributors,
while those for 1980-1984 refer to firms with at least 10 workers.
They are thus not strictly comparable.

Source : Ministry of Labour

1 Agriculture & Fishing, Mining & Quarrying and Utilities.

3.11 AVERAGE WEEKLY HOURS WORKED BY INDUSTRY, 1980-1990

Hours

Industry	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
	As at August						As at June		As at Sept		
All Industries	45.9	45.6	45.4	45.6	45.6	44.6	45.1	45.5	45.6	46.6	46.5
Agriculture & Fishing	43.8	43.7	43.9	44.4	44.2	44.1	44.9	44.8	44.9	46.4	45.8
Quarrying	46.9	49.5	49.6	49.2	48.0	46.5	46.6	49.4	52.3	51.1	57.0
Manufacturing	48.0	48.1	47.6	48.1	47.8	46.5	47.7	48.4	47.4	48.6	48.5
Utilities	48.2	48.0	48.0	48.3	47.7	47.3	47.3	46.6	n.a	n.a.	n.a.
Construction	48.1	49.3	50.5	50.5	52.2	51.0	50.0	49.5	48.2	50.0	49.7
Commerce	44.1	44.1	44.0	43.9	43.5	43.3	42.9	42.8	41.7	42.0	42.3
Transport & Communications	47.1	47.4	46.8	46.5	46.0	45.1	45.8	46.0	45.6	47.8	47.5
Financial & Business Services	43.6	43.8	43.5	43.3	43.3	43.3	43.7	43.6	44.2	44.6	44.7
Other Services	42.0	39.7	39.9	39.9	39.4	39.2	39.8	40.8	41.7	41.4	41.4

Note : The data for 1988 to 1990 refer to private sector firms with at least 25 workers, while those for 1980-1987 refer to private and public sector firms with at least 10 workers. They are thus not strictly comparable.

Source : Ministry of Labour

3.12 REGISTRATION AT EMPLOYMENT SERVICE, 1980-1990

Number

Year	Number on 'Live' Register ¹	New Registrants			Vacancies Notified			Vacancies Filled		
		Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
1980	6,305	13,815	8,260	5,555	25,723	15,772	9,951	5,576	3,381	2,195
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

¹ At end of period. Figures exclude those who already have jobs as confirmed by the Central Provident Fund Board's employment records.

Source : Ministry of Labour

3.13 CENTRAL PROVIDENT FUND CONTRIBUTORS BY AGE GROUP, 1980-1990 (End of Period)

Age Group (Years)	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Thousand											
Total	863.6	917.9	927.5	917.9	943.0	889.6	912.0	935.3	963.8	988.6	1,021.7
Under 20	97.8	92.5	81.1	72.1	69.1	47.6	44.4	43.5	40.2	41.4	42.8
20 - 24	209.1	219.1	212.7	203.3	202.2	181.0	177.3	168.7	159.3	148.5	143.0
25 - 29	173.5	189.0	197.0	197.0	203.0	198.1	203.8	206.1	208.8	207.8	206.9
30 - 34	123.9	133.1	139.1	142.4	149.5	149.8	159.8	168.9	178.3	184.2	190.4
35 - 39	63.5	71.3	83.4	91.8	104.9	113.2	119.6	126.6	135.3	142.9	151.6
40 - 44	59.4	63.7	64.1	63.9	63.5	59.4	65.2	77.6	89.3	103.0	117.9
45 - 49	44.7	47.0	48.2	50.5	54.0	54.3	56.5	57.5	59.8	60.5	60.6
50 - 54	34.8	36.3	37.3	37.6	38.4	38.8	39.2	40.3	44.0	48.2	51.7
55 - 59	20.2	21.5	22.9	23.1	24.2	23.4	22.9	23.5	25.0	27.1	30.1
60 & Over	22.8	23.2	22.0	21.4	21.6	20.5	19.7	20.1	21.5	23.8	26.2
Not specified	13.9	21.2	19.7	14.8	12.6	3.5	3.6	2.5	2.3	1.2	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
Under 20	11.3	10.0	8.8	7.9	7.4	5.3	4.8	4.7	4.2	4.2	4.2
20 - 24	24.2	23.9	22.9	22.1	21.4	20.4	19.4	18.0	16.5	15.0	14.0
25 - 29	20.1	20.6	21.2	21.5	21.5	22.3	22.4	22.0	21.7	21.0	20.3
30 - 34	14.4	14.5	15.0	15.5	15.9	16.8	17.5	18.1	18.5	18.6	18.6
35 - 39	7.4	7.8	9.0	10.0	11.1	12.7	13.1	13.5	14.0	14.5	14.8
40 - 44	6.9	6.9	6.9	7.0	6.7	6.7	7.2	8.3	9.3	10.4	11.5
45 - 49	5.2	5.1	5.2	5.5	5.7	6.1	6.2	6.2	6.2	6.1	5.9
50 - 54	4.0	4.0	4.0	4.1	4.1	4.4	4.3	4.3	4.6	4.9	5.1
55 - 59	2.3	2.4	2.5	2.5	2.6	2.6	2.5	2.5	2.6	2.8	2.9
60 & Over	2.6	2.5	2.4	2.3	2.3	2.3	2.2	2.1	2.2	2.4	2.6
Not specified	1.6	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

3.14 CENTRAL PROVIDENT FUND CONTRIBUTORS BY WAGE LEVEL, 1980-1990
(End of Period)

Monthly Wage Level (\$)	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Thousand											
Total	863.6	917.9	927.5	917.9	943.0	889.6	912.0	935.3	963.8	988.6	1,021.7
Below 200	63.7	49.5	68.7	34.3	35.5	24.6	23.8	23.0	19.4	20.1	19.4
200 - 299	135.9	115.4	81.7	77.4	73.1	57.4	55.1	51.4	42.9	36.0	32.3
300 - 399	165.8	134.2	108.2	85.0	64.8	56.6	60.6	55.4	40.4	38.3	33.5
400 - 499	100.2	129.7	119.1	110.7	91.6	81.3	82.0	76.4	60.2	41.9	36.8
500 - 599	85.8	88.6	91.8	102.5	105.6	101.1	101.7	100.4	87.6	70.5	54.1
600 - 799	107.7	127.4	129.4	140.0	153.5	150.7	157.2	156.7	172.0	170.7	149.6
800 - 999	64.2	79.0	89.2	97.3	102.0	101.2	105.3	111.0	126.7	135.3	139.9
1,000 - 1,499	68.8	95.2	113.5	129.1	147.3	144.9	148.8	158.1	186.9	206.1	229.7
1,500 - 1,999	30.4	40.4	47.0	55.6	66.3	65.2	67.5	74.4	89.9	105.1	125.2
2,000 - 2,499	10.9	17.7	24.1	29.6	35.7	36.2	36.8	41.2	47.9	54.6	68.1
2,500 - 2,999	6.5	9.1	13.1	17.0	19.6	20.7	21.5	24.4	26.8	33.5	40.0
3,000 & Over	12.4	18.3	27.3	32.2	43.4	45.9	47.9	59.8	61.5	73.9	91.1
Not specified	11.3	13.4	14.4	7.2	4.6	3.8	3.8	3.1	1.6	2.6	2.1
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	7.4	5.4	7.5	3.7	3.8	2.7	2.6	2.5	2.0	2.0	1.9
200 - 299	15.7	12.6	8.8	8.4	7.7	6.5	6.0	5.5	4.5	3.6	3.2
300 - 399	19.2	14.6	11.7	9.3	6.9	6.4	6.6	5.9	4.2	3.9	3.3
400 - 499	11.6	14.1	12.8	12.1	9.7	9.1	9.0	8.2	6.2	4.2	3.6
500 - 599	9.9	9.6	9.9	11.2	11.2	11.4	11.2	10.7	9.1	7.1	5.3
600 - 799	12.5	13.9	13.9	15.2	16.3	16.9	17.2	16.7	17.8	17.3	14.6
800 - 999	7.4	8.6	9.6	10.6	10.8	11.4	11.6	11.9	13.1	13.7	13.7
1,000 - 1,499	8.0	10.4	12.2	14.1	15.6	16.3	16.3	16.9	19.4	20.9	22.5
1,500 - 1,999	3.5	4.4	5.1	6.1	7.0	7.3	7.4	8.0	9.3	10.6	12.2
2,000 - 2,499	1.3	1.9	2.6	3.2	3.8	4.1	4.0	4.4	5.0	5.5	6.7
2,500 - 2,999	0.8	1.0	1.4	1.8	2.1	2.3	2.4	2.6	2.8	3.4	3.9
3,000 & Over	1.4	2.0	2.9	3.5	4.6	5.2	5.3	6.4	6.4	7.5	8.9
Not specified	1.3	1.5	1.6	0.8	0.5	0.4	0.4	0.3	0.2	0.3	0.2

Source : Central Provident Fund Board

3.15 CENTRAL PROVIDENT FUND CONTRIBUTORS BY INDUSTRY, 1980-1990 (End of Period)

Industry	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Thousand											
All Industries	863.6	917.9	927.5	917.9	943.0	889.6	912.0	935.3	963.8	988.6	1,021.7
Agriculture & Fishing	2.0	2.2	2.3	2.3	2.4	2.4	2.6	2.4	2.3	2.2	2.0
Quarrying	1.2	1.6	1.6	1.7	0.9	0.7	0.7	0.6	0.6	0.4	0.4
Manufacturing	284.2	292.2	274.6	261.0	283.0	251.4	271.1	287.5	297.6	301.5	298.4
Utilities	8.2	7.9	7.8	7.7	7.7	7.8	7.7	7.3	7.0	6.9	6.8
Construction	29.3	37.6	43.0	47.9	58.6	54.2	51.6	44.2	41.3	38.7	40.1
Commerce	187.9	203.5	212.7	210.6	208.3	194.1	195.4	204.1	215.0	223.4	241.8
Transport & Communications	95.2	98.6	98.0	95.1	93.3	90.3	90.0	91.9	98.0	103.1	107.4
Financial & Business Services	84.3	95.1	102.1	107.0	111.6	108.9	109.0	111.8	117.4	128.1	138.5
Other Services	165.8	170.3	175.3	174.3	176.7	179.8	183.9	185.5	184.5	184.2	186.4
Activities Not Adequately Defined	5.5	8.9	10.1	10.3	0.5	-	-	-	0.1	0.1	0.1
Per Cent											
All Industries	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Agriculture & Fishing	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2
Quarrying	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	-	-
Manufacturing	32.9	31.8	29.6	28.4	30.0	28.3	29.7	30.7	30.9	30.5	29.2
Utilities	1.0	0.9	0.8	0.8	0.8	0.9	0.8	0.8	0.7	0.7	0.7
Construction	3.4	4.1	4.6	5.2	6.2	6.1	5.6	4.7	4.3	3.9	3.9
Commerce	21.8	22.2	22.9	22.9	22.1	21.8	21.4	21.8	22.3	22.6	23.7
Transport & Communications	11.0	10.7	10.6	10.4	9.9	10.1	9.9	9.8	10.2	10.4	10.5
Financial & Business Services	9.8	10.4	11.0	11.7	11.8	12.2	12.0	12.0	12.2	13.0	13.6
Other Services	19.2	18.5	18.9	19.0	18.8	20.2	20.2	19.8	19.1	18.7	18.2
Activities Not Adequately Defined	0.6	1.0	1.1	1.1	-	-	-	-	-	-	-

Source : Central Provident Fund Board

3.16 CENTRAL PROVIDENT FUND MEMBERS BY AGE GROUP, 1980-1990 (End of Period)

Age Group (Years)	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Thousand											
Total	1,518.7	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
Under 20	177.0	179.0	166.1	152.2	142.3	118.9	98.3	95.4	95.8	104.5	112.6
20 - 24	333.5	357.2	367.5	368.6	369.9	355.0	337.6	316.4	290.2	266.5	252.5
25 - 29	305.0	334.9	353.2	362.8	374.7	383.3	389.3	393.3	395.3	393.0	385.9
30 - 34	227.3	252.1	271.4	290.6	310.4	327.0	345.7	359.2	370.0	380.1	391.0
35 - 39	121.3	138.3	163.2	184.4	212.3	242.2	261.2	278.4	297.2	315.1	332.2
40 - 44	112.2	123.8	128.0	131.8	132.3	130.2	144.5	169.1	190.6	217.9	248.2
45 - 49	82.4	88.7	92.9	101.2	111.1	118.4	128.0	132.0	135.8	136.1	133.7
50 - 54	64.0	68.3	71.4	74.2	78.0	84.0	88.8	92.2	99.8	109.3	116.2
55 & Over	77.3	82.0	86.6	88.3	94.7	105.5	112.6	122.0	157.2	173.6	192.1
Not specified	18.7	25.4	25.0	24.8	26.8	27.2	27.8	30.5	31.5	30.8	30.8
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
Under 20	11.6	10.8	9.7	8.6	7.7	6.2	5.1	4.8	4.7	4.9	5.1
20 - 24	22.0	21.7	21.3	20.7	20.0	18.8	17.5	15.9	14.1	12.5	11.5
25 - 29	20.1	20.3	20.5	20.4	20.2	20.3	20.1	19.8	19.2	18.5	17.6
30 - 34	15.0	15.3	15.7	16.3	16.8	17.3	17.9	18.1	17.9	17.9	17.8
35 - 39	8.0	8.4	9.5	10.4	11.5	12.8	13.5	14.0	14.4	14.8	15.1
40 - 44	7.4	7.5	7.4	7.4	7.1	6.9	7.5	8.5	9.2	10.2	11.3
45 - 49	5.4	5.4	5.4	5.7	6.0	6.3	6.6	6.7	6.6	6.4	6.1
50 - 54	4.2	4.1	4.1	4.2	4.2	4.4	4.6	4.6	4.8	5.1	5.3
55 & Over	5.1	5.0	5.0	5.9	5.1	5.6	5.8	6.1	7.6	8.2	8.8
Not specified	1.2	1.5	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.4

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

Source : Central Provident Fund Board

3.17 PARTICIPANTS IN COURSES AND SEMINARS CONDUCTED BY NATIONAL PRODUCTIVITY BOARD, 1987-1990

Number

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

Source : National Productivity Board

3.18 QUALITY CONTROL CIRCLES, 1983-1990 (End of Period)

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

Source : National Productivity Board

3.19 TRADE UNIONS AND MEMBERSHIP, 1980-1990

Number

End of Year	Employee Class		Employer Class	
	Unions	Members	Unions	Members
1980	83	243,841	49	6,816
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	83	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

Source : Ministry of Labour

3.20 INDUSTRIAL STOPPAGES AND TRADE DISPUTES, 1980-1990

Year	Industrial Stoppages			Trade Disputes ¹
	Number	Workers Involved	Man-days Lost	Number
1980	-	-	-	484
1981	-	-	-	392
1982	-	-	-	311
1983	-	-	-	353
1984	-	-	-	338
1985	-	-	-	340
1986	1	61	122	317
1987	-	-	-	275
1988	-	-	-	366
1989	-	-	-	353
1990	1	98	196	303

¹ Exclude "refusal to negotiate" and "union recognition" cases as they were not classified as trade disputes.

Source : Ministry of Labour

CHART 2

LABOUR FORCE, 1980-1990 (Aged 15 Years and Over)

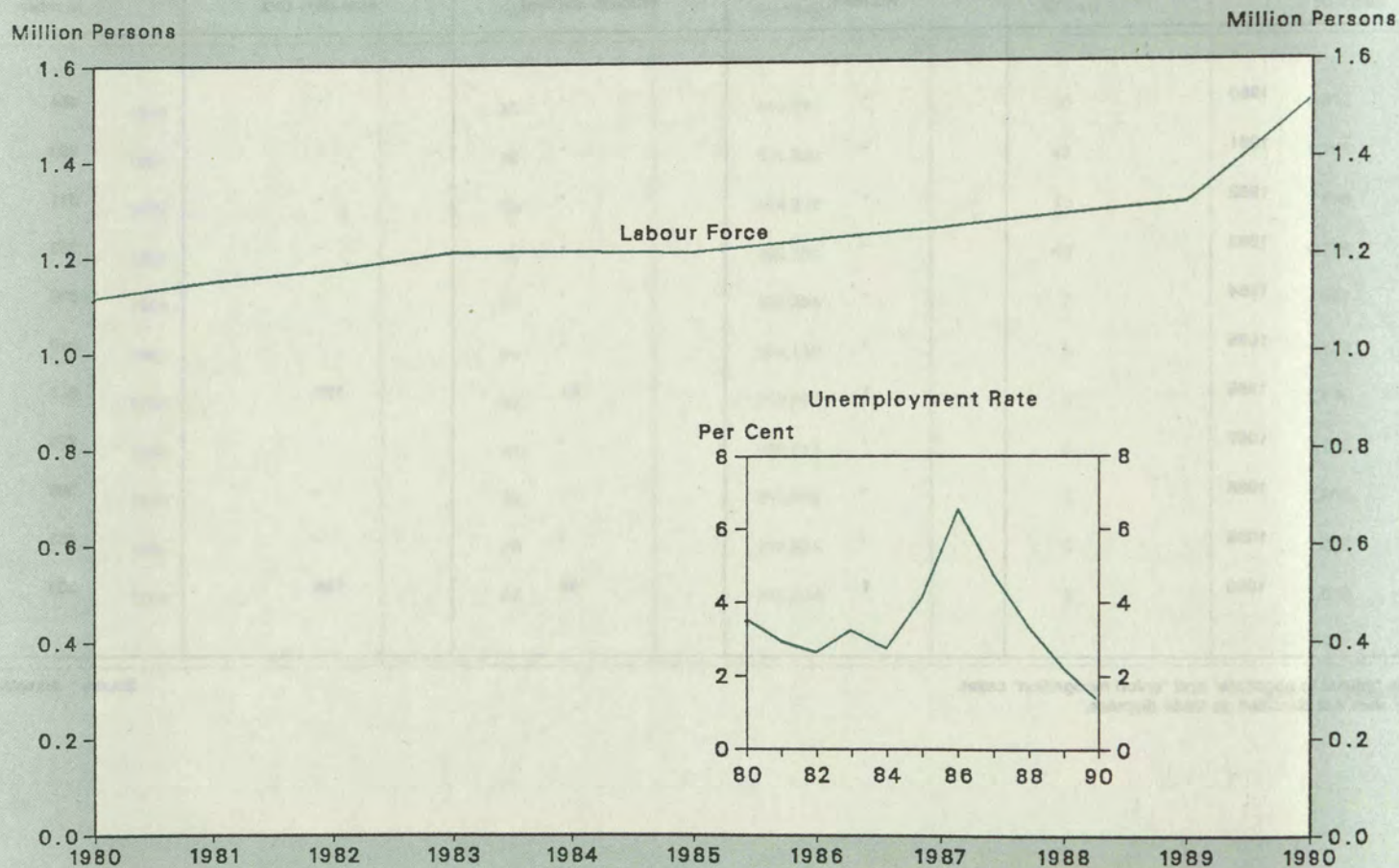


CHART 3

AGE-SEX SPECIFIC LABOUR FORCE PARTICIPATION RATES, 1980 AND 1990

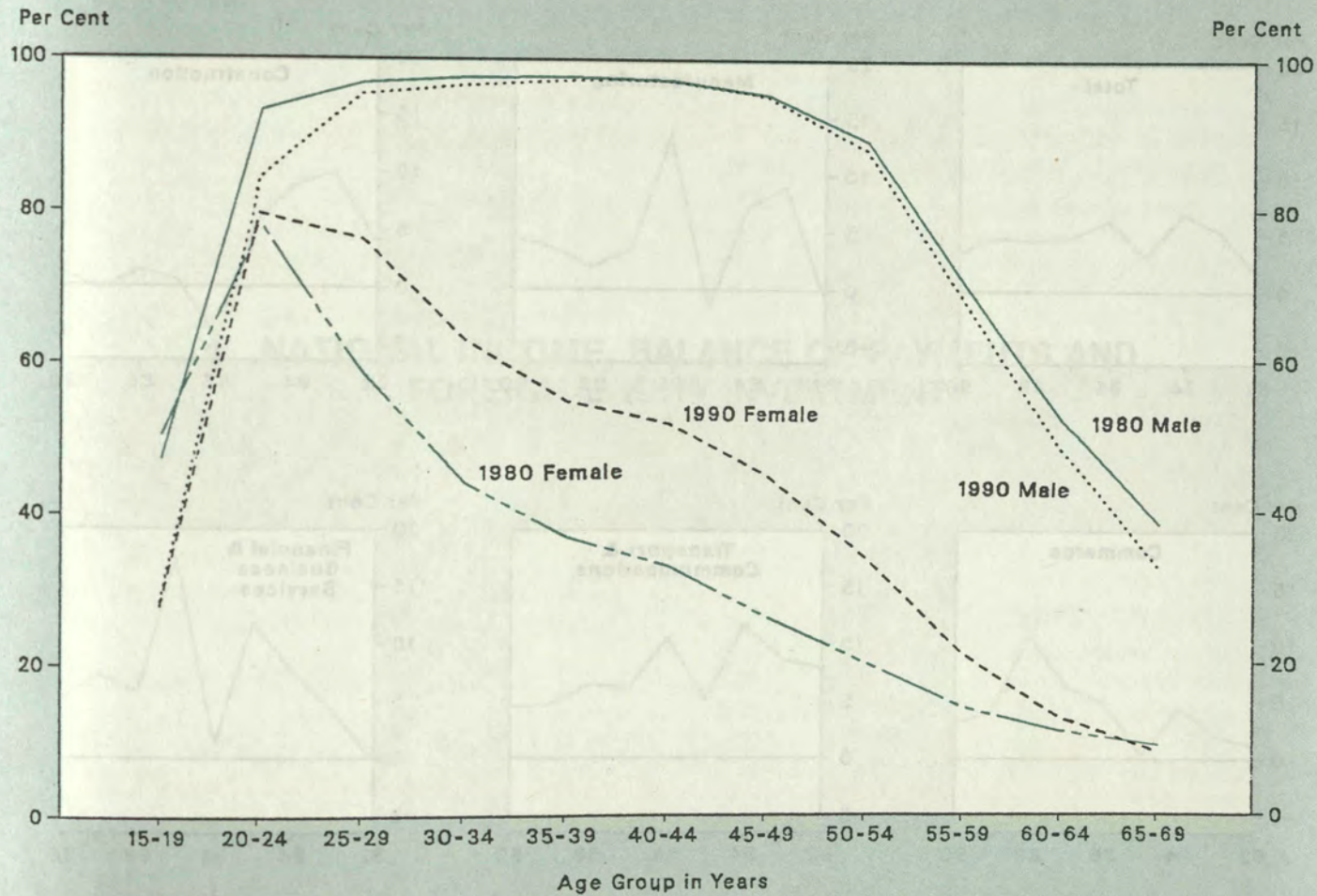
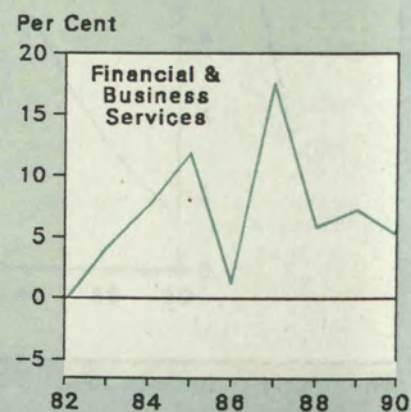
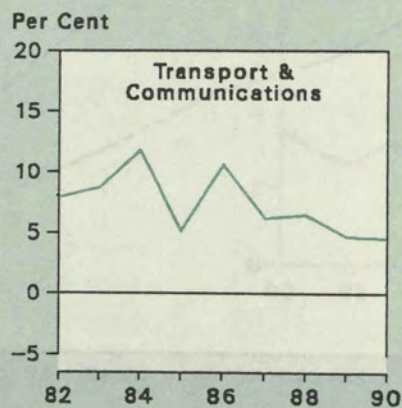
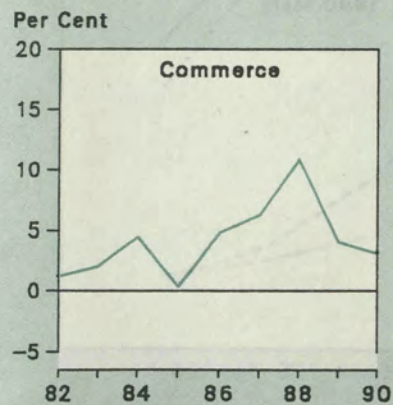
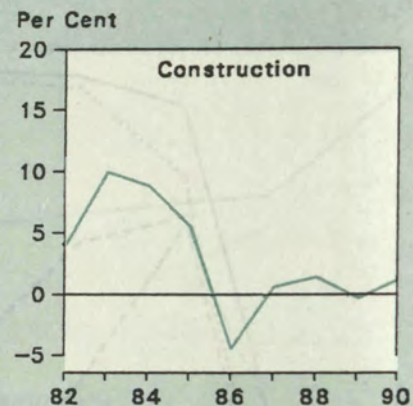
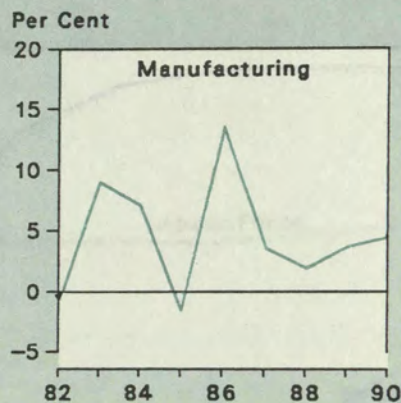
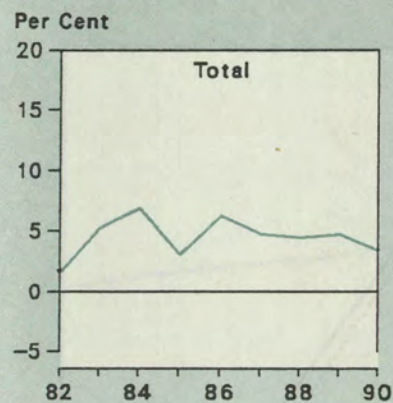


CHART 4

CHANGES IN PRODUCTIVITY BY INDUSTRY, 1982-1990



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, 1980-1990
(At Current Market Prices)

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
Total Gross Domestic Product	25,091	29,339	32,670	36,733	40,048	38,924	38,653	42,662	49,694	56,235	62,711
Share of Resident Foreigners & Resident Foreign Companies in GDP	7,537	8,161	8,457	8,771	9,575	9,828	10,355	13,639	16,502	19,234	22,516
Indigenous GDP	17,554	21,179	24,213	27,962	30,473	29,096	28,298	29,023	33,192	37,001	40,195
Factor Receipts of Singaporeans from Rest of the World	1,485	1,726	2,014	2,198	2,762	3,297	3,985	5,494	6,022	7,104	8,833
Indigenous GNP	19,039	22,904	26,227	30,160	33,235	32,393	32,283	34,517	39,214	44,105	49,028
Per Capita Indigenous GNP (S\$)	8,343	9,869	11,120	12,584	13,671	13,133	12,914	13,634	15,235	16,841	18,437

4.2 OUTPUT, SAVING AND INVESTMENT, 1980-1990
(At Current Market Prices)

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
Gross National Product											
Gross National Product at Market Prices	24,188.5	28,191.2	31,775.7	36,561.1	40,815.1	40,330.4	39,601.9	43,244.8	49,941.4	56,340.0	63,905.1
Gross Domestic Product at Factor Cost	23,271.9	27,166.7	30,190.4	33,718.8	36,551.7	35,619.4	36,058.5	39,793.5	46,333.7	51,831.3	57,610.3
Indirect Taxes	1,818.8	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	5,101.0
Net Factor Income from Abroad	-902.2	-1,148.2	-894.2	-171.7	767.2	1,406.9	949.0	582.3	247.2	104.9	1,193.8
Generation of Gross National Saving											
Gross National Saving	8,282.0	10,482.5	12,885.2	16,306.1	18,596.4	16,543.4	15,588.5	17,108.4	20,659.8	24,379.7	28,504.3
Gross Domestic Saving	9,411.8	11,953.5	14,218.2	16,932.0	18,304.3	15,605.5	15,037.9	17,018.3	21,010.0	24,945.7	27,964.6
Gross Domestic Product at Market Prices	25,090.7	29,339.4	32,669.9	36,732.8	40,047.9	38,923.5	38,652.9	42,662.5	49,694.2	56,235.1	62,711.3
Less : Private & Government Consumption Expenditure	15,358.7	17,117.9	18,852.9	20,197.4	21,902.5	23,101.4	23,462.0	25,576.4	28,776.6	31,450.8	34,544.7
Statistical Discrepancy	-320.2	-268.0	401.2	396.6	158.9	-216.6	-153.0	-67.8	92.4	161.4	-202.0
Net Factor Income from Abroad	-902.2	-1,148.2	-894.2	-171.7	767.2	1,406.9	949.0	582.3	247.2	104.9	1,193.8
Net Transfers from Abroad	-227.6	-322.8	-438.8	-454.2	-475.1	-469.0	-398.4	-492.2	-597.4	-670.9	-654.1
Finance of Gross Capital Formation											
Gross Capital Formation	11,627.6	13,587.0	15,658.8	17,595.8	19,417.3	16,551.2	14,894.8	16,636.6	18,135.0	19,411.6	24,245.5
Gross National Saving	8,282.0	10,482.5	12,885.2	16,306.1	18,596.4	16,543.4	15,588.5	17,108.4	20,659.8	24,379.7	28,504.3
Net Borrowing from/Lending (-) to Abroad	3,345.6	3,104.5	2,773.6	1,289.7	820.9	7.8	-693.7	-471.8	-2,524.8	-4,968.1	-4,258.8

4.3 GROSS DOMESTIC PRODUCT BY INDUSTRY, 1980-1990

Million Dollars

Industry	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
Total	At Current Market Prices										
	25,090.7	29,339.4	32,669.9	36,732.8	40,047.9	38,923.5	38,652.9	42,662.5	49,694.2	56,235.1	62,711.3
	Agriculture & Fishing	322.0	356.2	349.1	330.9	339.7	292.3	244.5	221.5	190.0	176.7
	Quarrying	82.2	104.7	128.1	140.6	132.2	111.3	75.6	57.3	62.2	79.5
	Manufacturing	7,312.7	8,361.5	8,153.5	8,907.9	9,863.4	9,184.3	10,185.5	12,090.6	14,863.0	18,272.1
	Utilities	555.0	477.5	600.9	702.7	773.0	796.0	1,056.9	943.1	1,135.4	1,246.6
	Construction	1,613.2	2,163.7	3,146.1	4,202.5	4,943.7	4,167.9	3,149.1	2,885.0	2,799.8	3,072.4
	Commerce	5,435.1	5,840.0	6,387.5	6,667.4	6,885.5	6,636.3	6,516.3	7,359.5	8,825.2	9,738.9
	Transport & Communications	3,522.2	4,063.0	4,435.8	4,891.9	5,222.3	5,234.5	5,279.6	5,920.8	6,811.1	7,662.5
	Financial & Business Services	4,944.0	6,653.2	7,756.6	8,872.0	9,962.7	10,652.0	9,842.2	11,976.0	13,781.1	16,905.1
	Other Services	2,288.4	2,670.3	3,340.7	3,812.7	4,238.7	4,577.3	4,509.9	4,691.3	5,202.7	5,798.2
	Less : Imputed Bank Service Charge	1,410.9	1,778.6	2,109.9	2,306.8	2,827.4	3,196.5	2,600.3	3,936.4	4,586.1	5,500.8
	Add : Import Duties	426.8	427.9	481.5	511.0	514.1	468.1	393.6	453.8	596.3	679.3
	At 1985 Market Prices										
	Total	28,832.5	31,603.1	33,772.3	36,537.2	39,572.5	38,923.5	39,641.4	43,387.4	48,221.6	52,669.6
Agriculture & Fishing	325.1	319.4	303.4	311.0	326.5	292.3	260.8	234.0	205.4	191.8	177.3
Quarrying	65.0	83.5	104.0	122.0	120.2	111.3	94.3	93.4	88.1	89.4	81.4
Manufacturing	8,500.1	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	16,565.6
Utilities	578.0	620.4	650.2	707.8	762.1	796.0	839.9	926.6	1,012.1	1,085.9	1,203.7
Construction	2,055.8	2,418.4	3,299.0	4,266.7	4,927.2	4,167.9	3,234.2	2,916.8	2,787.7	2,830.9	3,034.7
Commerce	5,452.8	5,755.0	6,091.9	6,374.2	6,738.9	6,636.3	6,603.7	7,335.4	8,551.8	9,257.4	9,977.3
Transport & Communications	3,448.5	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
Financial & Business Services	5,919.9	6,873.2	7,563.6	8,400.0	9,441.0	10,652.0	10,535.0	12,678.9	13,958.9	16,068.8	18,455.5
Other Services	3,332.1	3,516.5	3,840.0	4,142.7	4,372.3	4,577.3	4,802.5	5,060.3	5,230.8	5,472.0	5,793.1
Less : Imputed Bank Service Charge	1,340.8	1,653.8	1,925.4	2,191.7	2,666.6	3,196.5	2,736.8	4,066.8	4,684.0	5,458.9	6,878.2
Add : Import Duties	496.0	483.1	528.5	510.0	511.5	468.1	393.6	398.0	511.2	584.4	526.6

4.4 QUARTERLY GROSS DOMESTIC PRODUCT BY INDUSTRY, 1985-1990
(At 1985 Market Prices)

Million Dollars

Period	Total	Agriculture & Fishing	Quarrying	Manufacturing	Utilities	Construction	Commerce	Transport & Communications	Financial & Business Services	Other Services	Less Imputed Bank Service Charge	Add Import Duties
1985												
1st Qtr	9,754.5	80.6	28.6	2,207.8	193.8	1,181.3	1,678.2	1,269.3	2,541.9	1,182.2	746.9	137.7
2nd Qtr	9,742.2	72.5	28.6	2,364.3	204.0	1,030.8	1,636.3	1,308.6	2,622.3	1,110.9	740.4	104.3
3rd Qtr	9,726.3	69.5	29.5	2,332.3	200.0	1,022.9	1,629.5	1,316.2	2,718.3	1,129.4	835.7	114.4
4th Qtr	9,700.5	69.7	24.6	2,279.9	198.2	932.9	1,692.3	1,340.4	2,769.5	1,154.8	873.5	111.7
1986												
1st Qtr	9,379.0	67.4	21.9	2,074.2	191.4	867.1	1,585.3	1,357.2	2,534.8	1,218.4	664.1	125.4
2nd Qtr	9,815.9	64.8	22.4	2,526.4	210.2	895.3	1,600.6	1,395.0	2,554.0	1,152.3	683.7	78.6
3rd Qtr	10,094.0	63.8	24.6	2,657.7	218.1	762.3	1,658.8	1,454.9	2,658.6	1,198.6	693.6	90.2
4th Qtr	10,352.5	64.8	25.4	2,697.5	220.2	709.5	1,759.0	1,451.3	2,787.6	1,233.2	695.4	99.4
1987												
1st Qtr	10,014.0	60.1	23.8	2,423.4	211.8	722.1	1,627.6	1,457.2	3,054.1	1,280.2	939.6	93.3
2nd Qtr	10,685.8	59.5	23.7	2,917.6	228.5	757.2	1,795.6	1,500.2	3,097.3	1,208.0	985.4	83.6
3rd Qtr	11,131.5	56.9	23.6	3,079.3	239.6	748.3	1,902.8	1,582.7	3,198.9	1,247.5	1,052.0	103.9
4th Qtr	11,556.1	57.5	22.3	3,252.9	246.7	689.2	2,009.4	1,597.5	3,328.6	1,324.6	1,089.8	117.2
1988												
1st Qtr	11,219.2	51.3	21.4	2,937.6	237.5	689.7	1,939.4	1,628.5	3,362.4	1,346.2	1,115.6	120.8
2nd Qtr	11,911.0	51.2	21.9	3,542.1	251.7	703.4	2,071.9	1,659.8	3,399.2	1,264.2	1,162.0	107.6
3rd Qtr	12,435.3	48.9	23.6	3,642.9	262.5	706.6	2,204.2	1,733.2	3,526.0	1,302.1	1,144.5	129.8
4th Qtr	12,656.1	54.0	21.2	3,650.6	260.4	688.0	2,336.3	1,764.9	3,671.3	1,318.3	1,261.9	153.0
1989												
1st Qtr	12,281.1	50.6	21.0	3,261.7	253.0	693.5	2,098.2	1,785.2	3,870.6	1,378.4	1,303.0	171.9
2nd Qtr	13,071.1	44.6	21.4	3,894.1	270.9	670.3	2,269.4	1,828.1	3,899.7	1,346.6	1,298.6	124.6
3rd Qtr	13,534.6	46.9	23.2	3,980.1	279.4	731.3	2,422.4	1,886.3	4,065.0	1,362.4	1,390.5	128.1
4th Qtr	13,782.8	49.7	23.8	3,985.6	282.6	735.8	2,467.4	1,926.8	4,233.5	1,384.6	1,466.8	159.8
1990*												
1st Qtr	13,526.0	47.7	21.4	3,647.1	280.5	731.1	2,379.5	1,961.7	4,505.6	1,462.6	1,673.3	162.1
2nd Qtr	14,084.2	43.0	20.0	4,230.2	303.5	748.8	2,433.2	1,988.1	4,442.1	1,415.5	1,655.6	115.4
3rd Qtr	14,651.5	42.7	18.3	4,378.7	308.4	774.6	2,486.3	2,053.5	4,740.3	1,454.0	1,727.8	122.5
4th Qtr	14,754.5	43.9	21.7	4,309.6	311.3	780.2	2,678.3	2,075.9	4,767.5	1,461.0	1,821.5	126.6

4.5 GROSS DOMESTIC PRODUCT DEFLATORS BY INDUSTRY, 1980-1990
(1985 = 100)

Industry	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
Total	87.0	92.8	96.7	100.5	101.2	100.0	97.5	98.3	103.1	106.8	110.0
Agriculture & Fishing	99.0	111.5	115.1	106.4	104.0	100.0	93.8	94.7	99.1	99.1	99.7
Quarrying	126.5	125.4	123.2	115.2	110.0	100.0	80.2	61.3	70.6	77.2	97.7
Manufacturing	86.0	90.0	90.9	96.7	99.6	100.0	102.3	103.6	107.9	109.2	110.3
Utilities	96.0	77.0	92.4	99.3	101.4	100.0	125.8	101.8	112.2	102.6	103.6
Construction	78.5	89.5	95.4	98.5	100.3	100.0	97.4	98.9	100.4	108.5	116.0
Commerce	99.7	101.5	104.9	104.6	102.2	100.0	98.7	100.3	103.2	105.2	108.5
Transport & Communications	102.1	104.3	101.9	104.6	101.8	100.0	93.3	96.5	100.4	103.2	101.6
Financial & Business Services	83.5	96.8	102.6	105.6	105.5	100.0	93.4	94.5	98.7	105.2	111.5
Other Services	68.7	75.9	87.0	92.0	96.9	100.0	93.9	92.7	99.5	106.0	109.6

Note : Refer to gross domestic product at market prices.

4.6 EXPENDITURE ON GROSS DOMESTIC PRODUCT, 1980-1990

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
Total Private Consumption Expenditure Government Consumption Expenditure Gross Fixed Capital Formation Increase in Stocks Net Exports of Goods & Services Statistical Discrepancy	At Current Market Prices										
	25,090.7	29,339.4	32,669.9	36,732.8	40,047.9	38,923.5	38,652.9	42,662.5	49,694.2	56,235.1	62,711.3
	12,911.3	14,329.3	15,282.5	16,202.1	17,569.5	17,552.9	18,191.8	20,249.4	23,415.1	25,581.0	27,869.7
	2,447.4	2,788.6	3,570.4	3,995.3	4,333.0	5,548.5	5,270.2	5,327.0	5,361.5	5,869.8	6,675.0
	10,203.1	12,784.7	15,505.7	17,464.2	19,122.2	16,424.8	14,310.2	15,164.9	17,344.1	20,683.2	23,840.7
	1,424.5	802.3	153.1	131.6	295.1	126.4	584.6	1,471.7	790.9	-1,271.6	404.8
	-2,215.8	-1,633.5	-1,440.6	-663.8	-1,113.0	-945.7	143.1	381.7	2,875.0	5,534.1	3,719.1
	320.2	268.0	-401.2	-396.6	-158.9	216.6	153.0	67.8	-92.4	-161.4	202.0
	At 1985 Market Prices										
	28,832.5	31,603.1	33,772.3	36,537.2	39,572.5	38,923.5	39,641.4	43,387.4	48,221.6	52,669.6	57,016.2
	14,809.7	15,491.3	16,086.4	16,852.1	17,711.6	17,552.9	18,287.7	20,052.5	22,757.6	24,397.0	26,056.1
	3,241.5	3,411.6	3,863.8	4,235.9	4,457.2	5,548.5	5,606.8	5,666.5	5,363.7	5,588.3	6,228.8
	11,126.6	12,810.3	15,405.7	17,067.7	18,677.4	16,424.8	14,540.2	15,028.0	16,259.6	19,138.9	21,958.4
	1,516.1	730.7	144.0	242.2	273.0	126.4	637.4	1,478.0	419.4	-1,150.1	565.1
	-1,495.2	-1,088.6	-2,044.9	-1,669.6	-1,431.4	-945.7	349.3	1,137.2	3,820.5	5,193.2	2,007.7
	-366.2	247.8	317.3	-191.1	-115.3	216.6	220.0	25.2	-399.2	-497.7	200.1

4.7 DEFLATORS OF EXPENDITURE ON GROSS DOMESTIC PRODUCT, 1980-1990
(1985 = 100)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
Total	87.0	92.8	96.7	100.5	101.2	100.0	97.5	98.3	103.1	106.8	110.0
Private Consumption Expenditure	87.2	92.5	95.0	96.1	99.2	100.0	99.5	101.0	102.9	104.9	107.0
Government Consumption Expenditure	75.5	81.7	92.4	94.3	97.2	100.0	94.0	94.0	100.0	105.0	107.2
Gross Fixed Capital Formation	91.7	99.8	100.6	102.3	102.4	100.0	98.4	100.9	106.7	108.1	108.6
Exports of Goods & Services	109.4	113.2	112.9	107.5	101.5	100.0	86.4	92.9	93.1	95.2	95.2
Imports of Goods & Services	110.5	113.8	111.5	105.8	101.1	100.0	86.6	93.7	93.8	94.7	93.8

4.8 PRIVATE CONSUMPTION EXPENDITURE, 1980-1990

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
At Current Market Prices											
Total	12,911.3	14,329.3	15,282.5	16,202.1	17,569.5	17,552.9	18,191.8	20,249.4	23,415.1	25,581.0	27,869.7
Food & Beverages	3,997.5	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	6,315.0
Clothing & Footwear	1,240.7	1,408.4	1,555.2	1,681.8	1,665.1	1,569.4	1,656.6	1,870.4	2,092.3	2,226.4	2,514.9
Rent & Utilities	1,390.4	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	3,120.8
Furniture & Household Equipment	1,322.9	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
Medical Services	411.7	445.3	502.8	567.4	643.1	702.2	898.1	962.8	1,139.3	1,278.3	1,500.5
Transport & Communications	2,198.3	2,345.5	2,560.2	2,743.1	2,816.7	2,678.7	2,609.3	2,997.0	3,696.2	4,255.6	4,640.4
Recreation & Education	1,802.7	2,153.8	2,229.1	2,421.0	2,543.0	2,453.5	2,817.4	3,258.9	4,000.6	4,522.1	5,176.4
Other Goods & Services	3,133.1	3,638.4	3,684.4	3,829.6	3,910.1	3,562.4	3,700.1	4,532.7	5,311.5	6,499.7	7,499.9
Add : Residents' Expenditure Abroad	585.7	651.2	843.3	973.4	1,049.5	1,103.5	1,145.8	1,362.3	1,521.3	1,726.1	1,955.4
Less : Non-residents' Expenditure Locally	3,171.7	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	7,851.4
At 1985 Market Prices											
Total	14,809.7	15,491.3	16,086.4	16,852.1	17,711.6	17,552.9	18,287.7	20,052.5	22,757.6	24,397.0	26,056.1
Food & Beverages	4,638.0	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	6,018.2
Clothing & Footwear	1,281.2	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	2,371.4
Rent & Utilities	1,576.4	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	3,047.7
Furniture & Household Equipment	1,451.9	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	2,772.1
Medical Services	550.9	570.0	620.1	633.1	654.6	702.2	902.1	967.5	1,124.0	1,221.7	1,361.0
Transport & Communications	2,618.4	2,752.8	2,861.2	2,995.0	2,967.3	2,678.7	2,698.7	2,985.4	3,553.5	3,960.3	4,222.8
Recreation & Education	1,735.3	2,047.0	2,168.9	2,480.4	2,534.9	2,453.5	2,761.5	3,155.8	3,836.4	4,337.4	4,964.7
Other Goods & Services	3,378.1	3,523.8	3,633.1	3,779.3	3,884.1	3,562.4	3,699.4	4,465.1	5,158.6	6,074.2	6,593.8
Add : Residents' Expenditure Abroad	699.0	729.6	896.0	992.2	1,049.7	1,103.5	1,161.0	1,366.1	1,496.6	1,656.6	1,828.1
Less : Non-residents' Expenditure Locally	3,119.5	3,639.3	3,884.5	4,174.7	4,075.7	3,838.5	4,189.4	4,867.3	5,495.4	6,382.6	7,123.7

4.9 GROSS FIXED CAPITAL FORMATION, 1980-1990

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
At Current Market Prices											
Total	10,203.1	12,784.7	15,505.7	17,464.2	19,122.2	16,424.8	14,310.2	15,164.9	17,344.1	20,683.2	23,840.7
Construction & Works	4,309.5	6,107.1	8,280.1	10,876.6	11,954.6	10,007.4	7,908.9	6,986.3	6,666.3	7,419.0	8,327.0
Residential Buildings	1,438.4	2,060.7	3,395.5	5,516.8	6,591.2	5,265.4	3,569.9	3,021.0	3,199.7	3,258.6	3,506.7
Non-residential Buildings	2,069.7	3,149.4	3,912.4	4,336.7	4,200.5	3,284.8	2,133.7	1,772.6	2,054.4	2,815.9	3,616.3
Other Construction & Works	801.4	897.0	972.2	1,023.1	1,162.9	1,457.2	2,205.3	2,192.7	1,412.2	1,344.5	1,204.0
Transport Equipment	2,300.5	2,207.8	2,595.9	2,435.5	2,376.1	1,908.0	1,674.1	1,991.3	2,096.8	3,114.0	3,465.3
Machinery & Equipment	3,593.1	4,469.8	4,629.7	4,152.1	4,791.5	4,509.4	4,727.2	6,187.3	8,581.0	10,150.2	12,048.4
At 1985 Market Prices											
Total	11,126.6	12,810.3	15,405.7	17,067.7	18,677.4	16,424.8	14,540.2	15,028.0	16,259.6	19,138.9	21,958.4
Construction & Works	4,601.1	5,815.3	8,106.4	10,647.4	11,780.7	10,007.4	8,232.5	7,277.4	6,661.5	6,943.4	7,335.5
Residential Buildings	1,573.1	1,960.8	3,403.2	5,551.4	6,549.5	5,265.4	3,722.8	3,135.4	3,186.2	3,038.1	3,071.2
Non-residential Buildings	2,188.8	3,000.8	3,788.2	4,123.8	4,098.5	3,284.8	2,219.1	1,849.9	2,055.0	2,630.8	3,181.0
Other Construction & Works	839.2	853.7	915.0	972.2	1,132.7	1,457.2	2,290.6	2,292.1	1,420.3	1,274.5	1,083.3
Transport Equipment	2,785.9	2,574.8	2,857.0	2,344.0	2,207.0	1,908.0	1,708.5	1,925.1	1,919.5	2,941.2	3,265.1
Machinery & Equipment	3,739.6	4,420.2	4,442.3	4,076.3	4,689.7	4,509.4	4,599.2	5,825.5	7,678.6	9,254.3	11,357.8

4.10 BALANCE OF PAYMENTS, 1980-1990

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
A Current Account Balance	-3,345.6	-3,104.5	-2,773.6	-1,289.7	-820.9	-7.8	693.7	471.8	2,524.8	4,968.1	4,258.8
Goods & Services (Net)	-3,118.0	-2,781.7	-2,334.8	-835.5	-345.8	461.2	1,092.1	964.0	3,122.2	5,639.0	4,912.9
Merchandise Trade Balance	-8,994.5	-12,936.5	-14,470.1	-12,304.1	-8,684.2	-6,223.5	-4,497.3	-5,152.0	-4,719.3	-4,823.7	-9,277.7
Exports fob	38,969.6	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
Imports fob	47,964.1	54,475.8	56,060.7	55,472.1	57,025.1	53,599.8	50,955.0	62,990.5	81,177.4	89,152.0	101,143.1
Services Balance	5,876.5	10,154.8	12,135.3	11,468.6	8,338.4	6,684.7	5,589.4	6,116.0	7,841.5	10,462.7	14,190.6
Exports of Services	15,071.2	20,503.1	23,436.9	22,398.2	19,590.9	18,034.3	18,375.3	22,314.9	26,301.9	31,126.8	37,507.8
Shipment	1,179.7	1,387.8	1,471.5	1,472.2	1,512.8	1,501.1	1,521.9	1,877.7	2,459.3	2,718.6	2,976.7
Travel	3,068.4	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	7,609.3
Investment Income	2,041.1	2,307.5	2,658.7	2,747.7	3,418.4	3,990.9	4,831.9	6,840.7	7,218.1	8,381.8	10,293.7
Official Transaction	174.1	206.2	223.0	214.0	232.4	217.8	211.1	206.6	210.7	202.2	202.2
Other Transportation & Services nie	8,607.9	12,815.2	15,049.5	13,749.5	10,462.3	8,671.5	7,962.5	8,883.7	11,138.3	13,375.3	16,425.9
Imports of Services	9,194.7	10,348.3	11,301.6	10,929.6	11,252.5	11,349.6	12,785.9	16,198.9	18,460.4	20,664.1	23,317.2
Shipment	2,649.6	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
Travel	712.6	791.2	1,027.8	1,187.4	1,282.3	1,349.4	1,404.3	1,674.0	1,871.7	2,125.8	2,409.6
Investment Income	2,960.0	3,473.8	3,570.2	2,937.4	2,670.3	2,602.4	3,715.9	6,072.7	6,764.5	8,058.5	8,874.6
Official Transaction	47.3	54.9	66.4	75.3	81.0	91.8	89.7	94.4	129.8	106.2	149.4
Other Transportation & Services nie	2,825.2	3,125.0	3,362.7	3,650.7	4,017.0	3,988.4	4,132.8	4,373.9	4,503.4	4,704.3	5,099.6
Unrequited Transfers (Net)	-227.6	-322.8	-438.8	-454.2	-475.1	-469.0	-398.4	-492.2	-597.4	-670.9	-654.1
Private	-222.6	-305.5	-415.5	-436.9	-456.5	-451.2	-374.0	-357.8	-420.3	-495.7	-481.0
Official	-5.0	-17.3	-23.3	-17.3	-18.6	-17.8	-24.4	-134.4	-177.1	-175.2	-173.1
B Capital Account Balance	3,388.3	4,578.5	4,940.6	5,204.4	3,369.9	1,536.9	-967.7	989.6	1,654.8	3,710.5	11,458.2
Non monetary Sector (Net)	3,096.7	3,583.6	4,224.7	2,378.4	1,769.7	2,554.8	2,820.8	2,799.8	3,650.1	6,329.1	8,401.7
Private	3,129.4	3,616.4	4,256.6	2,558.0	1,794.7	2,594.3	2,997.0	2,842.8	3,690.7	6,411.9	8,466.0
Official	-32.7	-32.8	-31.9	-179.6	-25.0	-39.5	-176.2	-43.0	-40.6	-82.8	-64.3
Monetary Sector (Net)	291.6	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	3,056.5
Commercial Banks : Foreign Assets ¹	-778.4	-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	4,910.3
Foreign Liabilities	1,070.0	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	-1,853.8
C Allocation of Special Drawing Rights	14.5	17.6	-	-	-	-	-	-	-	-	-
D Balancing Item	1,376.6	446.8	350.5	-1,677.0	701.6	1,412.6	1,482.6	867.1	-836.0	-3,344.4	-5,824.5
E Overall Balance (A+B+C+D)	1,433.8	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
F Official Reserves (Net)¹	-1,433.8	-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
Special Drawing Rights	-38.8	-32.9	-51.9	-23.4	3.6	-17.6	-31.4	-29.1	-8.2	-14.4	-27.8
Reserve Position in the Fund	-33.8	-46.9	-10.1	-1.8	-1.3	-26.0	-24.8	-11.7	12.2	12.8	3.0
Foreign Exchange Assets	-1,361.2	-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

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

4.11 FOREIGN EQUITY INVESTMENT IN SINGAPORE BY INDUSTRY, 1978-1988
(End of Period)

Million Dollars

Industry	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
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
Agriculture & Fishing	10.8	14.4	14.4	62.0	56.9	81.5	83.5	75.6	29.7	45.7	44.8
Mining & Quarrying	8.0	9.5	11.4	18.7	9.4	-2.9	-23.5	-39.4	-48.6	-50.4	-55.2
Manufacturing	4,561.8	5,681.1	6,883.2	8,040.7	9,001.6	10,404.7	11,415.3	11,912.0	13,156.2	15,892.7	17,769.2
Construction	120.1	115.0	173.0	211.6	205.1	54.2	153.2	246.2	314.9	199.6	361.2
Trade	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
Transport & Storage	231.1	350.6	445.7	553.9	596.5	483.4	372.2	107.8	201.9	516.4	864.9
Financial/Business Services	2,065.2	2,371.3	3,249.9	5,034.5	6,983.2	7,214.5	8,882.4	9,511.2	11,249.2	13,890.1	17,486.1
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

4.12 FOREIGN EQUITY INVESTMENT IN SINGAPORE BY COUNTRY, 1978-1988
(End of Period)

Million Dollars

Country	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
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
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
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
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
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
West Germany	177.8	296.0	421.6	413.1	456.7	465.3	512.7	565.2	715.8	763.0	851.7
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
Others	76.9	91.2	130.0	162.3	191.5	242.1	335.6	327.3	381.8	356.9	453.1
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
Others	23.9	46.0	72.2	118.5	190.2	220.7	186.9	138.4	285.4	519.0	541.0
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
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
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
Taiwan	35.5	35.3	61.6	55.9	58.8	77.6	82.6	82.0	83.9	120.6	161.3
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
Others	80.3	82.4	128.8	175.7	233.8	137.1	135.6	206.4	216.8	267.2	255.2
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
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

CHART 5

GROSS NATIONAL PRODUCT (GNP) AND PER CAPITA GNP, 1980-1990

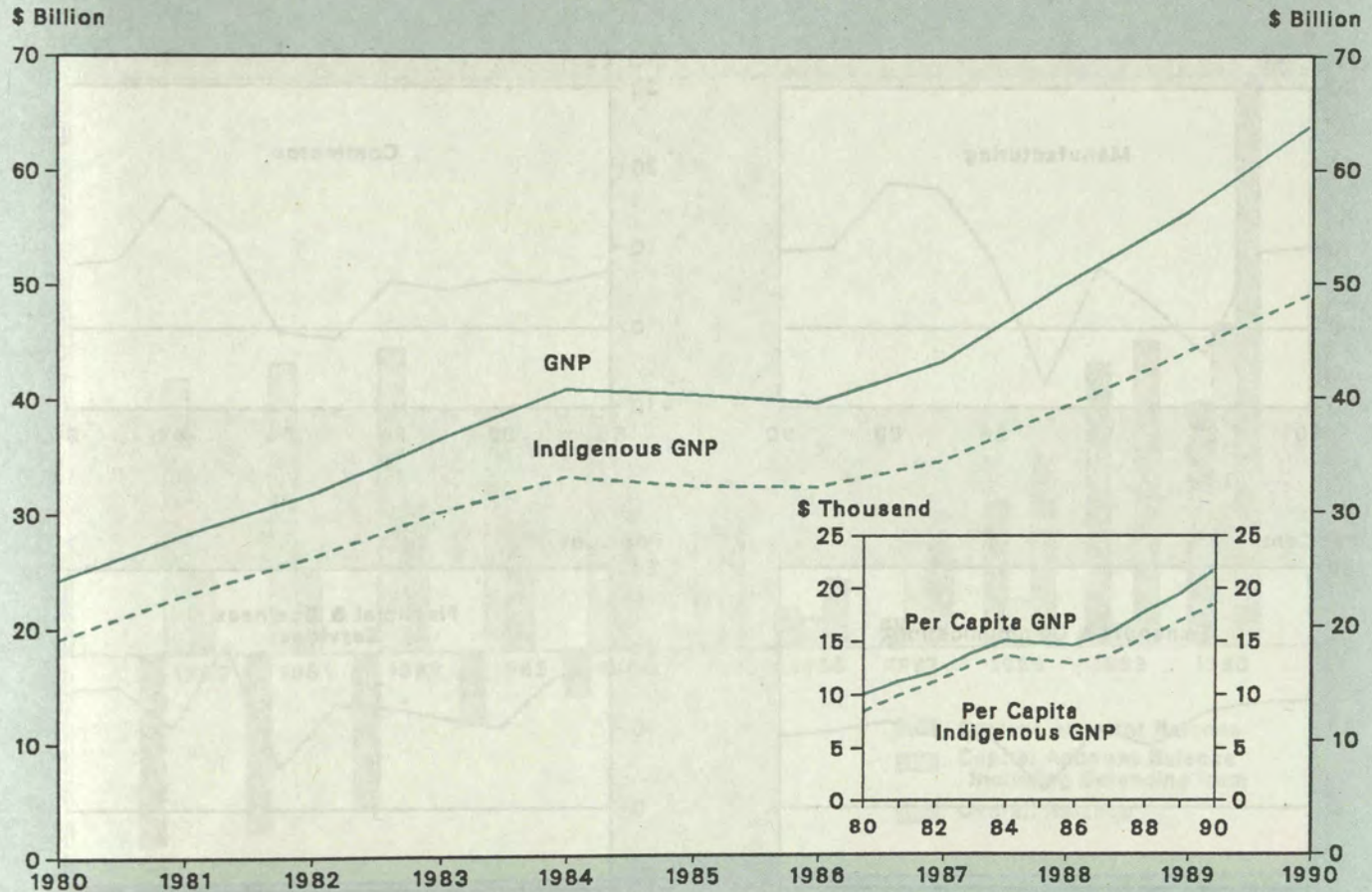


CHART 6

REAL ANNUAL GROWTH RATES OF MAJOR INDUSTRY, 1980-1990 (At 1985 Market Prices)

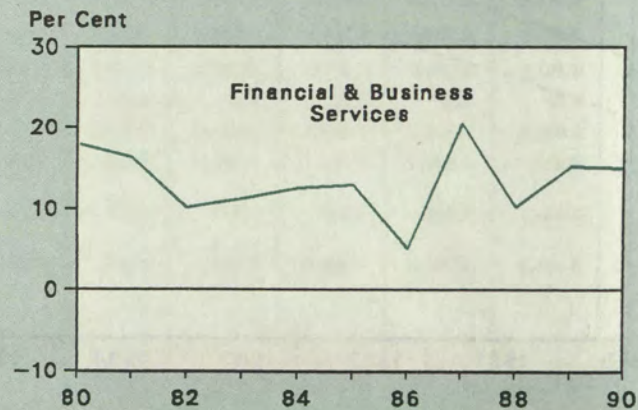
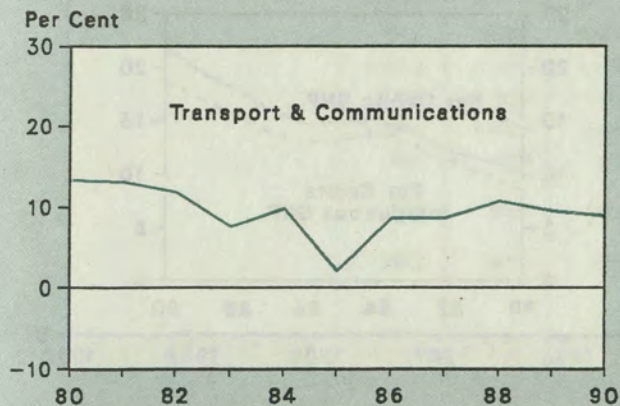
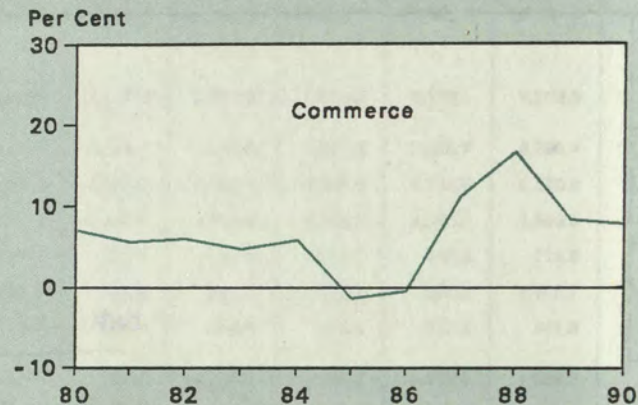
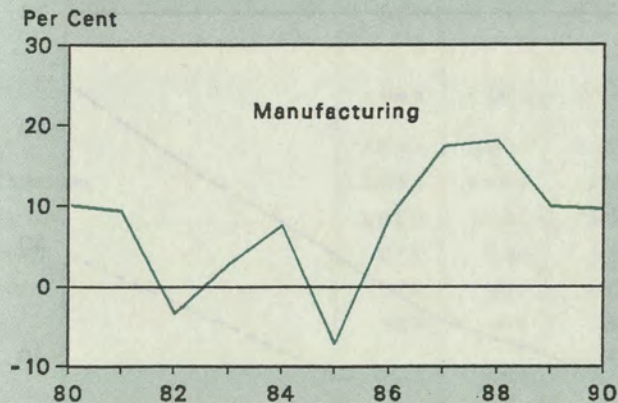
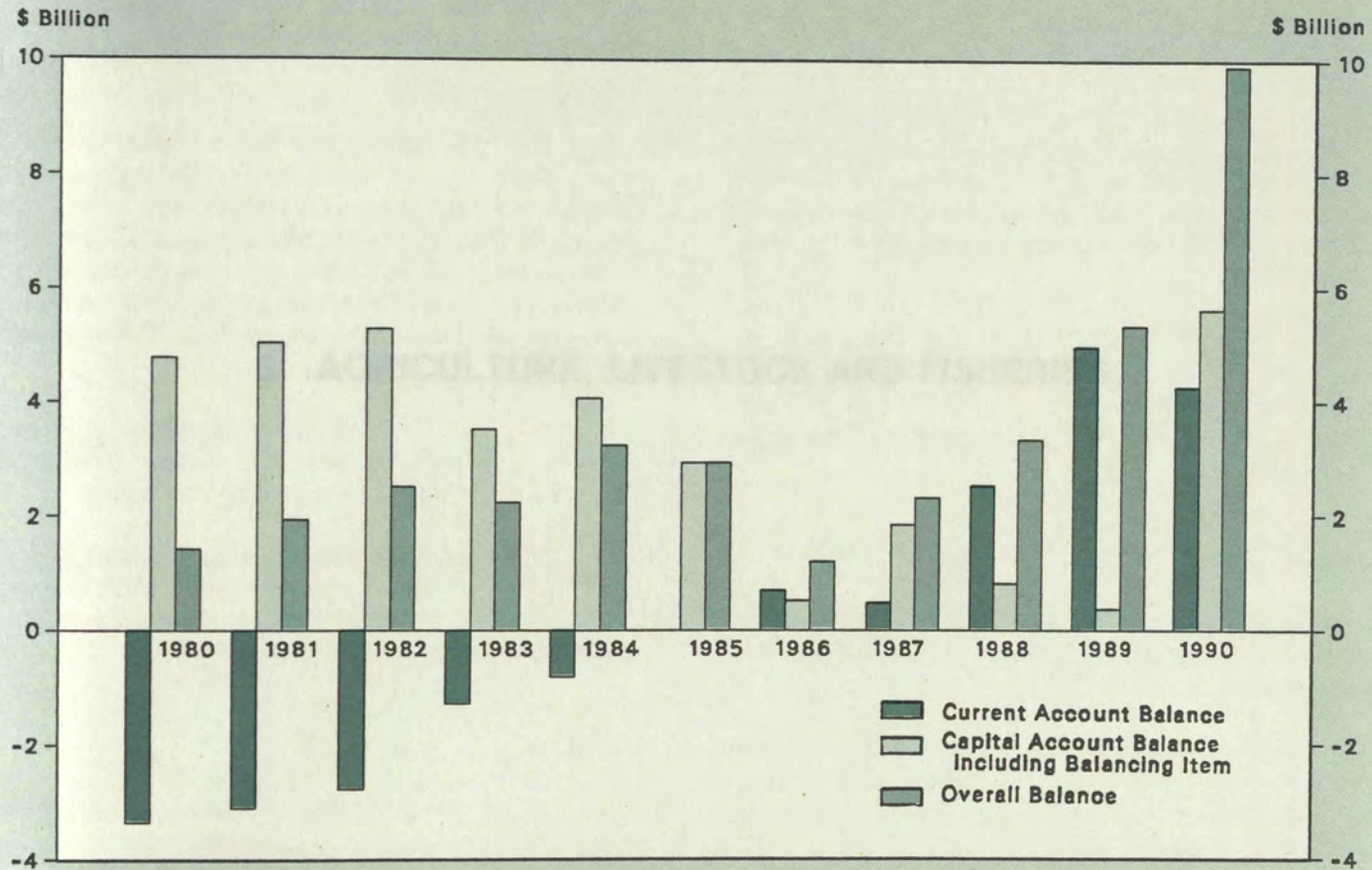


CHART 7

BALANCE OF PAYMENTS, 1980-1990



5 AGRICULTURE, LIVESTOCK AND FISHERIES

Local fish production comprises mainly catches from the sea with relatively small quantities from inland and offshore fish farms.

Fisheries

The Veterinary, Pesticide, Pesticide and Pesticide Department, and the Pesticide and Pesticide Department, are responsible for the regulation and control of the fish and fish products industry. The Pesticide and Pesticide Department, and the Pesticide and Pesticide Department, are responsible for the regulation and control of the fish and fish products industry.

Pig farming has been phased out because of environmental pollution. Domestic demand for pork is to be met entirely by imports of pigs and frozen pork.

Local farms and hatcheries export day-old chicks to countries in the Asia-Pacific region. The egg industry is an important farming activity in Singapore. Poultry farming is an important farming activity in Singapore. The egg industry is an important farming activity in Singapore. The egg industry is an important farming activity in Singapore. The egg industry is an important farming activity in Singapore.

The fish and fish products industry is an important farming activity in Singapore. The fish and fish products industry is an important farming activity in Singapore. The fish and fish products industry is an important farming activity in Singapore. The fish and fish products industry is an important farming activity in Singapore. The fish and fish products industry is an important farming activity in Singapore.

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.

The main crops cultivated are vegetables and orchids. Vegetable cultivation is highly intensive, producing mainly leafy vegetables like cabbages, eggplant, winged bean and okra.

Horticulture

Land for farming has declined over the years. To achieve a significant measure of self-sufficiency in food supply, the government has initiated the development of agro-technology parks to house large scale intensive farms using such technology.

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 export. About 2 per cent of Singapore's land area is used for agricultural purposes.

General

Singapore is a highly developed country with a high standard of living. The country is a highly developed country with a high standard of living. The country is a highly developed country with a high standard of living. The country is a highly developed country with a high standard of living. The country is a highly developed country with a high standard of living.

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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 12 per cent of poultry meat and 37 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.

Pig farming had been phased out because of environmental pollution. Domestic demand for pork is to be met entirely by imports of pigs and frozen pork.

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

5.1 PRODUCTION OF PRINCIPAL CROPS, 1980-1990

Year	Vegetables	Fruits	Sugar Cane	Tobacco	Coconuts
	Tonnes				Million Nuts
1980	36,839	9,055	1,870	402	6
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	-

Source : Primary Production Department

5.2 LIVESTOCK SLAUGHTERED, 1980-1990

Number

Year	Pigs	Sheep	Goats	Oxen	Buffaloes
1980	968,095	73,156	475	1,238	185
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	-

Source : Primary Production Department

5.3 FISH SUPPLY AND AUCTIONED, 1980-1990

Tonnes

Year	Fish Supply			Fish Auctioned
	Local Production	Imports	Exports	
1980	15,532	80,440	48,704	74,244
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	10,567	144,716	103,053	111,041
1990	11,400	161,718	116,213	106,829

Note : Exclude dried, salted and fish in brine.

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

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.

Note: Table on Quantity of Output of Selected Manufactured Products is no longer available from this issue.

6.1 PRINCIPAL MANUFACTURING STATISTICS, 1980 -1990

Year	Establishments	Workers	Input	Output	Census Value Added	Employees' Remuneration	Capital Expenditure	Direct Exports
	Number		Million Dollars					
1980	3,391	288,165	23,433.7	32,805.8	8,652.8	2,556.2	1,878.4	19,874.9
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*	3,739	352,945	46,901.3	70,992.5	21,348.8	6,772.2	na	47,520.3

Note : 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 RATIOS OF PRINCIPAL MANUFACTURING STATISTICS, 1980 -1990

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				
1980	30,027	113,844	26.4	29.5	7.8	61.9	60.6
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*	60,488	201,143	30.1	31.7	9.5	67.3	66.9

Note : See note to Table 6.1.

Source : Economic Development Board
with effect from April 1987

6.3 MANUFACTURING ESTABLISHMENTS BY INDUSTRY, 1980 -1990

Number												
Industrial Code	Industry	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
311/2	Food	276	274	282	288	300	284	287	283	272	263	266
313	Beverage	17	16	16	16	14	14	15	15	14	14	15
314	Tobacco Products	8	6	6	6	4	4	4	4	4	4	4
321	Textiles & Textile Manufactures	93	91	92	86	79	64	65	63	67	67	70
322	Wearing Apparel except Footwear	377	373	406	391	387	370	370	373	370	372	371
323	Leather & Leather Products	43	41	43	37	38	28	26	24	21	19	20
324	Footwear	55	57	53	51	58	50	50	51	39	35	34
331	Sawn Timber & Other Wood Products except Furniture	130	131	119	111	103	108	100	94	89	91	89
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	117	118	125	125	142	145	156	148	154	153	153
341	Paper & Paper Products	94	96	94	90	88	83	80	81	88	89	90
342	Printing & Publishing	284	291	312	313	317	297	311	315	308	324	326
351	Industrial Chemicals & Gases	45	45	49	52	57	57	59	62	65	73	73
352	Paints, Pharmaceuticals & Other Chemical Products	91	88	85	86	90	89	88	86	88	88	91
353/4	Petroleum Refineries & Petroleum Products	10	11	11	11	12	12	11	11	11	11	11
355	Processing of Jelutong & Gum Damar	5	5	6	7	7	7	7	7	5	5	4
356	Rubber Products except Footwear & Toys	28	30	28	29	31	24	22	26	25	24	25
357	Plastic Products	207	217	228	229	237	229	217	239	279	278	281
361/2	Pottery, China, Earthenware & Glass Products	12	12	10	10	13	12	10	8	8	9	9
363	Structural Clay Products	9	9	11	11	11	10	9	8	8	8	8
364	Cement	5	5	5	5	5	6	6	6	5	5	5

6.3 MANUFACTURING ESTABLISHMENTS BY INDUSTRY, 1980 -1990 (continued)

												Number
Industrial Code	Industry	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
365	Structural Cement & Concrete Products	34	38	40	49	52	52	51	45	36	32	31
369	Non-metallic Mineral Products	29	25	22	25	27	29	29	25	24	23	24
371	Iron & Steel	18	18	17	16	16	16	14	12	10	11	12
372	Non-ferrous Metals	12	11	14	16	17	16	15	18	19	19	19
381	Fabricated Metal Products except Machinery & Equipment	355	382	419	432	444	444	425	434	454	463	472
382	Machinery except Electrical & Electronic	274	304	314	344	348	355	355	372	378	385	400
383	Electrical Machinery, Apparatus, Appliances & Supplies	125	123	122	123	123	125	112	115	133	129	131
384	Electronic Products & Components	151	158	153	166	172	167	161	202	225	233	245
385	Transport Equipment	258	263	293	286	250	217	197	183	218	225	230
386	Instrumentation Equipment, Photographic & Optical Goods	55	54	49	46	46	41	40	45	47	49	51
390	Other Manufacturing Industries	138	147	162	159	160	149	157	159	160	159	163
	Total Manufacturing excluding Rubber Processing	3,355	3,439	3,586	3,616	3,648	3,504	3,449	3,514	3,624	3,660	3,723
	Rubber Processing	14	12	11	10	8	7	7	5	5	5	5
	Total Manufacturing including Rubber Processing	3,369	3,451	3,597	3,626	3,656	3,511	3,456	3,519	3,629	3,665	3,728
	Granite Quarrying	22	20	20	17	19	18	16	16	14	13	11
	TOTAL	3,391	3,471	3,617	3,643	3,675	3,529	3,472	3,535	3,643	3,678	3,739

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

Data have been classified according to Singapore Standard Industrial Classification of All Economic Activities, 1989 edition.

Source : Economic Development Board
with effect from April 1987

6.4 MANUFACTURING OUTPUT BY INDUSTRY, 1980 -1990

Million Dollars

Industrial Code	Industry	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
311/2	Food	1,645.5	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	2,199.6
313	Beverage	260.3	326.0	317.1	318.1	309.5	319.5	365.3	408.8	464.7	537.7	574.4
314	Tobacco Products	171.3	193.6	219.3	206.6	184.5	188.4	176.1	172.8	188.4	220.3	298.6
321	Textiles & Textile Manufactures	461.2	413.9	316.4	269.3	248.2	197.8	239.2	317.1	360.6	395.5	352.6
322	Wearing Apparel except Footwear	867.9	922.9	929.0	938.9	1,084.9	1,035.4	1,241.3	1,562.3	1,694.3	1,790.4	1,719.6
323	Leather & Leather Products	48.7	51.5	47.3	41.2	40.1	35.9	34.3	38.0	58.2	62.3	64.3
324	Footwear	53.6	54.9	45.3	44.2	48.1	35.5	37.9	42.5	45.1	49.4	54.2
331	Sawn Timber & Other Wood Products except Furniture	749.1	640.5	532.1	473.5	398.5	338.0	293.4	321.0	390.6	396.7	379.1
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	227.4	281.9	264.6	278.4	350.9	359.9	353.2	374.2	464.7	488.1	474.6
341	Paper & Paper Products	290.0	321.1	345.6	357.1	396.8	408.3	439.2	591.2	701.2	760.1	790.0
342	Printing & Publishing	539.9	659.6	708.4	812.4	913.8	895.7	952.2	1,119.1	1,334.0	1,551.6	1,726.8
351	Industrial Chemicals & Gases	355.5	372.1	424.1	522.8	1,239.9	1,690.7	1,724.2	2,387.2	3,259.3	3,067.9	3,239.6
352	Paints, Pharmaceuticals & Other Chemical Products	589.5	670.2	675.4	764.8	940.2	891.1	1,094.0	1,275.6	1,429.2	1,592.9	1,817.4
353/4	Petroleum Refineries & Petroleum Products	11,520.5	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	11,416.5
355	Processing of Jelutong & Gum Damar	25.9	28.2	25.9	25.2	21.2	20.6	19.2	18.9	19.1	25.6	21.9
356	Rubber Products except Footwear & Toys	92.1	76.3	74.4	76.7	83.5	70.1	71.8	95.6	120.0	136.9	117.8
357	Plastic Products	517.3	541.9	530.6	580.0	670.4	612.4	611.3	843.5	1,234.3	1,349.6	1,295.6
361/2	Pottery, China, Earthenware & Glass Products	64.1	81.9	72.8	94.3	80.7	29.5	15.6	10.7	13.6	108.2	113.6
363	Structural Clay Products	30.7	34.9	43.3	58.9	67.4	46.8	29.5	33.9	30.5	31.1	30.2
364	Cement	277.1	347.2	405.7	441.4	281.3	164.7	152.6	121.5	128.6	175.0	213.0

6.4 MANUFACTURING OUTPUT BY INDUSTRY, 1980 -1990 (continued)

Million Dollars

Industrial Code	Industry	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
365	Structural Cement & Concrete Products	156.5	263.9	379.1	600.9	657.2	585.8	487.4	372.6	341.1	376.1	477.8
369	Non-metallic Mineral Products	119.3	146.6	131.4	137.2	113.8	98.2	98.4	110.7	136.2	138.7	144.5
371	Iron & Steel	339.4	345.7	359.5	335.7	336.2	340.2	376.3	382.6	427.6	525.9	651.3
372	Non-ferrous Metals	188.6	126.2	148.2	142.3	197.3	224.8	245.6	167.2	205.4	184.9	205.0
381	Fabricated Metal Products except Machinery & Equipment	1,293.2	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	3,619.8
382	Machinery except Electrical & Electronic	1,561.6	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	3,158.0
383	Electrical Machinery, Apparatus, Appliances & Supplies	979.1	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	2,367.9
384	Electronic Products & Components	5,307.5	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	27,631.8
385	Transport Equipment ¹	2,062.8	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	3,717.3
386	Instrumentation Equipment, Photographic & Optical Goods	381.2	295.7	288.1	269.4	300.1	329.0	375.3	456.7	576.5	671.8	786.9
390	Other Manufacturing Industries	481.2	534.1	461.4	484.1	556.1	494.3	571.8	809.1	989.5	1,017.5	1,040.7
	Total Manufacturing excluding Rubber Processing	31,657.9	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	70,700.4
	Rubber Processing	1,052.5	772.6	494.2	428.7	402.4	160.0	126.8	155.8	243.7	205.0	205.0
	Total Manufacturing including Rubber Processing	32,710.4	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	70,905.3
	Granite Quarrying	95.3	134.3	179.5	238.1	223.8	162.7	117.4	97.9	90.8	92.9	87.2
	TOTAL	32,805.8	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	70,992.5

Note : See note to Table 6.3.

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.

Source : Economic Development Board with effect from April 1987

6.5 CENSUS VALUE ADDED OF MANUFACTURING ESTABLISHMENTS BY INDUSTRY, 1980 -1990

Million Dollars

Industrial Code	Industry	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
311/2	Food	258.4	353.9	323.7	351.5	377.9	395.3	405.7	451.6	527.1	567.5	554.7
313	Beverage	111.2	139.9	140.8	147.9	152.1	166.9	190.4	205.7	243.0	247.4	272.9
314	Tobacco Products	52.6	68.2	91.0	89.4	79.4	77.7	78.4	87.0	88.7	97.6	141.4
321	Textiles & Textile Manufactures	150.0	132.7	103.6	92.2	81.0	64.3	77.7	101.2	113.6	122.4	111.6
322	Wearing Apparel except Footwear	272.3	307.9	326.0	333.0	364.5	345.7	361.9	464.8	534.6	544.5	516.8
323	Leather & Leather Products	14.0	13.9	14.0	12.7	13.6	11.4	10.6	12.0	17.2	22.7	23.4
324	Footwear	19.2	19.0	17.0	18.1	19.4	12.6	12.0	13.1	12.3	14.4	16.0
331	Sawn Timber & Other Wood Products except Furniture	180.4	175.3	136.4	140.9	115.8	94.5	82.3	81.9	101.9	112.9	104.6
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	84.7	103.3	103.4	108.6	129.9	132.9	131.0	133.1	154.4	164.2	161.6
341	Paper & Paper Products	97.2	106.4	126.0	149.2	166.9	180.1	191.1	239.6	269.3	293.2	310.8
342	Printing & Publishing	274.8	337.4	374.1	452.1	522.9	511.4	531.4	603.8	697.9	788.6	883.1
351	Industrial Chemicals & Gases	110.5	120.3	159.5	191.6	310.3	358.4	574.1	915.0	1,376.5	1,184.2	1,117.8
352	Paints, Pharmaceuticals & Other Chemical Products	305.6	343.3	344.8	451.5	592.4	536.1	700.3	815.1	877.6	952.1	1,109.5
353/4	Petroleum Refineries & Petroleum Products	1,470.4	1,707.2	1,617.7	1,382.6	955.6	873.7	779.9	728.2	993.5	1,248.4	1,587.4
355	Processing of Jelutong & Gum Damar	2.9	3.7	3.1	3.8	3.8	3.6	3.7	3.6	3.5	3.5	2.7
356	Rubber Products except Footwear & Toys	39.7	34.2	35.6	36.1	40.3	34.8	37.0	45.2	54.2	63.4	39.1
357	Plastic Products	180.1	192.8	189.4	209.9	243.6	231.0	232.4	297.3	409.2	476.5	465.9
361/2	Pottery, China, Earthenware & Glass Products	24.3	33.8	24.8	33.9	35.0	10.9	6.1	5.8	6.4	22.3	23.5
363	Structural Clay Products	18.8	20.9	21.3	29.5	36.6	25.0	19.0	21.4	18.2	17.7	17.4
364	Cement	48.8	78.5	88.5	105.4	46.1	34.1	34.5	27.8	30.8	51.0	64.5

6.5 CENSUS VALUE ADDED OF MANUFACTURING ESTABLISHMENTS BY INDUSTRY, 1980 -1990 (continued)

Million Dollars

Industrial Code	Industry	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
365	Structural Cement & Concrete Products	53.7	78.1	118.2	192.1	235.0	213.6	150.7	110.4	93.8	105.9	139.8
369	Non-metallic Mineral Products	53.4	65.1	60.2	56.4	45.8	35.4	39.9	51.3	62.7	56.3	59.2
371	Iron & Steel	132.6	139.8	137.6	124.7	123.7	108.1	119.2	139.9	167.5	188.5	250.8
372	Non-ferrous Metals	20.2	22.1	20.9	26.3	35.1	30.3	29.9	41.4	53.9	57.2	65.4
381	Fabricated Metal Products except Machinery & Equipment	440.1	551.6	666.3	706.4	761.9	681.2	720.4	859.5	1,081.6	1,229.0	1,234.5
382	Machinery except Electrical & Electronic	682.8	1,087.8	976.3	819.8	821.3	788.7	739.1	731.6	962.2	1,142.8	1,165.9
383	Electrical Machinery, Apparatus, Appliances & Supplies	363.5	404.4	404.0	464.5	573.4	519.8	545.1	663.7	784.1	893.8	846.4
384	Electronic Products & Components	1,669.9	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	7,693.2
385	Transport Equipment ¹	1,071.1	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	1,617.7
386	Instrumentation Equipment, Photographic & Optical Goods	172.1	112.6	120.6	120.3	163.7	196.0	227.1	261.4	316.0	340.2	402.2
390	Other Manufacturing Industries	146.8	150.8	138.2	148.0	153.3	155.5	180.4	240.0	264.3	265.3	280.8
	Total Manufacturing excluding Rubber Processing	8,521.9	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	21,280.8
	Rubber Processing	51.5	37.0	27.5	33.5	16.2	7.3	8.0	9.9	14.1	14.4	14.4
	Total Manufacturing including Rubber Processing	8,573.4	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	21,295.2
	Granite Quarrying	79.4	109.4	122.3	156.9	146.4	103.2	70.3	58.8	53.9	56.1	53.6
	TOTAL	8,652.8	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	21,348.8

Note : See note to Table 6.3 and Table 6.4.

Source : Economic Development Board with effect from April 1987

6.6 WORKERS IN MANUFACTURING BY INDUSTRY, 1980 -1990

Number

Industrial Code	Industry	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
311/2	Food	9,983	10,065	10,181	10,290	10,264	9,718	9,606	10,163	10,408	10,391	10,592
313	Beverage	2,697	2,732	2,594	2,494	2,398	2,273	2,264	2,258	2,304	2,406	2,383
314	Tobacco Products	1,277	976	882	865	809	753	752	709	564	583	679
321	Textiles & Textile Manufactures	8,962	7,797	6,238	4,542	3,903	2,814	2,662	2,918	3,324	3,355	3,555
322	Wearing Apparel except Footwear	27,863	27,829	28,608	27,234	25,710	24,782	24,812	27,718	29,402	29,105	28,086
323	Leather & Leather Products	1,294	1,227	1,152	971	950	646	577	598	686	717	751
324	Footwear	1,524	1,428	1,408	1,248	1,249	889	922	946	832	725	755
331	Sawn Timber & Other Wood Products except Furniture	10,353	8,268	7,188	6,081	4,930	4,100	3,274	3,022	3,173	3,002	2,798
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	6,172	6,588	6,743	6,737	7,466	7,045	7,404	7,457	7,719	7,143	6,453
341	Paper & Paper Products	4,356	4,552	4,526	3,860	3,675	3,462	3,315	3,590	4,093	4,341	4,563
342	Printing & Publishing	11,723	12,138	13,046	13,308	13,820	12,948	12,886	13,023	14,202	15,299	15,664
351	Industrial Chemicals & Gases	2,154	2,083	2,338	2,382	3,315	3,279	3,180	3,311	3,716	4,326	4,766
352	Paints, Pharmaceuticals & Other Chemical Products	4,344	4,336	4,485	4,531	4,520	4,485	4,264	4,394	4,591	4,685	5,094
353/4	Petroleum Refineries & Petroleum Products	3,342	3,511	3,784	3,755	3,605	3,494	3,367	3,245	3,125	3,113	3,202
355	Processing of Jelutong & Gum Damar	145	157	160	173	145	126	143	139	90	93	74
356	Rubber Products except Footwear & Toys	1,952	1,359	1,287	1,283	1,307	1,055	1,015	1,171	1,419	1,433	1,440
357	Plastic Products	9,845	9,672	9,527	9,340	9,160	8,706	8,109	9,977	12,214	12,967	12,749
361/2	Pottery, China, Earthenware & Glass Products	846	951	820	993	1,010	347	233	144	163	853	853
363	Structural Clay Products	474	461	688	679	641	549	436	383	361	358	322
364	Cement	461	474	538	579	552	547	424	408	366	380	411

6.6 WORKERS IN MANUFACTURING BY INDUSTRY, 1980 -1990 (continued)

		Number										
Industrial Code	Industry	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
365	Structural Cement & Concrete Products	1,458	1,730	2,135	3,697	4,559	4,367	4,367	2,777	2,206	2,213	2,576
369	Non-metallic Mineral Products	1,424	1,443	1,488	1,600	1,418	1,384	1,387	1,470	1,820	1,764	1,627
371	Iron & Steel	1,922	1,972	1,777	1,701	1,667	1,564	1,349	1,329	1,516	1,615	1,748
372	Non-ferrous Metals	403	384	481	441	504	490	454	616	670	737	730
381	Fabricated Metal Products except Machinery & Equipment	18,602	19,981	21,723	21,313	20,923	20,061	18,900	21,365	26,004	27,085	28,181
382	Machinery except Electrical & Electronic	17,828	21,316	21,680	20,334	18,833	18,470	17,062	18,471	20,695	22,606	24,243
383	Electrical Machinery, Apparatus, Appliances & Supplies	16,377	16,958	15,128	16,347	17,348	16,892	16,241	18,836	22,064	22,366	21,733
384	Electronic Products & Components	71,425	69,367	60,760	65,837	73,022	65,617	68,772	84,910	111,559	116,080	125,449
385	Transport Equipment	27,653	28,568	30,750	26,845	24,759	21,748	17,062	17,442	20,257	22,396	25,092
386	Instrumentation Equipment, Photographic & Optical Goods	10,466	5,462	5,804	5,224	5,395	5,119	5,252	6,151	7,392	7,634	7,912
390	Other Manufacturing Industries	7,925	7,890	7,531	6,422	6,534	5,780	6,191	7,368	7,778	7,804	8,008
	Total Manufacturing excluding Rubber Processing	285,250	281,675	275,450	271,106	274,391	253,510	246,682	276,309	324,713	337,575	352,489
	Rubber Processing	1,977	1,826	1,303	980	689	516	425	216	197	187	187
	Total Manufacturing including Rubber Processing	287,227	283,501	276,753	272,086	275,080	254,026	247,107	276,525	324,910	337,762	352,676
	Granite Quarrying	938	1,008	1,050	1,142	1,145	776	625	506	325	281	269
	TOTAL	288,165	284,509	277,803	273,228	276,225	254,802	247,732	277,031	325,235	338,043	352,945

Note : See note to Table 6.3.

Source : Economic Development Board
with effect from April 1987

6.7 REMUNERATION OF EMPLOYEES IN MANUFACTURING BY INDUSTRY, 1980 -1990

Million Dollars

Industrial Code	Industry	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
311/2	Food	86.8	103.0	114.1	128.8	147.6	156.5	146.5	151.2	164.5	183.6	197.4
313	Beverage	35.1	39.9	35.3	36.5	40.6	44.1	40.7	39.6	45.2	49.5	52.4
314	Tobacco Products	15.3	15.6	17.3	19.2	21.1	20.8	18.8	17.9	18.9	21.5	26.4
321	Textiles & Textile Manufactures	66.3	67.9	59.4	49.1	45.9	35.1	32.7	39.0	45.1	51.1	56.6
322	Wearing Apparel except Footwear	155.4	179.1	203.4	216.1	236.9	227.3	222.7	255.6	289.2	316.5	313.8
323	Leather & Leather Products	7.6	8.2	8.5	8.2	8.7	6.9	6.0	6.4	8.6	10.3	12.7
324	Footwear	9.7	10.1	10.7	10.3	11.3	7.4	6.6	6.9	7.1	8.1	9.6
331	Sawn Timber & Other Wood Products except Furniture	79.8	77.3	69.0	66.3	56.2	47.9	37.5	37.4	41.6	45.8	43.6
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	44.8	55.3	59.0	62.5	73.6	74.3	75.1	76.9	90.9	92.0	91.3
341	Paper & Paper Products	35.0	44.7	52.0	52.3	53.3	54.8	54.3	63.8	74.7	87.3	99.5
342	Printing & Publishing	117.1	138.8	169.6	193.3	231.4	233.7	234.7	243.5	285.8	345.0	364.0
351	Industrial Chemicals & Gases	29.2	33.8	43.0	46.9	89.5	100.3	91.4	99.2	117.1	150.3	183.5
352	Paints, Pharmaceuticals & Other Chemical Products	54.1	63.2	76.3	88.6	96.3	101.4	98.0	100.8	111.9	127.2	154.6
353/4	Petroleum Refineries & Petroleum Products	99.7	114.7	138.6	148.0	151.4	154.6	148.8	148.4	154.2	174.3	201.4
355	Processing of Jelutong & Gum Damar	1.3	1.5	1.6	1.9	1.9	1.9	1.7	1.5	1.4	1.5	1.2
356	Rubber Products except Footwear & Toys	17.4	13.3	14.7	17.0	19.6	17.3	16.0	19.9	23.7	26.4	28.4
357	Plastic Products	66.7	75.3	83.6	92.7	104.7	104.9	101.9	121.9	160.7	193.9	218.5
361/2	Pottery, China, Earthenware & Glass Products	11.5	12.6	12.8	16.3	17.8	5.9	3.1	1.9	2.2	12.7	12.7
363	Structural Clay Products	5.2	6.0	9.7	11.2	11.7	9.3	6.5	5.6	5.3	6.1	6.8
364	Cement	7.0	8.9	10.5	12.3	12.4	12.2	9.2	8.4	8.5	10.5	11.8

6.7 REMUNERATION OF EMPLOYEES IN MANUFACTURING BY INDUSTRY, 1980 -1990 (continued)

Million Dollars

Industrial Code	Industry	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
365	Structural Cement & Concrete Products	15.6	21.8	30.4	57.2	72.6	74.9	69.3	40.5	34.1	37.3	45.0
369	Non-metallic Mineral Products	15.5	19.9	21.1	24.3	20.4	21.3	21.2	21.6	26.0	27.8	29.5
371	Iron & Steel	27.9	30.7	33.1	36.9	39.6	39.6	33.7	33.1	37.1	44.9	51.5
372	Non-ferrous Metals	7.0	6.1	7.3	7.1	8.6	8.7	9.2	11.1	14.3	17.3	16.5
381	Fabricated Metal Products except Machinery & Equipment	167.6	209.6	261.0	279.4	304.7	316.4	289.4	334.6	409.9	487.8	544.1
382	Machinery except Electrical & Electronic	207.2	296.0	324.1	341.1	362.6	377.0	319.2	335.5	403.9	488.5	566.8
383	Electrical Machinery, Apparatus, Appliances & Supplies	135.8	161.5	179.2	203.9	244.9	251.9	221.0	245.9	303.7	340.2	366.5
384	Electronic Products & Components	508.9	579.4	618.9	750.1	936.6	959.6	975.9	1,188.4	1,559.5	1,836.0	2,156.6
385	Transport Equipment	366.7	435.3	487.7	467.6	478.9	445.6	336.8	351.4	417.0	541.4	633.5
386	Instrumentation Equipment, Photographic & Optical Goods	76.1	47.8	54.6	60.5	69.6	69.9	68.3	83.6	99.5	119.4	139.9
390	Other Manufacturing Industries	53.3	61.0	64.2	66.3	74.4	72.2	72.8	84.4	94.9	107.7	123.4
	Total Manufacturing excluding Rubber Processing	2,526.9	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	6,759.4
	Rubber Processing	18.5	18.3	16.1	15.0	9.3	7.9	4.7	4.5	4.1	5.9	5.9
	Total Manufacturing including Rubber Processing	2,545.4	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	6,765.3
	Granite Quarrying	10.8	15.3	15.7	17.7	19.3	14.3	10.8	9.4	7.7	7.1	7.0
	TOTAL	2,556.2	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	6,772.2

Note : See note to Table 6.3.

Source : Economic Development Board
with effect from April 1987

6.8 VALUE OF OUTPUT OF SELECTED MANUFACTURED PRODUCTS, 1980 -1989

Million Dollars

Commodity	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Soft Drinks	126.4	172.2	164.8	171.1	157.5	159.2	201.5	236.9	255.6	254.8
Fabrics	195.9	200.1	156.8	107.9	108.6	88.4	123.8	111.2	142.8	164.7
Newspapers	45.8	55.7	68.1	67.5	68.9	68.9	76.9	79.0	82.1	91.2
Paints	87.8	119.4	117.2	119.1	137.8	135.1	136.9	165.4	207.4	238.8
Pharmaceutical Products	258.4	269.6	283.1	370.0	504.3	475.7	691.1	811.2	871.8	972.0
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
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
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
Lubricating Oil	-	-	713.7	711.1	606.5	378.5	529.3	406.0	457.4	532.1
Motor Spirit	-	-	-	967.3	826.6	863.3	590.2	702.1	701.2	918.8
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
Cement	277.1	347.2	405.7	441.4	280.0	164.4	151.8	120.8	127.5	173.4
Ready-mixed Concrete	87.9	186.1	281.3	361.3	359.9	305.2	257.9	215.5	195.5	238.6
Metal Stampings	84.1	118.3	83.8	105.4	146.1	115.8	168.6	231.6	328.4	405.9
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
Motors	106.1	122.2	81.2	108.0	136.7	153.1	180.5	264.3	345.6	426.6
Disk Drives	-	-	-	544.6	439.8	1,112.2	2,044.4	3,653.2	4,800.7	5,002.6
Telephones	-	-	-	-	-	-	203.6	474.2	764.6	714.6
Television Receivers	512.7	667.8	495.7	470.3	469.1	566.0	578.4	860.4	1,172.0	1,221.3
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
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
Capacitors	86.8	93.9	84.8	86.8	100.8	84.4	101.7	136.7	202.2	274.6
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
Marine Engines & Parts	109.6	137.2	151.4	110.5	106.1	89.0	99.0	100.9	158.3	202.0
Jewellery	158.2	179.9	143.0	150.7	203.4	144.0	142.7	153.1	271.4	243.4
Toys	113.8	126.7	93.3	94.7	119.2	135.1	187.9	339.6	384.1	306.6

Source : Economic Development Board
with effect from April 1987

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

Industrial Code	Major Industry Group	1989				1990			
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr*
	Total Manufacturing excluding Rubber Processing	89.2	100.0	103.7	107.0	99.7	108.6	114.1	115.7
311/2	Food	100.1	97.0	98.5	104.8	96.1	92.9	97.4	101.8
313	Beverage	106.7	109.9	93.0	90.4	106.7	120.9	109.9	95.4
314	Cigarettes & Other Tobacco Products	87.0	92.2	100.1	120.6	127.4	150.2	143.7	163.2
321	Textiles & Textile Manufactures	88.2	103.7	106.8	101.3	90.6	95.7	96.3	93.2
322	Wearing Apparel except Footwear	79.8	99.5	109.8	110.8	78.5	99.6	97.4	98.0
323	Leather & Leather Products	95.9	103.6	101.8	98.6	101.4	99.1	101.6	106.2
324	Footwear	88.9	91.9	104.3	114.9	109.6	106.4	102.1	101.6
331	Sawn Timber & Other Wood Products except Furniture	88.3	104.5	106.1	101.1	93.5	96.6	93.8	90.1
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	97.4	100.7	96.2	105.7	91.4	98.6	101.5	105.8
341	Paper & Paper Products	93.4	110.5	105.6	90.4	99.3	108.5	106.4	108.3
342	Printing & Publishing	86.6	97.1	104.5	111.9	95.4	107.1	116.9	120.5
351	Industrial Chemicals & Gases	70.9	110.1	109.0	110.0	112.4	108.7	117.5	116.4
352	Paints & Pharmaceutical & Other Chemical Products	77.8	106.4	109.8	106.0	111.0	126.5	118.0	167.1
353/4	Petroleum Refineries & Petroleum Products	97.0	96.8	90.1	116.0	110.1	114.9	110.1	118.5
356	Rubber Products except Footwear & Toys	97.4	107.0	99.8	95.7	78.5	84.7	93.4	94.8
357	Plastic Products	97.7	101.1	103.8	97.4	87.6	97.2	106.5	111.7
361/2	Pottery, China, Earthenware & Glass Products	69.2	101.3	116.0	113.6	79.8	127.2	140.9	110.8

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

Industrial Code	Major Industry Group	1989				1990			
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr*
363	Bricks, Tiles & Other Structural Clay Products	90.1	97.9	106.9	105.1	100.0	101.9	89.8	99.3
364	Cement	96.5	92.3	101.3	109.8	105.9	103.0	111.0	114.3
365	Structural Cement & Concrete Products	89.8	105.0	101.6	103.6	107.1	122.2	111.6	120.6
369	Non-metallic Mineral Products	98.2	94.1	104.2	103.5	98.9	102.4	102.8	102.7
371	Iron & Steel	86.9	97.9	103.9	111.5	100.2	104.8	117.9	109.2
372	Non-ferrous Metals	90.8	101.9	105.0	102.3	93.4	116.6	138.7	112.5
381	Fabricated Metal Products except Machinery & Equipment	95.4	100.8	103.9	99.8	93.9	96.7	104.1	100.1
382	Machinery except Electrical & Electronic	95.7	103.0	102.5	98.9	94.1	101.1	109.7	113.0
383	Electrical Machinery, Apparatus, Appliances & Supplies	90.8	101.6	106.9	100.6	87.3	95.9	96.5	91.1
384	Electronic Products & Components	90.7	96.2	103.1	110.0	100.8	111.5	120.0	119.6
385	Transport Equipment	89.0	102.5	102.7	105.7	97.2	111.2	116.3	110.5
386	Instrumentation Equipment, Photographic & Optical Goods	88.1	98.4	104.7	108.9	107.4	117.1	127.6	110.6
390	Other Manufacturing Industries	80.9	95.7	126.3	97.3	86.5	106.8	134.4	100.1

Source: Economic Development Board

6.10 ANNUAL INDEX OF INDUSTRIAL PRODUCTION, 1985 -1990
(1989 = 100)

Industrial Code	Major Industry Group	1985	1986	1987	1988	1989	1990*
	Total Manufacturing excluding Rubber Processing	60.2	65.3	76.7	90.8	100.0	109.5
311/2	Food	80.3	88.0	89.2	97.3	100.0	97.0
313	Beverage	73.1	76.9	91.8	102.8	100.0	108.3
314	Cigarettes & Other Tobacco Products	57.5	44.8	38.0	68.4	100.0	146.1
321	Textiles & Textile Manufactures	77.6	78.0	89.4	95.9	100.0	93.9
322	Wearing Apparel except Footwear	68.2	78.4	92.3	98.1	100.0	93.4
323	Leather & Leather Products	110.8	112.9	127.0	118.3	100.0	102.1
324	Footwear	71.0	77.8	92.3	110.3	100.0	104.9
331	Sawn Timber & Other Wood Products except Furniture	139.0	106.3	113.8	113.6	100.0	93.5
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	90.8	99.9	96.9	102.9	100.0	99.3
341	Paper & Paper Products	60.5	67.0	89.1	97.9	100.0	105.6
342	Printing & Publishing	71.2	74.5	81.5	90.2	100.0	110.0
351	Industrial Chemicals & Gases	72.8	74.1	88.0	94.1	100.0	113.8
352	Paints & Pharmaceutical & Other Chemical Products	76.6	80.7	81.5	84.3	100.0	130.7
353/4	Petroleum Refineries & Petroleum Products	83.1	90.4	84.0	88.0	100.0	113.4
356	Rubber Products except Footwear & Toys	109.9	98.8	103.4	100.0	100.0	87.9
357	Plastic Products	77.8	70.0	86.9	99.8	100.0	100.7
361/2	Pottery, China, Earthenware & Glass Products	153.6	92.2	98.2	107.2	100.0	114.7

6.10 ANNUAL INDEX OF INDUSTRIAL PRODUCTION, 1985 -1990 (continued)
(1989 = 100)

Industrial Code	Major Industry Group	1985	1986	1987	1988	1989	1990*
363	Bricks, Tiles & Other Structural Clay Products	113.6	79.6	90.3	90.7	100.0	97.7
364	Cement	120.4	106.1	89.8	93.8	100.0	108.5
365	Structural Cement & Concrete Products	137.3	133.2	103.1	94.5	100.0	115.4
369	Non-metallic Mineral Products	45.2	43.3	61.3	66.2	100.0	101.7
371	Iron & Steel	86.9	88.1	91.7	97.3	100.0	108.0
372	Non-ferrous Metals	108.9	97.5	105.4	107.0	100.0	115.3
381	Fabricated Metal Products except Machinery & Equipment	64.9	71.5	81.8	96.2	100.0	98.7
382	Machinery except Electrical & Electronic	69.4	60.4	70.4	84.7	100.0	104.5
383	Electrical Machinery, Apparatus, Appliances & Supplies	50.7	55.7	73.6	88.0	100.0	92.7
384	Electronic Products & Components	42.3	53.9	71.0	90.9	100.0	113.0
385	Transport Equipment	57.4	63.1	68.1	82.2	100.0	108.8
386	Instrumentation Equipment, Photographic & Optical Goods	66.9	69.3	80.6	99.4	100.0	115.7
390	Other Manufacturing Industries	68.2	81.5	133.4	142.0	100.0	107.0

Source : Economic Development Board
with effect from April 1987

6.11 NET INVESTMENT COMMITMENTS IN MANUFACTURING BY INDUSTRY, 1980-1990

Million Dollars

Industry	1980	1981	1982	1983 ¹	1984	1985	1986	1987	1988	1989	1990
Food & Beverages	99.4	90.7	101.5	185.9	154.4	55.5	83.3	156.6	168.4	34.1	43.8
Textiles	32.6	18.1	8.9	7.3	0.3	3.2	5.6	3.0	10.6	2.0	2.8
Wearing Apparel	8.0	8.3	10.4	2.8	6.7	0.7	-	6.8	0.9	0.4	0.2
Leather & Rubber	15.8	3.6	5.3	22.9	8.1	4.9	0.4	8.5	5.6	-	10.0
Wood Products	30.8	16.8	8.8	8.0	15.8	21.3	11.4	14.7	-	2.1	8.6
Paper Products & Printing	27.2	161.8	109.2	22.1	111.3	32.3	36.2	25.1	72.0	93.8	76.2
Industrial Chemicals	76.8	63.8	16.9	52.1	8.1	34.5	78.0	32.9	124.7	213.5	265.9
Plastic Products	66.8	41.9	47.5	27.7	33.4	19.4	42.6	115.9	53.5	37.8	14.5
Other Chemical Products	101.1	95.7	47.4	106.2	30.7	18.2	111.5	11.0	25.7	21.7	35.0
Petroleum	200.0	162.0	387.7	367.1	358.8	190.0	116.0	122.4	-	290.0	381.0
Non-metallic Mineral Products	65.7	55.6	40.5	136.0	24.6	88.4	9.3	6.2	133.8	-	9.0
Basic Metals	-	16.3	53.5	36.8	18.1	2.9	8.3	5.2	15.3	86.6	-
Fabricated Metal Products	75.6	96.1	121.0	167.4	71.5	39.5	82.0	104.3	109.9	101.0	103.1
Machinery except Electrical	121.3	300.9	162.2	84.5	225.9	125.0	205.6	93.5	180.5	131.0	177.5
Electrical Machinery & Appliances	392.2	406.8	321.8	351.6	655.8	376.1	522.0	838.4	935.6	776.9	1,197.1
Transport Equipment	58.4	273.3	162.5	92.7	72.5	88.3	64.0	61.7	110.4	50.8	114.1
Precision Equipment	29.0	24.3	66.6	65.8	17.0	2.0	53.8	116.6	44.0	93.0	21.1
Other Products	10.3	0.2	5.5	-	1.6	3.5	-	11.8	0.7	14.3	-
Servicing/Engineering	2.5	26.8	27.8	38.9	13.8	14.8	19.9	8.4	15.9	9.8	24.3
TOTAL	1,413.5	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	2,484.3
Foreign	1,189.1	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	2,217.5
Local	224.4	641.6	542.0	506.0	493.7	232.4	259.4	295.0	349.6	333.3	266.8

Note : Net investment commitments refer to gross commitments less projects withdrawn or uncertain as at 31 December 1990.

1 Exclude Petrochemicals.

Source : Economic Development Board

6.12 NET INVESTMENT COMMITMENTS IN MANUFACTURING BY COUNTRY OF ORIGIN, 1980-1990

Million Dollars

Country	1980	1981	1982	1983 ¹	1984	1985	1986	1987	1988	1989	1990
TOTAL	1,413.5	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	2,484.3
Local	224.4	641.6	542.0	506.0	493.7	232.4	259.4	295.0	349.6	333.3	266.8
Foreign	1,189.1	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	2,217.5
United States	505.7	674.4	533.0	571.7	805.9	427.3	443.4	543.5	586.6	520.2	1,054.8
Japan	135.3	212.1	73.7	166.6	166.6	244.1	493.8	601.1	691.3	541.2	708.2
Europe	360.4	228.7	421.8	394.1	325.1	201.0	218.8	285.8	358.1	544.2	435.3
European Community (EC)	269.9	166.3	386.9	338.8	318.9	180.9	204.8	241.0	345.1	525.4	395.5
United Kingdom	129.5	83.1	283.1	207.5	186.6	69.4	93.4	42.4	56.6	174.6	89.9
Netherlands	1.0	1.2	62.8	99.2	70.3	75.2	57.1	70.9	82.9	174.0	72.6
Germany	69.2	11.5	31.4	12.8	14.3	20.1	16.7	90.3	46.7	26.4	165.7
France	18.8	1.7	1.3	6.8	-	15.1	27.8	15.2	86.0	106.0	60.4
Italy	45.4	62.5	2.4	5.1	44.8	-	5.1	22.0	68.0	32.8	-
Other EC Countries	6.0	6.3	5.9	7.4	2.9	1.1	4.7	0.2	4.9	11.6	6.9
Switzerland	35.8	17.0	22.0	15.4	2.7	4.7	7.7	27.8	10.1	0.9	32.7
Other European Countries	1.1	7.2	1.8	27.4	3.3	0.5	0.9	8.3	2.9	18.0	-
Others	187.7	106.2	133.9	137.4	37.1	15.6	34.6	17.6	21.7	19.8	19.2

Note : Sources of foreign investment commitments were reclassified as from 1980.

Source : Economic Development Board

1 Exclude Petrochemicals.

6.13 PRINCIPAL STATISTICS OF PIONEER MANUFACTURING ESTABLISHMENTS, 1979 -1989

End of Year	Establishments	Workers	Input	Output	Census Value Added	Employees' Remuneration	Paid-up Capital	Gross Fixed Assets	Direct Exports
	Number		Million Dollars						
1979	341	111,525	12,067	15,526	3,391	864	1,579	5,244	12,393
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

Source : Economic Development Board
with effect from April 1987

**6.14 PRINCIPAL STATISTICS OF PIONEER MANUFACTURING ESTABLISHMENTS BY INDUSTRY GROUP,
DECEMBER 1989**

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	398	158,084	25,179	37,764	12,032	2,842	6,342	18,151	30,023	76
Food & Beverages	7	1,000	163	265	102	21	59	154	154	102
Textiles & Garments	14	4,781	156	277	96	58	132	159	248	20
Printing & Paper Products	6	935	136	286	144	23	14	200	222	154
Industrial Chemicals & Gases	29	2,764	1,521	2,588	1,061	107	1,282	2,504	1,720	384
Chemical Products	15	1,996	301	1,074	772	59	204	444	949	387
Petroleum & Petroleum Products	5	2,420	5,564	6,695	1,131	143	266	4,935	4,405	467
Rubber Products	4	694	35	70	35	14	26	53	69	50
Plastic Products	14	1,569	77	164	80	26	21	146	71	51
Non-metallic Mineral Products	6	1,024	95	132	31	16	65	235	45	31
Basic Metal Industries	7	652	52	113	61	15	13	84	46	93
Fabricated Metal Products	45	7,520	640	1,100	436	145	308	763	605	58
Non-electrical Machinery	55	10,333	765	1,454	656	227	253	1,086	1,128	63
Electrical Machinery	31	16,428	985	1,671	649	241	200	907	1,158	40
Electronic Products	108	91,987	13,971	20,178	5,948	1,474	3,202	5,344	17,694	65
Transport Equipment	18	5,769	271	843	461	150	146	666	708	80
Instrumentation Equipment	25	6,375	280	594	300	99	98	371	549	47
Miscellaneous	9	1,837	166	261	71	24	53	99	251	38

Source : Economic Development Board

CHART 8

QUARTERLY INDEX OF INDUSTRIAL PRODUCTION, 1984-1990
(1989 = 100)

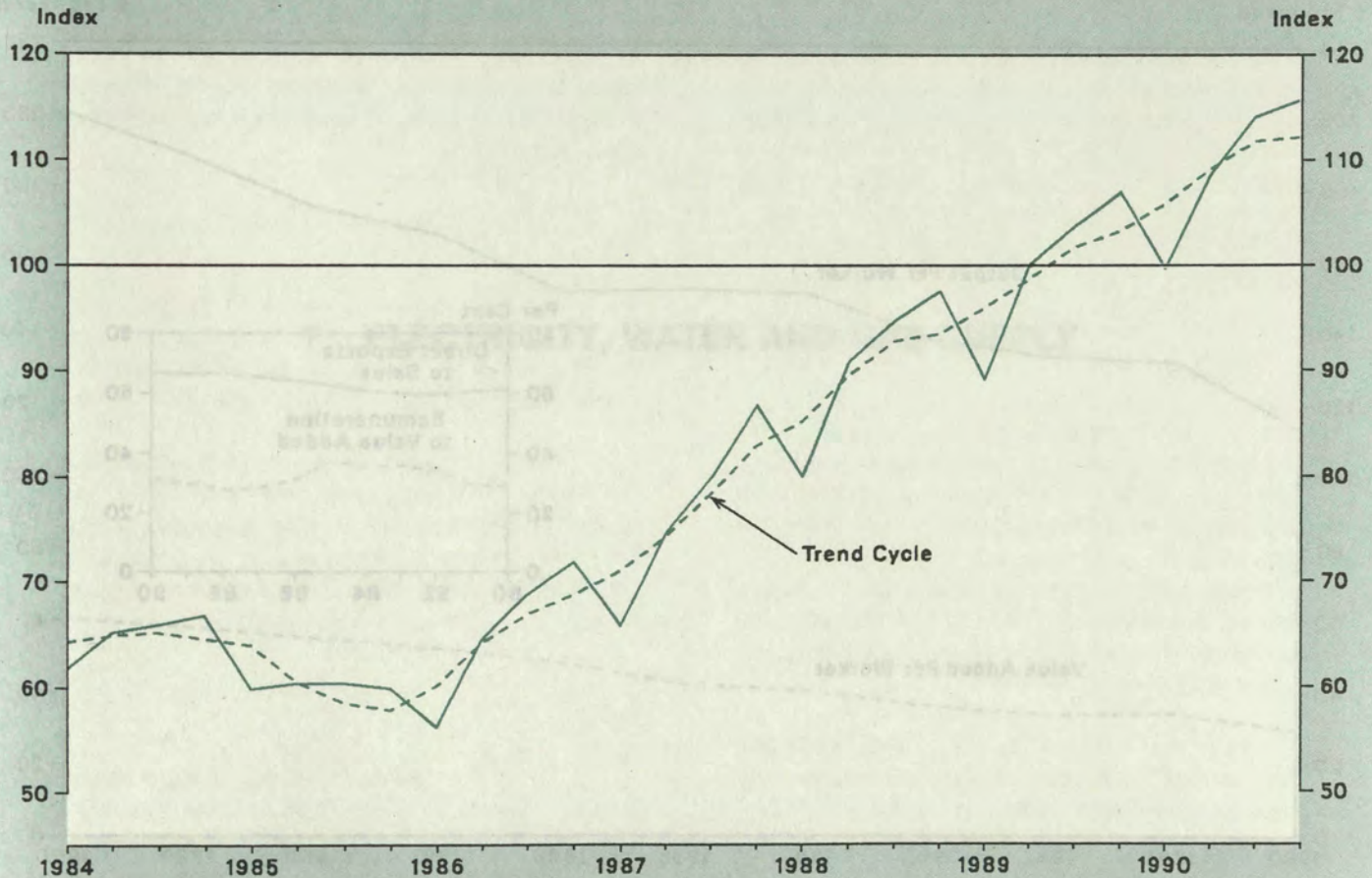
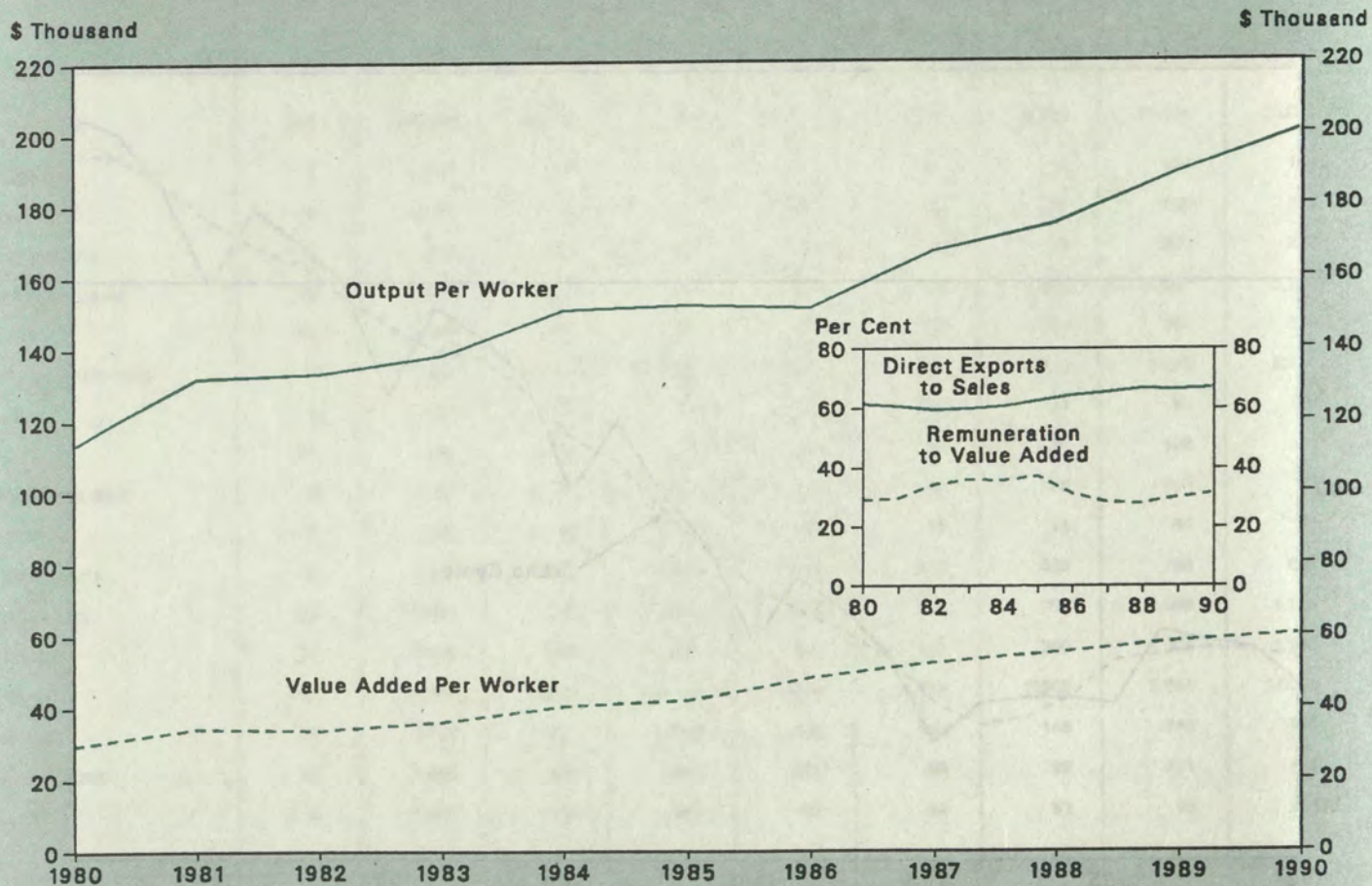


CHART 9

SELECTED RATIOS IN MANUFACTURING, 1980-1990



Water and Gas Supply, which is a subsidiary of the Singapore Government. The company is responsible for the production and distribution of water and gas in Singapore. It is a public utility company and is owned by the Singapore Government. The company's main objective is to provide a reliable and efficient supply of water and gas to the people of Singapore. It also aims to improve the quality of its services and to reduce its environmental impact.

The company's water supply is derived from the catchment areas in the north and south of Singapore. The water is treated at the water treatment plants and then distributed to the customers through a network of pipes. The company also has a gas supply system which provides gas to the customers through a network of pipes. The gas is produced by the gas treatment plants and is then distributed to the customers through a network of pipes.

Water

Water is a vital resource for the people of Singapore. It is used for drinking, bathing, and other daily activities. The company ensures that the water supply is clean and safe for consumption. It also ensures that the water supply is sufficient to meet the needs of the population. The company also has a system in place to monitor the quality of the water supply and to take action if there is any problem.

The company's water supply is derived from the catchment areas in the north and south of Singapore. The water is treated at the water treatment plants and then distributed to the customers through a network of pipes. The company also has a gas supply system which provides gas to the customers through a network of pipes. The gas is produced by the gas treatment plants and is then distributed to the customers through a network of pipes.

Gas

Gas is a vital resource for the people of Singapore. It is used for cooking, heating, and other daily activities. The company ensures that the gas supply is clean and safe for use. It also ensures that the gas supply is sufficient to meet the needs of the population. The company also has a system in place to monitor the quality of the gas supply and to take action if there is any problem.

The company's gas supply is derived from the gas treatment plants and is then distributed to the customers through a network of pipes. The gas is produced by the gas treatment plants and is then distributed to the customers through a network of pipes.

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 1990 World Competitiveness Report, Singapore's power supply infrastructure was given the top rating. The leading 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 Tekong, Sembawang, Jurong and Pasir Panjang. In 1990, the installed generating capacity increased to 3,627 megawatts (MW) of which 1,988 MW or 51 per cent is at Sembawang. Some electricity is also generated by the nuclear incineration plants of the Ministry of the Environment (EMV). In 1990 PUB purchased from EMV 220 million kWh or 1.4 per cent of Singapore's total electricity supply of 15,618 million kWh.

A network of 250 kV and 132 kV, 66 kV, 33 kV, 11 kV and 0.4 kV cables interlinked by transformers at substations forms the transmission and distribution system whereby electricity is

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 1990 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 1990, the installed generating capacity increased to 3,627 megawatt (MW) of which 1,866 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 1990 PUB purchased from ENV 220 million kWh or 1.4 per cent of Singapore's total electricity supply of 15,618 million kWh.

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 17,000 kilometres of cable circuits, 23,713 megavolt-amperes of transformer capacity and 5,291 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 4,295 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 produced during off-peak periods is stored in the holders in Kallang and Queenstown and used to supplement the supply during the peak demand periods. There is a total of 1,906 kilometres of gas mains in use.

Data on monthly electricity, water and gas production and sales may be obtained from the "Monthly Digest of Statistics" published by the Department of Statistics.

Month	Year	Capacity (MW)	Electricity Production (MWh)				Electricity Sales (MWh)				Total (MWh)	Loss (MWh)
			Hydro	Thermal	Nuclear	Renewable	Hydro	Thermal	Nuclear	Renewable		
JAN	1991	0.12	2,147.3	5,745.5	2,760.7	0.000	2,087.5	5,700.7	2,760.7	0.000	10,548.9	1,907.1
FEB	1991	0.17	2,172.5	5,745.5	2,760.7	0.000	2,109.8	5,700.7	2,760.7	0.000	10,571.2	1,907.1
MAR	1991	0.18	1,400.5	5,745.5	2,760.7	0.000	1,400.5	5,700.7	2,760.7	0.000	9,861.9	1,907.1
APR	1991	0.22	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
MAY	1991	0.24	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
JUN	1991	0.30	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
JUL	1991	0.37	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
AUG	1991	0.44	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
SEP	1991	0.51	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
OCT	1991	0.58	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
NOV	1991	0.65	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
DEC	1991	0.72	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
JAN	1992	0.79	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
FEB	1992	0.86	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
MAR	1992	0.93	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
APR	1992	1.00	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
MAY	1992	1.07	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
JUN	1992	1.14	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
JUL	1992	1.21	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
AUG	1992	1.28	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
SEP	1992	1.35	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
OCT	1992	1.42	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
NOV	1992	1.49	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1
DEC	1992	1.56	0,000.0	5,745.5	2,760.7	0.000	0,000.0	5,700.7	2,760.7	0.000	8,461.4	1,907.1

7.1 ELECTRICITY PRODUCTION AND SALES, 1980-1990

Year	Production	Sales					Number of Customers (End of Period)
		Total	Domestic	Manufacturing	Other Industries	Export	
	Million Kilowatt Hours						
1980	6,967.6	6,198.0	1,014.3	2,947.2	2,144.5	92.0	556,224
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

Source : Public Utilities Board

7.2 WATER PRODUCTION AND SALES, 1980-1990

Year		Sales						Number of Customers (End of Period)
	Production	Total	Domestic	Shipping	Commerce & Industry	Government & Statutory Boards	Johore	
	Thousand Cubic Metres							
1980	286,262.8	256,407.8	113,478.1	3,346.9	75,991.2	23,750.1	39,841.5	525,472
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

Source : Public Utilities Board

7.3 GAS PRODUCTION AND SALES, 1980-1990

Year	Production	Sales					Number of Customers (End of Period)
		Total	Domestic		Non-domestic		
			Public Housing	Others			
Million Kilowatt Hours							
1980	614.1	552.0	246.7	70.5	234.8	187,944	
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	

Source : Public Utilities Board

8 BUILDING CONSTRUCTION AND HOUSING

submitted in accordance with Building Control Act to the permission granted to building plans and specifications

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

Definitions : Refers to the definitions of the terms used in the Building Control Act.

conducted by the Research Section, URA.

Building Construction : Refers to the construction of buildings and structures.

Building Construction and Housing : Refers to the construction of buildings and housing.

Contractor Awarded : Refers to the full contract given to the main contractor by the architect, engineer or designer.

Building Control : Refers to the control of buildings and structures.

Building Construction and Housing : Refers to the construction of buildings and housing.

Building Construction and Housing : Refers to the construction of buildings 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 and related facilities such as the development of new towns and housing estates and the provision of communal facilities like sports and swimming complexes, commercial, shopping and social amenities. The Board also acquires land for public housing, clears designated areas for redevelopment, and resettles families, shopkeepers and farmers on State Land needed for development projects.

The HDB estate management functions cover housing administration, estate maintenance, legal services and community relations. From 1989 onwards, the estate maintenance function will be taken over by the Town Councils as and when they are established.

Housing units managed by the Board 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, 1980-1990

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)
1980	1,560	9,343.7	5,313.6	290	5,186.1	1,976.9	1,270	4,157.6	3,336.7
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*	2,264	6,873.2	6,007.7	356	2,809.6	2,014.9	1,908	4,063.6	3,992.8

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

8.2 COMMENCEMENT OF BUILDING CONSTRUCTION, 1980-1990

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)
1980	1,582	7,371.0	3,845.7	535	4,688.8	1,850.5	1,047	2,682.2	1,995.2
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*	2,960	7,628.4	7,540.8	361	4,106.4	2,850.3	2,599	3,522.0	4,690.5

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

8.3 CONSTRUCTION PROJECTS COMPLETED, 1980-1990

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)
1980	1,287	5,014.0	1,482.4	499	3,437.1	793.4	788	1,576.9	689.0
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*	2,248	4,873.3	4,036.9	357	2,584.1	1,610.3	1,891	2,289.2	2,426.6

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

8.4 PLANNING APPROVALS BY TYPE OF DEVELOPMENT, 1980-1990

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
All Types Residential Commercial Industrial Institutional Others	Number										
	1,560	1,712	1,555	1,769	1,780	1,361	1,481	1,830	2,000	2,112	2,264
	679	777	706	983	986	646	773	1,076	1,009	933	681
	205	145	158	137	137	116	139	135	200	359	516
	426	531	457	378	384	290	273	381	455	530	731
	228	230	197	237	254	295	275	206	297	290	336
	22	29	37	34	19	14	21	32	39		
	Gross Floor Area (Thousand Square Metres)										
All Types Residential Commercial Industrial Institutional Others	9,343.7	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	6,873.2
	5,534.3	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
	1,403.7	1,533.5	3,282.9	698.7	787.3	409.7	279.7	195.9	270.0	766.9	799.4
	1,826.9	2,504.0	2,072.2	1,180.8	881.0	933.9	558.6	868.2	693.8	1,470.7	1,568.7
	552.0	577.7	416.0	828.4	785.1	530.3	1,132.4	454.8	428.4	611.4	700.8
	26.8	47.6	239.3	215.5	46.6	6.5	47.0	111.7	292.1		
	Estimated Cost of Construction (Million Dollars)										
All Types Residential Commercial Industrial Institutional Others	5,313.6	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	6,007.7
	2,083.0	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	2,681.7
	1,327.2	1,473.4	4,317.0	981.8	722.0	579.7	219.1	165.2	327.9	1,075.3	1,205.6
	1,411.7	1,969.5	1,355.0	880.6	627.9	526.1	361.5	545.7	489.2	1,080.2	1,212.7
	483.2	603.7	592.9	834.3	919.3	631.7	1,087.4	355.8	610.6	671.3	907.7
	8.5	31.0	27.2	68.4	8.6	1.8	19.9	17.1	216.3		

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, 1980-1990

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
All Types	Number										
	290	251	226	251	233	272	262	207	292	313	356
	33	25	37	40	30	22	38	27	23	38	45
	59	25	19	14	13	9	17	17	16	56	74
	18	18	14	9	3	1	-	5	8	14	13
	174	178	155	186	186	234	199	148	232	205	224
	6	5	1	2	1	6	8	10	13		
All Types	Gross Floor Area (Thousand Square Metres)										
	5,186.1	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	2,809.6
	3,722.3	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
	283.7	516.7	599.9	39.2	245.6	131.2	178.3	76.5	30.2	64.2	70.0
	676.2	928.8	745.0	281.8	123.5	308.5	-	33.5	141.0	191.8	105.9
	482.0	498.2	368.8	759.5	706.1	433.4	1,054.1	313.7	380.0	405.9	418.5
	21.9	0.3	0.1	66.8	1.9	2.3	43.8	10.8	148.5		
All Types	Estimated Cost of Construction (Million Dollars)										
	1,976.9	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
	1,088.3	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
	147.4	319.2	964.6	44.8	156.9	82.6	126.2	42.0	56.0	52.8	119.1
	317.5	493.1	391.9	195.8	48.5	106.0	-	20.5	105.1	87.6	66.2
	418.2	513.1	534.7	753.3	833.8	524.0	1,021.6	273.7	557.5	484.3	587.9
	5.5	3.5	0.3	52.0	2.0	1.0	18.2	7.4	201.9		

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, 1980-1990

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*	
All Types	Number											
	1,270	1,461	1,329	1,518	1,547	1,089	1,219	1,623	1,708	1,799	1,908	
	Residential	646	752	669	943	956	624	735	1,049	986	895	636
	Commercial	146	120	139	123	124	107	122	118	184	303	442
	Industrial	408	513	443	369	381	289	273	376	447	516	718
	Institutional	54	52	42	51	68	61	76	58	65	85	112
	Others	16	24	36	32	18	8	13	22	26		
All Types	Gross Floor Area (Thousand Square Metres)											
	4,157.6	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	4,063.6	
	Residential	1,812.0	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
	Commercial	1,120.0	1,016.7	2,683.0	659.5	541.7	278.5	101.4	119.4	239.8	702.7	729.4
	Industrial	1,150.7	1,575.3	1,327.2	899.0	757.5	625.4	558.6	834.7	552.8	1,278.9	1,462.8
	Institutional	70.0	79.5	47.2	68.9	79.0	96.9	78.3	141.1	48.4	205.5	282.3
	Others	4.9	47.3	239.2	148.7	44.7	4.2	3.2	100.9	143.6		
All Types	Estimated Cost of Construction (Million Dollars)											
	3,336.7	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	3,992.8	
	Residential	994.7	1,473.0	1,613.3	2,141.9	1,475.4	621.6	588.4	755.5	1,269.1	1,152.6	1,440.0
	Commercial	1,179.8	1,154.2	3,352.4	937.0	565.1	497.1	92.9	123.2	271.9	1,022.5	1,086.5
	Industrial	1,094.2	1,476.4	963.1	684.8	579.4	420.1	361.5	525.2	384.1	992.6	1,146.5
	Institutional	65.0	90.6	58.2	81.0	85.5	107.7	65.8	82.1	53.1	187.0	319.8
	Others	3.0	27.5	26.9	16.4	6.6	0.8	1.7	9.7	14.4		

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

8.7 COMMENCEMENT OF BUILDING CONSTRUCTION BY TYPE OF DEVELOPMENT, 1980-1990

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
All Types	Number										
	1,582	1,970	1,840	2,042	1,996	1,606	1,596	1,936	2,247	2,312	2,960
	577	777	746	999	904	693	661	891	1,054	1,027	1,467
	270	209	226	210	274	228	294	331	291	459	590
	459	559	485	400	405	286	296	367	535	500	582
	254	395	353	405	387	382	319	324	328	326	321
	22	30	30	28	26	17	26	23	39		
All Types	Gross Floor Area (Thousand Square Metres)										
	7,371.0	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	7,628.4
	4,321.3	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	4,205.5
	1,122.7	1,024.5	2,321.9	940.0	657.0	350.1	141.4	120.6	196.5	1,433.8	1,206.4
	1,636.3	1,748.3	1,884.7	943.7	664.2	277.4	282.5	644.5	800.4	1,246.0	1,529.2
	278.8	602.8	667.0	1,059.0	722.6	493.1	640.6	560.7	408.6	716.4	687.3
	11.9	54.4	115.8	370.6	186.5	51.0	50.6	113.5	60.5		
All Types	Estimated Cost of Construction (Million Dollars)										
	3,845.7	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	7,540.8
	1,593.6	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	2,737.3
	1,130.4	1,257.7	3,510.0	1,208.8	860.2	384.4	150.7	164.4	241.3	2,426.2	2,618.0
	849.9	1,558.2	1,176.9	783.4	517.0	216.1	228.7	494.4	600.3	1,026.6	1,248.6
	268.2	717.2	1,001.9	1,537.6	1,165.7	512.9	541.3	645.0	534.5	812.9	936.9
	3.6	19.7	24.8	87.6	173.7	26.2	53.1	21.9	22.9		

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, 1980-1990

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*	
All Types	Number											
	535	586	593	654	562	542	507	453	435	364	361	
	Residential	162	151	205	206	179	158	183	139	117	85	98
	Commercial	104	43	41	52	49	34	37	29	36	34	21
	Industrial	40	45	43	32	17	14	29	24	30	23	42
	Institutional	220	340	300	359	315	326	244	252	240	222	200
	Others	9	7	4	5	2	10	14	9	12		
All Types	Gross Floor Area (Thousand Square Metres)											
	4,688.8	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	4,106.4	
	Residential	3,381.6	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	3,130.4
	Commercial	428.8	300.1	392.6	289.2	219.5	129.8	75.1	1.8	21.0	119.1	15.7
	Industrial	631.9	525.4	821.2	120.4	43.9	-	-	35.5	167.5	78.5	417.4
	Institutional	245.9	541.1	613.0	1,005.2	650.2	443.7	595.5	408.2	355.6	331.3	542.9
	Others	0.6	3.9	5.0	68.4	125.6	43.0	46.3	18.6	13.0		
All Types	Estimated Cost of Construction (Million Dollars)											
	1,850.5	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	2,850.3	
	Residential	993.4	1,647.5	2,626.2	3,024.1	2,002.8	1,639.3	1,471.5	886.7	747.7	931.7	1,768.9
	Commercial	309.0	231.0	573.9	218.5	217.5	73.2	81.3	13.5	40.2	177.8	27.4
	Industrial	308.0	282.3	408.1	102.2	30.2	7.0	18.3	30.2	121.8	85.8	319.3
	Institutional	238.5	653.9	932.6	1,463.5	1,079.2	460.9	495.3	557.4	467.5	444.8	734.7
	Others	1.6	4.4	4.9	52.0	166.4	25.2	51.3	13.4	15.5		

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, 1980-1990

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*	
All Types	Number											
	1,047	1,384	1,247	1,388	1,434	1,064	1,089	1,483	1,812	1,948	2,599	
	Residential	415	626	541	793	725	535	478	752	937	942	1,369
	Commercial	166	166	185	158	225	194	257	302	255	425	569
	Industrial	419	514	442	368	388	272	267	343	505	477	540
	Institutional	34	55	53	46	72	56	75	72	88	104	121
	Others	13	23	26	23	24	7	12	14	27		
	Gross Floor Area (Thousand Square Metres)											
	All Types	2,682.2	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	3,522.0
	Residential	939.7	1,409.0	1,646.1	1,826.2	741.2	507.1	260.8	782.2	1,120.1	1,452.1	1,075.1
Commercial	693.9	724.4	1,929.3	650.8	437.5	220.3	66.3	118.8	175.5	1,314.7	1,190.7	
Industrial	1,004.4	1,222.9	1,063.5	823.3	620.3	277.4	282.5	609.0	632.9	1,167.5	1,111.8	
Institutional	32.9	61.7	54.0	53.8	72.4	49.4	45.1	152.5	53.0	385.1	144.4	
Others	11.3	50.5	110.8	302.2	60.9	8.0	4.3	94.9	47.5			
All Types	Estimated Cost of Construction (Million Dollars)											
	1,995.2	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	4,690.5	
	Residential	600.2	1,300.5	1,811.7	1,948.6	727.2	462.2	208.4	656.2	886.7	1,333.8	968.4
	Commercial	821.4	1,026.7	2,936.1	990.3	642.7	311.2	69.4	150.9	201.1	2,248.4	2,590.6
	Industrial	541.9	1,275.9	768.8	681.2	486.8	209.1	210.4	464.2	478.5	940.8	929.3
	Institutional	29.7	63.3	69.3	74.1	86.5	52.0	46.0	87.6	67.0	368.1	202.2
	Others	2.0	15.3	19.9	35.6	7.3	1.0	1.8	8.5	7.4		

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

8.10 CONSTRUCTION PROJECTS COMPLETED BY TYPE OF DEVELOPMENT, 1980-1990

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
All Types	Number										
	1,287	1,477	1,621	1,641	2,006	1,925	1,661	1,822	1,761	1,974	2,248
	Residential	424	500	578	700	877	933	752	814	822	873
	Commercial	227	211	193	182	289	218	279	342	250	367
	Industrial	376	435	489	396	437	361	257	329	389	424
	Institutional	243	311	346	344	388	395	355	311	280	310
	Others	17	20	15	19	15	18	18	26	20	308
	Gross Floor Area (Thousand Square Metres)										
	5,014.0	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	4,873.3
	Residential	3,157.2	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
All Types	Commercial	452.0	973.2	928.5	850.8	1,506.3	728.2	1,448.6	821.4	359.9	293.7
	Industrial	1,105.8	1,053.4	1,756.4	1,549.3	1,531.1	984.9	473.2	360.7	637.3	672.4
	Institutional	280.0	688.7	532.4	505.3	673.2	460.9	852.7	744.0	441.8	312.3
	Others	19.0	3.7	11.7	65.0	61.7	28.4	15.5	141.3	80.6	848.4
	Cost of Construction (Million Dollars)										
	1,482.4	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	4,036.9
	Residential	660.8	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
	Commercial	230.5	420.3	718.1	801.6	1,856.5	892.3	2,256.9	1,103.0	403.4	390.2
	Industrial	381.4	506.9	1,465.4	1,144.8	1,035.9	699.5	333.9	264.5	529.8	618.1
	Institutional	204.3	638.3	713.5	689.1	902.4	526.5	1,003.8	762.4	453.9	422.8
	Others	5.4	5.1	7.8	15.3	44.8	5.5	2.7	181.7	37.2	862.3

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

8.11 PUBLIC SECTOR CONSTRUCTION PROJECTS COMPLETED BY TYPE OF DEVELOPMENT, 1980-1990

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
All Types	Number										
	499	499	499	518	675	614	518	486	421	422	357
	161	136	130	137	235	227	171	189	166	120	77
	76	58	37	40	60	28	31	32	29	59	49
	38	28	34	47	39	29	19	22	22	21	25
	216	268	296	293	336	328	291	228	200	222	206
	8	9	2	1	5	2	6	15	4		
All Types	Gross Floor Area (Thousand Square Metres)										
	3,437.1	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	2,584.1
	2,597.5	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
	149.9	369.9	266.2	259.5	464.5	272.6	274.0	212.5	121.0	33.4	36.2
	465.1	236.7	507.4	623.8	583.1	349.0	44.0	-	59.7	104.3	96.5
	222.3	586.9	484.4	446.1	604.6	411.5	812.9	671.8	395.5	260.5	781.0
	2.3	0.3	2.9	3.3	49.8	0.8	0.4	139.2	68.5		
All Types	Cost of Construction (Million Dollars)										
	793.4	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	1,610.3
	448.8	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
	47.1	54.9	146.4	211.7	434.6	235.8	307.3	203.1	66.0	31.3	47.0
	125.8	77.7	194.9	300.5	272.9	165.5	32.4	9.7	38.4	55.2	83.0
	167.8	570.2	661.9	608.4	802.7	472.5	962.1	675.1	403.7	350.0	778.4
	3.9	2.0	3.2	1.9	35.6	0.5	1.1	181.0	28.8		

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

8.12 PRIVATE SECTOR CONSTRUCTION PROJECTS COMPLETED BY TYPE OF DEVELOPMENT, 1980-1990

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
All Types	Number										
	788	978	1,122	1,123	1,331	1,311	1,143	1,336	1,340	1,552	1,891
	263	364	448	563	642	706	581	625	656	753	880
	151	153	156	142	229	190	248	310	221	308	501
	338	407	455	349	398	332	238	307	367	403	408
	27	43	50	51	52	67	64	83	80	88	102
	9	11	13	18	10	16	12	11	16		
	Gross Floor Area (Thousand Square Metres)										
	1,576.9	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	2,289.2
	559.7	695.4	556.2	1,193.5	1,257.1	1,709.9	1,151.2	611.7	463.2	879.6	977.0
302.1	603.3	662.3	591.3	1,041.8	455.6	1,174.6	608.9	238.9	260.3	380.0	
640.7	816.7	1,249.0	925.5	948.0	635.9	429.2	360.7	577.6	568.1	864.8	
57.7	101.8	48.0	59.2	68.6	49.4	39.8	72.2	46.3	51.8	67.4	
16.7	3.4	8.8	61.7	11.9	27.6	15.1	2.1	12.1			
Cost of Construction (Million Dollars)											
689.0	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	2,426.6	
212.0	331.1	410.9	1,027.6	1,240.6	1,698.9	1,029.1	539.3	400.0	763.6	819.3	
183.4	365.4	571.7	589.9	1,421.9	656.5	1,949.6	899.9	337.4	358.9	830.8	
255.6	429.2	1,270.5	844.3	763.0	534.0	301.5	254.8	491.4	562.9	692.6	
36.5	68.1	51.6	80.7	99.7	54.0	41.7	87.3	50.2	72.8	83.9	
1.5	3.1	4.6	13.9	9.2	5.0	1.6	0.7	8.4			

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, 1980-1990

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*	
All Types	Number											
	1,244	1,444	1,306	1,533	1,669	1,322	1,207	1,457	1,894	2,230	2,977	
	Residential	523	668	595	825	862	652	556	687	985	1,132	1,486
	Commercial	205	179	176	198	260	243	270	337	298	447	651
	Industrial	458	521	456	422	444	350	296	346	497	538	706
	Institutional	43	54	55	54	77	67	78	74	93	113	134
	Others	15	22	24	34	26	10	7	13	21		
	Gross Floor Area (Thousand Square Metres)											
	All Types	2,777.5	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	2,836.0
	Residential	942.6	1,244.2	1,159.3	2,083.1	1,132.7	880.0	483.6	535.4	988.3	1,149.2	1,217.0
Commercial	750.3	971.5	1,012.9	2,144.6	802.0	581.4	70.6	119.7	149.6	385.0	532.3	
Industrial	1,038.4	1,174.2	1,073.5	1,015.9	680.5	422.4	260.5	396.7	635.5	1,080.4	869.4	
Institutional	38.6	69.1	51.4	55.7	64.0	68.3	71.7	124.1	73.2	218.3	217.3	
Others	7.6	27.8	109.3	239.3	143.0	6.6	2.7	2.8	54.3			
Estimated Cost of Construction (Million Dollars)												
All Types	2,050.0	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	3,198.7	
Residential	569.4	1,109.6	1,179.5	2,186.4	1,195.4	762.5	441.6	434.6	801.7	963.9	1,205.6	
Commercial	890.3	1,197.8	1,296.2	3,216.8	1,087.3	771.1	122.1	141.9	174.7	686.9	1,023.5	
Industrial	556.4	1,229.1	767.2	890.0	505.8	345.3	194.3	286.6	578.1	885.1	702.1	
Institutional	32.4	62.4	61.3	77.4	72.7	72.7	76.1	52.2	83.1	113.0	267.5	
Others	1.5	8.5	18.9	25.8	22.8	1.1	1.1	1.7	10.6			

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, 1980-1990

Number

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
Planning Approval Stage											
All Types	29,371	27,468	40,793	54,709	39,018	33,339	38,536	30,283	10,623	5,710	11,849
Detached	-	-	16	-	-	-	-	-	-	-	-
Terrace	-	-	12	-	-	-	1	-	-	6	-
Flats	29,307	27,468	40,755	54,709	38,922	33,319	37,705	29,982	10,623	5,704	11,849
Others	64	-	10	-	96	20	830	301	-	-	-
Building of Commencement Stage											
All Types	24,950	30,255	46,721	59,201	39,676	31,854	26,584	13,083	10,631	10,885	16,146
Detached	-	-	16	-	-	-	-	-	-	-	-
Terrace	-	-	12	-	-	-	-	-	-	-	4
Flats	24,950	30,255	46,683	59,105	39,676	31,834	26,584	13,083	10,631	10,885	16,142
Others	-	-	10	96	-	20	-	-	-	-	-
Building Completion Stage											
All Types	23,886	12,464	19,512	19,275	78,288	59,633	38,519	32,859	29,149	12,328	10,562
Detached	-	-	-	-	16	-	-	-	-	-	-
Terrace	-	-	-	-	12	-	-	-	-	-	-
Flats	23,872	12,401	19,510	19,275	78,244	59,633	38,403	32,859	28,319	12,328	10,562
Others	14	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, 1980-1990

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
Planning Approval Stage											
All Types	8,037	8,174	6,535	8,933	6,484	2,535	2,848	3,984	6,676	5,383	6,538
Detached	177	247	213	291	289	174	137	202	234	201	192
Semi-detached	297	232	275	566	912	192	290	457	396	451	312
Terrace	507	396	227	1,030	1,396	384	765	1,562	2,119	1,374	1,011
Flats	6,993	7,291	5,820	7,035	3,883	1,785	1,649	1,752	3,926	1,298	1,486
Condominium	63	8	-	11	4	-	7	11	1	2,059	3,537
Others										-	-
Building Plan Approval Stage											
All Types	3,716	5,532	4,817	9,436	4,461	3,777	2,074	2,051	3,988	4,769	4,572
Detached	144	196	149	239	273	165	75	126	173	194	156
Semi-detached	329	208	166	418	477	528	235	336	382	321	370
Terrace	402	410	233	639	663	824	504	655	1,802	1,233	1,359
Flats	2,840	4,654	4,264	8,132	3,045	2,259	1,253	934	1,629	716	1,306
Condominium	1	64	5	8	3	1	7	-	2	2,305	1,381
Others										-	-
Building of Commencement Stage											
All Types	3,968	6,270	7,829	7,465	2,929	2,107	991	3,246	4,720	5,669	3,347
Detached	109	195	149	223	211	107	53	108	217	153	156
Semi-detached	273	206	170	487	430	420	183	461	350	336	387
Terrace	351	395	270	836	504	544	422	1,225	1,654	1,620	744
Flats	3,203	5,410	7,239	5,906	1,781	1,035	326	1,451	2,498	1,149	1,270
Condominium	32	64	1	13	3	1	7	1	1	2,411	790
Others										-	-
Building Completion Stage											
All Types	2,212	3,186	2,476	4,919	5,441	7,388	5,173	2,295	1,705	3,741	3,608
Detached	96	110	124	161	144	179	109	157	85	135	168
Semi-detached	214	328	229	357	290	377	385	275	345	376	348
Terrace	442	231	183	481	365	674	365	457	625	882	1,227
Flats	1,453	2,510	1,880	3,902	4,595	6,150	4,312	1,393	650	575	672
Condominium	7	7	60	18	47	8	2	13	-	1,773	1,193
Others										-	-

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, 1980-1990

Number

End of Year	Residential								Shops ¹
	Total	1-room	2-room	3-room	4-room	5-room	Executive	HUDC	
1980	372,640	69,230	48,633	176,003	55,719	20,459	-	2,596	14,139
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

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, 1980-1990

Year	Flats Constructed ¹	Flats Sold Under 'Home Ownership Scheme' ¹	Percentage of Population Living in Public Flats (End of Period)
	Number		
1980	18,421	23,234	73
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

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.

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

8.18 CONTRACTS AWARDED AND PROGRESS PAYMENTS CERTIFIED, 1981-1990

Million Dollars

Period	Contracts Awarded			Progress Payments Certified		
	Total	Public	Private	Total	Public	Private
1981	6,638.8	3,829.4	2,809.4	4,171.7	2,480.1	1,691.6
1982	9,222.5	4,683.5	4,539.0	6,157.8	3,630.9	2,526.9
1983	9,609.9	5,458.9	4,151.0	8,193.3	4,926.3	3,267.0
1984	6,962.6	5,469.1	1,493.5	8,503.2	5,136.9	3,366.3
1985	4,836.4	4,152.4	684.0	6,647.3	4,311.6	2,335.7
1986	3,897.7	3,512.6	385.1	5,422.0	4,248.1	1,173.9
1987	4,040.2	2,775.7	1,264.5	4,677.8	3,752.2	925.6
1988	3,390.7	1,804.2	1,586.5	3,942.0	2,650.5	1,291.5
1989	5,500.6	2,810.7	2,689.9	4,314.3	2,327.0	1,987.3
1990*	7,740.7	3,687.1	4,053.6	4,800.2	2,496.1	2,304.1

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

9 COMMERCE AND SERVICES

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 full coverage. From 1976, they were sample surveys, except for the years 1983 and 1984, where censuses of commerce and services were respectively taken. 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.

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, 1983-1988

Year	Establishments	Employment	Remuneration	Turnover	Operating Expenditure ¹	Operating Surplus ¹	Value Added ¹	
	Number		Million Dollars					
	Total							
	1983	39,126	226,717	2,789	77,166	74,582	2,943	5,929
	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
	Wholesale Trade							
	1983	20,103	115,149	1,871	65,024	63,162	2,101	4,068
	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
	Retail Trade							
	1983	16,029	66,096	465	10,020	9,571	503	995
	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	13,819	804	1,510
	Restaurants and Hotels							
1983	2,994	45,472	453	2,123	1,849	340	867	
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	

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

¹ Data on operating expenditure, operating surplus and value added wef 1985 were in accordance with the latest concepts used in the UN National Accounts System. For comparability, data prior to 1985 were correspondingly revised.

9.2 SELECTED AVERAGES AND RATIOS IN THE COMMERCE SECTOR, 1983-1988

Year	Turnover	Operating Surplus ¹	Value Added ¹	Value Added ¹ Per Person Engaged	Operating Surplus ¹ to Turnover	Remuneration to Operating Expenditure ¹	Remuneration to Value Added ¹
	Per Establishment						
	Thousand Dollars						
					Per Cent		
Total							
1983	1,972	75	152	26	3.8	3.7	47.0
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
Wholesale Trade							
1983	3,235	105	202	35	3.2	3.0	46.0
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
Retail Trade							
1983	625	31	62	15	5.0	4.9	46.8
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
Restaurants & Hotels							
1983	709	113	290	19	16.0	24.4	52.2
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

¹ See note to Table 9.1

9.3 PRINCIPAL STATISTICS OF THE SERVICES SECTOR BY INDUSTRY, 1984-1988

Year	Establishments	Employment	Remuneration	Operating Receipts	Operating Expenditure ¹	Operating Surplus ¹	Value Added ¹	
	Number		Million Dollars					
	Transport, Storage and Communication Services							
	1984	5,941	87,506	1,771	11,342	9,789	2,386	4,334
	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
	Financial and Insurance Services ²							
	1984	3,341	37,599	1,159	44,705	40,053	4,859	4,006
	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
	Real Estate and Business Services							
	1984	8,559	69,342	1,481	13,465	12,650	2,643	4,612
	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
	Community, Social and Personal Services							
	1984	8,123	44,567	443	1,690	1,438	309	800
	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
	Non-profit Organisations ³							
	1984	4,598	30,147	710	285	1,189	36	756
	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

¹ See note to Table 9.1.

² Wef 1986, data exclude establishments within the purview of Monetary Authority of Singapore (MAS).

³ Wef 1987, data exclude mutual benefit organisations, citizens' consultative committees & residents' committees.

9.4 SELECTED AVERAGES AND RATIOS IN THE SERVICES SECTOR, 1984-1988
(Excluding Non-Profit Organisations)

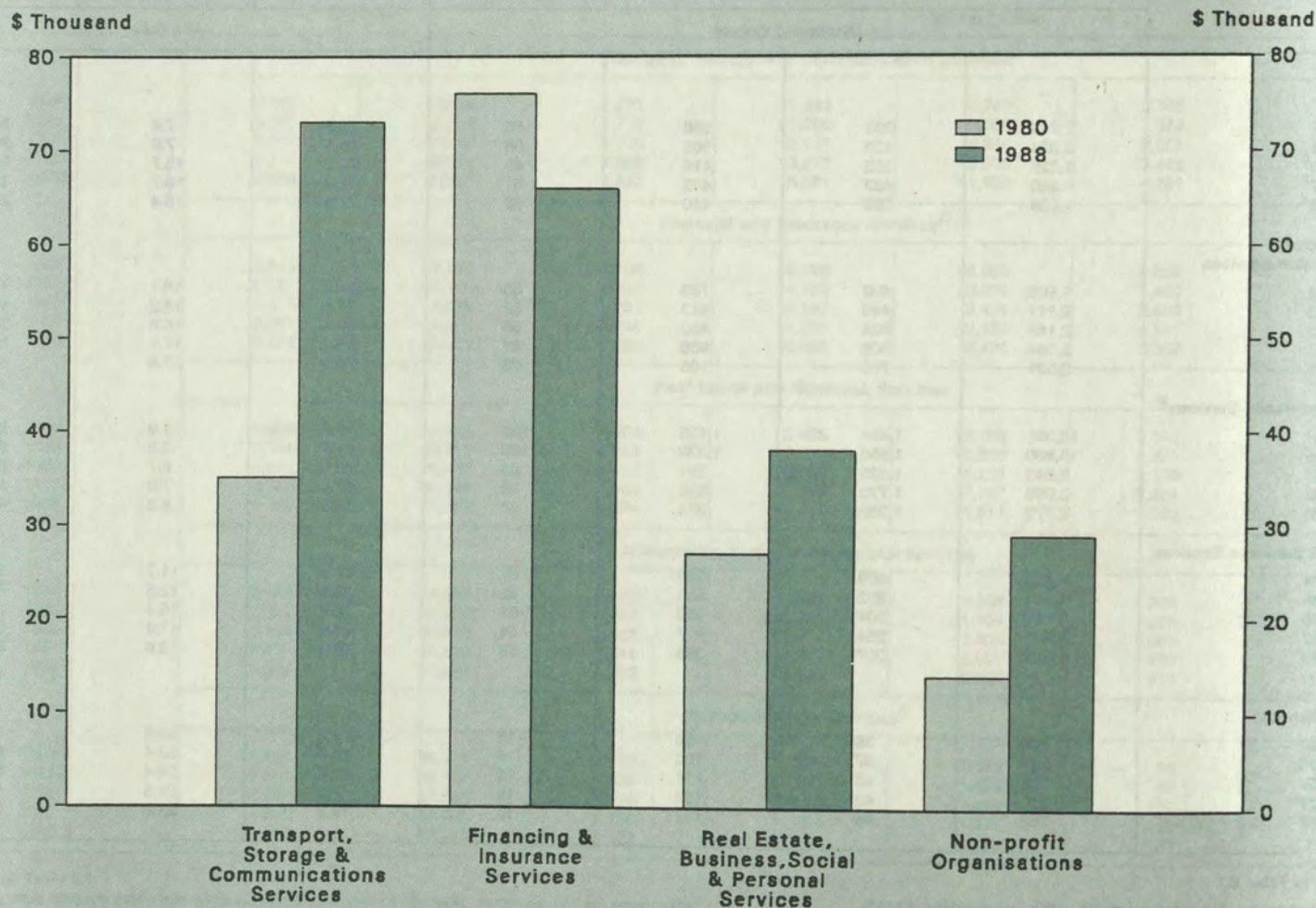
Year	Operating Receipts	Operating Surplus ¹	Value Added ¹	Value Added ¹	Operating Surplus ¹	Remuneration	Remuneration
	Per Establishment			Per Person	to	to Operating	to
	Thousand Dollars				Engaged	Operating Receipts	Expenditure ¹
Per Cent							
Total							
1984	2,742	393	530	58	14.3	7.6	35.3
1985	2,924	423	569	58	14.5	7.9	36.3
1986 ²	1,225	352	419	49	28.7	15.7	35.0
1987 ²	1,260	402	433	51	31.9	16.7	35.1
1988 ²	1,364	368	440	53	27.0	15.4	36.8
Transport, Storage & Communication Services							
1984	1,909	402	730	50	21.0	18.1	40.9
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
Financial & Insurance Services ²							
1984	13,381	1,454	1,199	107	10.9	2.9	28.9
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
Real Estate & Business Services							
1984	1,573	309	539	67	19.6	11.7	32.1
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
Community, Social & Personal Services							
1984	208	38	98	18	18.3	30.8	55.4
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

¹ See note to Table 9.1.

² Wef 1986, data exclude establishments within the purview of MAS.

CHART 10

VALUE ADDED PER PERSON ENGAGED IN THE SERVICES SECTOR, 1980 AND 1988



10 EXTERNAL TRADE

The 'General' system of external trade statistics compiled by the Department of Statistics from the same sources as those used in the 'Detailed' system is shown in table 10.1. It is based on the same sources as those used in the 'Detailed' system and is intended to provide a summary of the total external trade of Singapore.

Prior to April 1987, external trade statistics were compiled by the Department of Statistics from the same sources as those used in the 'Detailed' system and are shown in table 10.2. It is based on the same sources as those used in the 'Detailed' system and is intended to provide a summary of the total external trade of Singapore.

Customs and Excise Statistics are compiled by the Customs and Excise Department and are shown in table 10.3. It is based on the same sources as those used in the 'Detailed' system and is intended to provide a summary of the total external trade of Singapore.

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 declarations 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 ongoing 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, 1980-1990

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
At Current Prices											
Total Trade	92,797.1	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
Exports	41,452.3	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
Oil	14,533.7	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
Non-oil	26,918.6	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
Domestic Exports	25,805.2	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
Oil	14,180.2	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
Non-oil	11,625.0	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
Re-exports	15,647.1	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
Imports	51,344.8	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
Oil	14,889.2	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
Non-oil	36,455.6	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
At 1985 Prices											
Total Trade	86,901.8	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	216,018.5
Exports	37,959.4	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
Oil	12,382.9	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
Non-oil	25,576.4	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
Domestic Exports	24,198.0	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	73,408.3
Oil	12,040.5	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
Non-oil	12,157.4	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	49,318.0
Re-exports	13,761.4	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	30,618.4
Imports	48,942.5	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	111,991.8
Oil	14,485.9	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	25,866.3
Non-oil	34,456.5	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	86,125.5

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, 1980-1990

Million Dollars

Country/Area	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	92,797.1	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
America	14,572.2	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
Brazil	330.2	250.7	306.5	250.5	331.5	301.7	286.5	382.7	690.7	696.0	667.8
Canada	555.9	665.1	505.1	564.3	703.6	553.3	590.5	839.3	1,252.4	1,289.7	1,466.3
United States ¹	12,509.2	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
Asia	57,456.6	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
Bahrain	735.7	746.5	981.1	577.3	528.3	276.5	459.1	579.3	553.2	470.0	523.7
Bangladesh	576.7	625.9	589.7	538.3	617.0	716.7	535.6	550.4	659.2	673.0	797.1
Brunei	1,016.0	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
China, Peo Rep	1,990.0	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
Hong Kong	4,251.0	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
India	1,208.1	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
Iran (Islamic Rep)	674.6	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
Japan	12,500.7	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
Korea, Rep of	1,206.6	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
Kuwait	3,026.3	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
Malaysia	13,333.6	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
Pakistan	534.2	373.9	311.8	306.4	516.2	593.3	308.2	359.0	413.9	460.0	655.1
Philippines	746.3	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
Saudi Arabia	7,236.9	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
Sri Lanka	371.8	412.3	678.5	658.1	405.1	519.6	414.4	460.2	555.0	507.6	460.3
Taiwan	1,918.3	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	8,099.3
Thailand	2,828.3	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
United Arab Emirates	1,090.6	1,623.1	1,165.5	1,345.5	1,849.6	1,984.3	1,078.5	1,566.5	1,797.4	2,369.6	3,485.6
Europe	13,652.9	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
France	1,605.1	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
Germany, Fed Rep ²	2,924.1	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
Italy	1,017.2	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
Netherlands	1,304.8	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
Switzerland	554.1	496.7	515.0	555.4	555.2	516.3	641.7	852.4	1,188.0	1,263.8	1,724.0
United Kingdom	2,840.4	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
USSR	558.1	440.1	640.3	477.8	846.6	560.6	362.1	477.5	445.9	628.8	769.8
Oceania	4,667.7	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
Australia ³	2,865.2	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
New Zealand	939.1	794.8	891.8	607.1	621.9	857.7	543.5	460.1	576.2	528.8	616.2
Africa	2,447.7	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

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, 1980-1990

Million Dollars

Country/Area	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	51,344.8	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
America	7,947.3	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
Brazil	168.2	131.4	212.8	147.8	186.4	163.6	143.2	225.3	464.0	510.7	538.6
Canada	272.9	276.7	220.2	219.2	318.2	195.4	225.0	355.3	536.1	515.3	648.5
United States ¹	7,237.2	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
Asia	34,458.7	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
Bahrain	667.3	675.3	900.4	499.5	455.4	197.4	410.7	520.3	487.2	413.1	480.9
Bangladesh	42.8	30.4	21.4	17.1	43.1	52.1	29.3	90.0	92.9	80.0	83.3
Brunei	424.2	691.1	477.6	404.4	415.4	536.6	298.1	276.6	225.1	146.2	233.8
China, Peo Rep	1,332.1	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
Hong Kong	1,055.1	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
India	246.4	280.7	408.2	733.5	470.4	488.8	348.5	525.5	534.1	591.7	676.8
Iran (Islamic Rep)	473.7	753.4	1,931.1	1,208.3	733.0	2,474.5	2,062.6	973.2	803.7	789.1	842.1
Japan	9,162.4	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
Korea, Rep of	584.7	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
Kuwait	2,838.6	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
Malaysia	7,115.6	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
Pakistan	91.5	125.3	94.2	120.8	60.9	60.3	78.1	82.9	89.3	122.5	153.7
Philippines	160.2	226.7	218.9	271.3	395.0	437.4	401.6	375.6	528.9	530.9	567.4
Saudi Arabia	6,412.3	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
Sri Lanka	37.6	53.2	254.4	155.9	28.9	94.8	35.8	61.3	71.7	61.8	58.5
Taiwan	1,216.3	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	4,677.5
Thailand	1,019.0	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
United Arab Emirates	484.4	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
Europe	7,020.1	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
France	699.0	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
Germany, Fed Rep ²	1,677.1	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
Italy	484.2	543.0	589.5	766.6	905.5	832.9	740.3	921.4	1,317.2	1,574.4	1,733.0
Netherlands	520.8	462.6	452.1	507.2	492.7	550.9	499.8	513.2	687.3	911.8	965.7
Switzerland	428.4	378.3	418.1	433.5	433.7	397.8	506.1	649.2	928.1	1,003.4	1,284.9
United Kingdom	1,771.2	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
USSR	51.2	96.8	175.6	98.3	86.4	28.9	78.4	84.0	185.6	251.7	172.7
Oceania	1,386.7	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
Australia ³	1,165.6	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
New Zealand	188.8	225.1	221.4	180.7	221.7	264.1	202.3	221.6	305.1	218.9	247.7
Africa	532.0	598.2	821.3	692.9	414.3	544.7	610.2	468.5	641.3	890.4	774.5

Note : See note to Table 10.2

Source : Trade Development Board
with effect from April 1987

10.4 EXPORTS BY COUNTRY/AREA, 1980-1990

Million Dollars

Country/Area	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	41,452.3	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
America	6,624.9	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
Brazil	162.0	119.3	93.7	102.7	145.1	138.1	143.3	157.4	226.7	185.3	129.2
Canada	283.0	388.4	284.9	345.1	385.4	357.9	365.5	484.0	716.3	774.4	817.8
United States ¹	5,272.0	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
Asia	22,997.9	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
Bahrain	68.4	71.2	80.7	77.8	72.9	79.1	48.4	59.0	66.0	56.9	42.8
Bangladesh	533.9	595.5	568.3	521.2	573.9	664.6	506.3	460.4	566.3	593.0	713.8
Brunei	591.8	682.6	769.1	746.0	627.1	638.1	683.6	707.5	833.1	902.9	977.6
China, Peo Rep	657.9	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
Hong Kong	3,195.9	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
India	961.7	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
Iran (Islamic Rep)	200.9	208.4	549.8	821.6	724.8	873.7	763.8	152.7	216.2	168.9	216.1
Japan	3,338.3	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
Korea, Rep of	621.9	621.5	678.4	964.6	814.2	619.5	703.0	995.1	1,551.8	1,685.0	2,108.1
Kuwait	187.7	253.5	220.7	142.0	309.8	268.4	84.9	122.7	173.1	178.6	97.5
Malaysia	6,218.0	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
Pakistan	442.7	248.6	217.6	185.6	455.3	533.0	230.1	276.1	324.6	337.5	501.4
Philippines	586.1	580.7	692.1	889.7	441.0	478.6	539.3	877.3	1,044.5	1,294.4	1,215.1
Saudi Arabia	824.6	1,064.6	1,275.5	974.7	1,363.5	588.5	483.5	578.7	555.6	476.1	499.6
Sri Lanka	334.2	359.1	424.1	502.2	376.2	424.8	378.6	398.9	483.3	445.8	401.8
Taiwan	702.0	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
Thailand	1,809.3	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
United Arab Emirates	606.2	723.6	355.6	426.9	446.4	437.2	391.0	437.9	523.3	618.7	808.3
Europe	6,632.8	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
France	906.1	796.4	671.2	662.0	637.6	764.0	713.6	920.4	1,312.3	1,369.4	1,556.0
Germany, Fed Rep ²	1,247.0	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
Italy	533.0	414.4	361.6	444.0	531.5	545.8	498.9	695.5	1,142.6	1,173.4	1,260.1
Netherlands	784.0	732.3	759.2	536.7	628.6	638.5	747.8	1,114.4	1,357.4	1,400.2	2,032.6
Switzerland	125.7	118.4	96.9	121.9	121.5	118.5	135.6	203.2	259.9	260.4	439.1
United Kingdom	1,069.2	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
USSR	506.9	343.3	464.7	379.5	760.2	531.7	283.7	393.5	260.3	377.1	597.1
Oceania	3,281.0	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
Australia ³	1,699.6	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
New Zealand	750.3	569.7	670.4	426.4	400.2	593.6	341.2	238.5	271.1	309.9	368.5
Africa	1,915.7	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

Note : See note to Table 10.2.

Source : Trade Development Board
with effect from April 1987

10.5 DOMESTIC EXPORTS BY COUNTRY/AREA, 1980-1990

Million Dollars

Country/Area	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	25,805.2	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
America	4,496.9	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
Brazil	26.4	21.0	40.1	39.8	60.6	65.2	49.7	39.2	36.6	56.7	41.6
Canada	134.3	164.1	134.6	187.9	207.3	208.6	246.6	339.2	545.7	564.6	573.0
United States ¹	3,894.1	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
Asia	13,704.7	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
Bahrain	49.0	40.8	43.3	39.1	34.1	44.3	25.7	39.2	42.7	31.3	24.3
Bangladesh	356.6	446.1	454.7	226.2	416.4	485.7	311.0	273.3	229.1	201.4	409.4
Brunei	268.5	283.3	315.1	281.7	215.9	226.7	235.4	237.0	261.7	262.8	299.7
China, Peo Rep	238.2	114.1	117.6	117.6	194.4	398.8	858.4	1,058.7	1,350.8	1,536.9	867.3
Hong Kong	2,659.4	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
India	676.3	881.3	840.5	573.6	1,042.8	667.6	527.9	580.9	652.2	740.3	819.6
Iran (Islamic Rep)	60.7	93.6	505.0	719.5	614.0	742.1	696.7	82.0	134.7	60.9	61.5
Japan	2,877.4	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
Korea, Rep of	292.1	343.3	449.5	711.2	547.2	371.7	427.4	641.7	939.7	992.9	1,298.6
Kuwait	100.4	188.2	123.0	87.8	99.4	62.6	51.3	73.9	112.0	107.6	51.0
Malaysia	2,254.3	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
Pakistan	126.8	81.7	64.2	63.7	86.4	82.4	89.5	114.1	117.6	118.9	281.5
Philippines	340.8	292.4	411.6	609.9	217.4	268.7	316.0	492.5	492.1	646.8	675.3
Saudi Arabia	467.7	532.6	510.0	560.0	408.5	300.7	257.6	302.4	268.4	232.2	277.3
Sri Lanka	193.1	180.6	251.0	290.4	145.4	183.5	107.0	138.6	158.2	169.4	130.6
Taiwan	387.2	324.2	293.6	330.5	462.6	513.4	655.6	976.9	1,224.2	1,567.4	2,313.8
Thailand	1,307.6	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
United Arab Emirates	438.4	539.0	179.4	175.7	211.3	222.9	184.2	240.8	265.6	290.5	389.3
Europe	3,888.7	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
France	489.6	540.3	501.9	466.8	418.8	387.0	447.3	624.9	952.7	1,005.6	1,180.8
Germany, Fed Rep ²	942.0	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
Italy	320.8	269.2	254.4	344.3	444.8	456.1	371.8	516.1	914.0	933.9	998.5
Netherlands	454.4	410.5	516.8	239.1	253.8	370.7	346.2	698.1	812.7	770.5	1,320.4
Switzerland	87.1	78.1	70.8	86.6	76.3	73.5	80.8	93.8	145.6	127.6	268.1
United Kingdom	690.1	752.8	648.1	750.8	1,057.5	1,026.7	853.6	1,147.1	1,661.2	2,054.5	2,254.4
USSR	101.8	92.6	143.2	180.2	514.6	328.2	153.9	147.4	180.3	175.4	304.8
Oceania	2,831.3	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	2,644.0
Australia ³	1,360.9	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
New Zealand	683.6	486.0	579.3	337.4	323.4	510.6	268.1	149.6	153.9	185.7	208.6
Africa	883.6	1,152.5	1,067.4	969.0	990.0	753.6	763.9	732.3	821.8	794.8	1,013.9

Note : See note to Table 10.2.

Source : Trade Development Board
with effect from April 1987

10.6 IMPORTS BY COMMODITY, 1980-1990

Million Dollars

Commodity	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
TOTAL	51,344.8	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
Food	2,915.5	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
Cereals & Cereal Preparations	694.3	754.0	823.4	636.7	980.5	428.1	384.5	362.4	508.9	525.9	447.6
Fruits & Vegetables	674.1	792.2	805.0	857.7	913.9	899.1	927.8	971.0	1,150.7	1,077.1	1,102.0
Coffee & Spices	388.7	464.8	592.4	660.2	808.7	882.6	1,047.7	830.6	791.1	637.4	637.7
Beverages & Tobacco	276.0	282.2	339.5	416.2	460.6	501.0	541.5	595.0	730.1	1,013.2	1,425.5
Crude Materials	3,416.9	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
Rubber	2,163.5	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
Wood	423.6	388.0	360.4	353.1	296.1	249.4	272.1	294.6	311.3	341.7	353.0
Mineral Fuels	14,889.2	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
Petroleum & Petroleum Products	14,879.5	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
Animal & Vegetable Oils	1,001.0	721.8	671.5	632.1	1,435.9	1,380.5	720.3	791.8	941.0	924.1	753.0
Unprocessed Vegetable Oils	239.6	226.9	114.2	202.0	440.9	293.9	166.9	299.0	351.4	431.6	403.1
Chemicals	2,686.7	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
Chemical Compounds	715.7	753.0	723.5	821.2	859.1	772.0	879.7	1,079.4	1,545.9	1,583.1	1,780.0
Plastic Materials	648.2	643.3	687.0	808.1	829.3	721.3	846.0	1,275.9	1,999.9	1,423.8	1,485.3
Medicinal Products	206.8	203.6	210.7	207.0	222.2	239.0	284.6	314.2	367.2	384.0	360.9
Manufactured Goods by Material	7,237.2	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
Textile Manufactures	1,835.6	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
Non-metal Mineral Manufactures	904.2	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
Iron & Steel	1,854.6	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
Metal Manufactures	1,072.2	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
Paper & Paperboard & Related Articles	502.9	532.8	501.7	556.4	647.7	575.4	684.9	886.2	1,134.4	1,151.9	1,253.4
Machinery & Transport Equipment	15,303.8	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
Non-electric Machinery	5,720.7	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
Electric Machinery	6,051.7	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
Transport Equipment	3,531.3	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
Miscellaneous Manufactured Articles	2,951.1	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
Scientific & Optical Instruments	797.1	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
Watches & Clocks	576.3	541.9	550.4	537.6	475.6	424.7	475.7	596.3	779.2	874.0	1,170.5
Miscellaneous Transactions nes	667.4	643.2	576.3	651.1	850.2	898.0	991.2	1,077.5	1,367.0	1,544.6	1,419.6

Source : Trade Development Board
with effect from April 1987

10.7 EXPORTS BY COMMODITY, 1980-1990

Million Dollars

Commodity	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
TOTAL	41,452.3	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
Food	2,008.2	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
Cereals & Cereal Preparations	357.5	449.5	609.7	274.7	839.1	186.5	142.7	167.4	250.6	254.1	188.0
Fruits & Vegetables	252.8	303.2	320.9	342.9	375.9	366.2	340.8	364.4	411.5	389.8	387.6
Coffee & Spices	627.4	659.2	745.5	720.3	960.7	988.2	1,350.1	1,148.4	1,290.4	969.5	777.9
Beverages & Tobacco	157.2	174.3	217.0	210.0	209.8	240.8	332.1	387.2	552.8	886.3	1,387.8
Crude Materials	4,700.0	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
Rubber	3,294.1	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
Wood	585.0	426.4	378.4	398.8	365.0	327.9	380.4	510.3	563.4	705.1	491.1
Mineral Fuels¹	14,533.7	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
Petroleum & Petroleum Products	11,828.0	13,980.6	14,437.3	12,761.9	12,992.3	13,456.1	10,038.9	9,649.9	10,008.5	13,333.1	17,156.5
Animal & Vegetable Oils	1,095.5	820.0	780.3	628.2	1,540.5	1,535.2	880.4	795.9	885.5	1,016.1	760.7
Unprocessed Vegetable Oils	840.6	581.7	560.9	451.5	1,115.7	1,128.1	336.2	362.5	454.9	449.7	349.2
Chemicals	1,418.5	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
Chemical Compounds	282.6	346.0	380.5	547.2	882.4	917.6	985.5	1,253.3	1,669.7	1,921.1	2,109.0
Medicinal Products	323.3	319.2	342.8	329.8	259.8	294.1	294.1	305.2	349.2	360.2	378.1
Plastic Materials	220.6	220.5	243.4	263.2	486.3	680.1	732.5	1,174.7	1,846.0	1,484.7	1,451.0
Manufactured Goods by Material	3,441.7	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
Wood Manufactures	549.2	539.3	495.9	536.4	481.0	484.3	447.3	590.5	750.1	597.3	486.6
Textile Manufactures	793.2	737.0	745.6	810.2	781.1	776.9	929.4	1,330.3	1,386.5	1,544.8	1,630.8
Iron & Steel	454.3	586.3	707.5	411.2	461.5	457.8	433.1	471.8	721.0	861.5	789.9
Metal Manufactures	450.7	578.5	516.9	509.6	530.3	570.6	561.1	626.6	857.3	1,025.9	1,215.3
Machinery & Transport Equipment	11,089.4	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
Non-electric Machinery	2,662.8	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
Electric Machinery	6,656.6	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
Transport Equipment	1,770.0	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
Miscellaneous Manufactured Articles	2,572.4	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
Clothing	912.8	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
Scientific & Optical Instruments	410.0	481.7	414.6	510.0	594.1	660.4	755.1	1,045.1	1,558.3	1,730.0	1,950.3
Watches & Clocks	221.8	250.9	232.9	246.2	230.2	200.9	206.8	226.5	317.4	400.8	508.5
Miscellaneous Transactions nes	435.7	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 Include oil bunkers.

Source : Trade Development Board
with effect from April 1987

10.8 DOMESTIC EXPORTS BY COMMODITY, 1980-1990

Million Dollars

Commodity	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
TOTAL	25,805.2	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
Food	600.6	536.7	449.5	469.1	483.9	478.1	602.3	731.3	904.7	1,034.7	958.0
Animal Feeding Stuffs	83.6	57.6	42.6	38.6	46.9	36.3	40.5	36.6	48.9	46.7	37.7
Beverages & Tobacco	102.7	116.2	134.1	114.7	102.4	103.4	121.6	177.2	249.1	319.7	386.1
Crude Materials¹	152.3	140.0	125.3	179.6	172.3	189.7	246.6	343.7	468.5	516.2	460.1
Mineral Fuels²	14,180.2	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
Oil Bunkers	2,568.0	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
Animal & Vegetable Oils	393.7	470.3	482.6	401.9	670.1	629.7	666.7	605.4	610.6	768.5	587.0
Chemicals	572.9	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
Medicinal Products	258.2	237.4	260.3	241.3	172.1	207.0	199.4	199.4	222.9	224.9	251.3
Plastic Materials	99.6	100.6	108.5	106.5	325.9	522.4	549.5	864.2	1,305.9	967.0	957.7
Manufactured Goods by Material	1,322.7	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
Wood Products excluding Furniture	414.3	363.6	289.5	286.5	251.7	228.8	169.3	190.3	242.6	207.2	195.0
Textile Yarn Thread	137.9	96.7	76.1	68.4	58.0	43.0	50.7	69.8	73.8	67.8	78.9
Woven Textile Fabrics	124.2	119.1	104.6	68.5	48.9	36.2	47.1	63.3	84.8	108.7	114.3
Lime, Cement & Fabricated Construction Materials	75.7	79.8	71.0	48.9	84.2	62.7	14.7	21.9	21.6	26.6	46.7
Iron & Steel Pipes & Fittings	35.8	47.8	67.7	32.8	38.7	59.4	71.6	58.5	84.9	92.5	87.3
Machinery & Transport Equipment	6,566.6	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
Office Machines	263.7	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
Other Non-electric Machines	158.8	357.1	434.5	490.7	579.6	581.6	680.6	803.7	1,122.0	1,363.4	1,292.2
Electric Generators	330.2	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	1,282.3
Telecommunications Apparatus	1,976.9	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
Other Electric Machinery	2,387.8	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
Ships, Boats & Oil Rigs	587.7	965.9	764.7	982.7	633.5	102.8	109.0	194.8	375.7	230.7	303.3
Miscellaneous Manufactured Articles	1,886.5	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
Clothing	757.3	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
Scientific & Optical Instruments	236.6	238.6	166.2	209.3	256.0	291.1	359.9	522.6	738.6	645.4	725.8
Watches & Clocks	143.5	175.2	150.1	157.2	131.7	103.4	103.5	93.4	131.3	155.0	183.8
Printed Matters	90.5	115.2	110.6	112.0	120.2	136.9	188.1	256.7	314.0	378.9	438.8
Toys & Games	147.9	175.4	151.5	138.7	185.5	200.5	258.5	440.4	446.5	382.1	351.3
Miscellaneous Transactions nes	27.1	33.2	31.8	38.5	149.6	164.8	241.2	265.1	288.4	259.3	262.5

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, 1980-1990

Million Dollars

Year	Meat	Rice	Unmilled Cereals	Fruits & Nuts	Spices	Animal Feed	Crude Rubber	Sawn Timber	Crude Petroleum
1980	208.9	169.2	408.0	269.7	172.2	238.7	2,151.3	339.5	12,153.6
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

10.9 IMPORTS OF SPECIFIC COMMODITIES, 1980-1990 (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
1980	2,725.9	239.6	206.8	414.6	207.0	1,228.4	1,037.5	591.4	1,517.2
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

10.9 IMPORTS OF SPECIFIC COMMODITIES, 1980-1990 (continued)

Million Dollars

Year	Industrial Machinery	Telecommunications Apparatus	Office Machines	Motor Vehicles	Ships, Boats & Oil Rigs	Clothing	Scientific & Optical Instruments	Watches & Clocks	Toys & Games
1980	1,617.3	1,478.7	490.3	1,268.3	1,114.7	303.3	797.1	576.3	202.8
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

Source : Trade Development Board
with effect from April 1987

10.10 EXPORTS OF SPECIFIC COMMODITIES, 1980-1990

Million Dollars

Year	Spices	Coffee	Animal Feed	Crude Rubber	Sawn Timber	Petroleum Products	Fixed Vegetable Oils	Medicinal Products	Manufactured Fertilizers
1980	252.3	194.4	206.0	3,292.1	568.9	11,810.0	840.6	323.3	197.5
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	13,333.1	449.7	360.2	56.5
1990	248.6	127.0	75.5	1,405.3	449.7	17,156.4	349.2	378.1	52.1

10.10 EXPORTS OF SPECIFIC COMMODITIES, 1980-1990 (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
1980	212.0	548.2	198.9	466.5	252.5	170.0	763.1	341.3	799.8
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

10.10 EXPORTS OF SPECIFIC COMMODITIES, 1980-1990 (continued)

Million Dollars

Year	Telecommunications Apparatus	Household Equipment	Motor Vehicles	Ships, Boats & Oil Rigs	Furniture	Clothing	Scientific & Optical Instruments	Watches & Clocks	Printed Matters
1980	2,718.0	243.0	490.3	931.1	138.2	912.8	410.0	221.8	129.8
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

Source : Trade Development Board
with effect from April 1987

CHART 11

EXTERNAL TRADE AND TRADE BALANCE, 1980-1990

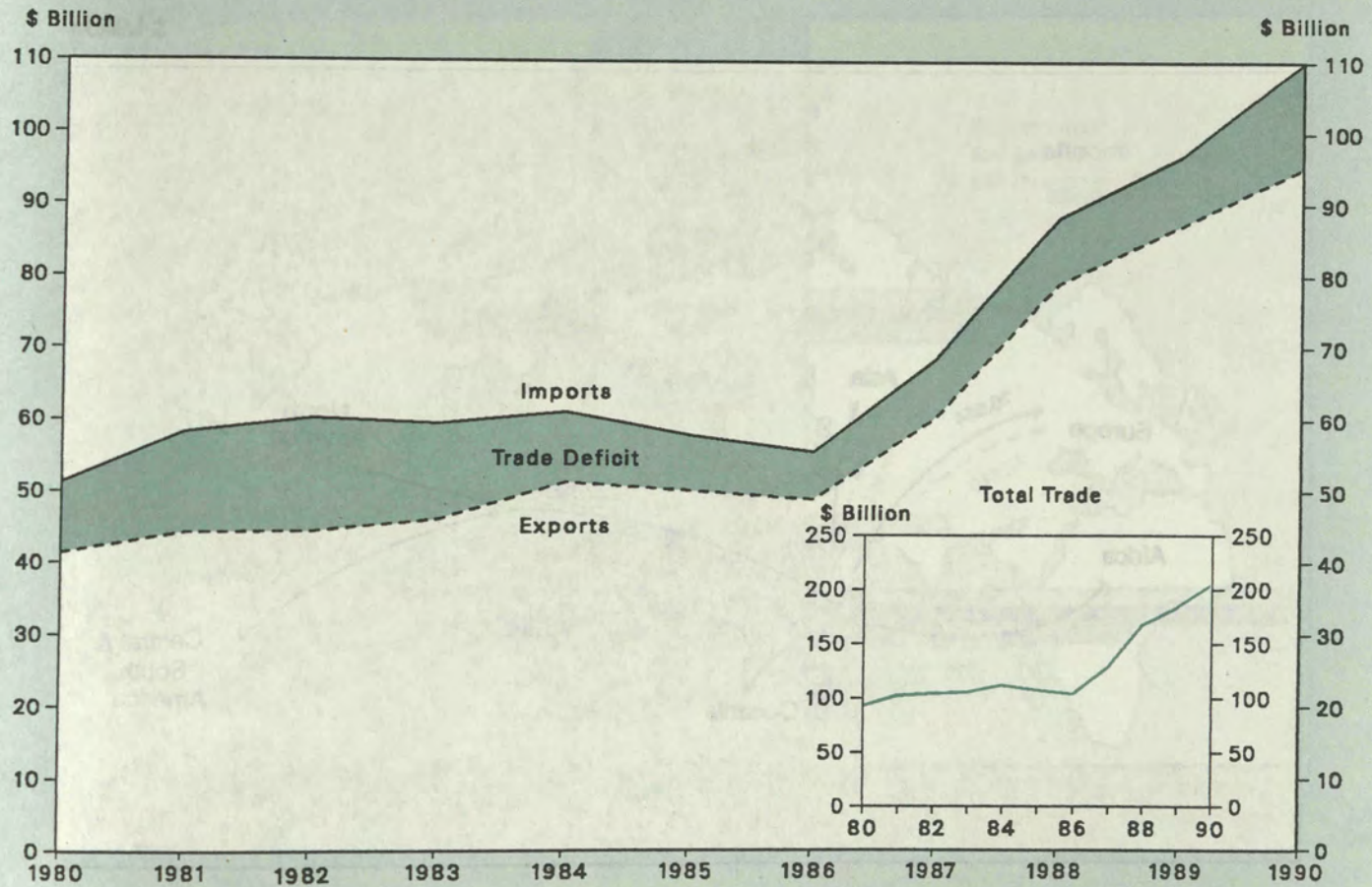


CHART 12

TRADE WITH MAJOR REGIONS, 1990

\$ Million

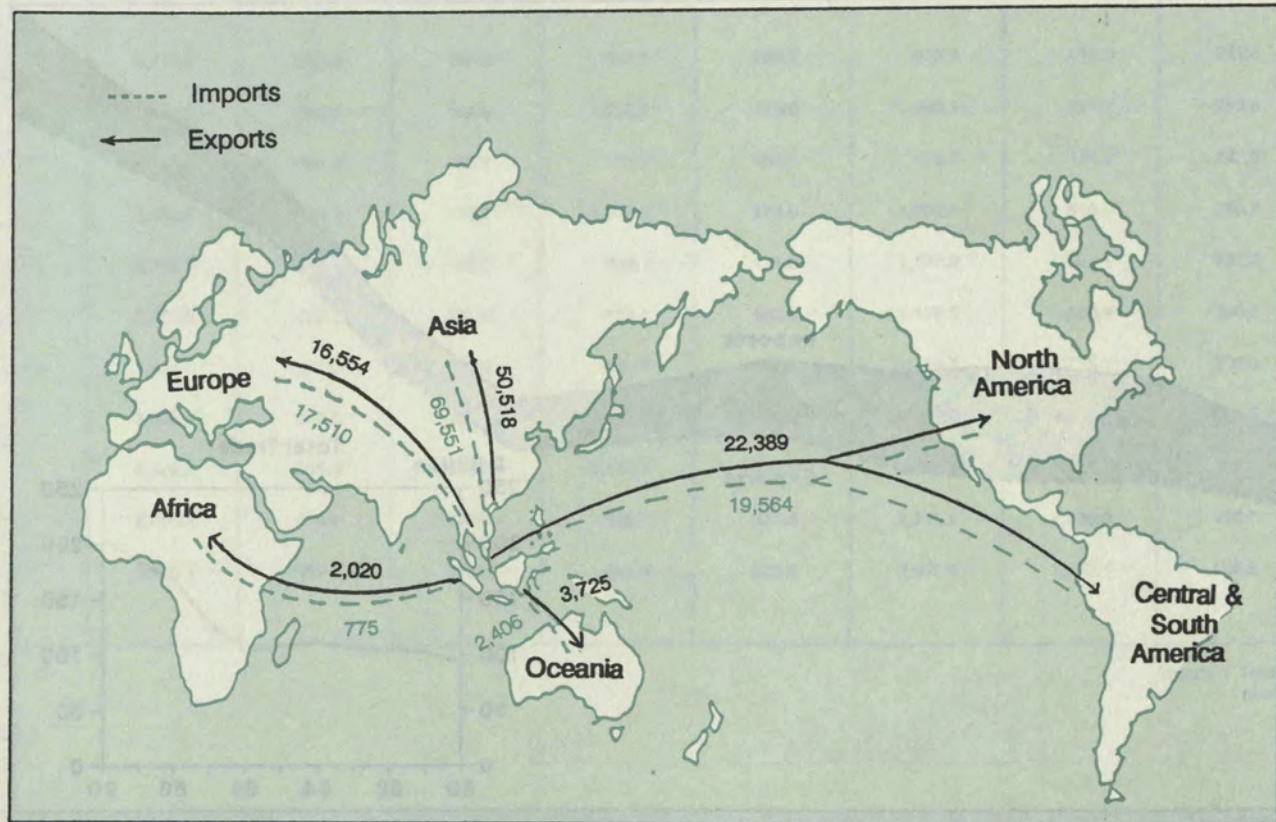
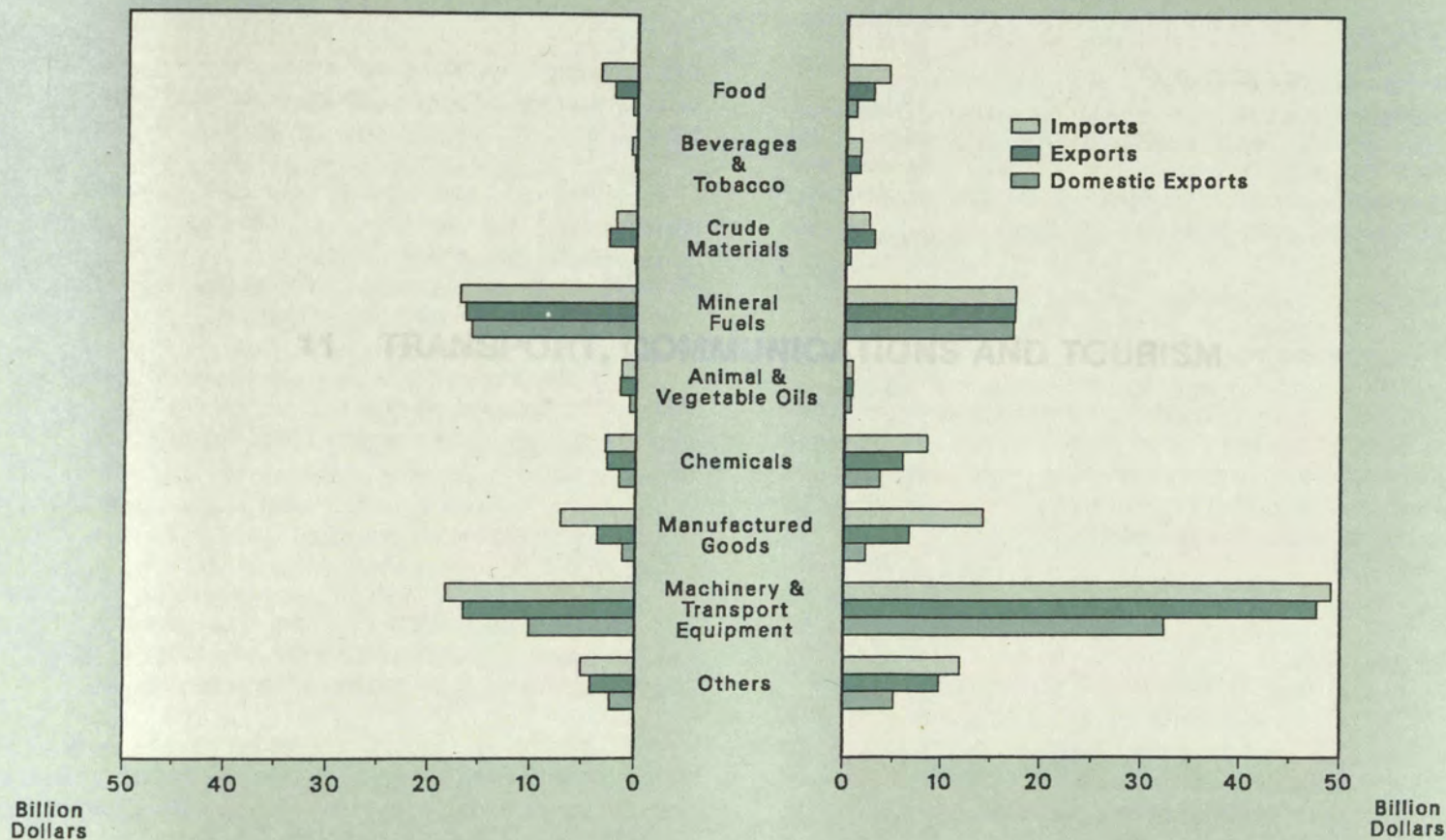


CHART 13

TRADE BY COMMODITY, 1985 AND 1990

1985

1990



11 TRANSPORT, COMMUNICATIONS AND TOURISM

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

Civil Air Traffic

sector. It provides air traffic services and air traffic control. It also provides air traffic services and air traffic control.

supplied as bunker fuel to vessels.

transitment cargo but exclude ship's stores and rigging of private wharves and anchorages. The data include vessels of all tonnage at all ports of Singapore including

Volume of cargo handled: Figures are provided by

the most limited of year figures for the following:

See Cargo handled

with special reference to the following: (a) Singapore

Port of Call: It is necessary to note that

in number and gross registered tonnage

ships entering or leaving Singapore waters. The data are given

declarations submitted to the Port Master by all merchant

ships. Data on the movement of vessels are compiled from

ports and transshipment and intermediate callings

Local Port: These

ships' details

as they pass a radio altimeter beam and are

which gives almost an exact picture of the

11 TRANSPORT, COMMUNICATIONS AND TOURISM

the Singapore Monthly Report on Tourism Statistics and the visitor arrivals from major markets are available respectively in

all visitors arriving in Singapore at the point of entry.

Data on visitor arrivals are compiled from

visitors for a period of months with a view to

visitors and about their stay in Singapore.

CAAS collects and analyses visitor arrivals data

available in the Air Transport Statistics published by the

and control through Changi Airport and Seletar Aerodrome

Monthly statistics on passenger arrivals, departures and

the Singapore Monthly Report on Tourism Statistics and the

Statistics on aircraft movements are compiled by the Civil

Aviation Authority of Singapore (CAAS) and the

information and statistics published by the

Data on passenger arrivals and departures and

Statistics on aircraft movements are compiled by the Civil

Aviation Authority of Singapore (CAAS) and the

the Singapore Monthly Report on Tourism Statistics and the

Statistics on passenger arrivals and departures and

Statistics on aircraft movements are compiled by the Civil

Aviation Authority of Singapore (CAAS) and the

11 TRANSPORT, COMMUNICATIONS AND TOURISM

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, 1985-1990 (End of Period)

Tonnage Class (Gross Registered Tons)	1985		1986		1987		1988		1989		1990	
	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT
Total	1,406	6,622	1,265	7,262	1,229	7,247	1,243	7,328	1,359	8,134	1,565	8,872
Non-propelled or Below 100	727	475	614	407	562	377	588	395	665	470	795	601
100 & Above	679	6,147	651	6,855	667	6,870	655	6,933	694	7,664	770	8,271

Source : Marine Department

11.2 AGE DISTRIBUTION OF VESSELS REGISTERED IN SINGAPORE, DECEMBER 1990

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	523	2,731	409	2,287	294	2,151	249	1,334	74	345	11	17	5	7
Non-propelled or Below 100	408	333	227	148	96	75	55	39	4	3	3	2	2	-
100 to Below 500	40	8	69	17	49	14	61	17	18	6	3	1	-	-
500 to Below 1,000	4	3	17	12	20	16	37	32	8	7	2	2	1	1
1,000 to Below 5,000	13	29	24	54	31	90	39	105	23	59	2	5	2	6
5,000 to Below 10,000	6	44	10	84	33	260	21	155	12	96	1	7	-	-
10,000 & Above	52	2,314	62	1,972	65	1,696	36	986	9	174	-	-	-	-

Source : Marine Department

11.3 VESSELS LICENSED IN SINGAPORE, 1980-1990

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
1980	2,877	21	1,829	458	569	641	511	130
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

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, 1980-1990

Period	Arrivals		Departures	
	Number	'000 GRT	Number	'000 GRT
1980	27,077	237,730	26,984	236,349
1981	28,414	262,009	28,220	259,009
1982	30,575	277,018	30,398	277,093
1983	30,287	281,296	30,228	280,990
1984	28,727	264,101	28,715	263,355
1985	30,210	264,030	30,302	264,819
1986	33,352	324,625	33,298	323,305
1987	33,846	343,340	33,840	342,954
1988	35,966	396,389	35,925	394,286
1989	38,942	430,727	38,867	431,390
1990*	44,600	483,000	44,500	481,600

Note : Figures refer to vessels of capacity exceeding 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, 1985-1990

Flag	1985		1986		1987		1988		1989		1990*	
	Number	'000 GRT	Number	'000 GRT	Number	'000 GRT	Number	'000 GRT	Number	'000 GRT	Number	'000 GRT
All Flags	30,210	264,030	33,352	324,625	33,846	343,340	35,966	396,389	38,942	430,727	44,600	483,000
Bahamas	na	na	na	na	na	na	392	6,730	403	9,436	571	13,535
China	818	10,079	1,092	13,706	1,066	13,201	1,159	14,431	1,230	15,197	1,367	15,711
Cyprus	146	2,729	264	5,494	453	9,391	783	14,237	734	13,599	861	16,946
Denmark	387	8,667	403	10,142	374	10,079	341	8,804	508	10,335	634	12,669
France	137	6,181	74	3,865	62	3,662	84	5,519	104	5,372	87	5,152
Germany, Fed Rep	249	4,935	286	5,209	301	4,596	277	5,153	368	6,996	426	6,947
Greece	510	10,964	658	16,676	634	15,171	657	16,616	597	15,241	596	15,680
Honduras	889	611	269	351	317	370	875	589	1,526	837	2,031	956
Hong Kong	na	na	na	na	na	na	303	8,027	272	7,472	296	9,353
India	317	6,362	403	6,917	337	7,016	295	6,267	256	5,712	332	7,483
Italy	63	1,558	54	1,593	51	1,674	63	2,175	78	3,028	122	3,232
Japan	1,583	21,231	1,753	32,265	1,604	35,866	1,340	34,562	999	31,696	963	34,056
Korea Rep	803	6,855	732	7,145	527	5,696	405	5,749	378	6,409	362	7,512
Liberia	1,444	38,661	1,753	46,188	1,882	50,413	2,054	56,431	2,199	61,514	2,505	75,154
Netherlands	395	6,047	378	5,798	378	6,565	355	8,284	329	7,883	333	7,615
Norway	234	8,847	241	9,128	158	6,246	250	8,782	563	15,316	895	20,675
Panama	5,282	31,292	6,594	41,342	6,870	47,928	7,226	56,889	7,690	64,751	9,156	69,810
Poland	117	1,425	125	1,536	115	1,461	142	2,016	132	1,916	150	2,205
Singapore	4,651	14,647	5,028	18,294	4,821	21,847	4,860	26,262	5,276	29,664	6,798	34,614
Taiwan	246	5,318	290	6,595	357	7,928	451	11,664	536	13,469	507	12,817
Turkey	4	47	15	180	57	812	42	794	61	1,056	92	1,590
United Kingdom	621	15,622	653	18,692	296	10,183	167	6,014	186	6,909	176	6,714
United States	397	6,051	344	6,477	243	4,020	363	8,838	342	9,746	309	8,986

Note : See note to Table 11.4.

Source : Port of Singapore Authority

11.6 INWARD SEA CARGO HANDLED, 1980-1990

Thousand Freight Tonnes

Period	Total	General Cargo		Bulk Cargo	
		Containerised	Conventional	Oil	Others
1980	50,122.0	6,445.5	8,188.1	31,632.7	3,855.7
1981	54,936.2	7,460.0	8,169.8	35,179.2	4,127.2
1982	61,356.3	8,287.7	8,984.4	38,907.3	5,176.9
1983	65,882.6	10,130.3	10,393.9	40,269.9	5,088.5
1984	67,411.0	11,829.2	9,023.6	39,199.4	7,358.8
1985	62,086.2	12,410.6	6,723.0	38,430.0	4,522.6
1986	69,756.8	15,914.0	6,257.6	43,893.7	3,691.5
1987	75,779.7	19,145.1	6,736.9	46,198.9	3,698.8
1988	90,648.7	25,848.7	8,083.9	52,834.5	3,881.6
1989	98,367.0	31,750.0	9,652.8	51,908.2	5,056.0
1990*	106,223.0	37,613.0	9,968.0	53,335.0	5,307.0

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

Source : Port of Singapore Authority

11.7 OUTWARD SEA CARGO HANDLED, 1980-1990

Thousand Freight Tonnes

Period	Total	General Cargo		Bulk Cargo	
		Containerised	Conventional	Oil	Others
1980	36,177.5	6,104.0	8,703.4	20,859.1	511.0
1981	37,626.8	7,213.1	8,514.1	21,624.5	275.1
1982	40,133.0	7,385.7	9,391.6	23,054.8	300.9
1983	40,465.8	8,636.4	8,310.6	23,290.6	228.2
1984	44,486.3	10,271.5	9,608.2	23,976.2	630.4
1985	43,749.6	11,451.3	6,359.2	25,180.6	758.5
1986	50,959.1	15,625.7	6,224.0	28,814.9	294.5
1987	53,678.6	19,274.3	6,701.9	27,398.5	303.9
1988	64,090.1	25,406.9	7,600.2	30,667.1	415.9
1989	75,930.8	33,440.2	8,592.7	32,511.9	1,385.9
1990*	81,567.0	39,018.0	7,789.0	33,571.0	1,189.0

Note : See note to Table 11.6

Source : Port of Singapore Authority

11.8 CONTAINERISED CARGO HANDLED BY COUNTRY/AREA, 1985-1990

Thousand Freight Tonnes

Country/Area	1985		1986		1987		1988		1989		1990*	
	Inward	Outward	Inward	Outward	Inward	Outward	Inward	Outward	Inward	Outward	Inward	Outward
All Countries/Areas	12,410.6	11,451.3	15,914.0	15,625.7	19,145.1	19,274.3	25,848.7	25,406.9	31,750.0	33,440.2	37,613.0	39,018.0
South East Asia	2,788.2	3,049.7	4,130.3	4,412.8	5,173.3	5,247.2	7,585.2	7,387.9	10,872.7	9,925.3	12,648.2	12,420.6
North East Asia	3,422.8	2,526.0	4,264.8	3,612.1	5,477.6	5,267.0	7,519.7	6,278.8	8,558.7	7,574.0	11,249.7	7,962.8
China	32.0	52.3	122.3	62.0	145.8	72.1	126.7	127.8	182.9	212.6	244.1	174.9
Hong Kong	796.2	1,001.0	1,184.0	1,251.2	1,424.7	1,558.6	2,107.4	1,925.8	2,248.1	2,036.4	2,722.6	2,217.8
Japan	1,442.4	631.5	1,409.8	824.1	1,798.9	1,402.3	2,542.6	1,819.1	3,033.8	2,410.8	4,057.9	2,826.3
Taiwan	958.7	716.2	1,206.9	1,239.5	1,626.9	1,887.3	2,156.9	2,014.6	2,448.8	2,431.2	3,325.4	2,194.6
S Korea	193.5	125.0	341.8	235.3	481.3	346.7	586.1	391.5	645.1	483.0	899.6	549.1
South Asia	333.1	695.6	605.1	882.1	770.8	1,055.3	1,585.6	1,564.6	1,793.8	2,282.7	1,729.8	2,668.9
India	144.7	394.3	238.4	417.9	313.3	401.6	613.0	587.6	811.1	910.4	800.3	1,198.2
Bangladesh	43.2	79.2	65.2	143.5	132.2	213.6	301.6	336.9	425.9	634.9	434.4	649.7
Sri Lanka	72.1	136.8	110.9	204.0	139.8	276.1	288.2	401.1	193.5	421.8	277.1	456.3
Pakistan	73.1	85.3	190.6	116.7	185.5	164.0	382.8	239.0	363.2	285.2	216.9	321.0
West Asia	126.0	724.5	307.1	888.9	423.6	1,158.2	531.8	1,495.5	746.2	1,878.4	840.9	1,983.3
United Arab Emirates	20.8	242.5	99.0	366.1	172.2	468.8	210.9	614.5	373.6	759.1	511.0	907.2
Saudi Arabia	31.2	199.5	119.5	211.3	145.6	295.2	183.4	369.3	223.7	484.6	165.0	480.1
Africa	187.7	191.7	400.8	325.4	244.1	338.9	273.6	516.3	382.2	655.6	454.3	945.9
EEC	2,935.6	1,724.1	2,995.1	2,481.5	3,631.7	3,021.8	4,569.1	4,136.5	5,231.6	5,508.3	6,405.1	7,179.8
Italy	348.7	161.7	325.0	193.7	286.3	239.4	430.8	393.1	574.4	557.1	749.5	711.8
France	479.6	242.6	366.0	381.3	407.0	423.1	460.2	560.4	516.1	662.3	681.7	783.5
W Germany	749.7	461.9	741.3	675.4	992.8	801.6	1,285.3	1,066.6	1,394.1	1,399.4	1,835.7	1,901.5
Netherlands	618.5	398.7	670.7	516.4	822.2	608.6	985.2	789.0	1,210.1	1,160.4	1,358.3	1,620.8
United Kingdom	519.6	360.0	548.0	450.0	627.2	542.0	716.9	744.4	1,034.4	1,034.4	841.4	1,263.2
Belgium-Luxemburg	207.5	75.7	251.4	144.1	354.1	225.4	435.9	279.2	402.3	266.4	484.0	387.8
Spain	-	-	67.2	90.9	115.7	160.1	230.2	279.3	332.7	353.8	410.7	410.6
Other Europe	230.3	160.1	128.6	91.6	264.5	195.7	270.2	286.8	319.4	415.2	494.1	548.9
USSR	6.0	12.6	2.2	25.2	65.7	109.1	102.1	174.1	152.4	265.3	258.5	271.7
Oceania	602.9	639.8	745.1	733.8	1,007.2	881.7	1,090.2	1,222.4	1,156.4	1,546.9	1,098.4	1,413.2
Australia	521.1	520.4	671.9	611.2	905.8	713.3	938.5	982.9	1,023.4	1,204.8	865.7	1,086.4
New Zealand	75.6	71.7	48.6	71.9	85.9	105.0	115.5	122.8	107.1	172.3	200.9	176.4
Papua New Guinea	5.9	35.6	24.5	40.5	13.1	57.5	13.1	104.8	6.2	151.3	13.9	102.6
North America	1,571.5	1,205.8	1,831.5	1,582.7	1,564.7	1,394.6	1,986.9	1,986.4	2,294.1	3,182.8	2,417.4	3,438.5
Canada	38.3	17.8	104.2	45.0	144.2	66.4	182.1	68.9	199.1	102.9	218.3	107.8
USA	1,533.2	1,188.0	1,727.3	1,537.7	1,420.5	1,328.2	1,804.8	1,917.5	2,095.0	3,079.9	2,199.1	3,330.8
Central & South America	4.8	7.2	5.4	37.4	13.6	46.8	25.0	46.0	95.6	200.1	144.7	231.3

1 Joined EEC in 1986. Prior to 1986, Spain was included in Other Europe.

Source : Port of Singapore Authority

11.9 MINERAL OIL HANDLED BY COUNTRY/AREA, 1988-1990

Thousand Freight Tonnes

Country/Area	1988		1989		1990*	
	Inward	Outward	Inward	Outward	Inward	Outward
All Countries/Areas	52,834.5	30,667.1	51,908.2	32,511.9	53,335.0	33,571.0
South East Asia	7,661.5	10,804.1	7,758.7	11,382.5	8,619.7	12,812.8
North East Asia	6,225.4	14,275.0	5,161.9	15,280.9	5,142.8	14,591.9
China	5,535.8	1,394.0	4,093.7	2,200.7	3,964.0	736.0
Hong Kong	36.5	4,809.4	190.7	5,232.4	91.7	5,654.9
Japan	95.4	7,247.0	639.1	6,464.9	647.5	5,900.9
S Korea	285.0	351.2	79.6	524.7	366.7	834.6
Taiwan	272.7	472.8	158.8	840.6	72.9	1,458.7
South Asia	403.4	598.3	538.3	791.7	645.0	1,329.2
India	99.6	191.8	64.7	412.2	230.1	427.1
Sri Lanka	167.7	88.3	96.3	191.4	78.3	22.2
West Asia	34,436.0	810.7	34,133.0	815.5	34,569.6	714.7
Bahrain	2,224.3	59.3	2,022.0	84.4	1,634.1	78.8
Iran	3,178.3	329.7	3,109.6	202.3	2,489.7	26.0
Iraq	407.6	23.4	-	-	458.5	-
Kuwait	6,222.0	-	5,691.1	-	4,252.0	-
Saudi Arabia	16,097.2	208.7	15,574.3	480.7	14,772.0	12.7
United Arab Emirates	3,516.3	30.1	5,302.3	9.6	6,676.3	508.6
Africa	228.5	96.6	491.0	148.5	634.3	63.2
EEC	192.8	75.3	344.3	36.1	689.0	53.0
Other Europe	1,454.4	148.3	139.5	28.5	2.2	118.3
Oceania	1,502.2	2,434.5	1,061.9	2,685.1	2,003.3	2,823.7
Australia	1,451.9	1,551.7	1,042.2	1,585.9	1,953.2	1,301.9
New Zealand	-	24.0	-	5.6	9.5	74.0
North America	716.6	1,424.3	534.1	1,100.9	353.6	985.6
USA	716.6	947.2	534.1	1,100.9	353.5	985.6
Central & South America	13.6	-	408.6	97.8	675.1	0.4

Note : 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

11.10 CIVIL AIRCRAFT LANDINGS, PASSENGERS AND MAIL, 1980-1990

Year	Aircraft Landings	Passengers			Mail	
		Arrival	Departure	In Transit	In-coming	Out-going
	Number	Persons			Tonnes	
1980	37,956	3,140,723	3,151,032	1,002,794	3,975	4,076
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

Note : Figures from 1989 refer to Changi Airport only.

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

11.11 AIR CARGO DISCHARGED AND LOADED BY REGION AND SELECTED COUNTRY OF ORIGIN AND DESTINATION, 1985-1990

Tonnes

Region/Country of Origin or Destination	1985		1986		1987		1988		1989		1990	
	Discharged	Loaded	Discharged	Loaded	Discharged	Loaded	Discharged	Loaded	Discharged	Loaded	Discharged	Loaded
TOTAL	167,388	132,631	192,624	160,184	222,160	196,937	263,639	248,868	297,198	280,412	324,157	299,684
South East Asia	41,142	40,161	47,888	38,587	61,838	43,027	77,668	59,149	92,484	68,452	97,686	77,935
Malaysia	7,499	14,252	10,004	12,566	12,617	13,655	15,917	15,125	17,562	17,350	19,373	20,396
Philippines	3,476	3,686	3,248	3,810	4,055	4,990	4,423	5,419	3,923	5,988	3,730	6,066
Thailand	15,506	6,057	17,664	7,015	21,093	9,402	22,599	16,070	26,427	20,209	24,780	20,293
North East Asia	46,021	29,290	57,603	38,663	66,112	51,859	79,912	69,529	88,208	83,782	104,614	90,310
Hong Kong	11,152	8,901	13,992	10,481	14,603	14,527	15,566	18,827	16,147	22,617	18,992	24,181
Japan	19,078	12,442	22,205	17,168	27,763	22,920	35,934	32,423	38,431	37,629	44,564	41,121
Taiwan	11,353	2,660	15,270	4,229	15,770	5,956	18,274	7,109	18,878	7,132	22,702	8,178
South Asia	6,572	8,161	9,160	9,049	12,879	11,447	14,256	13,816	18,017	15,038	19,399	13,550
India	4,220	4,590	5,457	4,698	8,749	6,223	9,359	7,545	11,652	8,319	12,268	7,550
West Asia	1,483	3,791	1,632	4,444	1,345	5,526	2,060	6,014	2,448	6,363	2,850	7,328
Oceania	27,678	12,363	31,402	16,509	29,882	19,185	28,893	23,597	29,480	28,466	35,390	25,877
Australia	23,459	9,448	27,760	13,201	26,828	15,044	26,082	19,174	26,430	22,446	32,637	20,486
New Zealand	4,098	2,494	3,508	2,857	2,871	3,598	2,541	3,264	2,807	4,679	2,420	4,335
Europe	29,925	27,455	30,323	37,710	34,794	46,918	41,315	52,945	47,594	54,400	49,637	61,310
France	1,986	2,529	2,124	2,888	2,904	3,816	2,424	3,449	2,359	3,055	2,847	2,999
Germany, Fed Rep	2,905	3,040	2,929	4,332	2,938	4,479	3,114	4,026	3,745	4,127	4,862	5,856
Netherlands	6,105	5,452	4,946	7,243	5,588	9,718	7,716	10,077	8,468	9,543	8,544	10,475
Scandinavia	2,756	1,224	2,564	1,973	2,467	2,603	3,554	2,460	6,133	3,479	6,004	3,843
Switzerland	3,193	3,463	3,379	3,625	3,993	3,403	3,338	3,913	3,310	3,062	3,161	3,014
United Kingdom	2,796	6,670	3,059	8,851	4,614	9,826	7,074	11,771	8,995	13,172	10,662	12,923
North America	14,432	11,084	14,238	14,620	14,811	17,595	18,880	20,912	17,987	20,644	13,542	19,797
United States	14,294	11,017	14,067	14,463	14,737	17,354	18,259	19,942	16,831	19,165	12,354	18,323
Other Regions	135	326	378	602	500	1,379	653	2,906	980	3,267	1,036	3,578

Note : See note to Table 11.10.

Data exclude passenger baggage, diplomatic cargo and aircraft stores.

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

11.12 AIR PASSENGERS BY REGION AND SELECTED COUNTRY OF EMBARKATION AND DISEMBARKATION, 1985-1990

Region/Country of Embarkation or Disembarkation	1985		1986		1987		1988		1989		1990	
	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures
TOTAL	4,323,587	4,397,908	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
South East Asia	2,203,344	2,193,653	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
ASEAN	2,201,755	2,191,251	2,135,769	2,123,581	2,377,236	2,344,952	2,691,149	2,634,091	3,062,830	2,979,545	3,410,809	3,294,612
North East Asia	849,960	843,982	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
Hong Kong	417,847	395,063	436,638	402,003	465,033	434,589	449,992	427,977	452,084	441,697	556,861	531,138
Japan	292,770	305,176	293,489	304,056	375,224	382,762	476,344	485,896	639,064	648,364	758,569	777,761
Taiwan	95,990	96,324	100,420	96,586	120,014	118,127	134,804	141,812	164,283	162,832	194,690	186,736
South Asia	226,473	254,058	290,639	315,477	339,243	350,837	340,938	345,091	354,699	352,781	393,519	377,665
India	154,722	171,218	186,261	203,145	223,527	235,864	216,257	222,044	221,110	222,133	244,447	232,822
Pakistan	16,545	19,278	22,420	24,022	29,256	27,273	26,965	27,160	22,928	24,686	22,646	22,958
Sri Lanka	31,491	33,750	58,683	61,159	51,281	50,852	55,830	51,392	64,043	58,266	73,692	68,767
West Asia	90,734	97,260	75,607	69,357	66,731	66,683	68,966	68,715	68,217	70,231	55,979	58,663
Oceania	425,402	465,093	489,188	546,796	557,430	610,595	675,654	723,307	755,295	808,808	772,621	843,453
Australia	354,005	390,631	411,567	467,707	467,769	515,890	571,726	615,899	634,435	684,861	655,829	721,661
New Zealand	57,103	60,836	62,922	65,411	74,880	79,557	84,752	88,220	97,779	102,729	96,583	102,375
Europe	447,414	452,053	478,139	476,907	526,400	523,982	616,325	659,868	718,990	736,410	782,155	779,748
France	31,499	34,833	31,136	34,220	30,263	35,061	32,824	38,441	37,408	40,900	42,260	41,385
Germany, Fed Rep	41,537	47,545	46,150	53,684	47,704	57,926	68,653	74,119	89,503	88,838	103,022	102,938
Netherlands	63,592	56,072	60,768	53,945	62,062	54,148	74,364	68,851	81,440	75,528	85,409	74,165
Scandinavia	24,381	28,357	26,192	29,318	29,175	29,679	33,153	34,249	35,285	36,862	40,434	43,778
Switzerland	31,380	41,409	31,360	38,065	36,796	42,829	46,081	52,570	53,684	58,009	50,973	54,821
United Kingdom	177,613	156,220	193,465	170,504	211,118	185,586	228,418	237,541	256,542	246,455	289,171	274,114
North America	67,704	77,340	74,552	79,453	93,012	94,722	112,017	115,461	127,603	136,515	139,227	150,003
United States	66,111	75,505	72,337	77,365	91,022	92,919	105,053	107,205	111,605	116,082	120,042	125,959
Other Regions	12,556	14,469	20,664	20,309	36,643	33,894	44,357	41,961	55,267	53,499	53,231	52,457

Note : See note to Table 11.10.

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

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

11.13 VISITOR ARRIVALS BY REGION AND SELECTED COUNTRY OF RESIDENCE, 1980-1990
(By Air, Sea and Land)

Thousand

Region/Country of Residence	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	2,562.1	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
Americas	172.0	185.3	186.7	204.1	213.9	219.0	231.7	260.6	281.8	316.1	337.1
Canada	20.9	24.2	24.9	27.8	26.9	31.0	32.6	36.6	42.6	55.3	61.1
USA	135.8	143.6	150.7	167.4	176.9	176.3	188.2	211.4	226.8	248.0	261.4
Asia	1,646.3	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
ASEAN	1,028.1	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
Hong Kong	82.5	85.8	92.9	92.9	98.5	97.7	104.8	125.1	124.1	147.5	194.1
India	85.5	116.9	121.5	154.4	192.7	218.5	236.6	243.5	203.7	194.1	216.5
Japan	287.4	354.8	378.5	370.6	369.5	377.7	404.3	541.4	682.4	841.4	971.6
Korea	15.3	22.1	34.0	37.4	36.0	31.0	30.4	36.6	55.2	87.7	108.9
Pakistan	15.1	15.4	14.4	15.7	19.1	20.9	26.1	33.5	33.8	33.9	33.2
Saudi Arabia	18.5	20.2	21.7	20.7	21.8	20.9	19.3	19.5	20.9	20.9	16.9
Sri Lanka	15.5	21.0	21.2	23.1	25.7	25.2	28.1	28.4	38.2	50.8	47.8
Taiwan	56.3	55.3	65.1	68.0	80.3	82.8	100.4	148.4	152.1	223.8	224.8
Europe	413.5	447.5	424.5	418.1	445.0	468.4	520.1	619.3	810.7	901.1	943.6
Austria	5.7	7.6	8.2	7.8	8.3	9.3	12.1	14.8	19.4	21.8	23.2
Belgium & Luxembourg	9.3	10.0	8.3	8.9	9.6	9.5	11.1	12.2	15.7	16.8	17.9
France	40.2	44.7	41.1	37.1	42.2	41.4	43.6	47.5	63.1	68.8	73.1
Greece	7.1	6.9	6.7	5.4	7.2	9.0	12.4	19.0	23.9	20.1	18.3
Italy	26.3	25.3	23.0	21.5	25.6	26.0	30.5	37.3	53.5	55.0	56.3
Netherlands	47.1	49.6	41.4	40.6	40.2	40.5	42.7	48.2	63.9	70.9	73.8
Scandinavia	32.1	36.1	36.0	37.2	40.8	45.4	53.6	67.9	86.9	95.2	100.5
Switzerland	22.0	25.5	26.2	25.4	27.9	32.2	35.6	40.4	56.3	62.6	60.4
United Kingdom	128.4	145.0	149.9	150.4	150.2	158.4	170.1	195.2	253.6	281.3	296.6
West Germany	73.0	79.8	68.1	67.3	72.8	73.9	78.4	93.3	118.5	140.6	140.8
Soviet Union & Eastern Europe	9.9	6.1	4.6	5.6	8.6	11.3	16.9	26.2	30.0	39.3	49.5
Oceania	311.8	326.0	351.2	325.4	359.2	368.8	390.4	421.2	458.0	558.9	550.7
Australia	239.2	258.6	282.0	259.4	291.1	300.8	315.9	330.2	361.5	450.2	456.6
New Zealand	63.0	58.0	59.9	57.0	58.9	57.5	62.3	76.5	79.1	86.7	72.7
Others	18.5	16.3	15.3	13.0	14.2	14.1	17.7	33.4	48.9	57.6	64.2
Africa	10.5	12.6	12.6	12.5	13.5	13.0	15.9	31.5	46.6	55.0	56.2

Note : Exclude arrivals of Malaysians by land.

Source : Singapore Tourist Promotion Board

11.14 VISITOR ARRIVALS BY NATIONALITY, 1980-1990
(By Air, Sea and Land)

Thousand

Nationality	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	2,562.1	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
Americas	206.1	221.9	226.4	241.8	247.1	248.8	260.3	286.6	307.8	344.6	370.6
Canada	26.5	30.6	32.3	35.3	34.1	38.0	39.7	43.8	49.5	60.9	67.5
USA	163.5	172.4	181.1	196.2	201.1	197.8	208.3	228.5	243.5	267.9	283.3
Asia	1,487.3	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
ASEAN	879.4	966.5	1,036.5	928.3	927.5	890.4	882.8	959.6	1,045.5	1,141.4	1,321.1
India	149.6	173.8	168.4	202.7	237.7	259.0	279.1	284.0	242.1	234.8	259.9
Japan	298.6	365.2	389.1	381.4	383.3	390.2	417.9	556.6	700.3	860.5	990.5
Korea	16.9	28.3	37.3	41.9	40.7	35.7	35.5	43.3	62.4	95.7	116.6
Pakistan	17.1	17.7	16.8	18.0	21.5	23.0	28.3	36.0	36.6	36.9	36.2
Sri Lanka	18.8	24.3	24.1	25.8	28.4	28.3	32.0	32.7	43.0	57.9	54.6
Taiwan	63.0	58.5	67.6	69.9	84.2	87.0	104.0	152.8	155.7	227.5	229.5
Saudi Arabia	8.7	9.4	9.5	8.9	10.5	9.8	10.1	11.6	12.1	12.1	10.0
United Arab Emirates	0.8	1.2	1.5	1.2	1.2	1.0	1.5	2.1	2.5	2.7	2.2
Europe	573.8	612.8	602.3	587.9	619.3	638.9	699.7	820.1	1,019.2	1,132.7	1,204.8
Belgium & Luxembourg	8.8	9.6	8.2	8.7	9.3	9.2	10.9	11.9	15.3	16.0	17.1
France	49.3	53.2	49.5	44.8	50.2	49.5	53.4	60.5	79.1	85.6	89.4
Germany	78.7	85.1	73.3	72.7	78.6	79.3	84.8	99.9	125.7	147.9	146.9
Italy	27.3	26.4	24.3	23.0	27.4	27.9	32.4	39.5	56.4	58.1	59.4
Netherlands	56.6	59.0	50.9	50.7	50.0	50.0	52.1	58.0	74.6	82.0	83.3
Scandinavia	36.5	40.9	41.1	42.9	46.1	50.7	59.9	74.1	93.2	103.0	108.5
Switzerland	21.9	25.1	25.8	24.7	26.9	30.8	34.3	38.9	53.3	59.7	58.3
United Kingdom (incl. Dependencies)	254.4	276.4	292.4	284.5	287.2	291.9	309.0	350.0	411.5	459.1	507.3
U.K. Dependency (Hong Kong)	54.2	58.3	64.1	60.1	62.2	61.0	64.7	77.2	76.2	89.7	125.1
Soviet Union & Eastern Europe	10.7	6.7	5.5	6.4	10.0	12.9	18.5	28.4	32.3	40.4	50.2
Oceania	275.5	287.5	305.8	284.2	310.9	319.4	335.5	359.0	386.6	476.6	475.3
Australia	216.9	231.8	246.5	227.1	252.2	261.9	273.3	283.4	306.7	383.7	395.0
New Zealand	56.1	52.9	56.7	54.4	56.2	54.2	58.8	71.8	74.7	83.9	72.0
Others	19.4	29.2	35.5	25.5	32.0	32.3	37.5	57.0	70.1	83.9	94.7
Africa	8.5	10.3	10.6	10.8	11.3	10.9	13.7	27.1	40.1	48.1	52.7

Note : Exclude arrivals of Malaysians by land.

Source : Singapore Tourist Promotion Board

11.15 VISITOR ARRIVALS BY a) SEX AND b) AGE GROUP, 1980-1990
(By Air, Sea and Land)

Thousand

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	2,562.1	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
Sex											
Males	1,703.7	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
Females	858.4	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
Age Group (Years)											
<u>1980-1988</u> <u>1989-1990</u>											
Under 20 Under 15	243.0	264.8	277.8	251.1	267.1	276.7	291.3	332.4	367.9	295.5	338.2
15 - 19										129.8	141.8
20 - 29 20 - 24	565.5	644.2	687.0	653.9	668.0	681.8	712.8	820.8	937.8	423.7	466.0
25 - 34										1,279.1	1,412.3
30 - 39 35 - 44	703.9	773.7	818.2	799.1	835.9	839.0	868.3	971.2	1,084.4	1,150.1	1,274.7
40 - 49 45 - 54	499.7	545.1	568.3	558.4	593.9	593.6	632.2	735.8	865.7	817.4	892.8
50 - 59 55 - 64	337.9	359.2	363.3	348.1	366.3	368.9	394.5	463.5	534.8	484.2	519.7
60 & Over 65 & Over	199.2	220.9	228.3	231.2	248.1	258.6	279.2	340.0	380.0	236.6	250.8
Not Stated Not Stated	12.9	14.4	13.8	11.8	12.1	12.4	12.8	15.0	15.5	13.5	26.6
Average Age (Years)	37.4	37.2	37.0	37.3	37.5	37.4	37.6	37.8	37.9	37.7	37.5

Note : 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

11.16 VISITOR ARRIVALS BY a) PURPOSE OF VISIT AND b) TYPE OF ACCOMMODATION, 1980-1990
(By Air, Sea and Land)

Thousand

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	2,562.1	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
Purpose of Visit											
Holiday	1,644.2	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
Business	300.9	333.9	365.4	377.6	407.2	395.7	403.5	456.4	531.9	610.1	691.5
Business & Holiday	166.1	169.9	166.8	160.3	175.7	162.4	159.9	172.2	187.2	205.3	214.3
In Transit	250.7	255.2	260.7	279.4	288.3	293.0	289.5	305.8	352.9	432.7	481.2
Others	200.1	204.6	221.1	243.2	264.5	275.5	299.1	300.9	327.8	480.7	623.4
Type of Accommodation											
Hotel	1,805.7	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
Residence of Friends/Relatives	429.0	462.2	470.1	453.9	463.6	447.7	416.6	421.2	447.7	511.7	609.5
Others	179.1	206.4	214.4	242.1	238.2	259.9	274.8	289.1	314.4	347.5	426.3
No Accommodations Required	148.2	147.0	156.3	162.6	180.6	177.9	175.2	178.9	191.6	226.1	276.8

Note : See note to Table 11.15.

Source : Singapore Tourist Promotion Board

11.17 VISITOR ARRIVALS BY LENGTH OF STAY, 1980-1990 (By Air, Sea and Land)

Thousand

Length of Stay (Days)	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	2,382.6	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
Under 1	230.7	247.4	267.9	278.9	287.0	290.8	301.1	335.6	384.7	446.9	566.1
1	458.7	493.4	526.5	542.1	595.4	636.5	644.2	717.1	823.2	934.7	1,044.2
2	511.1	556.6	588.8	563.6	596.4	619.5	676.7	828.2	918.6	1,074.7	1,172.2
3	382.3	432.1	457.7	414.5	437.5	450.6	480.6	593.2	708.2	808.3	873.5
4 - 7	500.1	555.7	585.7	526.4	567.4	581.0	627.5	682.4	760.9	876.5	920.7
8 - 14	197.2	212.0	232.1	222.7	206.5	191.5	198.6	221.1	249.0	279.6	318.6
15 & Over	102.3	110.1	115.7	112.7	123.7	113.6	108.9	113.6	128.1	137.1	156.0
Average Length of Stay (Days)	3.7	3.7	3.8	3.7	3.6	3.5	3.5	3.4	3.4	3.3	3.3

Note : Exclude arrivals of Malaysians by land.

Refer to visitor arrivals who left Singapore during the period specified.

Source : Singapore Tourist Promotion Board

11.18 VISITOR ARRIVALS, HOTELS AND CESS COLLECTION, 1980-1990

Year	Visitor Arrivals	Tourist Hotels ¹				Sales Tax Collected on Food & Drinks
		Number (At End Year)	Number of Rooms Available	Average Occupancy Rate	Cess Collected	
	Thousand			Per Cent	Thousand Dollars	
1980	2,562.1	69	12,479	86.1	9,671.3	17,576.1
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

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

Source : Singapore Tourist Promotion Board
Customs & Excise Department

11.19 PUBLIC ROADS, 1980-1990

Kilometres

End of Year	Total Public Roads	Paved Roads					Local Roads Unimproved
		Total	Expressways	Major Arterial Roads	Collector Roads	Local Roads Improved	
1980	2,356	2,048	39	313	157	1,539	308
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

Source : Public Works Department

11.20 MOTOR VEHICLES REGISTERED, 1980-1990

Number

End of Year	Total	Motor Cars		Buses	Goods Vehicles	Motor-cycles & Scooters	Others ²
		Private	Public ¹				
1980	371,341	152,574	11,922	6,512	78,020	118,345	3,968
1981	401,805	161,692	13,375	6,950	87,752	127,722	4,314
1982	440,276	179,635	14,798	7,585	96,889	136,899	4,470
1983	476,288	202,092	14,841	7,985	105,090	141,569	4,711
1984	491,322	217,119	15,221	8,283	111,259	134,693	4,747
1985	486,760	221,279	14,971	8,717	109,596	127,564	4,633
1986	473,659	220,566	13,991	8,638	105,643	120,387	4,434
1987	471,124	222,487	13,633	8,733	104,938	116,544	4,789
1988	491,808	237,801	13,613	8,924	108,477	117,570	5,423
1989	520,537	257,371	13,787	9,126	113,671	120,996	5,586
1990	542,352	271,174	15,582	9,448	117,552	122,525	6,071

¹ Include taxis, school taxis and private hire cars.

Source : Registry of Vehicles

² Include hearses, tuition lorries and cranes, exempted lorries and tippers, road rollers, tractors, vans and vehicles used for specific purposes.

11.21 ROAD CASUALTIES, 1980-1990

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
1980	259	11,756	96	2,192	18	638	94	4,645	48	4,166	3	115
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

Source : Police Department

11.22 POSTAL ARTICLES HANDLED, 1980-1990

Thousand

Year	Total	Ordinary Mail			Registered Mail	Parcel Mail	Local Urgent Mail	Express Mail	Speedpost Mail
		Domestic	Surface	Air					
1980	445,399	277,081	38,417	110,989	15,791	1,713	275	1,089	44
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

Source : Singapore Telecom

11.23 TELECOMMUNICATIONS, 1980-1990

Thousand

Year	Outgoing Telegrams		Outgoing Telex Calls		International Telephone Calls ¹	Total Number of Telephones Installed ²
	Peninsular Malaysia	Other Countries	Peninsular Malaysia	Other Countries		
1980	46	655	523	6,831	3,535	702
1981	44	567	669	8,894	5,058	775
1982	38	445	966	11,077	7,091	852
1983	36	378	1,273	12,620	9,673	923
1984	43	336	1,528	14,140	12,643	1,003
1985	34	273	1,561	14,682	15,725	1,074
1986	35	266	1,635	14,861	21,611	1,116
1987	35	238	1,530	14,496	30,797	1,164
1988	27	240	1,262	12,371	43,672	1,220
1989	18	222	1,025	10,394	58,653	na ³
1990	18	203	835	8,699	73,888	na ³

1 Exclude calls to Peninsular Malaysia.

2 End of Period.

3 Data for 1989 and 1990 are not available because of the liberalisation of 1st phone wef 1 July 1989.

Source : Singapore Telecom

CHART 14

SEA CARGO HANDLED, 1980-1990

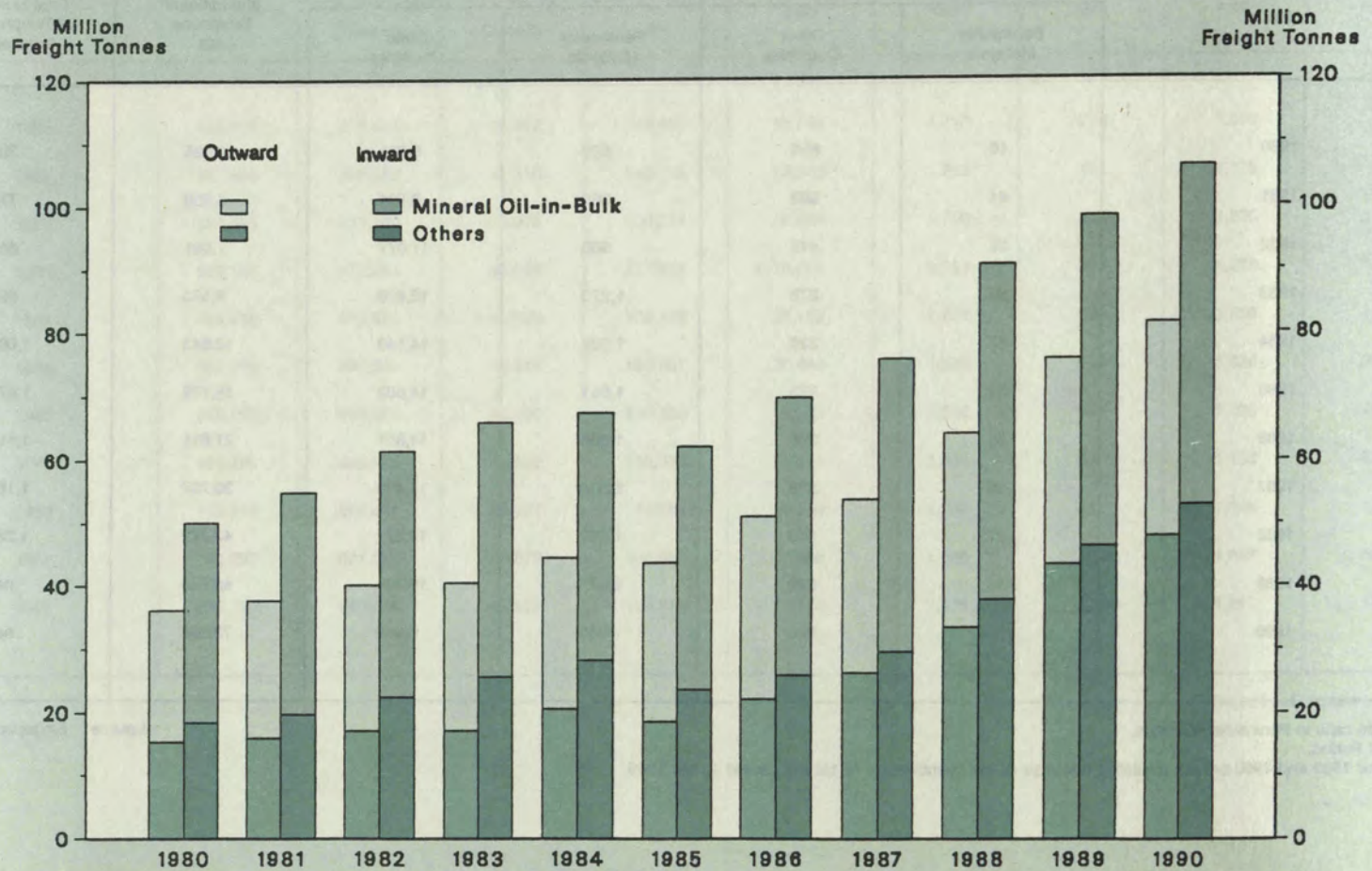


CHART 15

AIR CARGO HANDLED, 1980-1990

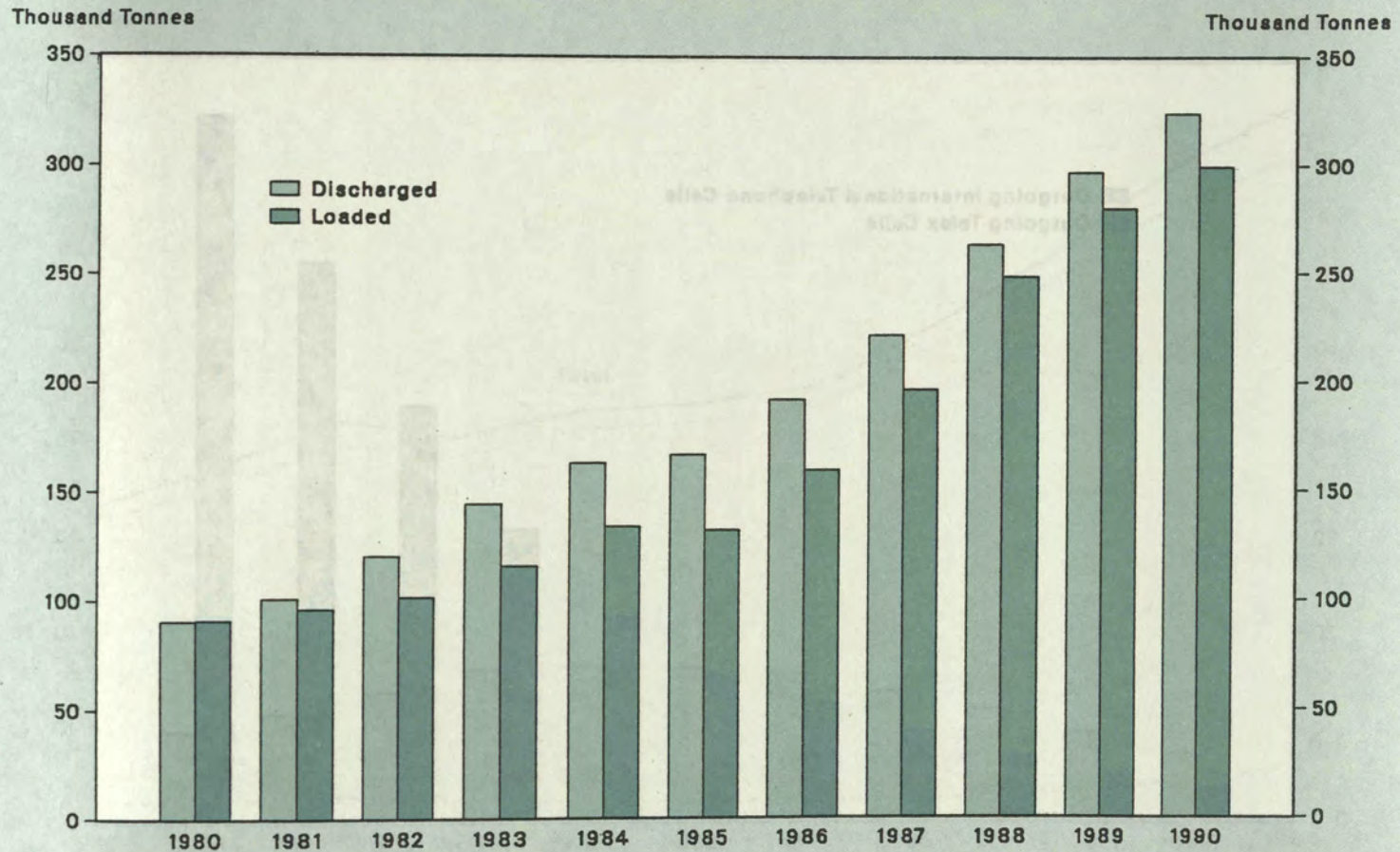


CHART 16

TELECOMMUNICATIONS, 1980-1990

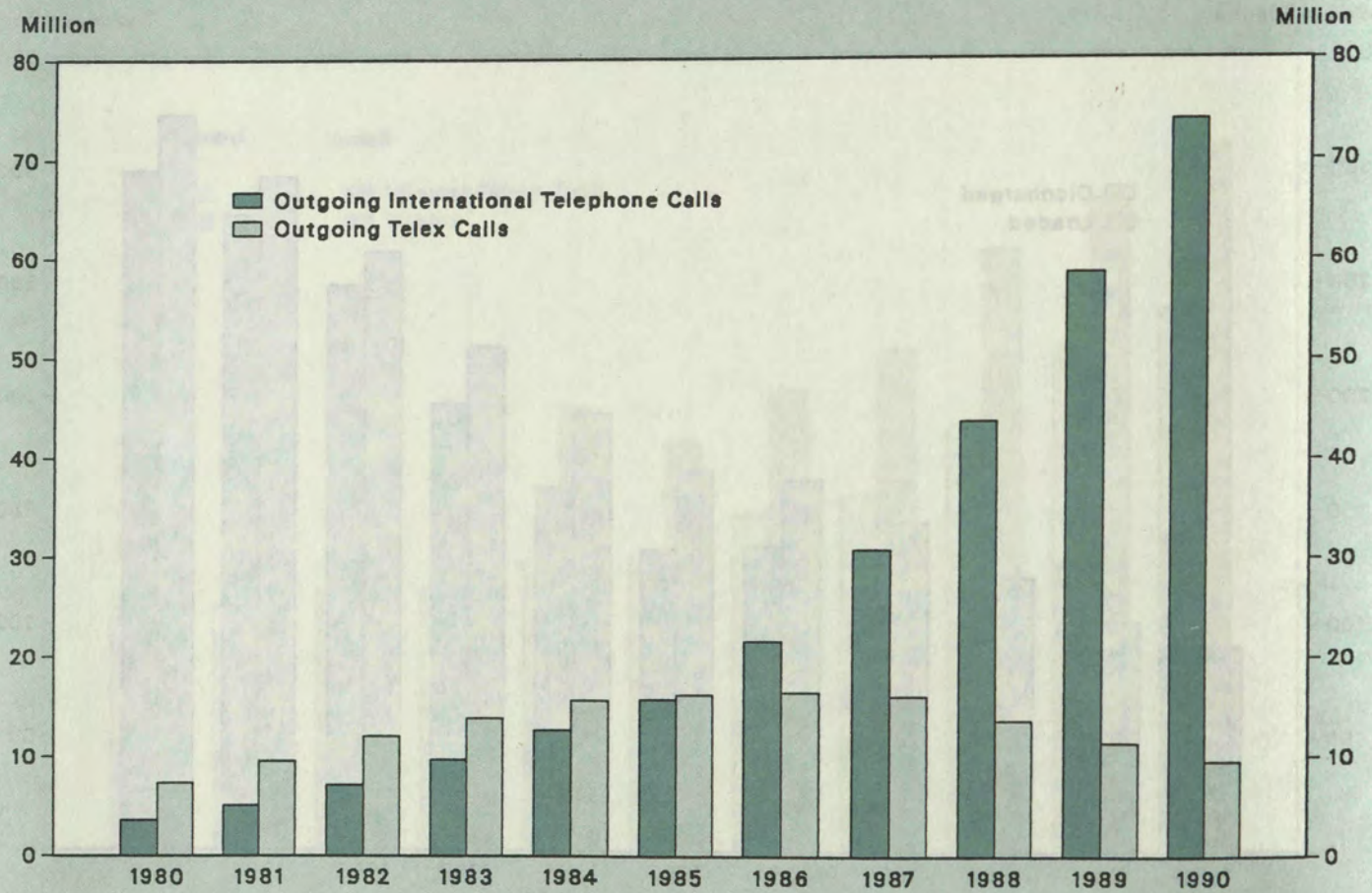


CHART 17

VISITOR ARRIVALS BY AIR AND SEA, 1980-1990

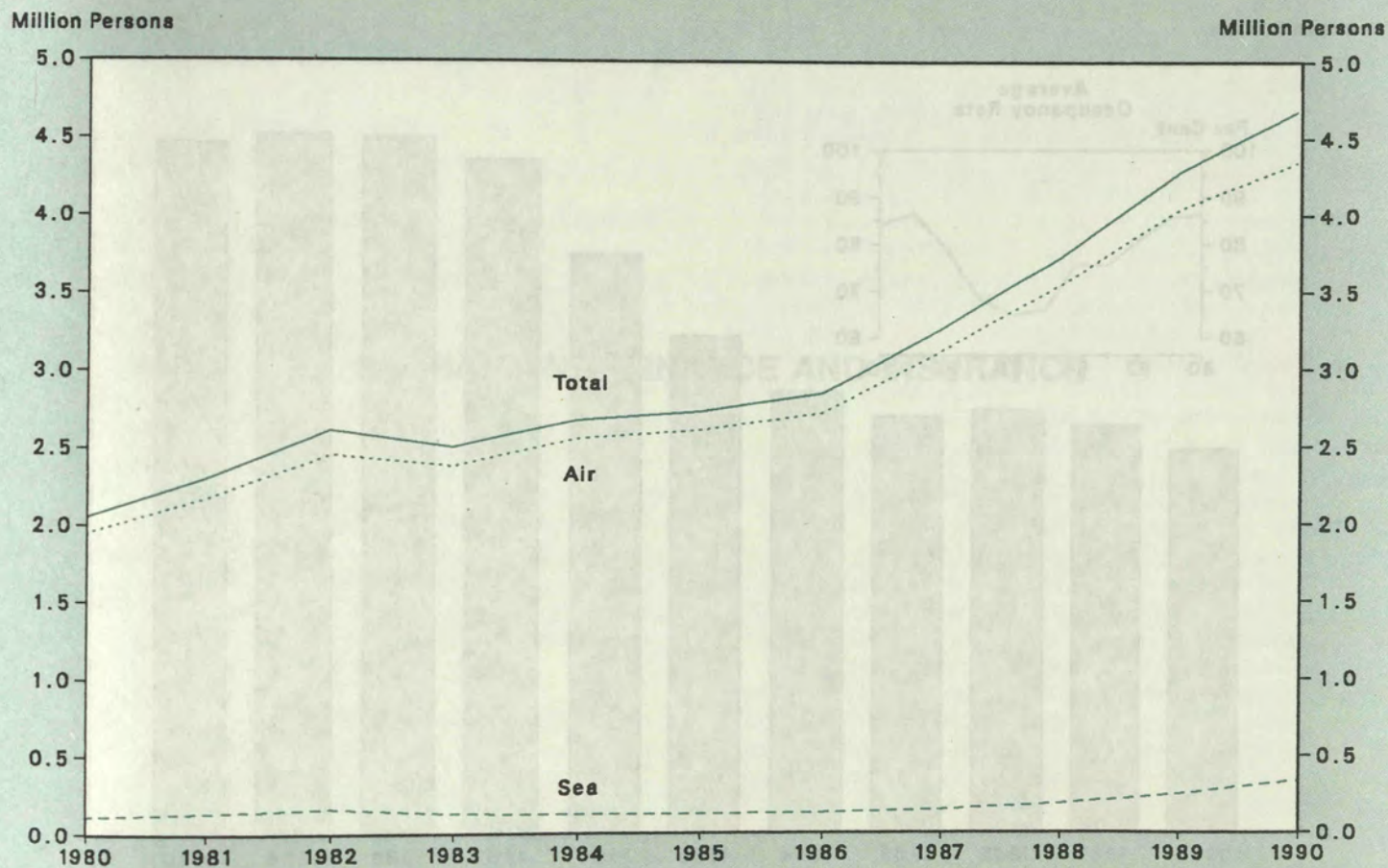
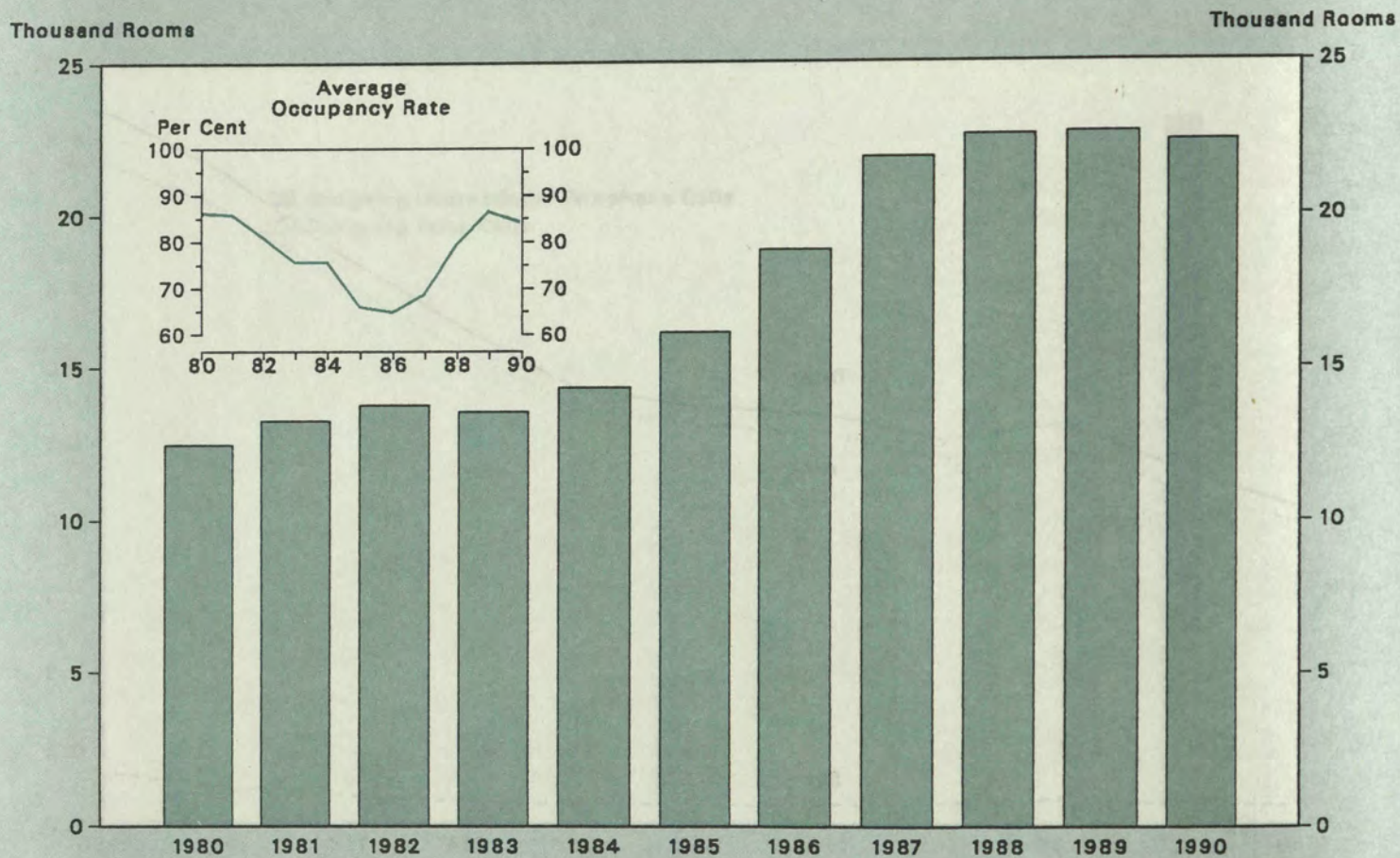


CHART 18

HOTEL ROOMS AND OCCUPANCY RATE, 1980-1990



12 BANKING, FINANCE AND INSURANCE

Data on insurance are compiled by the MAS from returns submitted by all registered insurers in Singapore. The MAS also publishes the Annual Report of the Insurance Commissioner which contains a write-up on the performance of the industry.

The main types of insurance plans in Singapore are life insurance, fire insurance, marine insurance, accident insurance, health insurance, and general insurance. The general insurance companies cover a wide range of risks such as fire, marine and aviation risks. The main types of insurance plans in Singapore are life insurance, fire insurance, marine insurance, accident insurance, health insurance, and general insurance. The general insurance companies cover a wide range of risks such as fire, marine and aviation risks.

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A total of 168 ACUs in operation. Data on ACUs are compiled from monthly returns submitted to the MAS. Banking and finance companies are licensed by the Monetary Authority of Singapore (MAS) and are subject to the MAS's prudential supervision. The MAS also publishes the Annual Report of the Insurance Commissioner which contains a write-up on the performance of the industry.

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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.

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 Deutschemmark, the French Franc, the Japanese Yen and the Pound Sterling.

12.1 CURRENCY IN CIRCULATION, 1980-1990

End of Year	Gross Circulation			Active Circulation ¹	Ratio of Active to Gross Circulation
	Total	Notes	Coins		
	Million Dollars				Per Cent
1980	3,498.8	3,321.9	176.9	3,137.0	89.7
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

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, 1980-1990

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 & Other Deposits (8)	Total (9) [(10) + (11)]	Currency in Active Circulation ² (10)	Demand Deposits of Private Sector (11)
1980	20,531.4	1,788.7	2,677.7	16,065.0	9,930.4	8,137.3	140.1	1,653.0	6,134.6	3,137.0	2,997.6
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	75,802.4	7,419.4	6,537.9	61,845.1	46,584.2	35,965.9	1,160.3	9,458.0	15,260.9	7,108.5	8,152.4

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.

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.

Source : The Monetary Authority of Singapore

12.3 FACTORS AFFECTING MONEY SUPPLY, 1980-1990 (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	
1980	428.6	4,139.4	2,737.0	1,402.4	411.2	2,658.9	-2,247.7	1,241.9	-291.6	323.6
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

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, 1980-1990

Million Dollars

End of Year	Total Foreign Reserves	Special Drawing Rights	Reserve Position in the International Monetary Fund	Gold & Foreign Exchange
1980	13,757.7	42.7	126.1	13,588.9
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

Source : The Monetary Authority of Singapore

12.5 EXCHANGE RATES, 1980-1990

Year	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
1980	0.9839	2.1412	4.9777	1.1805	0.5076	0.9475	0.3537	5.9453	0.4305	2.4394
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

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

Source : The Monetary Authority of Singapore

12.6 ASSETS OF BANKS, 1980-1990
(End of Period)

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
TOTAL	33,316.1	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
Cash	272.4	222.4	247.9	275.4	291.4	303.5	334.2	328.4	568.3	401.3	471.2
Amounts Due from Banks	6,880.1	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
In Singapore	2,756.7	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
Outside Singapore ¹	4,123.4	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
Balances with The Monetary Authority of Singapore	923.1	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
Money at Call with Discount Houses ²	884.1	1,478.0	1,917.9	2,049.9	2,387.2	2,290.1	2,316.0	-	-	-	-
S\$ Negotiable Certificates of Deposit Held	127.8	89.0	76.9	136.5	133.1	105.0	134.2	135.5	145.8	283.0	296.6
Investments in Securities & Equities	2,603.8	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
In Singapore	2,534.6	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
Outside Singapore	69.2	72.7	123.6	140.4	142.2	192.6	360.4	254.7	247.2	280.7	341.6
Loans & Advances Including Bills Financing	20,206.9	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
Bills Discounted or Purchased	4,049.4	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
Payable outside Singapore	2,089.9	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
Payable in Singapore	1,959.5	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
Loans & Advances	16,157.5	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
All Other Assets	1,417.9	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

¹ Include Asian Currency Units.

Source : The Monetary Authority of Singapore

² Discount houses ceased operations in May 1987.

12.7 LIABILITIES OF BANKS, 1980-1990
(End of Period)

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
TOTAL	33,316.1	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
Deposits of Non-bank Customers	16,035.0	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
Demand Deposits	3,484.0	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
Fixed Deposits	10,788.4	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
Savings Deposits	1,692.5	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
Other Deposits	70.1	83.4	90.2	103.3	108.0	120.7	154.0	244.6	306.9	407.7	392.6
S\$ Negotiable Certificates of Deposit Issued	331.9	404.5	428.0	471.6	300.7	263.6	696.4	896.8	992.6	1,421.7	1,457.0
Amounts Due to Banks	9,942.5	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
In Singapore	2,888.4	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
Outside Singapore ¹	7,054.1	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
All Other Liabilities	7,006.7	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

¹ Include Asian Currency Units.

Source : The Monetary Authority of Singapore

12.8 BANKS' LOANS AND ADVANCES TO NON-BANK CUSTOMERS BY INDUSTRY, 1980-1990
(End of Period)

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total Loans and Advances including Bills Financing	20,206.9	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
Agriculture, Mining & Quarrying	83.6	144.2	151.2	132.0	155.0	147.4	101.5	111.2	81.4	78.8	85.6
Manufacturing	4,362.6	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
Building & Construction ¹	1,875.4	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
General Commerce	7,945.8	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
Transport, Storage & Communications	1,301.6	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
Financial Institutions	2,096.8	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	9,916.1
Professional & Private Individuals	1,420.5	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
Others	1,120.6	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	4,166.4

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, 1980-1990
(End of Period)

Million US Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total Assets	54,392.6	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
Loans to Non-bank Customers	12,402.3	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
Inter-bank Funds	39,552.3	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
In Singapore	1,084.7	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
Inter-Asian Currency Units	9,955.4	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
Outside Singapore	28,512.2	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
Other Assets	2,437.9	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
Total Liabilities	54,392.6	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
Deposits of Non-bank Customers	9,250.6	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
Inter-bank Funds	40,879.6	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
In Singapore	1,304.3	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
Inter-Asian Currency Units	9,955.2	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
Outside Singapore	29,620.1	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
Other Liabilities	4,262.4	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

Source : The Monetary Authority of Singapore

12.10 ASSETS AND LIABILITIES OF FINANCE COMPANIES, 1980-1990
(End of Period)

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total Assets	3,075.1	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
Cash	4.5	5.0	6.8	8.5	8.3	10.3	9.0	10.8	11.0	13.9	13.0
Balances with The Monetary Authority of Singapore	126.0	170.9	217.2	267.5	313.9	288.4	286.7	271.1	307.2	407.5	456.5
Deposits with Banks & Other Institutions	405.0	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
Investments	100.5	114.6	120.4	139.8	165.2	151.7	153.2	455.8	518.4	562.0	579.0
Loans & Advances	2,367.1	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
Hire Purchase Finance	754.3	891.7	887.1	904.3	833.2	583.7	420.8	563.0	1,039.7	1,732.0	2,076.8
Housing Loans	637.2	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
Other Loans & Advances	975.6	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
Other Assets	72.0	90.1	131.7	152.0	162.0	169.1	235.4	216.1	205.5	206.3	220.1
Total Liabilities	3,075.1	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
Capital & Reserves	476.0	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
Deposits from Individuals & Institutions	2,121.3	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
Savings Deposits	65.2	75.9	112.3	171.8	209.2	278.8	332.4	325.9	315.0	308.1	273.2
Fixed Deposits	1,961.7	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
Other Deposits	94.4	137.9	294.5	412.7	413.8	428.5	315.9	427.3	478.1	569.0	404.9
Other Liabilities	477.8	661.1	830.2	917.0	844.8	789.9	910.8	1,166.7	1,404.1	1,420.1	1,610.6

Source : The Monetary Authority of Singapore

12.11 FINANCE COMPANIES' LOANS AND ADVANCES BY INDUSTRY, 1980-1990
(End of Period)

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
TOTAL	824.3	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
Agriculture, Mining & Quarrying	-	-	-	0.6	0.9	1.1	0.9	0.8	0.5	1.4	1.0
Manufacturing	92.6	164.6	167.7	228.7	217.6	223.9	231.1	249.4	236.5	177.7	180.0
Building & Construction	118.9	174.1	451.4	790.8	923.7	898.3	810.1	808.7	852.5	695.2	715.4
General Commerce	190.1	217.1	260.3	274.0	269.6	286.6	276.8	273.5	245.4	336.2	369.6
Transport, Storage & Communications	45.9	74.7	94.1	91.8	82.6	58.2	44.1	39.2	49.9	99.3	145.1
Financial Institutions	-	-	197.4	231.5	377.7	330.4	262.4	229.9	293.2	437.9	502.1
Professional & Private Individuals	230.3	390.5	458.6	622.4	682.4	715.2	648.4	646.5	669.8	761.5	736.2
Others	146.5	289.7	133.9	192.0	186.7	186.0	176.0	224.0	262.2	244.4	286.0

Source : The Monetary Authority of Singapore

12.12 ASSETS AND LIABILITIES OF MERCHANT BANKS, 1980-1990
(End of Period)

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total Assets	13,299.6	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
Amounts Due from Banks	5,713.7	9,442.4	9,315.4	9,399.7	9,303.9	9,768.7	11,084.6	12,067.2	14,670.2	13,057.6	12,920.6
In Singapore	61.8	201.3	260.4	218.5	189.4	332.1	370.7	472.6	491.4	523.6	664.0
Outside Singapore ¹	5,651.9	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
Loans & Advances to Non-bank Customers	7,049.2	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
Securities & Equities	234.9	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
Other Assets	301.8	529.2	574.2	518.5	773.6	727.7	857.9	1,276.5	1,501.0	1,281.8	970.4
Total Liabilities	13,299.6	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
Capital & Reserves	452.1	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
Amounts Due to Banks	11,337.6	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
In Singapore	178.1	347.8	317.1	581.5	750.2	709.3	483.6	678.4	710.6	895.7	543.7
Outside Singapore ¹	11,159.5	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
Borrowings from Non-bank Customers	1,047.0	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
Other Liabilities	462.8	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

Note : 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, 1980-1990
(End of Period)

Per Cent Per Annum

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Banks¹											
Prime Lending Rate	13.60	11.83	9.33	8.98	9.40	7.20	6.10	6.10	6.13	6.25	7.73
Deposit Rates											
3 Months	11.22	7.43	6.16	6.53	6.00	4.58	2.88	2.90	2.95	3.35	5.05
6 Months	10.92	8.40	6.55	6.55	6.35	4.70	3.03	3.11	3.33	3.86	5.37
12 Months	10.55	8.95	7.08	6.75	6.80	4.88	3.30	3.56	4.03	4.55	5.48
Savings Deposit Rate	9.52	7.90	6.43	6.30	6.53	5.18	3.08	3.03	2.83	2.98	3.83
Finance Companies											
Deposit Rates ²											
Up to 3 Months	12.20	12.40 ³	6.60	6.90	6.48	4.88	3.19	3.20	3.41	4.15	5.20
12 Months	9.90	11.50 ³	7.58	7.38	7.18	5.30	3.60	3.98	4.48	4.98	5.80
POSBank Savings Deposit Rate for Amounts											
Up to \$100,000	8.50	9.50	7.00	6.50	6.75	5.25	3.25	3.25	3.00	3.25	4.5
Exceeding \$100,000	6.00	7.00	5.50	5.50	5.75	4.00	2.25	2.25	2.00	2.25	3.5

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 DEPOSITS AND WITHDRAWALS OF POST OFFICE SAVINGS BANK, 1980-1990

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Number of Savings Accounts (End of Period)	1,898,264	2,075,705	2,282,362	2,492,924	2,672,166	2,874,460	3,063,496	3,253,403	3,454,705	3,643,523	3,813,897
Amount (\$ Million)											
Deposited	3,581.4	5,147.3	6,542.2	7,844.9	8,923.0	10,930.4	12,083.8	15,108.0	14,237.4	16,969.7	20,001.6
Withdrawn	3,511.8	4,862.0	5,049.4	6,989.4	8,264.4	9,510.0	11,047.1	14,804.0	13,568.6	16,383.5	20,236.1
Due to Account Holders (End of Period)	2,756.7	3,265.9	5,058.4	6,240.9	7,287.3	9,129.4	10,558.6	11,165.3	12,139.8	13,049.7	13,239.7

Source : Post Office Savings Bank

12.15 CONTRIBUTIONS AND WITHDRAWALS OF CENTRAL PROVIDENT FUND, 1980-1990

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
Amount											
Contributed	2,296.0	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
Withdrawn	779.1	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
Due to Members (End of Period)	9,551.2	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

Source : Central Provident Fund Board

12.16 WITHDRAWALS OF CENTRAL PROVIDENT FUND BY TYPE, 1980-1990

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		
1980	779.1	47,212	521.0	-	-	15,513	213.9	2,961	23.2	2,206	15.6	-	5.4
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	33,448	803.4	4,725	156.3	3,756	54.1	207.8	514.0

1 Include first and subsequent withdrawals.

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, Dependants' 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.

Source : Central Provident Fund Board

12.17 TURNOVER OF STOCKS AND SHARES, 1980-1990

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
1980	2,222.2	7,824.7	1,311.2	4,615.3	229.7	1,295.7	143.2	275.5	325.2	1,030.4	60.3	196.7	114.0	392.6	38.6	18.5
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

Source : Stock Exchange of Singapore

12.18 STOCK EXCHANGE OF SINGAPORE INDICES, 1980-1990
(1975 = 100)

Year	Industrial	Finance	Hotels	Properties	Mining	Plantation
1980	230.5	211.7	313.6	267.0	440.4	393.3
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

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, 1980-1990

Year	Pledges		Amount of Loans	
	Received	Redeemed	Given Out	Redeemed Including Interest
	Number		Million Dollars	
1980	1,945,756	1,885,832	382.7	372.1
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

Source : Registry of Pawnbrokers

12.20 LIFE INSURANCE POLICIES, 1980-1989

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
	Number									
Policies in Force (End of Period)	248,077	271,214	314,375	359,902	379,880	405,452	463,139	565,032	702,986	870,304
New Policies	59,174	49,539	70,374	78,212	57,013	63,712	92,819	138,821	181,167	215,755
Policies Matured or Discontinued	25,245	26,409	27,213	32,685	37,193	38,140	35,132	36,928	43,213	48,437
	Million Dollars									
Policies in Force										
Amount Insured (End of Period)	6,334.8	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
Premiums	170.0	198.0	250.4	305.3	332.5	363.5	424.3	538.5	695.3	896.1
New Policies										
Amount Insured	1,664.5	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
Premiums	40.1	43.5	70.3	79.0	60.6	67.6	97.7	150.9	200.9	250.1
Policies Matured or Discontinued										
Amount Insured	491.9	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
Premiums	14.2	15.5	17.9	28.0	33.5	36.6	36.8	36.7	44.1	49.5

Source : The Monetary Authority of Singapore

12.21 REVENUE AND EXPENDITURE ACCOUNTS OF LIFE INSURANCE FUNDS, 1980-1989

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total Revenue	771.6	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
Balance of Revenue Account at Beginning of Year	537.1	649.2	776.6	926.9	1,087.7	1,282.6	1,462.9	1,720.7	2,060.3	2,470.3
Premiums	164.0	191.8	237.0	282.5	299.0	341.4	398.3	515.2	654.1	844.2
Net Interest, Dividends & Rents	47.1	61.3	69.8	79.2	91.3	101.8	109.9	116.0	145.2	183.3
Miscellaneous	23.4	30.9	32.9	25.8	50.4	33.5	97.4	158.8	89.6	167.2
Total Expenditure	771.6	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
Claims on Death, Disability & Maturity	28.4	36.9	41.4	50.0	57.3	71.0	85.5	99.2	115.6	138.2
Surrenders	15.9	20.0	23.0	26.3	33.2	49.9	64.3	63.4	60.8	63.7
Cash Bonuses & Annuities	7.7	6.0	4.8	5.7	5.0	6.0	7.0	7.4	8.8	42.5
Management Expenses										
Commission	36.0	40.6	64.8	72.4	59.2	63.9	92.4	137.0	181.4	239.6
Salaries	7.9	8.9	11.9	12.8	15.5	18.9	18.7	21.9	27.2	33.0
Others	23.8	34.7	24.2	28.3	29.2	31.7	26.2	30.0	22.0	49.6
Miscellaneous	2.7	9.5	19.2	20.4	46.4	55.0	53.7	89.3	65.2	44.2
Balance of Revenue Account at End of Year	649.2	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

Source : The Monetary Authority of Singapore

12.22 ASSETS OF LIFE INSURANCE FUNDS, 1980-1989
(End of Period)

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	705.1	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
Land & Buildings	35.4	37.7	52.5	57.7	54.2	51.9	59.6	83.6	96.3	104.6
Loans	124.5	186.9	205.9	232.3	268.9	314.2	442.9	518.5	678.6	666.0
On Mortgages	48.7	93.1	100.6	108.4	110.7	127.3	240.1	291.9	371.4	323.0
On Policies	59.3	76.6	87.0	99.1	123.4	153.6	178.9	201.1	216.9	237.8
Others	16.5	17.2	18.3	24.8	34.8	33.3	23.9	25.5	90.3	105.2
Investments	378.2	424.2	513.0	620.0	701.7	741.6	935.1	1,139.1	1,320.5	1,703.1
Government & Statutory Authorities	180.0	198.2	236.1	283.1	354.7	380.0	457.0	518.5	603.2	741.3
Debentures & Shares ¹	198.2	226.0	276.9	336.9	347.0	361.6	478.1	620.6	717.3	961.8
Cash & Deposits	108.9	154.9	180.5	234.8	305.7	403.5	354.5	424.9	503.7	699.5
Miscellaneous (Including Outstanding Premiums) ²	58.1	31.0	46.9	51.7	53.5	65.1	59.4	72.8	90.3	125.4

1 Include other investments.

2 Include furniture.

Source : The Monetary Authority of Singapore

12.23 PREMIUMS AND CLAIMS OF GENERAL INSURANCE FUNDS, 1980-1989

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total Net Premiums¹	340.7	397.7	431.0	441.0	440.9	433.6	421.4	442.9	508.6	588.8
Marine, Aviation or Transit	70.7	74.2	70.5	70.7	68.0	65.9	62.9	64.3	76.8	83.6
Others	270.0	323.5	360.5	370.3	372.9	367.7	358.5	378.6	431.8	505.2
Fire	51.2	61.2	68.1	69.7	71.3	76.4	72.1	69.4	71.9	77.8
Motor Vehicles	102.6	117.4	135.5	147.4	158.9	152.1	148.2	165.6	205.5	254.2
Miscellaneous	116.2	144.9	156.9	153.2	142.7	139.2	138.2	143.6	154.4	173.2
Total Net Claims²	141.6	146.7	165.6	186.7	195.4	220.6	230.1	218.1	225.2	258.7
Marine, Aviation or Transit	35.7	35.7	38.6	36.1	27.5	27.9	25.7	25.6	24.4	39.0
Others	105.9	111.0	127.0	150.6	167.9	192.7	204.5	192.5	200.8	219.7
Fire	29.4	18.8	17.1	21.7	20.4	20.9	30.1	18.6	22.7	27.7
Motor Vehicles	45.7	52.6	58.9	71.1	87.2	99.2	99.8	107.6	110.7	122.2
Miscellaneous	30.8	39.6	51.0	57.8	60.3	72.6	74.6	66.3	67.4	69.8

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, 1980-1989

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total Revenue	742.8	896.7	958.0	1,077.5	1,126.4	1,166.7	1,236.5	1,361.5	1,507.3	1,716.7
Balance of Revenue Account at Beginning of Year	31.0	39.5	74.1	88.4	93.0	69.6	95.7	125.3	210.9	249.2
Reserves for Unexpired Risks at Beginning of Year	119.9	146.7	178.3	197.6	205.3	207.5	199.9	192.3	203.5	228.0
Loss Reserves at Beginning of Year	149.7	178.2	217.1	265.0	305.2	369.5	420.5	433.9	482.1	535.3
Net Premiums Written	340.7	397.7	431.0	441.0	440.9	433.6	421.3	442.9	508.6	588.8
Net Interest, Dividends & Rents	26.8	40.4	46.9	49.6	55.3	54.0	47.4	46.9	52.9	63.5
Miscellaneous	74.7	94.2	10.6	35.9	26.7	32.5	51.7	120.2	49.3	51.9
Total Expenditure	742.8	896.7	958.0	1,077.5	1,126.4	1,166.7	1,236.5	1,361.5	1,507.3	1,716.7
Net Claims Settled, Loss Reserves at End of Year	317.5	366.0	429.8	489.7	567.1	637.6	677.0	695.6	760.5	860.1
Management Expenses										
Commission	85.5	91.3	76.4	72.5	68.2	71.7	69.4	69.8	79.2	93.3
Others	71.6	88.1	87.6	98.1	102.9	102.3	110.3	106.9	120.4	136.1
Miscellaneous	81.6	97.3	76.8	110.8	109.5	57.9	58.1	71.0	68.3	54.0
Balance of Revenue Account at End of Year	39.9	75.4	90.1	101.3	70.1	97.3	125.3	216.5	251.5	307.3
Reserves for Unexpired Risks at End of Year	146.7	178.6	197.3	205.1	208.6	199.9	196.4	201.7	227.4	265.9

Source : The Monetary Authority of Singapore

12.25 ASSETS OF GENERAL INSURANCE FUNDS, 1980-1989
(End of Period)

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	527.8	684.4	797.7	873.3	907.1	943.3	985.3	1,123.4	1,259.2	1,427.4
Land & Buildings	35.5	42.8	42.6	42.9	40.7	39.6	35.5	39.4	41.1	49.8
Loans	5.2	5.3	7.6	11.4	12.1	12.5	13.5	16.3	23.1	16.4
Investments	188.6	229.6	256.4	290.7	302.4	305.2	369.4	468.5	529.8	637.7
Government & Statutory Authorities	89.5	108.6	128.5	147.6	166.5	172.2	186.5	214.7	240.6	266.6
Debentures & Shares	99.1	121.0	127.9	143.1	135.9	133.0	182.9	253.8	289.2	371.1
Cash & Deposits	207.5	294.6	361.9	394.3	412.7	443.8	429.7	457.6	512.1	555.3
Miscellaneous	91.0	112.1	129.2	134.0	139.2	142.2	137.2	141.6	153.1	168.2

Source : The Monetary Authority of Singapore

CHART 19

MONEY SUPPLY, 1980-1990 (At End of Period)

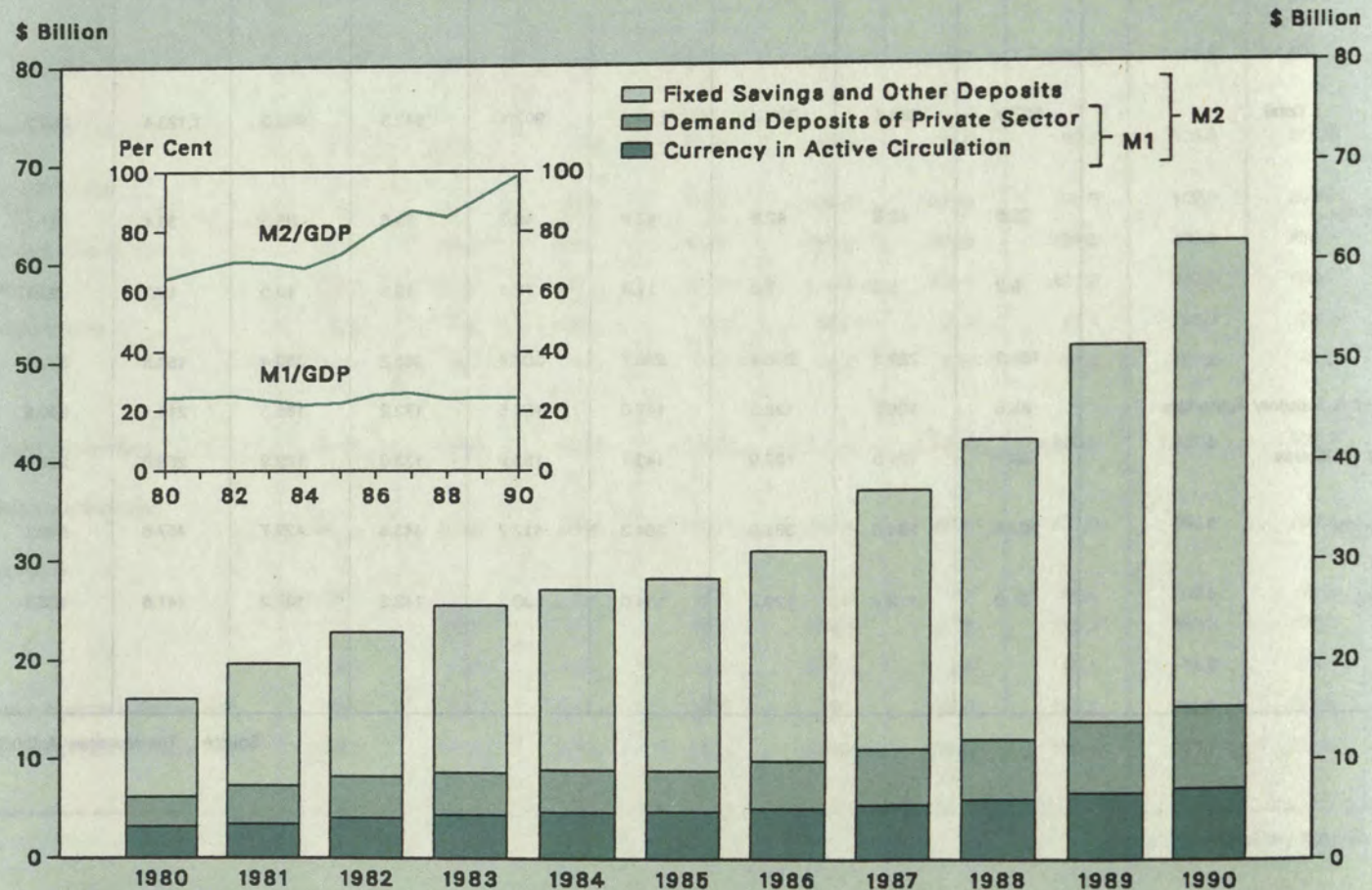


CHART 20

TYPE OF BANK DEPOSITS AND LOANS AND ADVANCES TO INDUSTRIES, 1980-1990
(At End of Period)

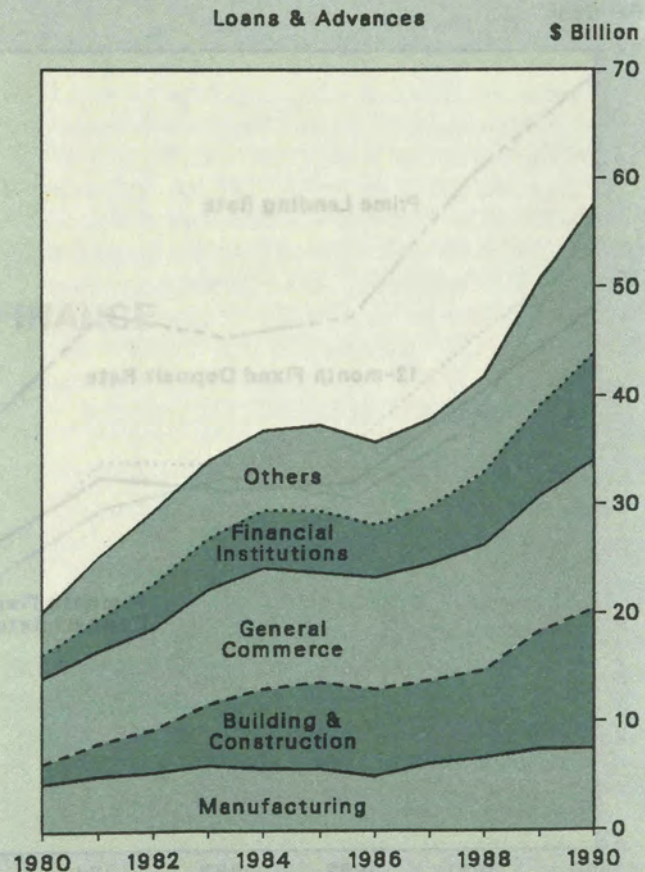
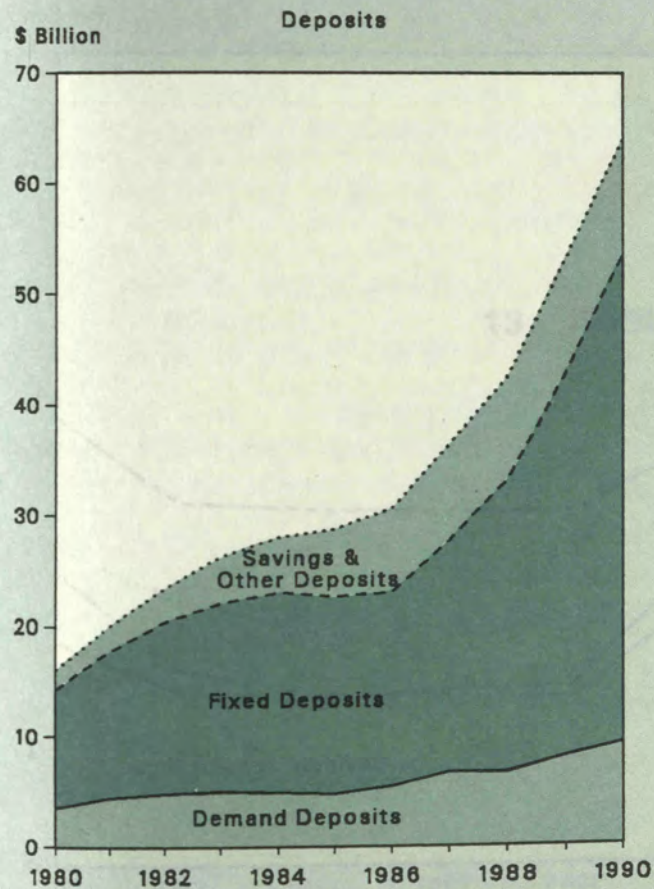
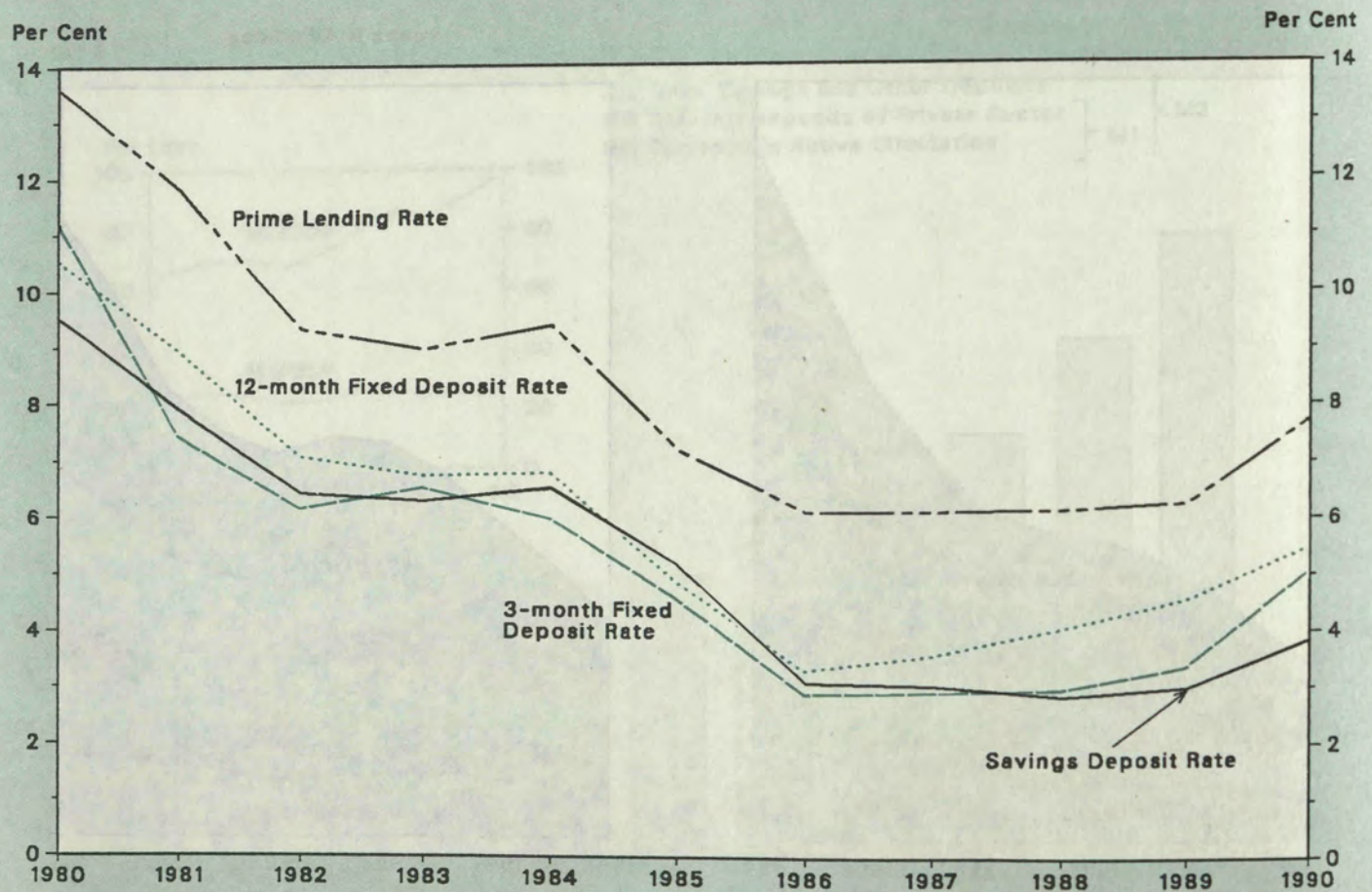


CHART 21

BANK INTEREST RATES, 1980-1990
(At End of Period)



13 PUBLIC FINANCE

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 qualifying women.

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, 1980-1990

Million Dollar

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
TOTAL REVENUE ¹	5,936.6	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
Tax Revenue	4,087.3	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
Income Tax	1,898.4	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
Corporate & Personal Income Tax	1,898.4	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
Contributions by Statutory Boards	-	-	-	-	-	-	-	-	1,500.0	769.8	512.2
Property Tax	531.2	640.4	806.4	943.6	1,209.6	1,152.7	763.8	686.2	808.4	911.6	1,065.2
Estate Duty	24.8	50.8	43.2	61.1	49.2	32.8	26.0	25.8	15.6	27.9	46.0
Stamp Duty	163.2	280.3	250.6	315.4	282.0	312.6	412.2	412.2	347.7	708.5	654.8
Customs & Excise Duties	670.2	694.8	763.1	856.9	992.9	985.3	847.3	939.7	1,112.2	1,261.7	1,305.6
Motor Vehicle Taxes ²	487.3	525.5	613.2	672.1	699.1	682.1	522.6	634.6	1,041.9	1,458.4	1,337.5
Betting & Sweepstake Duties	35.8	62.2	78.7	88.8	123.5	124.5	165.2	266.2	300.1	356.2	451.3
Private Lottery Duties	5.7	6.9	7.8	9.4	11.2	15.5	18.4	24.2	35.0	53.4	70.3
Others	270.7	318.8	370.5	609.9	655.2	462.2	200.8	179.9	262.5	440.3	694.9
Other Revenue	1,849.3	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
Fees & Charges	618.7	919.5	1,018.7	1,023.6	981.9	864.5	738.9	804.0	870.6	959.5	1,498.8
Sales of Goods & Services	289.7	459.5	447.6	396.6	405.0	371.3	372.4	404.7	435.4	418.6	456.9
Regulatory Charges	293.0	411.6	516.6	560.8	498.3	336.2	278.6	320.3	353.2	443.4	881.7
Fines & Forfeitures	36.0	48.4	54.5	66.2	78.6	157.0	87.9	79.0	82.0	97.5	160.2
Investment Income ³	1,071.7	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
Financial Claims	162.4	75.9	70.9	78.9	100.0	138.9	563.4	11.5	108.3	187.9	281.2
Adjustment ie Repayment of Direct Loans & Advances	-3.5	-3.2	-3.2	-3.2	-3.2	-3.2	-3.4	-11.6	-78.4	-0.2	-0.1

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.

13.2 GOVERNMENT RECURRENT EXPENDITURE, 1980-1990

Million Dollars

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990*
TOTAL¹	3,651.0	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
General Services	211.5	181.9	258.6	316.5	330.2	350.3	276.1	316.8	320.4	349.5	490.8
Defence, Justice & Police	1,321.7	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
Social & Community Services	1,029.8	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
Education	564.4	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
Health	223.0	257.3	313.3	342.0	376.3	419.1	400.7	397.4	432.1	460.9	464.2
Environment	120.1	132.8	158.8	164.3	177.5	188.4	169.5	159.2	176.3	189.9	187.2
Others	122.3	126.0	103.5	183.5	275.7	191.4	140.0	135.5	161.6	201.7	245.3
Economic Services	228.1	288.0	383.9	346.5	300.1	249.5	230.4	240.4	239.8	260.3	333.9
Debt Servicing	785.9	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
Pensions	74.0	59.1	79.4	89.2	100.4	141.8	160.6	169.6	193.9	231.9	256.6

Source : Ministry of Finance

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.

13.3 SOURCES AND USES OF DEVELOPMENT FUND, 1980/81-1990/91

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
1980/81	8,747.5	4,142.0	94.0	2,221.1	1,826.9	3,654.5	1,385.9	2,268.6	-
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	6,858.8	-	2,246.7	4,612.1	5,800.2	3,995.2	1,805.0	-

Source : Accountant-General's Department

13.4 GOVERNMENT DEBT, 1980-1990

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
1980	14,669.5	13,732.5	11,608.7	120.0	1,651.3	352.5	937.0	241.0	145.7	11.1	460.9	78.3
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

¹ Figures were computed at market rates.

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

13.5 REVENUE COLLECTED BY CUSTOMS AND EXCISE DEPARTMENT, 1980-1990

Million Dollars

Year	Total	Import & Excise Duties					Entertainment Duties	Film Hire Duty	Licence Fees	Miscellaneous Receipts
		Liquors	Tobacco	Petroleum	Motor Vehicles	Others				
1980	716.5	158.1	142.7	168.4	132.8	69.6	31.7	4.1	4.0	5.1
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

Source : Customs and Excise Department

13.6 REVENUE COLLECTED BY INLAND REVENUE DEPARTMENT, 1980-1990

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
1980	2,868.9	1,916.0	531.1	23.6	165.7	42.5	80.3	109.7
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

Source : Inland Revenue Department

1 Include compounding fees.

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 wef 1 Feb 1980.

13.7 TAXPAYERS, ASSESSED INCOME AND TAX ASSESSED, 1988 AND 1989

	Taxpayers			Assessed Income			Tax Assessed			
	Total	Resident	Non-resident	Total	Resident	Non-resident	Total	Resident	Non-resident	
	Number			Million Dollars						
	1988									
	Total	898,121	883,549	14,572	22,734.6	22,091.6	643.0	2,945.8	2,771.0	174.9
	Individuals	884,393	870,578	13,815	16,950.1	16,838.8	111.3	1,102.9	1,077.3	25.6
	Employees	739,748	727,488	12,260	13,809.3	13,727.0	82.3	825.7	807.2	18.5
	Sole Proprietors	102,759	101,490	1,269	1,990.8	1,972.0	18.8	158.2	154.4	3.8
	Partners	41,886	41,600	286	1,150.0	1,139.8	10.2	119.0	115.6	3.3
	Companies	12,116	11,360	756	5,761.5	5,230.9	530.6	1,836.2	1,687.3	148.9
	Trusts	836	836	-	10.7	10.7	-	3.5	3.5	-
	Clubs & Associations	776	775	1	12.3	11.2	1.1	3.3	2.9	0.4
	1989									
	Total	657,860	642,442	15,418	20,348.0	19,177.8	1,170.2	3,170.1	2,892.6	277.6
	Individuals	643,461	628,978	14,483	12,949.3	12,847.2	102.1	932.5	912.1	20.4
	Employees	529,269	516,236	13,033	10,219.2	10,146.2	73.1	670.6	657.3	13.2
	Sole Proprietors	77,566	76,280	1,286	1,664.3	1,642.4	21.9	147.8	143.0	4.8
	Partners	36,626	36,462	164	1,065.8	1,058.7	7.1	114.1	111.8	2.3
Companies	13,609	12,674	935	7,384.3	6,316.2	1,068.2	2,233.2	1,976.0	257.2	
Trusts	678	678	-	11.7	11.7	-	3.7	3.7	-	
Clubs & Associations	112	112	-	2.6	2.6	-	0.7	0.7	-	

Note : Figures for 1988 refer to assessments made during the period 1.1.88 to 31.12.89 (24 months).
Figures for 1989 refer to assessments made during the period 1.1.89 to 31.12.89 (12 months).

Source : Inland Revenue Department

**13.8 ASSESSED INCOME AND TAX ASSESSED ON INDIVIDUALS
BY ASSESSED INCOME GROUP, 1988 AND 1989**

Assessed Income Group (\$)	Taxpayers			Assessed Income			Tax Assessed			
	Total	Resident	Non-resident	Total	Resident	Non-resident	Total	Resident	Non-resident	
	Number			Million Dollars						
Total 6,000 & Below 6,001 - 8,000 8,001 - 10,000 10,001 - 15,000 15,001 - 20,000 20,001 - 30,000 30,001 - 50,000 50,001 - 100,000 100,001 - 200,000 200,001 - 1,000,000 1,000,001 and above	1988									
	884,393	870,578	13,815	16,950.1	16,838.8	111.3	1,102.9	1,077.3	25.6	
	91,783	81,168	10,615	425.1	402.7	22.3	7.7	3.4	4.3	
	132,088	131,472	616	935.8	931.6	4.3	11.0	10.0	0.9	
	126,562	126,167	395	1,135.9	1,132.4	3.5	15.6	14.8	0.8	
	202,822	202,252	570	2,484.4	2,477.3	7.0	46.0	44.2	1.7	
	109,938	109,587	351	1,901.9	1,895.8	6.1	51.9	50.5	1.4	
	100,935	100,462	473	2,445.8	2,434.2	11.7	95.4	92.9	2.6	
	70,114	69,673	441	2,666.4	2,649.4	17.0	155.1	151.4	3.6	
	36,091	35,825	266	2,444.3	2,426.1	18.2	236.8	232.8	4.0	
	10,934	10,878	56	1,462.5	1,454.5	8.0	234.9	232.8	2.1	
	3,070	3,041	29	957.4	947.9	9.5	221.6	218.6	3.0	
	56	53	3	90.7	87.0	3.7	27.0	25.8	1.2	
	Total 6,000 & Below 6,001 - 8,000 8,001 - 10,000 10,001 - 15,000 15,001 - 20,000 20,001 - 30,000 30,001 - 50,000 50,001 - 100,000 100,001 - 200,000 200,001 - 1,000,000 1,000,001 and above	1989								
		643,461	628,978	14,483	12,949.3	12,847.2	102.1	932.5	912.1	20.4
68,347		56,432	11,915	305.5	277.7	27.8	7.2	2.6	4.6	
81,306		80,811	495	577.4	574.0	3.4	7.3	6.6	0.6	
94,109		93,866	243	844.6	842.4	2.2	11.9	11.5	0.4	
150,446		149,982	464	1,841.4	1,835.6	5.7	34.9	33.9	1.1	
81,792		81,497	295	1,414.4	1,409.2	5.1	39.2	38.2	1.0	
75,649		75,270	379	1,829.1	1,819.8	9.3	72.6	70.9	1.7	
50,299		49,951	348	1,918.1	1,904.6	13.5	117.3	114.7	2.6	
29,012		28,734	278	1,975.8	1,957.1	18.6	204.7	201.0	3.7	
9,634		9,583	51	1,293.4	1,286.5	6.9	211.5	209.6	1.9	
2,820		2,807	13	872.4	867.0	5.4	203.1	201.6	1.5	
47		45	2	77.3	73.3	4.0	22.9	21.5	1.3	

Note : See note to Table 13.7.

Source : Inland Revenue Department

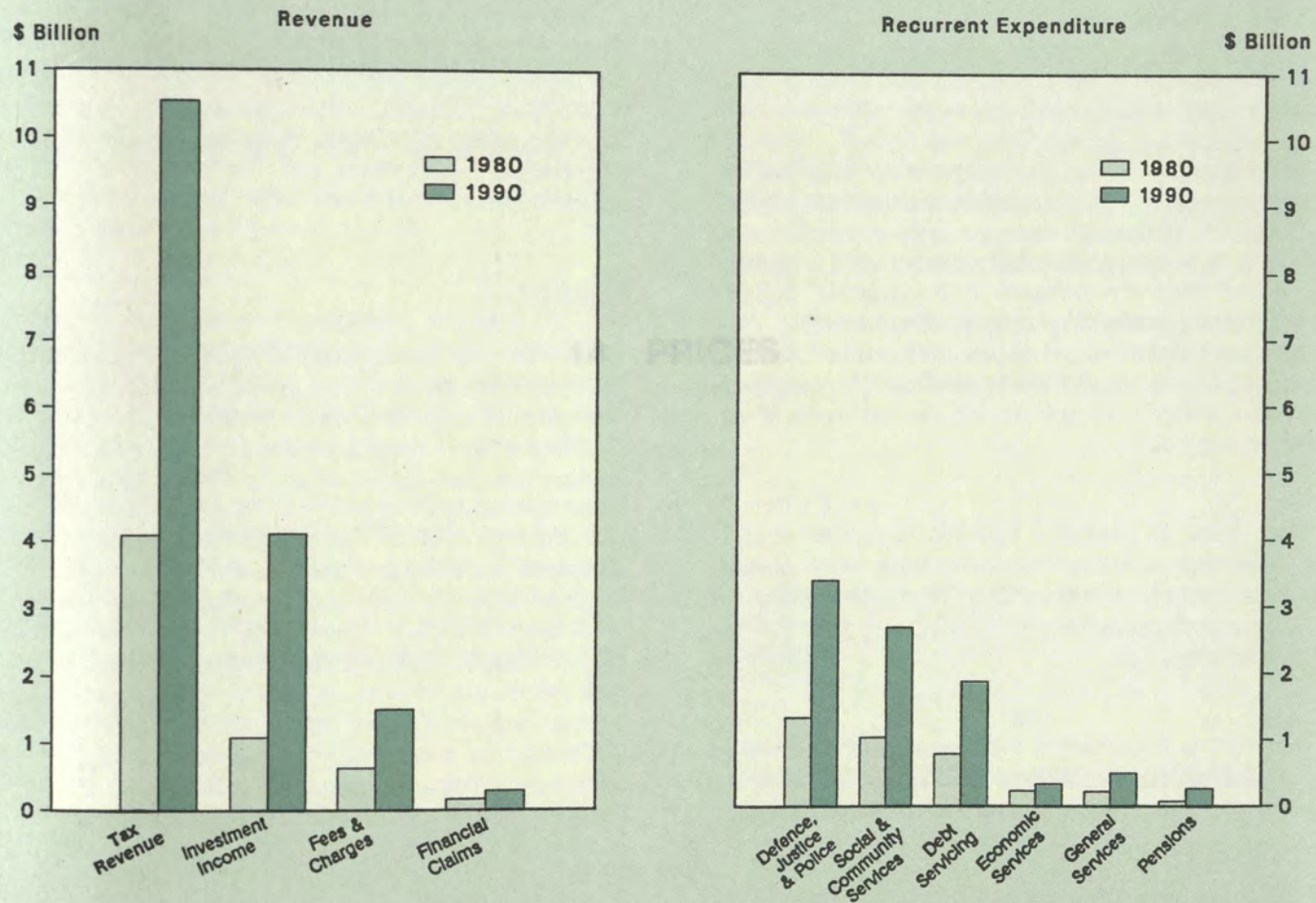
**13.9 ASSESSED INCOME AND TAX ASSESSED ON COMPANIES BY ASSESSED INCOME GROUP,
1988 AND 1989**

Assessed Income Group (\$)	Taxpayers			Assessed Income			Tax Assessed		
	Total	Resident	Non-resident	Total	Resident	Non-resident	Total	Resident	Non-resident
	Number			Million Dollars					
	1988								
Total	12,116	11,360	756	5,761.5	5,230.9	530.6	1,836.2	1,687.3	148.9
10,000 & Below	4,005	3,798	207	15.4	14.5	0.9	5.1	4.8	0.3
10,001 - 20,000	1,368	1,284	84	20.1	18.9	1.2	6.6	6.2	0.4
20,001 - 30,000	839	786	53	20.9	19.6	1.3	6.9	6.4	0.4
30,001 - 60,000	1,448	1,362	86	63.2	59.4	3.7	20.7	19.5	1.2
60,001 - 100,000	974	913	61	76.1	71.2	4.9	25.0	23.4	1.6
100,001 - 300,000	1,677	1,564	113	290.4	270.7	19.7	94.9	88.6	6.4
300,001 - 500,000	499	469	30	192.7	180.9	11.8	63.1	59.3	3.8
500,001 - 1,000,000	526	496	30	370.6	348.4	22.2	121.2	114.1	7.1
1,000,001 - 3,000,000	436	391	45	755.5	674.7	80.8	247.8	221.8	26.0
3,000,001 - 5,000,000	130	109	21	496.5	417.3	79.3	162.4	137.1	25.3
5,000,001 and above	214	188	26	3,460.2	3,155.3	304.8	1,082.5	1,006.1	76.4
	1989								
Total	13,609	12,674	935	7,384.3	6,316.2	1,068.2	2,233.2	1,976.0	257.2
10,000 & Below	3,998	3,751	247	15.2	14.3	1.0	5.0	4.7	0.3
10,001 - 20,000	1,495	1,381	114	22.0	20.4	1.7	7.3	6.7	0.6
20,001 - 30,000	885	826	59	22.0	20.6	1.5	7.2	6.8	0.5
30,001 - 60,000	1,659	1,551	108	73.0	68.2	4.8	24.0	22.5	1.6
60,001 - 100,000	1,220	1,151	69	95.7	90.2	5.5	31.5	29.7	1.8
100,001 - 300,000	1,978	1,846	132	345.6	322.6	23.0	113.2	105.8	7.4
300,001 - 500,000	663	628	35	258.3	245.0	13.3	84.4	80.0	4.4
500,001 - 1,000,000	656	609	47	463.2	429.8	33.4	151.4	140.5	10.9
1,000,001 - 3,000,000	625	563	62	1,081.1	966.2	114.9	348.8	315.0	33.8
3,000,001 - 5,000,000	176	154	22	688.5	603.7	84.8	215.7	194.7	21.0
5,000,001 and above	254	214	40	4,319.6	3,535.2	784.4	1,244.6	1,069.7	174.9

Note : See note to Table 13.7.

Source : Inland Revenue Department

GOVERNMENT REVENUE AND RECURRENT EXPENDITURE, 1980 AND 1990



14 PRICES

The index is compiled monthly using the Laspeyres formula. The index is a simple average of the prices of the goods and services in the basket. The basket is composed of the goods and services that are purchased in 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.

Product Expenditures

The index is compiled monthly using the Laspeyres formula. The index is a simple average of the prices of the goods and services in the basket. The basket is composed of the goods and services that are purchased in the preceding year.

The index is compiled monthly using the Laspeyres formula. The index is a simple average of the prices of the goods and services in the basket. The basket is composed of the goods and services that are purchased in the preceding year.

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, local 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 have base year in 1985 and are compiled monthly using the base-weighted Laspeyres' formula.

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 series on local farm products were based on the production data supplied by the Primary Production Department. 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. Indices at commodity group 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, 1980-1990

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						
1980	85.1	86.8	100.4	91.9	84.9	73.9
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	97.5	100.9	99.0	95.0
1987	98.9	98.8	97.8	99.8	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
Percentage Change Over Previous Year						
1980	8.5	7.7	1.9	11.2	12.9	7.0
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

¹ The weights refer to the consumption pattern of 1987/88 and are used in the computation of the indices for the years 1989 and 1990. Indices for the period 1980-1982 and 1983-1988 relate to the consumption pattern of 1977/78 and 1982/1983 respectively.

14.2 RETAIL PRICES OF SELECTED FOODSTUFFS, 1980-1990

Dollars

Year	Rice & Other Cereals					Meat & Poultry					Milk & Eggs	
	Thai Rice 100%	Wheat Flour	Bread	Rice Vermicelli ¹	Instant Noodles	Lean Pork	Lean & Fat Pork	Fresh Beef	Fresh Mutton	Hen	Condensed Milk	Hen Eggs
	Per kg		400g	400g Pkt	425g Pkt	Per kg					397g Tin	Per 10
1980	1.05	.83	.60	.70	1.70	6.53	5.89	11.33	8.95	3.95	.93	1.47
1981	1.28	.83	.62	.70	1.85	7.15	6.50	11.87	10.30	4.34	1.14	1.73
1982	1.10	.83	.63	.63	1.95	7.86	7.00	12.21	11.00	4.80	1.15	1.67
1983	1.08	.83	.62	.68	1.76	7.96	6.98	12.60	10.98	4.59	1.15	1.54
1984	1.07	.83	.67	.70	1.78	7.33	6.33	12.60	10.98	4.62	1.12	1.67
1985	.92	.83	.67	.70	1.75	6.68	5.67	13.12	10.97	4.51	1.01	1.57
1986	.80	.82	.67	.69	1.74	6.23	5.32	13.27	10.92	4.23	.95	1.45
1987	.79	.80	.68	.67	1.74	6.24	5.29	13.32	10.80	4.11	.93	1.46
1988	.93	.79	.67	.67	1.77	6.57	5.61	12.51	10.80	4.02	.97	1.57
1989	.96	.80	.68	.65	1.77	6.86	5.90	13.00	10.94	4.15	1.10	1.46
1990	.97	.80	.72	.62	1.77	6.50	5.49	12.98	10.84	4.15	1.13	1.50

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

14.2 RETAIL PRICES OF SELECTED FOODSTUFFS, 1980-1990 (continued)

Dollars

Year	Cooking Oils		Fish				Prawns		Vegetables			
	Deodorised Oil	Vegetable Oil	Spanish Mackerel (Tenggiri)	Gold Banded Scad (Kunning)	Dorab (Parang Cut)	White Pomfret	Fresh	Dried	Cabbage	Spinach (Bayam)	Small Mustard	Red Chillies
	2 Kg Bot	1 Kg Bot	Per kg									
1980	5.46	na	6.17	3.31	7.57	13.51	20.08	11.05	1.29	1.07	1.77	3.57
1981	5.24	na	7.12	3.70	8.61	14.72	20.45	12.97	1.52	1.14	1.77	3.79
1982	5.03	na	8.64	4.52	10.54	15.53	23.02	14.48	1.48	1.40	2.20	4.96
1983	4.96	2.34	8.54	4.65	10.58	13.85	23.59	13.77	1.65	1.55	2.42	7.84
1984	5.50	2.61	8.61	4.77	10.62	14.40	23.13	15.82	1.42	1.86	2.50	6.09
1985	5.49	2.64	8.38	5.05	10.81	14.55	21.77	15.04	1.55	1.77	2.28	5.33
1986	5.34	2.64	8.34	5.62	10.93	13.89	22.73	15.55	1.43	1.60	1.99	4.48
1987	5.29	2.34	8.05	5.04	10.87	13.33	23.78	15.20	1.61	1.76	2.37	4.97
1988	5.31	2.29	8.03	5.15	10.80	13.52	24.89	17.07	1.66	1.74	2.33	4.64
1989	5.28	2.39	8.20	5.27	11.04	13.78	23.19	15.95	1.58	1.67	2.12	3.90
1990	5.24	2.40	8.36	5.23	11.29	13.98	21.75	15.34	1.64	1.82	2.21	4.71

14.2 RETAIL PRICES OF SELECTED FOODSTUFFS, 1980-1990 (continued)

Dollars

Year	Vegetables			Fruits					Miscellaneous			
	Cucumbers	Long Beans	Potatoes	Pineapple	Apple	Orange	Bananas	Papaya	Sugar	Coffee Powder	Tea	Food Beverage ²
	Per kg			Each			Per kg				100g Tea Bags	400g Tin
1980	.78	1.32	1.03	.50	.30	.32	.93	.76	1.24	12.08	4.50	3.94
1981	.86	1.41	1.12	.58	.32	.35	1.08	.80	1.35	10.90	4.75	4.00
1982	.90	1.58	1.10	.68	.35	.42	1.19	.88	1.26	10.62	4.83	3.67
1983	1.13	1.85	1.10	.64	.30	.35	1.22	.96	1.25	11.65	4.70	3.71
1984	1.07	1.89	1.13	.64	.32	.39	1.25	.92	1.22	11.65	4.74	3.55
1985	1.05	1.94	.99	.67	.29	.38	1.26	.99	1.07	11.68	4.87	3.60
1986	.97	1.77	1.02	.65	.31	.39	1.24	1.02	.96	12.47	4.95	3.52
1987	1.01	1.89	1.01	.64	.30	.38	1.23	.90	.96	11.70	5.12	3.38
1988	.96	1.89	1.04	.64	.33	.38	1.23	.86	.84	11.50	5.00	3.48
1989	.95	1.78	.98	.63	.33	.38	1.26	1.02	1.00	10.98	4.83	3.64
1990	1.00	2.01	1.09	.63	.32	.38	1.27	1.00	1.12	10.70	4.82	3.62

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

14.3 DOMESTIC SUPPLY PRICE INDEX, 1980-1990

Section	All Items	Food	Beverages & Tobacco	Crude Materials	Mineral Fuels	Animal & Vegetable Oils	Chemicals & Chemical Products	Manufactured Goods	Machinery & Equipment	Miscellaneous Manufactures
Period \ Weights ¹	10,000	476	121	184	3,501	209	438	1,498	2,750	823
1985 = 100										
1980	107.4	105.9	76.0	137.2	104.0	103.6	113.2	112.6	96.4	110.7
1981	111.5	109.7	81.4	113.6	122.2	98.5	114.3	115.3	100.0	107.7
1982	106.8	106.8	85.9	100.2	113.8	84.5	110.4	111.6	101.1	103.5
1983	102.9	102.3	90.3	111.0	101.7	91.4	104.5	106.5	99.6	103.9
1984	102.3	103.1	98.1	110.8	98.1	131.3	102.3	104.8	101.6	101.9
1985	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1986	84.9	99.9	101.8	95.6	54.3	58.7	99.8	100.1	104.8	106.3
1987	91.3	100.9	106.7	99.1	65.9	67.4	106.3	105.0	107.1	110.3
1988	89.6	105.6	107.9	106.4	51.8	81.6	118.8	113.7	108.9	113.3
1989	91.9	108.7	114.5	101.0	58.8	67.8	112.8	120.2	106.9	111.3
1990	93.5	105.3	117.0	100.1	68.6	56.5	106.8	120.0	103.2	109.2
Percentage Change Over Previous Year										
1980	19.6	8.0	9.9	8.5	62.4	-12.1	20.8	9.1	6.5	14.0
1981	3.9	3.5	7.1	-17.3	17.5	-4.9	0.9	2.4	3.7	-2.7
1982	-4.2	-2.6	5.5	-11.8	-6.9	-14.3	-3.4	-3.2	1.1	-3.9
1983	-3.7	-4.2	5.1	10.8	-10.6	8.2	-5.2	-4.6	-1.5	0.4
1984	-0.6	0.8	8.6	-0.2	-3.5	43.7	-2.2	-1.6	2.0	-1.9
1985	-2.3	-3.0	2.0	-9.8	1.9	-23.9	-2.2	-4.6	-1.6	-1.9
1986	-15.1	-0.1	1.8	-4.4	-45.7	-41.3	-0.2	0.1	4.8	6.3
1987	7.5	1.0	4.9	3.6	21.4	14.8	6.5	4.9	2.2	3.7
1988	-1.9	4.7	1.1	7.6	-21.5	21.1	11.6	8.2	1.6	2.8
1989	2.6	2.9	6.1	-5.1	13.5	-16.9	-5.1	5.7	-1.8	-1.8
1990	1.7	-3.1	2.2	-0.9	16.6	-16.6	-5.3	-0.1	-3.5	-1.9

¹ The weights for indices after 1984 were based on the 1984 distribution pattern of retained imports and locally manufactured goods sold in the domestic market. Prior to 1985, the weights were based on 1973 distribution pattern.

14.4 SINGAPORE MANUFACTURED PRODUCTS PRICE INDEX, 1980-1990

Section	All Items	Food	Beverages & Tobacco	Crude Materials	Mineral Fuels	Animal & Vegetable Oils	Chemicals & Chemical Products	Manufactured Goods	Machinery & Equipment	Miscellaneous Manufactures
Period \ Weights ¹	10,000	282	125	207	3,104	167	580	1,082	3,479	974
1985 = 100										
1980	113.2	102.9	71.9	153.6	112.4	99.1	112.6	116.6	98.0	108.9
1981	116.4	104.7	77.6	122.7	128.1	93.9	117.6	118.4	103.0	107.8
1982	110.3	99.9	82.8	105.2	121.1	84.9	114.4	113.4	99.7	105.3
1983	106.1	97.9	87.9	119.9	107.0	86.9	106.3	109.8	98.0	106.6
1984	103.9	100.7	97.7	114.4	101.5	119.0	103.0	106.6	102.4	103.3
1985	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1986	85.2	98.4	99.7	98.7	59.0	68.8	96.4	96.4	96.8	102.6
1987	87.1	97.2	104.0	107.3	63.9	73.5	106.8	96.1	94.9	104.2
1988	85.5	94.3	106.2	116.5	53.7	86.5	124.8	101.6	93.2	106.1
1989	87.4	96.7	116.8	101.0	59.8	84.1	112.8	111.6	92.6	106.1
1990	90.8	96.4	119.3	99.4	71.3	73.8	104.2	116.8	92.8	105.1
Percentage Change Over Previous Year										
1980	23.4	8.0	9.7	6.9	58.0	-8.8	28.4	6.6	11.9	17.3
1981	2.9	1.8	7.9	-20.1	13.9	-5.2	4.4	1.5	5.0	-1.0
1982	-5.2	-4.6	6.7	-14.3	-5.4	-9.7	-2.7	-4.2	-3.2	-2.2
1983	-3.8	-2.1	6.3	13.9	-11.6	2.4	-7.0	-3.1	-1.6	1.2
1984	-2.1	2.9	11.1	-4.6	-5.2	37.0	-3.1	-2.9	4.5	-3.1
1985	-3.8	-0.7	2.4	-12.5	-1.5	-16.0	-2.9	-6.1	-2.4	-3.2
1986	-14.8	-1.6	-0.3	-1.3	-41.0	-31.2	-3.6	-3.6	-3.2	2.6
1987	2.2	-1.3	4.4	8.7	8.4	6.8	10.8	-0.3	-1.9	1.5
1988	-1.8	-2.9	2.1	8.5	-16.1	17.6	16.9	5.7	-1.8	1.9
1989	2.2	2.5	10.0	-13.3	11.4	-2.8	-9.6	9.8	-0.6	-
1990	3.9	-0.3	2.1	-1.6	19.3	-12.3	-7.6	4.6	0.2	-1.0

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

14.5 IMPORT PRICE INDEX, 1980-1990

Section	All Items	Food	Beverages & Tobacco	Crude Materials	Mineral Fuels	Animal & Vegetable Oils	Chemicals & Chemical Products	Manufactured Goods	Machinery & Equipment	Miscellaneous Manufactures
Period \ Weights ¹	10,000	682	72	507	2,923	234	491	1,366	3,065	660
1985 = 100										
1980	109.4	102.9	87.8	152.3	102.6	106.4	110.8	112.0	96.4	105.6
1981	111.1	104.5	94.3	120.9	120.8	102.4	109.4	114.0	99.9	106.4
1982	106.2	104.2	96.4	102.2	112.5	83.3	105.6	110.5	102.4	103.1
1983	103.5	100.1	98.1	118.2	100.4	90.9	102.3	105.0	100.8	100.7
1984	102.8	101.4	99.0	114.0	97.1	138.1	101.2	103.7	102.0	100.6
1985	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1986	88.3	100.0	104.3	99.2	53.6	56.2	105.2	99.2	107.6	107.4
1987	95.6	99.9	109.3	109.3	66.5	65.4	106.1	107.5	111.7	111.8
1988	96.0	103.8	108.9	124.4	51.8	79.7	117.2	118.5	115.2	114.8
1989	95.9	103.0	110.1	105.2	59.0	64.9	110.1	121.6	113.0	111.9
1990	95.0	96.3	112.0	93.0	68.5	53.3	104.5	116.4	108.9	109.0
Percentage Change Over Previous Year										
1980	16.8	5.7	9.6	9.1	64.4	-12.8	15.2	8.8	6.2	7.8
1981	1.6	1.6	7.4	-20.6	17.7	-3.8	-1.3	1.8	3.6	0.7
1982	-4.4	-0.3	2.2	-15.5	-6.9	-18.6	-3.4	-3.1	2.5	-3.1
1983	-2.6	-4.0	1.8	15.7	-10.8	9.2	-3.1	-5.0	-1.6	-2.3
1984	-0.7	1.3	0.9	-3.5	-3.3	51.9	-1.1	-1.2	1.2	-0.1
1985	-2.7	-1.4	1.0	-12.3	3.0	-27.6	-1.2	-3.6	-1.9	-0.6
1986	-11.7	-	4.3	-0.8	-46.4	-43.8	5.3	-0.8	7.5	7.4
1987	8.2	-0.1	4.8	10.2	24.1	16.5	0.8	8.4	3.9	4.1
1988	0.4	4.0	-0.4	13.8	-22.0	21.7	10.4	10.1	3.1	2.7
1989	-0.1	-0.8	1.1	-15.4	13.8	-18.5	-6.0	2.6	-1.9	-2.6
1990	-1.0	-6.5	1.7	-11.6	16.2	-17.9	-5.1	-4.3	-3.6	-2.5

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

14.6 EXPORT PRICE INDEX, 1980-1990

Section	All Items	Food	Beverages & Tobacco	Crude Materials	Mineral Fuels	Animal & Vegetable Oils	Chemicals & Chemical Products	Manufactured Goods	Machinery & Equipment	Miscellaneous Manufactures	
Period	Weights ¹	10,000	555	46	648	3,021	288	565	784	3,417	676
	1985 = 100										
1980	110.8	100.4	95.9	147.8	117.8	125.1	99.2	115.7	88.8	99.7	
1981	114.9	96.4	101.7	117.8	129.3	111.9	100.1	116.3	97.5	104.7	
1982	111.4	94.8	103.7	100.8	125.1	97.5	101.7	112.0	99.4	103.2	
1983	106.1	92.8	104.1	117.0	110.1	96.6	100.6	107.1	100.3	100.5	
1984	102.0	96.5	101.2	113.3	102.0	123.7	103.4	103.6	96.9	100.6	
1985	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
1986	85.9	100.9	102.0	99.5	59.2	69.2	98.8	95.2	98.3	102.6	
1987	88.9	99.9	103.8	113.4	64.6	71.9	103.5	100.8	96.7	105.0	
1988	87.6	99.8	106.2	132.8	54.2	81.6	117.1	109.9	93.0	107.2	
1989	87.2	94.4	109.3	111.2	60.5	73.5	109.5	112.6	92.8	106.0	
1990	87.6	86.2	110.4	97.8	72.5	70.3	103.0	106.8	89.6	107.6	
	Percentage Change Over Previous Year										
1980	23.3	3.4	13.2	3.5	55.3	-6.0	25.9	9.2	3.5	6.4	
1981	3.7	-4.0	6.0	-20.3	9.8	-10.5	1.0	0.6	9.8	4.9	
1982	-3.1	-1.6	2.0	-14.4	-3.3	-12.9	1.6	-3.7	2.0	-1.4	
1983	-4.7	-2.1	0.4	16.0	-11.9	-0.8	-1.2	-4.4	0.9	-2.7	
1984	-3.9	4.0	-2.7	-3.2	-7.3	28.0	2.8	-3.2	-3.4	0.2	
1985	-1.9	3.6	-1.2	-11.6	-2.0	-19.2	-3.3	-3.6	3.2	-0.6	
1986	-14.0	0.8	1.9	-0.5	-40.8	-30.8	-1.2	-4.8	-1.7	2.6	
1987	3.4	-0.9	1.8	14.0	9.1	3.9	4.8	5.9	-1.6	2.3	
1988	-1.4	-0.1	2.3	17.1	-16.2	13.4	13.2	9.0	-3.8	2.1	
1989	-0.4	-5.4	2.9	-16.3	11.6	-9.9	-6.5	2.5	-0.3	-1.1	
1990	0.4	-8.7	0.9	-12.0	19.8	-4.4	-5.9	-5.2	-3.4	1.5	

¹ The weights for indices after 1984 were based on the 1984 distribution pattern of exports. Prior to 1985, the weights were based on the 1978 distribution pattern.

14.7 BUILDING MATERIALS PRICE INDEX, 1980-1990

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											
1980	118.0	108.2	121.1	95.7	152.5	98.6	110.5	121.7	151.6	89.1	93.0
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
Percentage Change Over Previous Year											
1980	14.9	10.6	69.4	13.2	6.2	47.0	12.8	9.1	8.1	13.4	9.8
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

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.

14.8 LOCAL FARM PRODUCTS PRICE INDEX, 1980-1990

Section	All Items	Pigs	Fowls	Ducks	Hen Eggs	Leafy Vegetables	Fruit Vegetables	Root Vegetables	Fresh Fish
Period \ Weights ¹	10,000	3,621	2,366	605	1,015	702	26	7	1,658
1985 = 100									
1980	98.8	109.3	104.8	108.0	102.0	72.1	78.7	65.2	81.9
1981	112.2	125.6	118.5	133.7	123.9	74.0	83.5	77.8	89.4
1982	117.1	132.2	116.0	121.6	108.0	101.9	109.9	86.1	95.0
1983	115.9	133.3	108.2	109.2	98.6	111.5	113.7	98.6	94.8
1984	103.6	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	100.0
1986	93.5	94.9	87.2	98.9	91.6	87.3	97.0	88.8	101.0
1987	95.0	98.1	87.7	94.3	91.6	102.9	106.5	88.8	97.7
1988	98.0	107.0	81.0	100.7	107.3	94.6	105.7	88.8	97.4
1989	97.6	104.2	89.8	104.5	91.5	91.0	97.8	95.1	98.2
1990	101.6	95.4	113.6	109.9	104.6	89.6	102.7	98.6	98.5
Percentage Change Over Previous Year									
1980	10.8	18.5	-0.7	27.2	-5.2	33.6	12.5	16.7	4.0
1981	13.6	14.9	13.0	23.8	21.6	2.6	6.5	19.3	9.2
1982	4.3	5.3	-2.1	-9.1	-12.8	37.7	31.6	10.7	6.2
1983	-1.0	0.8	-6.7	-10.2	-8.8	9.4	3.4	14.5	-0.2
1984	-10.6	-24.4	-4.9	5.9	12.3	-4.1	-2.7	13.4	8.1
1985	-3.5	-0.8	-2.8	-13.5	-9.7	-6.5	-9.6	-10.6	-2.4
1986	-6.5	-5.1	-12.8	-1.1	-8.3	-12.6	-2.9	-11.1	1.0
1987	1.7	3.4	0.6	-4.7	-0.1	17.8	9.8	-	-3.2
1988	3.1	9.0	-7.6	6.9	17.1	-8.0	-0.8	-	-0.4
1989	-0.4	-2.6	10.8	3.7	-14.7	-3.8	-7.5	7.0	0.9
1990	4.1	-8.5	26.4	5.2	14.2	-1.6	5.0	3.7	0.3

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

14.9 PROPERTY PRICE INDEX, 1980-1989
(1985 = 100)

Property Type	All Properties	Residential						Commercial			Industrial
		Total	Bungalows	Semi-detached Bungalows	Terrace Houses	Flats Apartments	Condominium Units	Total	Offices	Shop Units	Flatted Factories/Warehouses
Period \ Weights	10,000	9,066	990	1,694	1,932	1,701	2,749	621	267	354	313
1980	71	65	58	54	51	79		96	80	115	91
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

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

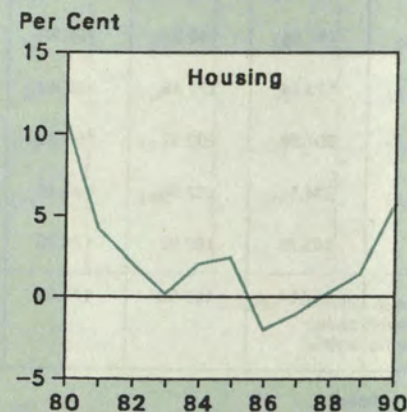
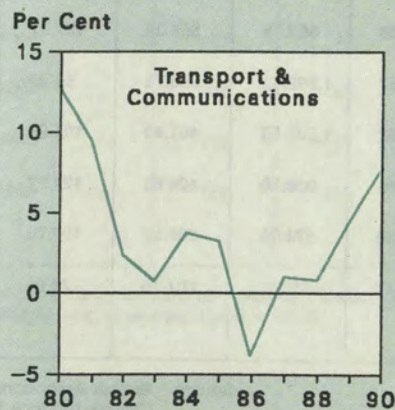
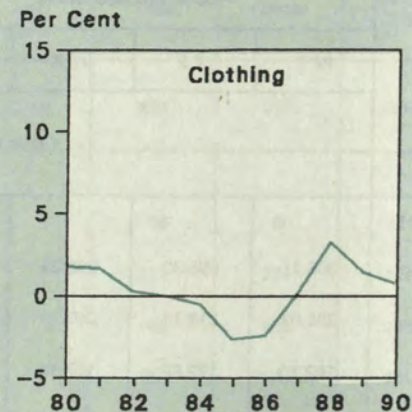
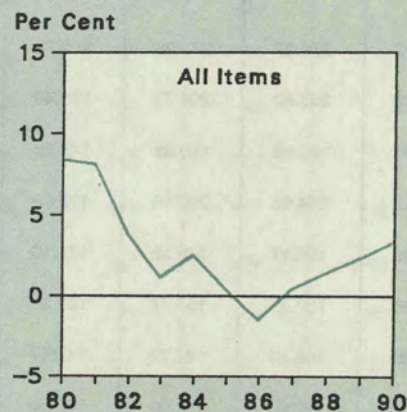
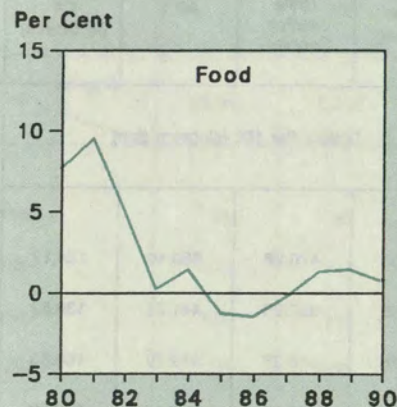
14.10 PRODUCE PRICES, 1980-1990

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 Lampong	White Muntok Genuine			
	Int 1	Int 2	Int 3	Int 4								
Cents Per Kilogram (fob)							Dollars Per 100 kilogram (fob)				M\$ Per Kilogram (fob)	
1980	308.41	295.32	292.32	286.27	274.37	271.26	252.74	367.53	476.28	650.16	154.17	35.66
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

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

Source : Rubber Association of Singapore
 Chinese Produce Exchange

ANNUAL CHANGES IN CONSUMER PRICE INDEX, 1980-1990



15 EDUCATION

ATION

15 EDUCATION

A fundamental feature of our education system is the bilingual policy which requires each child to learn English and his mother tongue. This policy is applied up to upper secondary level for academic courses.

Primary Education

The first three years of primary education emphasise the learning of languages to facilitate the learning of content knowledge in the later stages of education. At the end of primary three, pupils are streamed into the Normal Bilingual, Extended Bilingual and the Monolingual courses. Primary education may be either six or eight years in duration, depending on the ability of the pupils.

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 Singapore-Cambridge 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.

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 Singapore-Cambridge 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' and 'Education in Singapore' 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 50 courses at 15 training institutes. The Board offers skills training leading to the Industrial Technician Certificate, the National Trade Certificate and the Certificate of Vocational Training. Commercial training programmes leading to the Certificate in Business Studies and the Certificate in Office Skills are also conducted.

The VITB also offers the opportunity for workers to acquire new or upgrade their skills through the part-time Modular Skills Training (MOST) Scheme. Similarly, it conducts the Basic Education for Skills Training (BEST) programme for raising the literacy and numeracy levels of workers who do not have sufficient education to take up skills training while 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.

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 Institute, the Singapore Polytechnic, the Ngee Ann Polytechnic, the Temasek Polytechnic, the Institute of Education and the College of Physical Education.

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) and three research institutes (Systems Science, Molecular and Cell Biology and Micro-electronics).

The Nanyang Technological Institute (NTI) was established in August 1981. It started with three Schools of Engineering, viz School of Civil and Structural Engineering, School of Electrical and Electronic Engineering and School of Mechanical and Production Engineering. The engineering courses are carefully designed to give emphasis on engineering practice, aimed at producing practice - oriented engineers. Over the years, other courses, mainly professional, were also offered — Accountancy in 1987 and Commerce and Computer Technology in 1989. The Commerce course has since been renamed the Business course. All these courses are similarly practice-oriented in nature. The Institute will be re-constituted and re-named the Nanyang Technological University in 1991. The new University will award its own degree from 1992.

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 Biotechnology, Nautical Studies, Plastic Mould Design, Mass Communication, Public Health Engineering, Software Engineering, Graphic Design and Product Design. Some of the

specialized courses are conducted on a part-time basis so that persons who are working can also enrol in them.

The Institute of Education is responsible for teacher-training and the promotion of research in education. The Institute provides training for primary, secondary school and junior college teachers. The pre-service training includes a one-year full-time Postgraduate Diploma in Education Programme for preparing university graduates to be teachers in primary and secondary schools as well as junior colleges and a two-year full-time Diploma in Education Programme for preparing teachers for primary and lower secondary levels. The Institute also provides further training for practising teachers through short-term in-service courses. In addition, it offers one-year full-time courses to prepare participants for the role of Principals, Vice-Principals and heads of departments in primary and secondary schools. Other courses offered include the two-year part-time training programme in the teaching of Chinese, Malay and Tamil languages and a programme to prepare participants for a higher degree in education.

Further information on the Institute of Education's training programmes are available in the Institute's annual report.

The College of Physical Education, established in July 1984, trains specialist teachers of physical education for primary and secondary schools and junior colleges. Both pre-service and in-service students participate in the same programmes. The two-year pre-service programme is designed

for 'A' level applicants and university graduates, and two in-service programmes are designed specifically for primary or secondary school teachers who study on a full-time basis for one academic year. Other courses conducted include short in-service courses to upgrade the knowledge and skill of PE teachers.

The college also conducts research programmes on the effectiveness of school physical education programmes

and teaching; the influence of physical activity on obesity and health-related fitness through PE.

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, 1980 -1990

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		
1980	501,887	291,722	156,491	136,391	16,421	3,679	17,202	12,162	911	4,129	13,839	22,633
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	537,619	259,270	168,587	139,787	19,622	9,178	33,168	22,259	-	10,909	29,604	46,990
1989	538,009	257,833	166,274	139,464	17,730	9,080	32,802	21,598	-	11,204	30,344	50,756
1990	534,055*	257,932	161,029	136,365	15,819	8,845	30,430	19,435	-	10,995	29,102	55,562*

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 Institute, Singapore Polytechnic, Ngee Ann Polytechnic, Temasek Polytechnic, Institute of Education and the College of Physical Education.

Source : Ministry of Education

15.2 STUDENTS AND TEACHERS IN EDUCATIONAL INSTITUTIONS, END JUNE 1990

Number

	Institutions ¹	Students			Teachers		
		Total	Males	Females	Total	Males	Females
Total	430	534,055*	285,826*	248,229*	25,376	10,782	14,594
Primary Schools	208	257,932	135,663	122,269	10,006	2,773	7,233
Secondary Schools	146	161,029	82,342	78,687	7,657	2,897	4,760
Pre-U Centres ² & Centralised Institutes ³	32 ⁴	8,335	2,749	5,586	-	-	-
Junior Colleges	14	22,095	10,470	11,625	1,540	556	984
Technical & Vocational Institutes & Economic Development Board Institutes	23	29,102	21,980	7,122	1,558	1,152	406
Polytechnics	3	29,474	19,229	10,245	1,944	1,398	546
Institute of Education & College of Physical Education	2	1,781	432	1,349	183	102	81
National University of Singapore & Nanyang Technological Institute	2	24,307*	12,961*	11,346*	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 28 Pre-U Centres where Pre-U classes are held in Secondary Schools.

15.3 PRIMARY SCHOOLS, STUDENTS AND TEACHERS BY TYPE OF SCHOOL, 1980 -1990

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total Schools	338	328	320	305	275	252	236	230	221	212	208
Government	199	200	211	207	193	180	172	169	166	158	157
Government-aided	137	126	107	96	81	71	63	60	54	53	50
Private	2	2	2	2	1	1	1	1	1	1	1
Total Students	291,722	285,179	286,780	290,800	288,623	278,060	268,820	261,603	259,270	257,833	257,932
Government	214,187	210,245	217,885	219,742	219,930	211,855	205,281	199,174	198,429	196,186	195,994
Government-aided	77,323	74,756	68,734	70,862	68,564	66,020	63,387	62,225	60,688	61,504	61,763
Private	212	178	161	196	129	185	152	204	153	143	175
Total Teachers¹	10,090	9,465	9,452	9,921	10,420	10,363	10,264	10,199	9,962	9,998	10,006
Government	7,244	7,260	7,437	7,854	7,958	7,917	7,921	7,893	7,798	7,797	7,848
Government-aided	2,837	2,194	2,007	2,061	2,458	2,434	2,335	2,297	2,164	2,201	2,158
Private	9	11	8	6	4	12	8	9	na ²	na ²	na ²

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

2 Included as secondary school teachers.

Source : Ministry of Education

15.4 ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED PRIMARY SCHOOLS BY LEVEL AND AGE, END JUNE 1990

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		135,573	20,372	21,637	21,374	20,953	20,941	20,200	5,782	4,120	163	31
Primary 1		20,514	20,365	112	31	6	-	-	-	-	-	-
Primary 2		21,793	7	21,515	195	68	6	2	-	-	-	-
Primary 3		21,467	-	10	21,141	215	85	13	3	-	-	-
Primary 4												
Normal		18,313	-	-	7	17,952	231	99	17	7	-	-
Extended		1,619	-	-	-	1,585	29	5	-	-	-	-
Monolingual		1,132	-	-	-	1,115	14	3	-	-	-	-
Primary 5												
Normal		17,060	-	-	-	11	16,641	253	117	31	7	-
Extended		2,977	-	-	-	1	2,893	61	17	4	1	-
Monolingual		1,059	-	-	-	-	1,032	13	12	2	-	-
Primary 6												
Normal		16,184	-	-	-	-	10	14,887	917	342	23	5
Extended		2,292	-	-	-	-	-	2,223	55	13	1	-
Monolingual		1,340	-	-	-	-	-	1,305	24	10	1	-
Primary 7												
Extended		3,278	-	-	-	-	-	1,335	1,860	69	11	3
Monolingual		1,514	-	-	-	-	-	1	1,470	31	11	1
Primary 8												
Extended		3,608	-	-	-	-	-	-	1,290	2,219	82	17
Monolingual		1,423	-	-	-	-	-	-	-	1,392	26	5

Source : Ministry of Education

15.4 ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED PRIMARY SCHOOLS BY LEVEL AND AGE, END JUNE 1990
b) Females

Age		Number									
Level & Course	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	122,184	18,675	19,685	19,701	19,297	19,117	18,858	4,160	2,594	87	10
Primary 1	18,803	18,668	118	14	3	-	-	-	-	-	-
Primary 2	19,789	7	19,562	159	54	5	2	-	-	-	-
Primary 3	19,787	-	5	19,525	186	56	11	4	-	-	-
Primary 4											
Normal	17,773	-	-	3	17,511	182	60	13	4	-	-
Extended	1,001	-	-	-	985	12	2	1	1	-	-
Monolingual	563	-	-	-	552	7	4	-	-	-	-
Primary 5											
Normal	16,384	-	-	-	6	16,131	184	52	9	2	-
Extended	2,178	-	-	-	-	2,139	31	8	-	-	-
Monolingual	584	-	-	-	-	573	8	2	-	1	-
Primary 6											
Normal	16,324	-	-	-	-	12	14,995	958	345	12	2
Extended	1,689	-	-	-	-	-	1,654	29	5	1	-
Monolingual	726	-	-	-	-	-	712	12	2	-	-
Primary 7											
Extended	2,472	-	-	-	-	-	1,195	1,224	47	6	-
Monolingual	715	-	-	-	-	-	-	695	17	3	-
Primary 8											
Extended	2,804	-	-	-	-	-	-	1,161	1,588	50	5
Monolingual	592	-	-	-	-	-	-	1	576	12	3

Source : Ministry of Education

15.5 SECONDARY SCHOOLS, STUDENTS AND TEACHERS BY TYPE OF SCHOOL, 1980 -1990

Type of School	Number										
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total Schools	141	145	150	147	150	149	157	161	161	164	164
Government	86	90	94	93	98	98	109	113	113	116	115
Government-aided & Independent	51	51	52	50	48	47	44	44	44	44	45
Private	4	4	4	4	4	4	4	4	4	4	4
Total Students	173,693	177,238	176,845	182,343	187,764	190,328	203,088	202,857	201,755	199,076	191,459
Government	125,011	128,127	128,786	133,839	137,400	137,526	149,296	148,240	147,596	145,587	137,800
Government-aided & Independent	46,794	47,333	46,266	46,629	48,445	50,763	51,840	52,885	52,589	51,971	51,956
Private	1,888	1,778	1,793	1,875	1,919	2,039	1,952	1,732	1,570	1,518	1,703
Total Teachers ¹	7,906	8,273	8,347	8,644	8,236	8,562	8,695	9,369	9,040	9,236	9,197
Government	5,605	5,655	5,694	5,946	6,006	6,261	6,461	6,960	6,806	6,834	6,698
Government-aided & Independent	2,234	2,553	2,584	2,625	2,150	2,227	2,159	2,341	2,161	2,338	2,428
Private	67	65	69	73	80	74	75	68	73	64	71

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

Source : Ministry of Education

15.6 ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED SECONDARY SCHOOLS BY LEVEL AND AGE, END JUNE 1990

a) Males

Age		Number									
Level & Course	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	94,947	17	14,211	18,106	17,589	18,366	13,622	9,670	2,528	664	174
Secondary 1											
Special	1,221	3	1,184	23	11	-	-	-	-	-	-
Express	10,086	13	8,896	688	438	41	10	-	-	-	-
Normal	7,013	1	4,121	1,711	1,103	69	6	2	-	-	-
Secondary 2											
Special	1,144	-	-	1,125	13	6	-	-	-	-	-
Express	11,222	-	10	10,117	510	520	44	19	2	-	-
Normal	7,074	-	-	4,432	1,406	1,153	60	20	3	-	-
Secondary 3											
Special	1,136	-	-	-	1,092	28	15	1	-	-	-
Express	10,713	-	-	10	9,045	964	612	64	17	1	-
Normal	6,726	-	-	-	3,959	1,518	1,176	53	17	3	-
Secondary 4											
Special	1,096	-	-	-	-	1,048	35	13	-	-	-
Express	11,843	-	-	-	12	9,350	1,612	767	75	22	5
Normal	6,948	-	-	-	-	3,665	1,802	1,363	89	22	7
Secondary 5											
Normal	5,889	-	-	-	-	-	3,335	1,732	759	58	5
Pre-University 1	812	-	-	-	-	-	447	269	89	6	1
Pre-University 2	770	-	-	-	-	-	-	405	268	91	6
Pre-University 3	784	-	-	-	-	-	-	-	342	298	144
Junior College 1	5,224	-	-	-	-	4	4,462	620	134	4	-
Junior College 2	5,246	-	-	-	-	-	6	4,342	733	159	6

Source : Ministry of Education

15.6 ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED SECONDARY SCHOOLS BY LEVEL AND AGE, END JUNE 1990
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	94,809	6	14,076	17,625	17,141	17,895	14,006	10,280	2,831	777	172
Secondary 1											
Special	1,133	-	1,104	19	9	1	-	-	-	-	-
Express	10,027	6	9,117	616	264	18	5	-	1	-	-
Normal	6,279	-	3,843	1,506	888	36	6	-	-	-	-
Secondary 2											
Special	1,134	-	1	1,113	16	3	1	-	-	-	-
Express	11,114	-	11	10,326	438	310	24	5	-	-	-
Normal	6,093	-	-	4,039	1,183	826	34	11	-	-	-
Secondary 3											
Special	1,092	-	-	1	1,052	32	7	-	-	-	-
Express	10,790	-	-	5	9,605	695	436	42	6	1	-
Normal	5,897	-	-	-	3,679	1,253	914	41	8	2	-
Secondary 4											
Special	1,071	-	-	-	1	1,040	23	6	1	-	-
Express	11,890	-	-	-	6	10,089	1,204	543	43	3	2
Normal	6,249	-	-	-	-	3,583	1,538	1,072	47	8	1
Secondary 5											
Normal	5,662	-	-	-	-	-	3,520	1,446	650	43	3
Pre-University 1	1,720	-	-	-	-	2	1,102	496	115	4	1
Pre-University 2	1,557	-	-	-	-	-	-	1,067	387	99	4
Pre-University 3	1,476	-	-	-	-	-	-	-	835	483	158
Junior College 1	5,823	-	-	-	-	7	5,186	568	61	-	1
Junior College 2	5,802	-	-	-	-	-	6	4,983	677	134	2

Source : Ministry of Education

15.7 ENROLMENT AT PRIMARY LEVELS IN PRIVATE REGULAR SCHOOLS BY LEVEL AND AGE, END JUNE 1990

BY LEVEL AND AGE, END JUNE 1990												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	
Total Primary 1 Primary 2 Primary 3 Primary 4 Primary 5 Primary 6	Males											
	90	4	5	6	7	6	10	6	6	25	15	
	10	4	4	2	-	-	-	-	-	-	-	
	7	-	1	3	1	-	2	-	-	-	-	
	10	-	-	1	2	4	2	-	1	-	-	
	16	-	-	-	4	-	5	-	2	3	2	
	6	-	-	-	-	1	-	2	1	2	-	
	41	-	-	-	-	1	1	4	2	20	13	
	Females											
	85	2	12	5	3	7	4	9	5	23	15	
	5	1	4	-	-	-	-	-	-	-	-	
	10	1	7	2	-	-	-	-	-	-	-	
	9	-	1	3	-	2	-	3	-	-	-	
	9	-	-	-	3	2	-	1	2	1	-	
	9	-	-	-	-	3	2	2	1	1	-	
43	-	-	-	-	-	2	3	2	21	15		

Source : Ministry of Education

**15.8 ENROLMENT AT SECONDARY LEVELS IN PRIVATE REGULAR SCHOOLS
BY LEVEL AND AGE, END JUNE 1990**

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	614	3	11	28	47	84	153	155	81	52
Secondary 1	81	3	3	25	27	13	8	-	1	1
Secondary 2	56	-	8	1	10	19	12	5	1	-
Secondary 3	64	-	-	2	9	14	21	7	4	7
Secondary 4	30	-	-	-	1	2	10	11	3	3
Pre-University 1	196	-	-	-	-	36	72	61	19	8
Pre-University 2	187	-	-	-	-	-	30	71	53	33
Pre-University 3	-	-	-	-	-	-	-	-	-	-
Females										
Total	1,089	1	7	40	60	155	272	294	156	104
Secondary 1	102	1	5	34	39	17	2	2	-	2
Secondary 2	58	-	2	2	14	21	15	3	-	1
Secondary 3	68	-	-	4	2	19	20	12	10	1
Secondary 4	28	-	-	-	5	1	2	6	7	7
Pre-University 1	444	-	-	-	-	96	173	117	37	21
Pre-University 2	270	-	-	-	-	1	56	108	70	35
Pre-University 3	119	-	-	-	-	-	4	46	32	37

Source : Ministry of Education

15.9 ENROLMENT IN INSTITUTIONS OF HIGHER LEARNING, 1980-1990

Number

Year	Total ¹		National University ² of Singapore		Nanyang Technological Institute		Singapore Polytechnic	
	Males	Females	Males	Females	Males	Females	Males	Females
1980	14,124	8,509	5,162	4,038	-	-	6,562	1,712
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	18,326	8,254	7,946	2,650	1,751	10,479	3,553
1989	30,380	20,376	8,315	8,311	3,357	2,125	10,676	4,059
1990	32,622*	22,940*	8,696*	8,646*	4,265	2,700	10,864	4,583

1 Include part-time students.

2 Figures include enrolment for both undergraduate and postgraduate courses, including Regional English Language Centre candidates for higher degrees of National University of Singapore.

Source : Ministry of Education

15.9 ENROLMENT IN INSTITUTIONS OF HIGHER LEARNING, 1980-1990 (continued)

Number

Year	Ngee Ann Polytechnic		Temasek Polytechnic		Institute of Education		College of Physical Education	
	Males	Females	Males	Females	Males	Females	Males	Females
1980	2,049	782	-	-	351	1,977	-	-
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	185	551	347	1,284	85	65

Source : Ministry of Education

15.10 MALE STUDENTS ADMITTED TO INSTITUTIONS OF HIGHER LEARNING, 1980/81-1990/91

		Number										
Course	Session	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91
Total		5,081	5,596	6,570	6,907	8,749	9,468	8,966	9,600	9,829	10,957	11,833
National University of Singapore ¹		1,478	1,709	1,913	1,683	2,224	2,346	2,316	2,160	2,646	2,470	2,623
Arts & Social Sciences		181	225	237	172	223	242	262	238	321	313	391
Science ²		204	220	298	281	411	369	473	443	578	543	609
Medicine		105	132	147	134	157	143	128	102	97	99	100
Dentistry		20	19	22	23	35	29	22	21	24	23	25
Law		59	62	67	94	107	113	105	109	116	97	91
Business Administration		128	155	171	123	141	199	196	171	204	207	219
Accountancy ³		85	89	91	81	101	122	134	-	-	-	-
Architecture, Building & Estate Management		142	149	112	114	173	143	121	100	84	101	115
Engineering		554	658	768	661	876	986	875	976	1,222	1,087	1,073
Nanyang Technological Institute		-	-	-	-	-	641	695	887	988	1,558	1,888
Engineering		-	-	-	-	-	641	695	694	786	1,147	1,268
Accountancy ³		-	-	-	-	-	-	-	193	202	223	318
Business		-	-	-	-	-	-	-	-	-	65	110
Computer Technology		-	-	-	-	-	-	-	-	-	123	192
Singapore Polytechnic ⁴		2,743	2,964	3,335	3,700	4,109	3,820	3,510	3,846	3,482	3,715	3,891
Engineering		2,316	2,320	2,745	3,017	3,519	3,333	3,140	3,409	2,984	3,148	3,197
Architecture & Building		332	478	414	450	416	351	229	198	213	226	219
Nautical		95	119	120	105	87	71	71	83	62	75	114
Business Administration ⁵		-	47	56	128	87	65	70	106	100	207	192
Computer ⁶		-	-	-	-	-	-	-	50	123	59	169
Ngee Ann Polytechnic ⁷		733	796	1,173	1,348	2,262	2,436	2,276	2,485	2,513	2,927	2,936
Engineering		619	663	951	1,081	1,985	2,159	1,908	2,128	2,215	2,564	2,646
Business Studies & Accountancy		114	133	165	192	167	228	301	279	220	254	209
Computer Studies		-	-	57	75	110	49	67	78	78	99	71
Mass Communication		-	-	-	-	-	-	-	-	-	10	10
Temasek Polytechnic ⁸		-	-	-	-	-	-	-	-	-	-	182
Business		-	-	-	-	-	-	-	-	-	-	79
Design		-	-	-	-	-	-	-	-	-	-	103
Institute of Education		127	127	149	176	129	199	144	197	183	236	268
College of Physical Education ⁹		-	-	-	-	25	26	25	25	17	51	45

1 Figures cover undergraduates only.

2 Include Pharmacy.

3 The School of Accountancy was transferred from National University of Singapore to Nanyang Technological Institute in July 1987.

4 Include part-time students.

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

6 Refer to courses conducted by Japan-Singapore Institute of Software Technology.

The Institute was transferred to Singapore Polytechnic with effect from 1 April 1987.

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

8 Temasek Polytechnic was established in April 1990.

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

Source : National University of Singapore
Nanyang Technological Institute
Singapore Polytechnic
Ngee Ann Polytechnic
Temasek Polytechnic
Institute of Education
College of Physical Education

15.11 FEMALE STUDENTS ADMITTED TO INSTITUTIONS OF HIGHER LEARNING, 1980/81-1990/91

		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												
	Total	3,388	3,281	4,185	4,882	5,064	5,639	5,919	6,575	6,882	7,893	9,022
National University of Singapore ¹		1,524	1,719	2,024	2,478	2,217	2,308	2,581	2,326	2,691	2,589	2,430
Arts & Social Sciences		466	513	661	781	686	719	785	773	979	971	955
Science ²		390	439	461	521	501	538	598	689	685	744	772
Medicine		65	38	53	68	49	57	61	79	73	61	50
Dentistry		18	19	15	14	3	9	16	14	10	11	9
Law		60	72	94	103	105	87	130	87	84	99	108
Business Administration		198	238	269	397	353	292	332	337	456	485	302
Accountancy ³		218	258	296	342	326	334	400	-	-	-	-
Architecture, Building & Estate Management		63	70	106	125	108	115	106	126	164	144	170
Engineering		46	72	69	127	86	157	153	221	240	74	64
Nanyang Technological Institute		-	-	-	-	-	82	118	563	679	945	1,222
Engineering		-	-	-	-	-	82	118	138	170	286	262
Accountancy ³		-	-	-	-	-	-	-	425	509	485	415
Business		-	-	-	-	-	-	-	-	-	140	474
Computer Technology		-	-	-	-	-	-	-	-	-	34	71
Singapore Polytechnic ⁴		737	778	859	997	1,189	1,000	895	1,316	1,405	1,633	1,882
Engineering		532	474	553	625	790	727	721	836	797	928	1,061
Architecture & Building		205	300	302	343	347	222	101	119	122	148	188
Nautical		-	-	-	-	-	-	-	-	-	1	1
Business Administration ⁵		-	4	4	29	52	51	73	239	333	476	468
Computer ⁶		-	-	-	-	-	-	-	122	153	80	164
Ngee Ann Polytechnic ⁷		379	358	561	904	1,220	1,476	1,517	1,664	1,512	1,959	2,024
Engineering		163	125	179	303	528	611	474	540	543	700	764
Business Studies & Accountancy		216	233	319	436	582	765	865	934	801	973	952
Computer Studies		-	-	63	165	110	100	178	190	168	228	228
Mass Communication		-	-	-	-	-	-	-	-	-	58	80
Temasek Polytechnic ⁸		-	-	-	-	-	-	-	-	-	-	550
Business		-	-	-	-	-	-	-	-	-	-	341
Design		-	-	-	-	-	-	-	-	-	-	209
Institute of Education		748	426	741	503	418	737	778	671	570	734	877
College of Physical Education ⁹		-	-	-	-	20	36	30	35	25	33	37

Note : See note to Table 15.10

Source : National University of Singapore
Nanyang Technological Institute
Singapore Polytechnic
Ngee Ann Polytechnic
Temasek Polytechnic
Institute of Education
College of Physical Education

15.12 MALE GRADUATES FROM INSTITUTIONS OF HIGHER LEARNING, 1979/80-1989/90

Session Course		Number										
		1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90
Total		3,055	3,426	3,736	4,085	4,749	5,140	5,827	6,847	7,347	7,406	7,634
National University of Singapore ¹		902	1,117	1,254	1,397	1,583	1,337	1,384	1,584	1,631	1,836	1,694
Arts & Social Sciences		188	229	209	224	239	280	249	281	291	325	317
Science ²		99	198	293	270	219	313	345	432	414	526	518
Medicine		69	68	77	83	105	82	103	155	113	164	151
Dentistry		15	18	11	27	23	12	20	23	26	34	17
Law		41	43	36	31	52	60	71	82	100	113	88
Business Administration		86	147	139	145	161	178	140	151	201	209	192
Accountancy		81	92	96	91	80	73	81	99	-	-	-
Architecture, Building & Estate Management		77	51	91	112	155	146	130	152	180	148	143
Engineering		246	271	302	414	549	193	245	209	306	317	268
Nanyang Technological Institute		-	-	-	-	-	501	597	560	736	794	823
Engineering		-	-	-	-	-	501	597	560	736	664	642
Accountancy		-	-	-	-	-	-	-	-	-	130	181
Singapore Polytechnic ³		1,590	1,594	1,838	1,965	2,148	2,223	2,527	2,776	2,909	2,825	3,016
Engineering		1,390	1,412	1,536	1,598	1,694	1,811	2,037	2,397	2,464	2,412	2,644
Architecture & Building		179	157	274	262	287	291	324	234	317	268	184
Nautical		21	25	28	67	106	79	80	35	30	32	27
Business Administration ⁴		-	-	-	38	61	42	86	55	39	47	94
Computer ⁵		-	-	-	-	-	-	-	55	59	66	67
Ngee Ann Polytechnic ³		452	493	492	585	834	953	1,167	1,769	1,878	1,780	1,827
Engineering		394	447	421	483	665	781	919	1,511	1,675	1,553	1,592
Business Studies & Accountancy		58	46	71	102	124	151	169	160	149	180	189
Computer Studies		-	-	-	-	45	21	79	98	54	47	46
Institute of Education		111	222	152	138	184	126	152	155	186	166	229
College of Physical Education ⁶		-	-	-	-	-	-	-	3	7	5	45

1 Cover first degree graduates only.

2 Include Pharmacy.

3 Include graduates from part-time courses.

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

5 Refer to courses conducted by Japan-Singapore Institute of Software Technology.

The Institute was transferred to Singapore Polytechnic with effect from 1 April 1987.

6 College of Physical Education was established in July 1984. Figures included in-service students

Source : National University of Singapore
Nanyang Technological Institute
Singapore Polytechnic
Ngee Ann Polytechnic
Institute of Education
College of Physical Education

15.13 FEMALE GRADUATES FROM INSTITUTIONS OF HIGHER LEARNING, 1979/80-1989/90

Session		Number										
		1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90
Course												
Total		1,789	2,941	2,783	2,866	3,583	3,815	4,591	5,036	5,235	5,409	6,077
National University of Singapore ¹		869	1,070	1,141	1,508	1,826	2,117	2,476	2,390	1,993	2,150	2,307
Arts & Social Sciences		330	390	414	541	600	766	873	828	808	887	876
Science ²		186	262	284	393	507	541	600	580	568	640	760
Medicine		47	53	51	44	58	55	47	45	56	60	56
Dentistry		18	18	11	16	21	15	15	17	2	10	11
Law		56	42	37	49	54	67	89	90	108	84	122
Business Administration		84	86	134	188	229	286	391	367	303	343	341
Accountancy		89	102	125	201	265	291	330	311	-	-	-
Architecture, Building & Estate Management		40	65	38	49	56	77	113	118	124	93	109
Engineering		19	52	47	27	36	19	18	34	24	33	32
Nanyang Technological Institute		-	-	-	-	-	56	64	104	386	522	510
Engineering		-	-	-	-	-	56	64	104	386	115	119
Accountancy		-	-	-	-	-	-	-	-	-	407	391
Singapore Polytechnic ³		379	469	586	561	615	644	714	950	911	941	1,184
Engineering		261	317	355	325	382	435	520	662	588	671	753
Architecture & Building		118	152	231	233	229	205	168	172	211	109	113
Nautical		-	-	-	-	-	-	-	-	-	-	-
Business Administration ⁴		-	-	-	3	4	4	26	37	41	73	227
Computer ⁵		-	-	-	-	-	-	-	79	71	88	91
Ngee Ann Polytechnic ³		128	102	259	343	459	589	765	941	1,181	1,207	1,357
Engineering		51	28	105	141	126	141	246	422	496	406	435
Business Studies & Accountancy		77	74	154	202	273	366	405	418	546	649	781
Computer Studies		-	-	-	-	60	82	114	101	139	152	141
Institute of Education		413	1,300	797	454	683	408	570	649	757	581	683
College of Physical Education ⁶		-	-	-	-	-	1	2	2	7	8	36

Note : See note to Table 15.12

Source : National University of Singapore
Nanyang Technological Institute
Singapore Polytechnic
Ngee Ann Polytechnic
Institute of Education
College of Physical Education

15.14 INTAKE OF TRAINEES OF VOCATIONAL AND INDUSTRIAL TRAINING INSTITUTES, 1986-1990

Number

Course Level	1986			1987			1988			1989			1990		
	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females
Total	22,807	17,914	4,893	27,011	20,590	6,421	27,473	21,726	5,747	29,066	22,922	6,144	29,507	23,350	6,157
Full-time	10,291	6,605	3,686	11,573	7,328	4,245	10,294	6,526	3,768	9,982	6,307	3,675	9,221	5,869	3,352
Part-time	12,516	11,309	1,207	15,438	13,262	2,176	17,179	15,200	1,979	19,084	16,615	2,469	20,286	17,481	2,805
Diploma in Applied Arts ¹	88	28	60	82	35	47	108	42	66	106	36	70	-	-	-
Full-time	88	28	60	82	35	47	108	42	66	106	36	70	-	-	-
Industrial Technician Certificate	1,167	989	178	1,493	1,304	189	1,751	1,506	245	1,708	1,482	226	1,871	1,622	249
Full-time	905	744	161	1,168	1,000	168	1,336	1,125	211	1,343	1,141	202	1,410	1,207	203
Part-time	262	245	17	325	304	21	415	381	34	365	341	24	461	415	46
Certificate in Business Studies	869	152	717	902	177	725	1,040	164	876	1,098	172	926	1,077	160	917
Full-time	869	152	717	902	177	725	1,040	164	876	1,098	172	926	1,077	160	917
National Trade Certificate (Grade 2)	4,143	3,908	235	5,367	4,978	389	5,987	5,650	337	5,790	5,442	348	5,992	5,588	404
Full-time	752	672	80	1,241	1,097	144	1,346	1,229	117	1,301	1,175	126	1,370	1,273	97
Part-time	3,391	3,236	155	4,126	3,881	245	4,641	4,421	220	4,489	4,267	222	4,622	4,315	307
Certificate in Office Skills ²	1,464	155	1,309	1,775	209	1,566	1,529	193	1,336	1,418	169	1,249	1,367	145	1,222
Full-time	1,464	155	1,309	1,775	209	1,566	1,529	193	1,336	1,418	169	1,249	1,367	145	1,222

15.14 INTAKE OF TRAINEES OF VOCATIONAL AND INDUSTRIAL TRAINING INSTITUTES, 1986-1990 (continued)

Number

Course Level	1986			1987			1988			1989			1990		
	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	3,401	2,610	791	3,158	2,373	785	2,507	1,920	587	4,716	3,614	1,102	3,997	3,084	913
Full-time	3,401	2,610	791	3,158	2,373	785	2,507	1,920	587	4,716	3,614	1,102	3,997	3,084	913
National Trade Certificate (Grade 3) Part-time	8,558	7,563	995	10,402	8,653	1,749	11,943	10,308	1,635	13,415	11,433	1,982	14,474	12,317	2,157
Part-time	8,558	7,563	995	10,402	8,653	1,749	11,943	10,308	1,635	13,415	11,433	1,982	14,474	12,317	2,157
Pre-Vocational Training ³	2,768	2,200	568	3,247	2,437	810	2,428	1,853	575	-	-	-	-	-	-
Full-time	2,768	2,200	568	3,247	2,437	810	2,428	1,853	575	-	-	-	-	-	-
Certificate of Competency	94	85	9	28	27	1	66	62	4	197	191	6	186	180	6
Full-time	44	44	-	-	-	-	-	-	-	-	-	-	-	-	-
Part-time	50	41	9	28	27	1	66	62	4	197	191	6	186	180	6
Ad hoc	255	224	31	557	397	160	114	28	86	618	383	235	543	254	289
Part-time	255	224	31	557	397	160	114	28	86	618	383	235	543	254	289

Note : The intake statistics have been re-classified to exclude those completing the Pre-Vocational Training Programme and enrolling in the two-year NTC-3 courses.

Source : Vocational & Industrial Training Board

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. BVT is a 3-year course leading to the award of the National Trade Certificate (Grade 3) or the new Certificate of Vocational Training.

15.15 TRAINEES WHO COMPLETED COURSES AT VOCATIONAL AND INDUSTRIAL TRAINING INSTITUTES, 1986-1990

Number

Course Level	1986			1987			1988			1989			1990		
	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females
Total	21,180	17,266	3,914	23,963	19,000	4,963	26,026	20,756	5,270	26,911	21,539	5,372	27,425	21,775	5,650
Full-time	8,472	5,834	2,638	8,853	6,002	2,851	9,025	5,749	3,276	7,532	4,695	2,837	7,469	4,580	2,889
Part-time	12,708	11,432	1,276	15,110	12,998	2,112	17,001	15,007	1,994	19,379	16,844	2,535	19,956	17,195	2,761
Diploma in Applied Arts ¹	64	25	39	65	22	43	78	20	58	78	24	54	82	36	46
Full-time	64	25	39	65	22	43	78	20	58	78	24	54	82	36	46
Industrial Technician															
Certificate	476	395	81	770	633	137	827	672	155	1,062	915	147	1,172	991	181
Full-time	425	348	77	641	517	124	700	557	143	923	781	142	1,025	846	179
Part-time	51	47	4	129	116	13	127	115	12	139	134	5	147	145	2
Certificate in Business Studies	424	88	336	382	54	328	645	87	558	629	101	528	744	113	631
Full-time	424	88	336	382	54	328	645	87	558	629	101	528	744	113	631
National Trade Certificate (Grade 2)	4,026	3,819	207	5,109	4,784	325	5,347	5,028	319	5,700	5,317	383	5,861	5,415	446
Full-time	646	585	61	1,009	911	98	737	638	99	1,133	986	147	1,239	1,100	139
Part-time	3,380	3,234	146	4,100	3,873	227	4,610	4,390	220	4,567	4,331	236	4,622	4,315	307
Certificate in Office Skills ²	1,132	117	1,015	1,129	108	1,021	1,431	131	1,300	1,381	148	1,233	1,245	110	1,135
Full-time	1,132	117	1,015	1,129	108	1,021	1,431	131	1,300	1,381	148	1,233	1,245	110	1,135
National Trade Certificate (Grade 3)	12,269	10,563	1,706	13,250	10,990	2,260	15,370	13,075	2,295	17,027	14,296	2,731	17,214	14,692	2,522
Full-time	3,344	2,727	617	2,820	2,282	538	3,302	2,678	624	3,388	2,655	733	2,740	2,375	365
Part-time	8,925	7,836	1,089	10,430	8,708	1,722	12,068	10,397	1,671	13,639	11,641	1,998	14,474	12,317	2,157
Certificate of Vocational Training ³	-	-	-	-	-	-	-	-	-	-	-	-	394	-	394
Full-time	-	-	-	-	-	-	-	-	-	-	-	-	394	-	394
Pre-Vocational Training ³	2,407	1,914	493	2,779	2,080	699	2,132	1,638	494	-	-	-	-	-	-
Full-time	2,407	1,914	493	2,779	2,080	699	2,132	1,638	494	-	-	-	-	-	-
Certificate of Competency	66	62	4	56	55	1	56	56	-	197	191	6	170	164	6
Full-time	30	30	-	28	28	-	-	-	-	-	-	-	-	-	-
Part-time	36	32	4	28	27	1	56	56	-	197	191	6	170	164	6
Ad hoc	316	283	33	423	274	149	140	49	91	837	547	290	543	254	289
Part-time	316	283	33	423	274	149	140	49	91	837	547	290	543	254	289

Note : See note to Table 15.14.

Source : Vocational & Industrial Training Board

15.16 GOVERNMENT EXPENDITURE ON EDUCATION, 1980/81 -1990/91

Thousand Dollars

	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91*
Total	688,329	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	2,108,277
Recurrent Expenditure	589,419	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	1,808,277
Primary Schools	210,143	241,364	337,339	357,249	403,915	422,806	384,044	392,741	446,713	497,385	540,193
Secondary Schools & Junior Colleges	211,840	244,940	323,163	348,200	392,387	431,866	402,396	424,465	486,226	533,091	582,168
Vocational & Industrial Training Board	29,694	38,900	47,401	55,121	65,662	80,294	68,966	64,191	72,857	79,551	85,900
Tertiary	109,650	156,105	229,057	291,782	350,152	387,224	362,813	413,541	393,298	434,842	515,740
National University of Singapore & Nanyang Technological Institute ¹	74,557	108,527	156,435	197,947	240,448	253,811	240,805	293,443	259,014	288,571	339,330
Institute of Education & College of Physical Education ²	11,089	13,955	17,746	18,817	21,268	22,979	19,883	20,843	21,072	19,395	23,450
Polytechnics	24,004	33,623	54,876	75,018	88,436	110,434	102,125	99,255	113,212	126,876	152,960
Others ³	28,092	31,423	46,791	54,761	60,443	66,135	59,069	57,613	62,764	74,891	84,276
Development Expenditure	98,910	229,785	374,679	504,534	497,169	387,255	361,479	301,405	142,444	145,305	300,000

Source : Ministry of Education

- 1 From 1981/82, figures include expenditure of Nanyang Technological Institute.
2 From 1984/85, figures include expenditure of College of Physical Education.
3 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

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.

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 21 community health clinics and 18 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, venerealology and infectious diseases. In addition, there are 10 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 192 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, 1980 -1990

Number

Year	Hospitals			Government Dental Clinics ²	Community Health Clinics	Maternal & Child Health Clinics
	Total	Public Sector Hospitals	Private Sector Hospitals			
1980	26	13	13	133	27	29
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

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, 1980 -1990

Year	Number											
	Doctors		Dentists ¹		Pharmacists		State Registered Nurses		State Enrolled Nurses		Midwives	
	Public ²	Private	Public ²	Private	Public ²	Private	Public ²	Private	Public ²	Private	Public ²	Private
1980	855	1,121	161	185	58	310	2,939	2,384	1,897	325	521	258
1981	914	1,177	166	204	58	300	2,883	2,141	1,846	370	492	274
1982	1,001	1,224	180	222	59	314	2,849	2,275	1,976	434	439	283
1983	1,047	1,314	174	262	58	329	3,169	2,408	1,682	455	405	305
1984	1,109	1,395	165	310	58	351	3,207	2,485	1,679	459	372	280
1985	1,214	1,417	159	337	55	381	3,606	2,698	1,547	544	371	279
1986	1,337	1,444	154	372	58	396	3,533	2,869	1,564	602	354	247
1987	1,420	1,519	153	404	59	428	3,370	3,077	1,581	685	350	236
1988	1,551	1,611	164	429	75	451	3,817	2,822	1,655	700	341	230
1989	1,720	1,677	184	459	93	464	3,952	2,863	1,644	778	330	219
1990	1,831	1,742	185	487	96	491	3,560	3,469	1,554	970	296	260

¹ Refer to those with professional degrees only.

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

Source : Ministry of Health

16.3 BEDS IN PUBLIC SECTOR HOSPITALS, 1980 -1990

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	8,078	8,365	8,246	8,222	8,085	8,329	8,352	8,269	7,971	7,924	7,994
Alexandra Hospital	503	503	545	545	545	560	600	594	563	554	431
Changi Hospital	202	202	202	203	203	203	182	182	182	182	182
Sembawang Hospital ¹	64	64	62	-	-	-	-	-	-	-	-
Singapore General Hospital ²	1,397	1,651	1,500	1,593	1,656	1,671	1,650	1,621	1,488	1,479	1,663
Tan Tock Seng Hospital	1,335	1,337	1,324	1,274	1,274	1,434	1,407	1,410	1,445	1,432	1,432
Toa Payoh Hospital ³	412	418	410	410	410	410	410	410	410	407	350
Kandang Kerbau Hospital ³	687	687	687	681	681	681	561	561	510	440	490
St Andrew's Hospital ⁴	80	80	80	80	80	80	80	-	-	-	-
Middle Road Hospital ⁵	44	44	44	44	44	44	35	35	-	-	-
Middleton Hospital ⁶	228	228	228	228	228	-	-	-	-	-	-
Woodbridge Hospital ⁷	2,876	2,901	2,914	2,914	2,714	2,714	2,714	2,654	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

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, 1980 -1990

	Number										
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	1,507	1,542	1,583	1,637	1,602	1,671	1,837	1,836	1,837	1,792	1,837
Gleneagles Hospital	121	121	121	121	127	127	127	126	130	132	132
Jurong Hospital	62	40	40	40	40	40	40	40	40	40	40
Mt Alvernia Hospital	326	312	304	304	304	304	304	304	304	304	321
East Shore Hospital ¹	21	21	149	149	149	149	149	149	145	137	135
Youngberg Hospital	72	68	68	68	55	55	38	38	38	20	40
St Andrew's Mission Hospital ²	50	50	-	-	-	-	-	-	-	-	-
Adam Road Hospital ³	30	30	45	45	45	45	45	45	45	45	60
Kwong Wai Shiu Hospital	425	425	425	425	425	505	505	505	454	454	454
Shenton Nursing Home	15	15	15	18	18	18	16	16	16	15	10
Thomson Medical Centre	77	96	96	96	96	108	108	108	160	160	160
Mt Elizabeth Hospital	264	322	282	337	323	300	485	485	485	485	485
Eye Clinic ⁴	22	20	20	20	20	20	20	20	20	-	-
Gental Nursing & Health Centre ⁵	22	22	18	14	-	-	-	-	-	-	-

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 Closed with effect from 31 December 1989.

⁵ Closed with effect from 1 February 1984.

16.5 ADMISSIONS OF PUBLIC SECTOR HOSPITALS, 1980 -1990

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	234,502	230,330	233,683	226,991	230,138	232,988	238,019	250,880	267,515	258,790	260,732
Alexandra Hospital	34,841	33,056	32,459	31,553	33,898	33,255	30,930	31,832	30,360	27,641	20,719
Changi Hospital	4,113	5,289	3,888	4,343	3,466	3,755	4,157	4,102	4,964	5,089	5,540
Sembawang Hospital ¹	1,076	1,078	1,058	119	-	-	-	-	-	-	-
Singapore General Hospital ²	58,637	54,655	60,552	60,685	62,310	64,982	65,473	73,950	83,756	80,045	80,643
Tan Tock Seng Hospital	37,680	35,961	36,671	39,915	38,459	42,987	45,475	47,672	47,958	45,911	46,351
Toa Payoh Hospital ³	31,937	31,852	29,280	29,410	29,925	29,477	28,070	26,961	27,968	26,077	22,513
Kandang Kerbau Hospital ³	53,437	53,904	54,280	48,072	48,436	48,442	39,620	32,648	34,409	29,648	36,172
St Andrew's Hospital ⁴	192	152	104	122	174	124	158	140	-	-	-
Middle Road Hospital ⁵	682	846	925	820	887	738	767	803	673	-	-
Middleton Hospital ⁶	6,066	7,811	9,215	6,562	6,587	-	-	-	-	-	-
Woodbridge Hospital ⁷	5,738	5,598	5,177	5,335	5,828	6,056	5,959	5,908	5,756	5,837	5,926
View Road Hospital	103	128	74	55	168	179	130	129	114	127	148
National University Hospital ⁸	-	-	-	-	-	2,993	17,280	26,735	31,557	38,415	42,720

Note : See note to Table 16.3.

Source : Ministry of Health

16.6 HOSPITAL ADMISSIONS AND PUBLIC SECTOR OUTPATIENT ATTENDANCES, 1980 -1990

Number

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Hospital Admissions											
Total	265,828	266,548	275,234	271,790	277,881	280,152	291,327	313,523	339,858	331,684	338,705
Public Sector Hospitals ¹	234,502	230,330	233,683	226,991	230,138	232,988	238,019	250,880	267,515	258,790	260,732
Private Sector Hospitals	31,326	36,218	41,551	44,799	47,743	47,164	53,308	62,643	72,343	72,894	77,973
Public Sector Outpatient Attendances											
Specialist Outpatient Clinics	1,275,260	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
Accident & Emergency Department	377,022	403,330	439,734	458,824	469,522	438,308	378,145	436,660	485,762	514,434	533,571
Community Health Clinics	2,917,554	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
Maternal & Child Health Clinics	1,025,351	1,013,136	926,286	869,015	782,118	747,623	765,919	771,122	808,395	812,503	791,865
Dental Clinics	1,098,054	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 Include Government Hospitals, Government Restructured Hospitals and National University Hospital.

Source : Ministry of Health

16.7 VISITS TO GOVERNMENT DENTAL CLINICS, 1980 -1990

Number

Year	Total	Dental Clinics		
		School	Hospital	Community
1980	1,098,054	539,459	201,638	356,957
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

Source : Ministry of Health

16.8 NOTIFICATIONS OF SPECIFIC NOTIFIABLE DISEASES, 1980 -1990

Number

Year	Dengue/ DHF	Malaria	Enteric Fever ¹	Viral Hepatitis	Cholera	Polio- myelitis	Diphthe- ria	Chicken pox	Viral Encephali- tis	Tuber- culosis	Leprosy
1980	253	200	255	1,001	18	-	-	910	36	2,710	66
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	1,596*	36

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, 1980 -1990

Per Cent

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
BCG											
National	85	83	87	82	95	93	94	98	99	99	99
Public	85	83	80	77	75	73	68	61	57	53	42
Private	na	na	7	5	20	20	26	37	42	46	57
Diphtheria											
National	84	87	83	84	77	78	91	96	90	90	86
Public	69	70	66	66	63	63	69	59	66	65	63
Private	15	17	17	18	14	15	22	37	24	25	23
Poliomyelitis											
National	83	87	83	86	81	81	94	95	90	91	86
Public	69	71	68	69	64	63	69	59	66	66	63
Private	14	16	15	17	17	18	25	36	24	25	23
Measles											
National	48	59	78	88	85	75	85	94	82	77	82
Public	44	54	71	78	73	61	64	63	62	60	60
Private	4	5	7	10	12	14	21	31	20	17	22

Source : Ministry of Health

16.10 VACCINATION AND IMMUNIZATION OF SCHOOL CHILDREN, 1980 -1990

Thousand Dos

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
BCG Vaccination	27.4	28.8	44.5	35.2	35.4	32.9	29.2	31.2	39.0	31.5	34.3
Diphtheria Tetanus	115.5	110.1	98.0	84.7	81.2	81.8	78.5	71.0	79.2	76.2	74.5
Poliomyelitis Immunization	107.6	102.2	91.6	84.2	75.6	80.4	77.1	57.0	77.4	73.6	74.0
Rubella	26.9	17.7	51.2	44.6	44.9	44.5	40.0	38.2	41.7	36.4	38.0

Source: Ministry of Health

16.11 STUDENT MEDICAL CHECK-UP, 1980 -1990

Thousand

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	218.5	225.3	204.0	185.0	174.3	196.6	195.6	469.6	616.3	611.1	589.7
Category of Students:											
New Entrants	45.8	41.9	39.4	42.7	38.4	39.1	39.9	39.9	40.5	40.8	39.0
Primary School Leavers and equivalent levels	40.3	37.2	55.7	48.3	48.8	47.2	42.9	39.7	42.7	38.3	38.5
Secondary School Leavers and equivalent levels	15.2	15.0	15.6	17.2	21.4	37.4	35.7	35.2	38.7	37.8	36.7
Re-examination	115.1	130.2	92.6	74.5	64.0	71.7	77.2	354.8	485.6	486.6	472.6
Others ¹	2.0	1.0	0.7	2.3	1.7	1.3	-	-	8.8	7.6	2.8
Sex of Students:											
Males	101.9	106.1	95.9	86.3	79.0	100.4	98.9	242.8	319.8	317.4	305.5
Females	116.6	119.2	108.1	98.7	95.3	96.2	96.7	226.8	296.5	293.7	284.2

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

Source : Ministry of Health

16.12 COMMON DEFECTS OF STUDENTS EXAMINED, 1980 -1990

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Per 10,000 Males Examined											
Incidence of:											
Defective Vision	2,939	3,114	3,161	2,690	2,786	3,490	4,062	3,598	3,824	4,062	4,106
Obesity - Primary School Entrants	441	255	250	380	622	777	952	1,174	1,189	1,156	1,188
- Primary School Leavers	762	1,040	1,064	1,204	1,123	1,144	1,443	1,570	1,789	1,785	1,881
- Secondary School Leavers	-	-	-	-	-	-	-	1,271	1,320	1,385	1,401
Scoliosis	33	61	78	127	331	587	477	538	494	527	1,870
Asthma	na	na	na	na	na	123	295	135	166	129	474
Phimosis	939	658	462	434	444	493	514	511	426	377	335
Per 10,000 Females Examined											
Incidence of:											
Defective Vision	3,779	4,158	3,558	3,747	3,773	4,409	4,514	3,998	4,151	4,377	4,424
Obesity - Primary School Entrants	386	195	181	239	555	650	761	973	1,004	938	977
- Primary School Leavers	572	799	944	952	757	716	930	1,023	1,020	1,010	1,159
- Secondary School Leavers	556	864	916	1,442	1,019	971	1,047	1,106	1,158	1,162	1,136
Scoliosis	67	177	278	529	622	957	852	791	837	896	746
Asthma	na	na	na	na	na	80	199	100	101	93	341
Heart Conditions	210	190	193	373	138	201	147	189	182	158	232

Note : Ranking based on 1990 position.

Source: Ministry of Health

16.13 BLOOD DONATIONS AND TRANSFUSIONS, 1980 -1990

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							
1980	36,276	53,813	28,625	25,188	-	-	46,729	42,548	4,181
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

Note : 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 Nov 89.

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

17 HAWKERS AND FOOD ESTABLISHMENTS

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 wholesome and 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, 1980-1990
(End of Year)**

	Number										
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
TOTAL	10,726	10,245	9,818	8,406	7,580	6,775	6,479	6,254	6,095	5,813	5,358
Type of Premises											
Market/Food Centre	7,024	7,190	7,148	6,936	6,693	6,353	6,098	5,960	5,817	5,613	5,184
Street Pitch	3,264	2,656	2,296	1,121	576	151	126	56	54	-	-
Show Case	67	63	61	57	52	43	38	31	28	26	19
Itinerant ¹	371	336	313	292	259	228	217	207	196	174	155
Type of Goods Sold											
Market Produce	4,309	4,216	4,158	3,560	3,242	2,906	2,776	2,642	2,532	2,420	2,198
Cooked Food	4,820	4,521	4,340	3,863	3,506	3,127	3,069	2,994	2,939	2,825	2,634
Piece & Sundries	1,597	1,508	1,320	983	832	742	634	618	624	568	526

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 b) TYPE OF GOODS SOLD, 1980-1990
(End of Year)

		Number										
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
TOTAL		16,879	17,096	17,573	18,407	18,751	19,011	18,974	18,574	18,194	17,203	16,484
Management Authority												
HDB		14,675	14,964	15,736	16,692	17,198	17,410	17,514	17,158	16,917	16,356	15,814
JTC		529	526	232	234	231	229	226	228	230	228	226
PSA		78	64	58	58	58	60	75	76	76	76	70
STPB		27	27	29	29	26	29	29	29	29	25	-
Private Market		1,570	1,515	1,518	1,394	1,238	1,283	1,130	1,083	942	518	374
Type of Goods Sold												
Market Produce		9,317	9,525	9,806	10,102	10,201	10,330	10,190	9,853	9,541	8,863	8,352
Cooked Food		5,789	5,789	5,856	6,073	6,274	6,352	6,401	6,352	6,309	6,119	5,963
Piece & Sundries		1,773	1,782	1,911	2,232	2,276	2,329	2,383	2,369	2,344	2,221	2,169

Source : Ministry of the Environment

17.3 LICENSED FOOD ESTABLISHMENTS, 1980-1990

End of Year	Total	Restaurants	Eating Houses	Snack Bars	Canteens		Coffee Shops	Food Factories	Super-markets	Number
					School	Others				Others
1980	5,675	521	1,543	249	451	1,108	237	933	68	565
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

Source : Ministry of the Environment

the Ministry of Home Affairs and the Customs and Excise Department. Under the United Nations Convention on the Law of the Sea, the Government has agreed to grant a license to be obtained by every person using the radio receiver in a motor vehicle for a license fee of \$200 for a colour set and \$100 for a monochrome television set. The current annual license fee is \$20 for a radio receiver and \$100 for a colour set and \$50 for a monochrome television set.

For a further radio receiver, a special license is required. The Government has also agreed to grant a license to every person using a radio receiver in a motor vehicle for a license fee of \$200 for a colour set and \$100 for a monochrome television set. The current annual license fee is \$20 for a radio receiver and \$100 for a colour set and \$50 for a monochrome television set.

Radio-Asia (Singapore) Pte Ltd, a commercial radio broadcasting station under Government licence since 1962, provides direct sound broadcasts via cable to subscribers on two networks. One network broadcasts Mandarin programmes daily from 8 am to 12 midnight and the other carries 24 hours of non-stop English programmes. The monthly rental is \$10.00 per set.

18 CULTURE AND RECREATION

Television is a medium for mass communication and is a powerful tool for education and recreation. It is a medium for mass communication and is a powerful tool for education and recreation. It is a medium for mass communication and is a powerful tool for education and recreation.

Radio and Television

Radio and television are two of the most important means of mass communication. They provide a means of entertainment and education for the masses. They are also a means of mass communication and are a powerful tool for education and recreation. They are a medium for mass communication and is a powerful tool for education and recreation.

Television was introduced in Singapore on 15 February 1962. The Corporation operates three channels for the broadcast of its programmes in the four official languages. Every programme transmitted is usually subtitled in one other language to attract a greater number of viewers. SBC's colour service was introduced on 1 August 1967 and transmissions can be received on channels 5 and 6 from 8 am to 12 midnight.

18 CULTURE AND RECREATION

Radio and Television

The Singapore Broadcasting Corporation (SBC), established on 1 February 1980, is responsible for producing and broadcasting radio and TV programmes as well as for licensing radio and TV receivers. Its programmes are produced and broadcast in the four official languages - Malay, Chinese, Tamil and English. The Corporation maintains a balance between information and entertainment programmes and also caters for people of different age groups.

SBC operates nine radio services in the four official languages transmitting on short wave, medium wave and FM stereo. The programmes range from chat shows, pop music, classical music to news, talks and commentaries.

Television was introduced in Singapore on 15 February 1963. The Corporation operates three channels for the telecast of its programmes in the four official languages. Every programme transmitted is usually subtitled in one other language to attract a greater number of viewers. SBCText, a teletext service, was inaugurated on 1 August 1983 and transmissions can be received on channels 5 and 8 from 6 am to 12 midnight.

Under the Singapore Broadcasting Corporation Act, 1979, a licence has to be obtained by every person using one or more television receivers at any place of residence or premises. A licence for a radio receiver in a motor vehicle has also to be obtained. The current annual licence fee is \$36 for a monochrome television set, \$100 for a colour set and \$24 for a vehicle radio receiver.

On August 1, 1986, the commercial operations functions were transferred to the SBC Enterprises Pte Ltd, the Corporation's wholly-owned subsidiary. The main activities of SBC Enterprises are the sale and marketing of TV and Radio air time as well as the production of video commercials, documentaries and training filmlets. The company also publishes the weekly TV and Radio Guide '8 Days' in English and 'RTV Times' in Mandarin.

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 opened 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, Geyland East, Jurong East, Marine Parade, Queenstown, and Toa Payoh.

The library maintains books and collections of special interest for research and other purposes as well as periodicals, newspapers, music scores, maps, braille and large print books. Many documents and publications are on microfilm and microfiche.

The Arts Resource Centre in the Reference Services Division of the Central Library maintains a good collection of books, periodicals and audio-visual materials such as slides, cassette tape, video cassettes, video, and compact discs, records, posters and print, covering various aspects of fine arts. Audio-visual services are also available at the branches with a basic collection on general subjects.

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.

18.1 RADIO AND TELEVISION LICENCES AND REDIFFUSION SUBSCRIBERS, 1980-1990

Number

End of Year	Radio Licences Issued	Radio & Television Licences Issued	Rediffusion Subscribers
1980	62,294	397,155	107,080
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

Source : Singapore Broadcasting Corporation
Rediffusion (Singapore) Pte Ltd

18.2 RADIO AND TELEVISION TRANSMISSION, 1980-1990

Hours Per Week

Year	Radio										Television
	Total	AM/FM				FM Stereo	Radio 10 ¹	FM ² 93.3	Class ³ 95FM	Ria ⁴ 89.7	
		English	Malay	Chinese	Tamil						
1980	639	126	135	147	105	126	-	-	-	-	113.0
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	168	133	126	126	172.4

Source : Singapore Broadcasting Corporation

- ¹ Operated with effect from January 1989.
² Operated with effect from January 1990.
³ Operated with effect from April 1990.
⁴ Operated with effect from December 1990.

18.3 CINEMAS, 1980-1990

Year	Cinemas			Total Seating Capacity	Attendances
	Total	Air Conditioned	Others		
	Number			Thousand	
1980	80	67	13	77	40,531
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	19,762
1988	46	46	-	48	22,128
1989	51	51	-	49	21,575
1990	56	56	-	48	20,655

Source : Customs & Excise Department

18.4 NATIONAL LIBRARY MEMBERSHIP, 1980-1990

Number

Year	Total	Persons Aged 12 Years & Over ¹	Children Under 12 Years ²
1980	371,153	184,032	187,121
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 ³	442,200	308,442	133,758
1989	615,180	449,785	165,395
1990	722,316	545,797	176,519

Source : Singapore National Library

¹ Prior to 1981, figures refer to persons aged 15 years and over.

² Prior to 1981, figures refer to children under 15 years.

³ Members re-registered as a result of computerisation.

18.5 BOOK COLLECTIONS AT THE NATIONAL LIBRARY, 1980-1990

Number

Year	Total	English	Chinese	Malay	Tamil
1980	1,352,276	718,941	390,491	169,530	73,314
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	2,451,425	1,493,783	620,927	270,114	66,601

Source : Singapore National Library

18.6 LOANS OF BOOKS AT THE NATIONAL LIBRARY, 1980-1990

Number

Year	Total	Persons Aged 12 Years & Over ¹	Children Under 12 Years ²
1980	3,407,416	1,780,716	1,626,700
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

Note : See note to Table 18.4

Source : Singapore National Library

18.7 DAILY NEWSPAPER CIRCULATION, 1980-1990

Number

Year	Total	English	Chinese	Malay	Indian
1980	615,612	268,601	307,769	32,308	6,934
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

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