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YEARBOOK OF STATISTICS SINGAPORE 1989

DEPARTMENT OF STATISTICS
SINGAPORE

PREFACE

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The Yearbook of Statistics, Singapore, 1989 is the twenty-third edition. This edition contains both the statistical series and statistical charts. Available important statistical series on the demographic, economic and social characteristics of Singapore and relevant statistical charts highlighting various socio-economic trends in Singapore are put together in a concise and convenient form.

The contents of this Yearbook have been reviewed and improved to keep abreast of the latest developments in Singapore. This Yearbook should provide the necessary general statistical reference on Singapore.

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 co-operation and assistance of all the organisations that have provided data for publication in this Yearbook.

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NOTATIONS

*	preliminary	nec	not elsewhere classified
na	not available	nes	not elsewhere specified
-	nil or negligible	nie	not included elsewhere

ECONOMIC INDICATORS, 1979-1989

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 (1986 = 100)
							Total	Public	Private			
	At Current Market Prices					At 1985 Market Prices						
	\$ Million	\$	\$ Million									
1979	20,444.1	6,892	7,299.8	8,899.9	26,284.7	9,257.7	16,933.3	2,961.9	13,971.4	943.6	26,331.0	76.7
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	86.1
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	94.5
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	1,705.0	37,141.1	89.3
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	91.2
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	99.4
1985	40,330.4	13,547	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	92.1
1986	39,602.5	13,461	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	100.0
1987	43,191.6	14,510	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	117.4
1988	50,359.3	16,483	20,831.7	18,204.1	48,223.7	16,267.3	28,155.2	5,407.3	22,747.9	2,007.4	56,886.4	139.0
1989*	56,347.4	17,910	24,128.3	19,568.6	52,678.7	19,143.1	30,234.1	5,683.8	24,550.3	1,958.7	63,231.5	152.8

1 Exclude petrochemicals.

2 Refer to establishments engaging 10 or more workers.

GROWTH RATES IN ECONOMIC INDICATORS, 1979-1989

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 (1986 = 100)
							Total	Public	Private			
	At Current Market Prices					At 1985 Market Prices						
1979	14.9	9.3	23.1	27.9	9.3	12.9	4.9	-0.5	6.1	16.1	28.5	15.2
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	9.0
1985	-1.2	-0.9	-11.0	-14.8	-1.6	-12.1	4.2	24.5	-0.9	-38.7	-6.9	-7.3
1986	-1.8	-0.6	-5.8	-10.0	1.8	-11.5	3.4	1.1	4.2	29.4	-3.4	8.6
1987	9.1	7.8	9.8	11.7	9.4	3.4	7.6	1.1	9.7	20.2	23.6	17.4
1988	16.6	13.6	21.8	9.4	11.1	8.2	9.5	-4.6	13.4	15.2	22.8	18.4
1989*	11.9	8.7	15.8	7.5	9.2	17.7	7.4	5.1	7.9	-2.4	11.2	9.9

ECONOMIC INDICATORS, 1979-1989 (continued)

Year	Building & Construction				External Trade								
	Gross Floor Area				Total	Exports							Imports
	Planning Approval	Building Plan Approval ³	Building Commence-ment	Building Completed		Total	Domestic Exports			Re-exports			
							Total	Oil	Non-oil	Total	Oil	Non-oil	
	Thousand Square Metres				Million Dollars								
1979	7,297.4	1,862.3	6,520.8	5,187.3	69,274.5	30,940.1	18,200.4	8,988.1	9,212.3	12,739.7	199.7	12,540.0	38,334.4
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	5,228.1	2,825.4	6,607.0	4,069.4	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

3 Refer to private sector only.

GROWTH RATES IN ECONOMIC INDICATORS, 1979-1989 (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	
1979	14.0	-2.0	25.0	-12.6	31.7	34.6	37.8	40.5	34.9	30.5	91.5	29.9	29.5
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	2.9	48.6	54.4	-36.2	10.0	10.2	11.5	16.6	10.0	8.0	-78.3	11.1	9.8

ECONOMIC INDICATORS, 1979-1989 (continued)

Year	Transport & Communications								Utilities		
	Sea Cargo Handled			Air Cargo Handled			Outgoing Telex Calls	Inter- national Telephone Calls ⁴	Electricity Production	Gas Production	Water Consumption
	Total	Outward	Inward	Total	Loaded	Discharged					
	Thousand Freight Tonnes			Tonnes			Thousand		Million Kilowatt Hours		Million Cubic Metres
1979	83,137.5	34,634.5	48,503.0	158,087	79,786	78,301	5,385	2,490	6,483.1	597.1	237.9
1980	86,299.5	36,177.5	50,122.0	181,775	91,062	90,713	7,354	3,535	6,967.6	614.1	256.4
1981	92,563.0	37,626.8	54,936.2	197,103	96,172	100,931	9,563	5,058	7,461.6	625.6	276.4
1982	101,489.3	40,133.0	61,356.3	222,304	101,589	120,715	12,043	7,091	7,883.4	624.8	288.5
1983	106,348.4	40,465.8	65,882.6	260,925	116,203	144,722	13,893	9,673	8,665.1	605.4	307.3
1984	111,897.3	44,486.3	67,411.0	297,937	134,211	163,726	15,668	12,643	9,451.8	609.4	317.9
1985	105,835.8	43,749.6	62,086.2	300,019	132,631	167,388	16,243	15,725	9,917.0	569.9	322.7
1986	120,715.9	50,959.1	69,756.8	352,808	160,184	192,624	16,496	21,611	10,576.5	577.3	324.7
1987	129,458.3	53,678.6	75,779.7	419,097	196,937	222,160	16,026	30,797	11,813.8	623.5	334.7
1988	154,738.8	64,090.1	90,648.7	512,507	248,868	263,639	13,633	43,672	13,017.5	681.1	344.1
1989	172,992.0*	75,615.0*	97,377.0*	577,610	280,412	297,198	11,419	58,653	14,039.0	722.4	355.6

4 Exclude calls to Peninsular Malaysia.

GROWTH RATES IN ECONOMIC INDICATORS, 1979-1989 (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	Outward	Inward	Total	Loaded	Discharged					
1979	9.2	na	na	28.4	24.0	33.3	35.4	41.5	9.9	10.8	6.3
1980	3.8	4.5	3.3	15.0	14.1	15.9	36.6	42.0	7.5	2.8	7.8
1981	7.3	4.0	9.6	8.4	5.6	11.3	30.0	43.1	7.1	1.9	7.8
1982	9.6	6.7	11.7	12.8	5.6	19.6	25.9	40.2	5.7	-0.1	4.4
1983	4.8	0.8	7.4	17.4	14.4	19.9	15.4	36.4	9.9	-3.1	6.5
1984	5.2	9.9	2.3	14.2	15.5	13.1	12.8	30.7	9.1	0.7	3.4
1985	-5.4	-1.7	-7.9	0.7	-1.2	2.2	3.7	24.4	4.9	-6.5	1.5
1986	14.1	16.5	12.4	17.6	20.8	15.1	1.6	37.4	6.7	1.3	0.6
1987	7.2	5.3	8.6	18.8	22.9	15.3	-2.8	42.5	11.7	8.0	3.1
1988	19.5	19.4	19.6	22.3	26.4	18.7	-14.9	41.8	10.2	9.2	2.8
1989	11.8*	18.0*	7.4*	12.7	12.7	12.7	-16.2	34.3	7.8	6.1	3.3

ECONOMIC INDICATORS, 1979-1989 *(continued)*

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 ⁵	Prime Lending Rate	12-month Deposit Rate	Total Assets/Liabilities	
			\$ Million	Months	\$ Million			Per Cent		US\$ Million	\$ Million
1979	2.1746	5,706.1	12,562.4	3.93	26,747.8	12,178.4	16,007.0	9.48	7.65	38,162.7	8,378.3
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	36,923.9
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	34,046.8

⁵ Include bills financing.

GROWTH RATES IN ECONOMIC INDICATORS, 1979-1989 (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	
1979	-4.4	15.8	9.5	26.1	21.2	30.9	23.9	27.3	41.1	123.6
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

ECONOMIC INDICATORS, 1979-1989 (continued)

Year	Finance Companies ⁶			POSB ⁶	CPF ⁶	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 ⁷	Net Claims ⁸
								Number	Amount Insured		
Million Dollars						Million Units	Number	Million Dollars			
1979	1,812.4	364.0	551.6	2,525.2	7,515.5	2,311.5	964.6	246,657	5,162.2	274.5	113.9
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	16,421.6	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	36,051.5	39,149.9	21,646.0	na	na	na	na

⁶ Refer to end of year.

⁷ Refer to gross premiums less premiums paid for re-insurance in and out of Singapore.

⁸ Refer to gross claims paid less recoveries from re-insurance placed in and out of Singapore.

GROWTH RATES IN ECONOMIC INDICATORS, 1979-1989 (continued)

Per Cent

Year	Finance Companies			POSB	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		
1979	20.0	54.9	23.6	24.5	25.6	-31.8	-35.4	15.1	26.5	15.9	20.9
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	19.6	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	na	na	na	na

ECONOMIC INDICATORS, 1979-1989 (continued)

Year	Government Finance						Measures of Inflation			Tourism	
	Revenue ⁹	Recurrent Expendi- ture ¹⁰	Public Debt ¹¹			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 ¹²	Hotel Occupancy Rate
			Total	Domestic	External						
	Million Dollars					Per Cent					
1979	4,694.2	3,054.1	12,396.5	11,419.8	976.7	1.3	78.4	89.8	78.1	2,247.1	85.4
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	98.2	3,678.8	68.7
1988	13,776.2	7,202.3	41,830.7	41,589.9	240.8	0.4	100.4	89.6	102.4	4,186.1	79.3
1989	15,508.8	7,681.9	46,209.7	46,071.0	138.7	0.7*	102.8	91.9	105.0	4,830.0	86.4

⁹ Refer to receipts credited to the Consolidated Revenue Account, Development Fund Account and Sinking Fund Account, but excludes capital receipts.

¹⁰ Refer to payments from the Consolidated Revenue Account, but excludes contributions to the Development Fund, Revolving Fund, Sinking Fund and repayment of loans.

¹¹ Refer to end of year.

¹² Exclude Malaysian arrivals by land.

GROWTH RATES IN ECONOMIC INDICATORS, 1979-1989 (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					
1979	14.6	8.4	15.9	18.0	-4.1	4.0	14.4	5.3	9.8	-1.3
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	0.7	15.3	6.2
1988	31.6	-14.9	9.3	9.5	-20.6	1.5	-1.9	4.3	13.8	15.4
1989	12.6	6.7	10.5	10.8	-42.4	2.4	2.6	2.5	15.4	9.0

SOCIAL INDICATORS, 1979-1989

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	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	
1979	2,383.5	1.3	3,858	24.0	48.6	16.4	17.1	5.2	77.4	13.2	1,791	853
1980	2,413.9	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*	1,792*	864*

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.

SOCIAL INDICATORS, 1979-1989 (continued)

Year	Education										
	Pupils Per Teacher		Graduates of Institutions of Higher Learning	Student Enrolment Ratio ⁴	Literacy Rate ⁵	Passes at			Government Recurrent Expenditure Per Student ⁶		
	Primary	Secondary				PSLE	GCE 'O' Level	GCE 'A' Level	Primary	Secondary	Tertiary
	Number					Per Cent					Dollars
1979	28	23	5,718	78.9	82.8	74.2	65.1	63.4	640	1,028	4,228
1980	30	22	4,844	78.6	84.0	83.3	68.6	67.9	720	1,220	4,845
1981	31	21	6,367	81.5	84.4	81.7	70.1	61.2	846	1,382	6,400
1982	31	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	27	23	8,332	91.3	85.6	85.5	79.9	65.3	1,399	2,090	9,742
1985	26	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	25	22	11,883	93.8	86.8	86.5	88.1	73.9	1,501	2,092	9,195
1988	25	22	12,582	93.7	87.2	86.5	89.2	72.5	1,723	2,410	8,385
1989	25	22	12,815	93.6	87.6	88.4	88.1	68.5	1,886	2,681	9,292

4 Students aged 6-17 years divided by population of same age group.

5 For population 10 years and over.

6 For financial year beginning 1 April.

SOCIAL INDICATORS, 1979-1989 *(continued)*

Year	Employment					Health			
	Labour Force (15 Years & Over) ⁷	Unemployment Rate (15 Years & Over) ⁷	Labour Force Participation Rate (15 Years & Over) ⁷	CPF Contributors In Labour force	Union Members Among Employed	Per Capita Government Expenditure on Health ⁸	Persons Per		
	Thousand	Per Cent				Dollar	Doctor	Dentist	Hospital Bed
1979	1,056	3.3	61.4	78.9	24.5	84	1,287	6,889	242
1980	1,116	3.5	63.2	77.4	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	75.8	16.7	188	790	4,176	276

⁷ Data prior to 1981 refer to persons aged 10 years and over.

⁸ For financial year beginning 1 April.

SOCIAL INDICATORS, 1979-1989 (continued)

Year	Culture & Recreation				Communications				
	Daily Newspapers Circulation	Per Cent of National Library Members to Total Population		Annual Cinema Attendances	Radio & Television Licences	Telephones	Persons Per		
	Per 1,000 Population	Under 12 Years ⁹	12 Years & Over ¹⁰	Per Person	Per 1,000 Population		Public Bus	Private Car	Taxi
1979	247	27.5	9.2	19	156	262	383	17	279
1980	255	28.7	10.5	17	165	291	371	16	255
1981	264	38.8	12.9	15	170	317	352	15	248
1982	266	41.1	17.0	14	172	345	326	14	240
1983	278	43.9	21.1	12	186	369	313	12	234
1984	280	45.5	24.2	11	188	397	305	12	229
1985	279	49.3	28.7	9	188	420	293	12	234
1986	265	50.7	32.4	8	197	432	299	12	242
1987	268	45.5	31.5	8	203	445	299	12	248
1988	281	29.7	14.0	8	209	461	297	11	253
1989	289	33.2	20.6	8	198	na	294	10	252

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

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

SOCIAL INDICATORS, 1979-1989 (continued)

Year	Public Housing ¹¹				Utilities		Fire		Public Order	
	Public Flats		Per Cent of Population Living in Public Flats		Electricity Consumption Per Person	Water Consumption Per Person	Number	Value of Property Damaged	Total Offences	Police Force
	Total Number Managed ¹²	Per Cent Owner-occupied	Public Flats	Owner-occupied Public Flats	Kilowatt Hour	Cubic Metre		Million Dollars	Per 10,000 Population	
1979	353,961	61	71	39	2,370.7	85.4	4,983	70.4	103	30
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	198*	29

11 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.

12 Refer to end of year.

1 CLIMATE AND LAND USE

Singapore can be geographically divided into three major areas - the central city area with heavy density of growth in Bukit Timah, Bukit Panjang, Bukit Merah and Bukit Merah. The western residential area comprising Marine Parade, Holland Road, Holland Road and the western coastal area comprising of Holland Road and western districts from Holland Road to Changi.

The land area of Singapore is approximately 710 square kilometres. It comprises the main island and a number of smaller islands. The main island is situated off the north-west end of the island. The main island is bounded by the sea to the north, east and south. The main island is bounded by the sea to the north, east and south. The main island is bounded by the sea to the north, east and south.

The Republic of Singapore is a small island state in the Malay Archipelago. It is located at the southern tip of the Malay Peninsula. The island is bounded by the sea to the north, east and south. The main island is situated off the north-west end of the island. The main island is bounded by the sea to the north, east and south. The main island is bounded by the sea to the north, east and south.

Land Use

Of the total land area, about 10% is built-up area. The remaining 90% is undeveloped land. The built-up area is concentrated in the central city area and the western residential area. The undeveloped land is mainly in the form of forest and agricultural land.

1 CLIMATE AND LAND USE

The Republic of Singapore is situated in the centre of the Malay Archipelago. This location at the focal point of the trade routes of the region has contributed greatly to the development of Singapore as an entrepot trade and commercial centre of South East Asia. It is now considered a newly industrialising country and is developing into an international centre in finance, transport and communications, and other services.

The land area of Singapore is approximately 626 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 138.6 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 affect the island.

Land Use

Of the total land area, about 49.0 per cent has been developed for residential, commercial and industrial usage and another 1.9 per cent used for agriculture. The rest consists of forest reserves, marsh and other non-built up areas.

1.1 TEMPERATURE, RAINFALL AND SUNSHINE, 1979-1989

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	
1979	31.0	23.9	72	2,168	91	168	5.7
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

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 LAND USE, 1979-1989

Square Kilometres

Year	Total	Build-up Area ¹	Farm Holding Area ²	Forest	Marsh & Tidal Waste	Others ³
1979	617.8	267.9	89.7	30.0	26.4	203.8
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

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

1.3 AIR POLLUTION LEVELS, 1979 - 1989

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		
1979	44	42	24	33	23	17	81	43	44	0.41	0.89	0.48
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

Source : Pollution Control Department

2 DEMOGRAPHY

Population Census

The first census in Singapore was taken in April 1871. Since then, regular decennial censuses were undertaken up to 1931. The Second World War delayed the subsequent 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 latest census, conducted in 1980, was Singapore's second census since independence.

Census data generally refer to all persons enumerated in Singapore at the time of the census except non-locally domiciled services personnel and their dependants, ships' crew and passengers in transit in Singapore waters and foreign visitors living in hotels.

Mid-Year Estimates

The mid-year population estimates for the intercensal years 1971-1979 were revised to include migration deduced from the 1980 census data. Singapore's mid-year population

estimates for 1981 to 1989 were based on natural increase exclude migration.

Births and Deaths

The Registration of Births and Deaths Act, stipulates that a birth must be registered within 42 days of the date of birth. 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 specified 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, which are defined as the number of live-births and deaths respectively per thousand mid-year 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 during a given year by mothers of a specific age group per one thousand females in that age group.

Total fertility rate (TFR) : It is the average number of children that would be born per woman, if all women 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.

Gross reproduction rate (GRR) : It gives the average number of daughters produced by each woman during her whole reproductive period and is similarly computed on the basis of female births only. This rate implicitly assumes that all women live to the end of their childbearing years.

Net reproduction rate (NRR) : It is a refinement of the gross reproduction rate, in that it allows for mortality of women, from birth to the end of their reproductive years. It is the average number of female children that would replace one woman 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.

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 demography are available in "Economic and Social Statistics 1960-1982" and "Statistics on Marriages and Divorces". The latter report 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 ..., 1979 -1989

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	2,043
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
Mid-year Estimates													
1979	2,383.5	1,216.3	1,167.2	179.6	168.0	922.9	909.5	87.9	65.6	25.9	24.1	1.3	1,042
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

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

2.2 MALE POPULATION ESTIMATES BY AGE GROUP, 1979 -1989

Thousand

Age Group (Years)	1979	1980 ¹	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	1,216.3	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
0 - 4	102.8	100.9	101.4	101.8	104.8	105.1	107.7	107.6	106.5	108.5	114.7
5 - 9	116.5	115.8	113.0	110.1	104.9	102.5	100.3	100.9	101.4	104.4	104.7
10 - 14	126.4	120.8	117.3	116.0	116.2	116.4	115.6	112.8	109.9	104.8	102.3
15 - 19	151.8	148.2	143.8	138.6	133.2	126.2	120.6	117.0	115.7	115.9	116.2
20 - 24	148.5	152.8	155.3	155.1	153.9	151.8	147.4	143.0	137.9	132.6	125.6
25 - 29	125.0	129.4	134.6	140.2	144.8	148.3	151.9	154.4	154.1	153.1	151.1
30 - 34	95.1	107.4	115.2	117.3	120.9	124.8	128.6	133.7	139.4	143.8	147.4
35 - 39	71.8	68.9	69.0	77.6	86.4	95.0	106.5	114.2	116.4	120.1	123.9
40 - 44	63.3	66.5	69.4	71.1	71.5	71.4	68.0	68.1	76.8	85.4	93.9
45 - 49	53.7	54.7	56.1	56.8	58.2	62.0	65.2	68.1	69.8	70.3	70.2
50 - 54	46.5	48.3	49.9	50.6	51.5	51.6	52.8	54.1	55.1	56.3	60.1
55 - 59	36.4	37.0	38.0	39.6	41.3	43.3	45.3	46.9	47.7	48.7	48.8
60 - 64	29.1	29.8	30.7	31.4	32.0	32.8	33.3	34.3	35.7	37.4	39.3
65 - 69	23.7	23.7	23.4	23.5	23.8	24.4	25.3	26.2	26.9	27.7	28.5
70 & Over	25.7	27.5	29.2	30.7	32.1	33.1	34.4	35.6	36.9	38.4	39.7

¹ Census of Population.

2.3 FEMALE POPULATION ESTIMATES BY AGE GROUP, 1979 -1989

Thousand

Age Group (Years)	1979	1980 ¹	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	1,167.2	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
0 - 4	95.2	92.8	93.4	93.6	96.2	96.7	99.8	99.3	98.5	100.9	106.7
5 - 9	108.9	108.1	105.4	102.6	97.7	94.9	92.4	93.1	93.2	95.8	96.4
10 - 14	119.9	114.7	111.0	109.0	109.2	109.0	108.0	105.2	102.4	97.5	94.9
15 - 19	142.1	139.2	135.9	131.6	126.1	119.8	114.5	110.8	108.8	109.1	108.7
20 - 24	140.5	143.4	144.9	144.5	143.8	142.3	138.9	135.6	131.3	125.9	119.6
25 - 29	119.9	124.1	128.9	133.7	137.6	140.7	143.0	144.5	144.3	143.4	141.9
30 - 34	92.0	103.7	111.5	113.7	116.9	120.1	123.7	128.5	133.1	137.1	140.2
35 - 39	70.3	66.9	66.4	74.9	83.7	92.0	103.2	111.0	113.1	116.4	119.6
40 - 44	61.9	65.0	68.3	70.3	70.7	70.0	66.4	66.0	74.3	83.1	91.4
45 - 49	50.6	52.5	54.3	55.1	56.6	60.9	64.2	67.5	69.6	70.1	69.3
50 - 54	42.2	44.8	46.7	48.0	48.9	49.6	51.4	53.3	54.0	55.5	59.8
55 - 59	34.1	34.4	35.1	36.7	38.5	40.8	43.3	45.1	46.6	47.5	48.3
60 - 64	29.2	29.9	30.6	30.9	31.6	32.2	32.4	33.2	34.8	36.5	38.9
65 - 69	25.2	25.6	25.7	25.9	26.2	26.7	27.3	28.0	28.4	29.0	29.5
70 & Over	35.2	37.1	38.9	40.9	42.8	44.7	46.6	48.2	50.2	51.9	53.8

1 Census of Population.

2.4 POPULATION ESTIMATES BY AGE GROUP, ETHNIC GROUP AND SEX, END JUNE 1979

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	2,383.5	1,216.3	1,167.2	347.6	179.6	168.0	1,832.4	922.9	909.5	153.5	87.9	65.6	50.0	25.9	24.1
0 - 4	198.0	102.8	95.2	30.5	15.8	14.7	152.3	79.1	73.2	10.4	5.4	5.0	4.8	2.5	2.3
5 - 9	225.4	116.5	108.9	34.6	17.8	16.8	172.8	89.5	83.3	12.9	6.6	6.3	5.1	2.6	2.5
10 - 14	246.3	126.4	119.9	44.3	22.3	22.0	181.6	93.7	87.9	16.5	8.4	8.1	3.9	2.0	1.9
15 - 19	293.9	151.8	142.1	52.4	27.7	24.7	217.8	111.9	105.9	19.8	10.4	9.4	3.9	1.8	2.1
20 - 24	289.0	148.5	140.5	44.4	23.3	21.1	221.4	113.0	108.4	18.8	10.3	8.5	4.4	1.9	2.5
25 - 29	244.9	125.0	119.9	33.0	16.9	16.1	192.0	97.8	94.2	14.7	7.9	6.8	5.2	2.4	2.8
30 - 34	187.1	95.1	92.0	22.9	11.5	11.4	147.7	74.9	72.8	10.6	5.6	5.0	5.9	3.1	2.8
35 - 39	142.1	71.8	70.3	16.1	7.6	8.5	112.5	56.6	55.9	8.7	4.9	3.8	4.8	2.7	2.1
40 - 44	125.2	63.3	61.9	17.1	8.3	8.8	96.6	48.8	47.8	8.0	4.2	3.8	3.5	2.0	1.5
45 - 49	104.3	53.7	50.6	14.0	6.9	7.1	78.7	39.2	39.5	9.1	6.1	3.0	2.5	1.5	1.0
50 - 54	88.7	46.5	42.2	13.1	7.3	5.8	65.1	31.7	33.4	8.5	6.3	2.2	2.0	1.2	0.8
55 - 59	70.5	36.4	34.1	10.0	5.8	4.2	52.1	24.4	27.7	6.8	5.2	1.6	1.6	1.0	0.6
60 - 64	58.3	29.1	29.2	6.3	3.6	2.7	47.0	21.8	25.2	4.1	3.2	0.9	0.9	0.5	0.4
65 - 69	48.9	23.7	25.2	4.4	2.4	2.0	41.4	19.1	22.3	2.5	1.9	0.6	0.6	0.3	0.3
70 & Over	60.9	25.7	35.2	4.5	2.4	2.1	53.4	21.4	32.0	2.1	1.5	0.6	0.9	0.4	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	40.4	40.9	39.9	46.5	46.5	46.5	39.5	40.5	38.5	38.8	35.0	43.9	35.4	34.4	36.5
20 - 39	36.2	36.2	36.2	33.5	33.0	34.0	36.8	37.1	36.5	34.4	32.7	36.7	40.6	39.0	42.3
40 - 59	16.3	16.4	16.2	15.6	15.8	15.4	16.0	15.6	16.3	21.1	24.8	16.2	19.2	22.0	16.2
60 & Over	7.1	6.5	7.7	4.4	4.7	4.1	7.7	6.8	8.7	5.7	7.5	3.2	4.8	4.6	5.0

2.5 POPULATION ESTIMATES BY AGE GROUP, ETHNIC GROUP AND SEX, END JUNE 1989

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	2,685.4	1,366.4	1,319.0	408.8	210.5	198.3	2,038.0	1,027.3	1,010.7	174.3	95.9	78.4	64.3	32.7	31.6
0 - 4	221.4	114.7	106.7	42.5	21.8	20.7	153.2	79.6	73.6	17.1	8.9	8.2	8.6	4.4	4.2
5 - 9	201.1	104.7	96.4	34.9	18.1	16.8	144.6	75.5	69.1	14.2	7.3	6.9	7.4	3.8	3.6
10 - 14	197.2	102.3	94.9	30.7	15.9	14.8	151.6	78.7	72.9	10.2	5.3	4.9	4.7	2.4	2.3
15 - 19	224.9	116.2	108.7	34.5	17.7	16.8	172.6	89.4	83.2	12.9	6.6	6.3	4.9	2.5	2.4
20 - 24	245.2	125.6	119.6	43.6	21.9	21.7	181.3	93.4	87.9	16.3	8.3	8.0	4.0	2.0	2.0
25 - 29	293.0	151.1	141.9	51.9	27.5	24.4	217.6	111.5	106.1	19.7	10.4	9.3	3.8	1.7	2.1
30 - 34	287.6	147.4	140.2	44.0	23.1	20.9	220.6	112.3	108.3	18.7	10.2	8.5	4.3	1.8	2.5
35 - 39	243.5	123.9	119.6	32.6	16.7	15.9	191.0	97.0	94.0	14.6	7.8	6.8	5.3	2.4	2.9
40 - 44	185.3	93.9	91.4	22.4	11.3	11.1	146.3	74.0	72.3	10.4	5.4	5.0	6.2	3.2	3.0
45 - 49	139.5	70.2	69.3	15.7	7.4	8.3	110.5	55.4	55.1	8.4	4.6	3.8	4.9	2.8	2.1
50 - 54	119.9	60.1	59.8	16.1	7.8	8.3	92.9	46.6	46.3	7.5	3.8	3.7	3.4	1.9	1.5
55 - 59	97.1	48.8	48.3	12.8	6.2	6.6	73.7	35.8	37.9	8.1	5.3	2.8	2.5	1.5	1.0
60 - 64	78.2	39.3	38.9	11.3	6.2	5.1	58.1	27.0	31.1	7.0	5.1	1.9	1.8	1.0	0.8
65 - 69	58.0	28.5	29.5	7.9	4.6	3.3	43.8	19.3	24.5	5.0	3.8	1.2	1.3	0.8	0.5
70 & Over	93.5	39.7	53.8	7.9	4.3	3.6	80.2	31.8	48.4	4.2	3.1	1.1	1.2	0.5	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	32.0	30.8	34.9	34.9	34.8	30.5	31.5	29.6	31.2	29.3	33.5	39.8	40.1	39.6
20 - 39	39.8	40.1	39.5	42.1	42.4	41.8	39.8	40.3	39.2	39.8	38.3	41.6	27.1	24.2	30.1
40 - 59	20.2	20.0	20.4	16.4	15.5	17.3	20.8	20.6	20.9	19.7	19.9	19.5	26.4	28.7	24.0
60 & Over	8.5	7.9	9.3	6.6	7.2	6.1	8.9	7.6	10.3	9.3	12.5	5.4	6.7	7.0	6.3

2.6 VITAL STATISTICS, 1979 -1989

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
1979	40,779	21,293	19,485	12,468	540	28,311	17.1	5.2	11.9	13.2
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*	47,735	24,737	22,993	14,069	315	33,666	17.8	5.2	12.5	6.6

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

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

**2.7 AGE SPECIFIC AND TOTAL FERTILITY RATES, GROSS AND
NET REPRODUCTION RATES, 1979 -1989**

Per Thousand Female Population

Age Group (Years)	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
15 - 19	11.4	12.2	11.5	11.2	10.3	10.2	9.7	8.5	7.9	7.4	7.5
20 - 24	85.1	79.9	80.3	77.1	70.0	66.9	66.9	59.5	59.2	65.2	60.0
25 - 29	139.3	137.3	136.3	133.9	124.8	124.5	124.7	110.5	125.3	148.4	131.2
30 - 34	88.4	84.5	82.0	83.3	79.5	83.2	86.6	76.4	94.6	121.8	108.4
35 - 39	27.5	27.2	28.6	30.4	29.2	31.9	31.2	29.0	34.0	45.7	43.4
40 - 44	5.5	5.7	5.4	4.9	3.8	4.8	4.5	4.8	6.0	7.4	7.7
45 - 49	1.0	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	-	0.1
TOTAL FERTILITY RATE	1,791	1,737	1,723	1,706	1,589	1,609	1,619	1,445	1,636	1,980	1,792
Gross Reproduction Rate	853	840	830	816	765	770	780	694	789	957	864
Net Reproduction Rate	825	819	810	796	746	750	760	677	769	932	842

2.8 LIVE-BIRTHS BY BIRTH ORDER, 1979 -1989

Birth Order	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
Total¹ 1st 2nd 3rd 4th 5th 6th & Over	Number										
	40,779	41,217	42,250	42,654	40,585	41,556	42,484	38,379	43,616	52,957	47,735
	17,253	17,968	18,599	19,105	18,255	18,071	18,638	17,336	17,586	20,522	19,483
	13,645	13,999	14,431	14,593	14,078	15,171	15,498	13,406	16,441	19,495	16,652
	6,630	6,236	6,305	6,228	5,757	5,877	5,900	5,443	6,966	9,806	8,855
	2,002	1,885	1,876	1,777	1,655	1,606	1,525	1,337	1,590	2,036	2,018
	601	590	522	506	470	436	443	382	398	459	477
	538	422	438	391	302	276	236	205	235	229	245
	Per Cent										
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	42.3	43.6	44.0	44.8	45.0	43.5	43.9	45.2	40.3	38.8	40.8
	33.5	34.0	34.2	34.2	34.7	36.5	36.5	34.9	37.7	36.8	34.9
	16.3	15.1	14.9	14.6	14.2	14.1	13.9	14.2	16.0	18.5	18.6
	4.9	4.6	4.4	4.2	4.1	3.9	3.6	3.5	3.6	3.8	4.2
	1.5	1.4	1.2	1.2	1.2	1.0	1.0	1.0	0.9	0.9	1.0
	1.3	1.0	1.0	0.9	0.7	0.7	0.6	0.5	0.5	0.4	0.5

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, 1979 -1989

Place of Occurrence	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*	
TOTAL	Number											
	40,779	41,217	42,250	42,654	40,585	41,556	42,484	38,379	43,616	52,957	47,735	
	Government & Government Restructured Hospitals	34,354	33,970	33,872	33,437	30,695	30,500	30,456	25,896	26,212	28,695	25,048
	Private Hospitals	4,441	5,041	6,576	7,892	8,858	10,337	11,375	12,054	17,004	23,908	22,362
	Nursing Homes	1,158	1,244	857	412	337	296	259	137	131	119	88
	Other Locations	826	962	945	913	695	423	394	292	269	235	237
	Per Cent											
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
	Government & Government Restructured Hospitals	84.3	82.4	80.2	78.4	75.7	73.4	71.7	67.5	60.1	54.2	52.5
	Private Hospitals	10.9	12.2	15.6	18.5	21.8	24.9	26.8	31.4	39.0	45.1	46.8
Nursing Homes	2.8	3.0	2.0	1.0	0.8	0.7	0.6	0.3	0.3	0.2	0.2	
Other Locations	2.0	2.4	2.2	2.1	1.7	1.0	0.9	0.8	0.6	0.5	0.5	

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

2.10 MALE AND FEMALE AGE SPECIFIC DEATH RATES, 1984 -1989

Per Thousand Population

Age Group (Years)	Males						Females					
	1984	1985	1986	1987	1988	1989	1984	1985	1986	1987	1988	1989
Total	5.9	5.8	5.5	5.6	5.6	5.8	4.4	4.6	4.4	4.5	4.7	4.6
Under 1 ¹	9.0	10.2	9.6	8.5	7.1	7.0	8.5	8.3	9.0	6.2	6.8	6.0
1 - 4	0.7	0.4	0.5	0.5	0.4	0.4	0.6	0.4	0.3	0.4	0.5	0.5
5 - 9	0.4	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.3
10 - 14	0.4	0.3	0.3	0.4	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2
15 - 19	0.9	0.9	0.8	0.6	0.6	0.7	0.4	0.5	0.3	0.4	0.3	0.4
20 - 24	1.2	1.0	1.1	0.9	1.1	1.0	0.5	0.4	0.5	0.4	0.5	0.5
25 - 29	1.4	1.2	1.1	1.0	1.0	1.1	0.6	0.7	0.5	0.6	0.6	0.5
30 - 34	1.3	1.4	1.2	1.2	1.2	1.2	0.7	0.8	0.9	0.8	0.7	0.7
35 - 39	2.1	1.9	1.8	1.8	1.8	1.5	1.1	1.2	0.9	1.1	1.2	1.0
40 - 44	3.2	3.0	2.9	2.6	2.7	2.6	1.7	1.5	1.8	1.7	1.5	1.7
45 - 49	5.5	5.1	4.4	4.4	4.2	4.2	3.3	2.8	2.6	2.8	2.6	2.5
50 - 54	10.0	8.8	8.9	8.2	8.0	8.0	5.3	5.0	4.7	5.1	4.9	4.1
55 - 59	16.8	16.9	14.8	14.8	14.0	14.5	8.2	8.2	7.8	8.1	7.5	6.9
60 - 64	25.4	24.7	22.7	23.6	21.5	22.4	13.7	14.8	13.5	13.6	12.7	13.0
65 - 69	41.0	37.0	36.4	32.8	34.2	34.0	22.4	23.2	21.3	20.7	21.3	21.1
70 & Over	83.6	84.4	77.7	79.5	80.4	83.5	64.5	65.3	60.8	61.8	65.4	63.9

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

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

2.11 DEATHS BY BROAD GROUPS OF CAUSES, 1979 -1989

Causes of Death	Number										
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
All Causes	12,468	12,505	12,863	12,896	13,321	13,162	13,348	12,821	13,173	13,690	14,069
Infective & Parasitic Diseases	503	425	432	393	432	390	375	402	432	430	390
of which : Tuberculosis	331	240	221	207	224	163	177	177	186	168	121
Neoplasms	2,542	2,623	2,672	2,729	2,903	2,817	2,939	2,921	3,169	3,233	3,259
of which : Cancer	2,488	2,561	2,616	2,668	2,858	2,776	2,893	2,887	3,131	3,194	3,224
Endocrine, Nutritional & Metabolic Diseases	403	359	404	397	423	512	492	508	521	525	457
of which : Diabetes	347	319	368	361	373	469	464	479	492	501	415
Diseases of the Blood & Blood-forming Organs	41	31	42	33	33	28	29	30	35	35	46
Diseases of the Nervous System & Sense Organs	122	131	114	121	92	97	87	87	102	133	109
Diseases of the Circulatory System	4,233	4,305	4,413	4,430	4,436	4,637	4,651	4,482	4,675	4,847	4,725
of which : Heart & Hypertensive Diseases	2,752	2,777	2,892	2,866	2,911	3,156	3,129	3,028	3,251	3,318	3,126
Cerebrovascular Disease	1,409	1,447	1,438	1,469	1,454	1,413	1,418	1,355	1,343	1,414	1,508
Diseases of the Respiratory System	2,024	1,965	2,196	2,257	2,429	2,096	2,241	1,974	1,942	2,110	2,042
of which : Pneumonia	1,124	1,129	1,264	1,375	1,513	1,204	1,287	1,082	998	1,039	1,072
Bronchitis	89	75	67	68	77	55	63	53	49	52	33
Diseases of the Digestive System	382	368	385	400	403	369	394	326	329	380	341
Diseases of the Genito-Urinary System	349	366	366	319	375	405	319	343	393	380	358
Congenital Anomalies	184	185	178	182	155	172	189	202	171	201	164
of which : Congenital Anomalies of Heart	105	111	109	101	86	91	84	101	87	98	70
Certain Causes of Perinatal Mortality	261	227	208	215	149	151	147	128	128	127	135
Accidents, Poisonings & Violence	876	899	938	966	1,065	1,095	1,082	1,025	931	958	900
of which : Motor Vehicle Accidents	236	250	281	326	323	343	292	265	233	242	na
Other Accidents	160	122	157	196	231	194	214	223	198	168	na
Suicides	249	271	191	239	267	211	327	329	302	367	na
Other Diseases & Causes	548	621	515	454	406	393	403	393	345	331	1,143 ¹
of which : Senility	359	403	237	219	208	236	170	140	125	112	113

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, 1979 -1989

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Demographic Characteristics											
Persons Aged 60 Years & Over ('000)	168.1	173.6	178.5	183.3	188.5	193.9	199.3	205.5	212.9	220.9	229.7
Percentage of Total Population	7.1	7.2	7.3	7.4	7.5	7.7	7.8	7.9	8.1	8.3	8.6
Sex Ratios (Males Per 1,000 Females)											
of Persons Aged											
60 - 69 Years	971	965	961	967	965	971	982	989	991	994	991
70 Years & Over	730	739	751	751	750	740	738	739	735	740	738
60 Years & Over	876	874	875	876	874	872	875	878	877	882	880
Literacy Rate of Persons Aged 60 Years & Over (Per 1,000 Population)											
Males	683	695	706	716	727	737	750	762	773	784	794
Females	185	194	208	219	230	241	255	270	285	302	320
Economic Characteristics											
Economically Active Persons											
Aged 60 Years & Over ('000)	39.2	37.7	40.1	39.7	42.5	42.2	41.1	38.5	38.2	37.8	39.8
Percentage of Total Economically Active	3.7	3.4	3.5	3.4	3.5	3.5	3.4	3.1	3.1	3.0	3.0
Employed Persons Aged 15-59 Years ('000)	979.6	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
Self-employed (%)	12.1	13.6	11.5	12.0	12.4	12.7	12.7	12.8	12.6	12.0	12.1
Employees (%)	84.8	83.9	86.2	85.7	85.5	85.4	85.4	85.4	85.2	86.3	86.6
Employed Persons Aged 60 Years & Over ('000)	38.7	37.7	39.2	39.3	41.8	41.4	40.4	37.0	37.4	37.4	39.4
Self-employed (%)	44.2	44.9	42.0	39.9	42.8	39.8	37.9	43.0	44.3	40.9	41.4
Employees (%)	51.9	52.5	54.2	56.9	53.8	56.3	58.4	52.5	52.0	55.8	56.1

2.12 POPULATION AGED 60 YEARS AND OVER, 1979 -1989 (continued)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
Mortality											
Deaths Aged 60 Years & Over (No.)	7,866	8,002	8,208	8,286	8,760	8,524	8,819	8,476	8,823	9,312	9,733
Percentage of Total	63.1	64.0	63.8	64.3	65.8	65.0	66.1	66.1	67.0	68.0	69.6
Age-specific Death Rates (Per 1,000 Population)											
Males Aged : 60 - 69 Years	35.9	35.9	35.6	32.4	32.2	32.0	30.0	28.6	27.6	26.9	27.3
70 Years & Over	92.2	86.9	85.1	87.8	89.9	83.6	84.4	77.7	79.5	80.4	83.5
60 Years & Over	54.3	53.2	52.9	52.3	53.3	50.9	50.1	46.8	46.8	46.7	48.0
Females Aged : 60 - 69 Years	20.9	20.1	19.4	18.8	18.5	17.6	18.7	17.1	16.8	16.5	16.5
70 Years & Over	70.0	69.3	69.6	67.1	70.3	64.5	65.3	60.8	61.8	65.4	63.9
60 Years & Over	40.2	39.9	39.9	39.0	40.5	37.9	39.1	36.4	36.7	38.1	37.4
Major Causes of Deaths Aged 60 Years & Over (Per 1,000 Population)											
Heart & Hypertensive Diseases	11.2	11.2	11.0	10.9	11.0	11.7	11.4	10.6	11.3	10.8	10.6*
Malignant Neoplasms	8.8	9.3	9.0	8.6	9.6	8.6	8.9	8.8	8.9	8.8	9.2*
Cerebrovascular Diseases	6.6	6.6	6.3	6.4	6.3	5.7	5.8	5.5	5.1	5.1	5.5*
Pneumonia	5.3	5.2	5.7	6.0	6.6	5.1	5.3	4.5	3.9	3.7	4.1*
Tuberculosis (All Forms)	1.4	1.0	0.9	0.8	0.9	0.6	0.7	0.6	0.6	0.5	0.4*

2.12 POPULATION AGED 60 YEARS AND OVER, 1979 -1988 (continued)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Health										
Patients Aged 60 Years & Over Discharged from Hospitals (No.)	36,969	44,097	42,846	46,128	47,087	49,109	49,137	51,004	55,524	60,015
Percentage of Total	14.3	16.6	16.1	16.8	17.3	17.7	17.5	17.5	17.7	17.7
Bed-days Taken Up by Patients Aged 60 Years & Over Discharged from Hospitals (No.)	677,422	711,545	695,022	688,224	741,992	692,658	710,976	730,848	757,633	770,675
Percentage of Total	25.6	26.7	26.3	25.7	28.2	26.8	28.3	28.2	28.7	28.6
Average Length of Stay in Hospitals (Days)										
Below 60 Years	8.9	8.8	8.7	8.7	8.4	8.3	7.8	7.7	7.3	6.9
60 Years & Over	18.3	16.1	16.2	14.9	15.8	14.1	14.5	14.3	13.6	12.8
All Ages	10.2	10.0	9.9	9.7	9.7	9.3	9.0	8.9	8.4	7.9
Hospital Morbidity Rates of Persons Aged 60 Years & Over for Selected Disease Conditions (Per 1,000 Population)										
Heart & Hypertensive Diseases	27.0	29.2	31.9	30.3	28.2	31.9	31.6	34.5	37.7	38.3
Cancer	21.0	22.2	24.3	23.1	23.2	23.0	22.9	25.9	28.5	28.4
Cataract	10.4	12.8	14.9	13.4	13.8	12.9	15.3	20.7	21.3	24.5
Chronic Obstructive Lung Diseases	na	11.2	11.5	11.7	10.8	11.7	10.9	11.4	12.0	13.7
Cerebrovascular Diseases	10.1	9.1	10.3	8.6	9.3	9.4	10.6	11.5	11.7	11.5
Diabetes Mellitus	6.4	6.9	8.0	7.5	6.9	7.3	6.9	7.4	7.6	8.1
Fracture of Lower Limb	4.8	5.5	6.4	6.0	4.8	5.5	5.8	5.2	5.2	5.4
Pneumonia	5.1	4.5	4.6	4.3	4.5	4.5	4.8	4.5	4.5	4.8
Peptic Ulcer	5.3	5.3	5.9	5.2	4.4	4.7	4.2	4.8	4.6	4.8
Tuberculosis	5.4	4.7	4.2	4.2	3.7	3.5	3.1	2.8	2.9	2.6

2.13 MARRIAGES REGISTERED BY ETHNIC GROUP OF COUPLE, 1979 -1989

Number

Year	All Marriages Registered	Women's Charter					Muslim Law Act			
		Total	Chinese	Indians	Others	Inter-ethnic Group	Total	Malays	Others	Inter-ethnic Group
1979	23,325	19,648	17,764	1,147	127	610	3,677	2,895	245	537
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

Source : Registry of Marriages
Registry of Muslim Marriages

2.14 MARRIAGES BY AGE GROUP OF GROOMS AND BRIDES, 1987 -1989

Number

Age Group (Years)	1987				1988				1989			
	Grooms		Brides		Grooms		Brides		Grooms		Brides	
	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act
All Ages	18,635	4,465	18,635	4,465	19,782	4,801	19,782	4,801	18,546	4,794	18,546	4,794
Under 20	64	54	850	487	58	39	802	449	60	56	760	512
20 - 24	3,550	1,373	7,801	2,282	3,631	1,254	8,341	2,348	3,288	1,310	7,414	2,298
25 - 29	8,672	1,888	7,044	1,065	9,306	2,209	7,520	1,279	8,374	2,154	7,121	1,273
30 - 34	4,301	636	2,079	322	4,701	731	2,231	376	4,520	718	2,281	382
35 - 39	1,318	226	613	175	1,357	256	618	185	1,494	264	654	166
40 - 44	388	97	150	67	403	136	185	75	434	127	209	85
45 - 49	182	74	66	37	162	60	51	43	186	58	61	40
50 & Over	160	117	32	30	164	116	34	46	190	107	46	38

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, 1979 -1989

Years

Year	All Marriages		Women's Charter		Muslim Law Act	
	Grooms	Brides	Grooms	Brides	Grooms	Brides
1979	27.8	24.5	27.9	24.6	27.6	23.7
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

Source : Registry of Marriages
Registry of Muslim Marriages

2.16 AGE SPECIFIC MARRIAGE RATES, 1970, 1981 -1989

Per Thousand Unmarried Population

Age Group (Years)	1970	1981	1982	1983	1984	1985	1986	1987	1988	1989	
	Males										
	15 - 19	1.6	1.7	1.7	1.6	1.5	1.2	1.0	1.0	0.8	1.0
	20 - 24	52.4	52.2	46.1	42.6	43.3	42.3	34.9	37.5	38.6	38.3
	25 - 29	173.0	134.5	119.2	109.5	123.7	110.6	87.8	104.2	112.0	101.6
	30 - 34	171.7	140.9	126.4	117.3	137.3	115.0	97.2	113.7	115.0	105.2
	35 - 39	113.1	116.4	119.0	88.2	110.2	87.0	74.0	93.7	84.3	82.8
	40 - 44	59.5	92.2	87.5	61.9	70.8	61.7	67.6	67.5	66.6	67.6
	General Marriage Rate (15-44)	51.6	58.7	54.4	51.1	58.4	54.7	46.3	54.3	57.4	54.4
	Females										
	15 - 19	19.1	19.5	18.5	17.7	16.1	15.7	12.7	12.4	11.6	11.8
	20 - 24	123.8	112.9	101.0	95.0	104.8	98.6	81.6	93.0	100.8	96.7
	25 - 29	192.3	136.7	117.3	111.9	131.8	117.1	99.3	130.4	133.6	123.1
	30 - 34	99.1	75.9	74.7	67.1	73.2	67.5	62.9	79.7	81.0	81.5
	35 - 39	46.0	50.4	48.5	39.5	45.1	35.7	34.8	40.6	41.4	39.2
	40 - 44	18.1	27.9	24.9	20.7	19.4	19.7	18.5	21.4	21.9	22.2
	General Marriage Rate (15-44)	67.3	73.0	67.1	63.6	71.4	67.0	57.2	67.9	71.1	67.5

Source : Registry of Marriages
Registry of Muslim Marriages

2.17 DIVORCES BY ETHNIC GROUP OF COUPLE, 1982 -1989

Year	Women's Charter					Muslim Law Act					
	Total	Chinese	Indians	Others	Inter-ethnic Group	Total	Malays	Indians	Others	Inter-ethnic Group	
	Number										
	1982	1,575	1,384	89	26	76	536	434	26	2	74
	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
	Per Cent										
1982	100.0	87.9	5.7	1.6	4.8	100.0	81.0	4.8	0.4	13.8	
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	

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, 1987- 1989

Number

Age Group (Years)	1987				1988				1989			
	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	1,912	796	1,912	796	2,023	893	2,023	893	2,002	907	2,002	907
Under 20	-	1	2	21	-	2	2	14	-	1	3	15
20 - 24	50	62	175	148	41	52	181	185	24	41	178	163
25 - 29	360	220	593	234	370	241	608	262	362	243	572	265
30 - 34	499	171	488	167	541	215	501	169	521	234	496	199
35 - 39	434	131	311	102	473	153	371	121	463	167	354	125
40 - 44	246	81	137	51	271	83	166	59	290	99	183	70
45 - 49	128	51	80	34	152	59	73	36	144	48	76	29
50 & Over	102	79	33	39	109	88	55	47	125	74	66	41
Not Stated	93	-	93	-	66	-	66	-	73	-	74	-
Mean Age (Years)	36.1	35.7	32.6	31.8	36.5	35.9	33.0	31.9	36.8	35.6	33.3	32.0

Note : See note to Table 2.17.

Source : Supreme Court
Syariah Court

CHART 1

POPULATION, 1959-1989

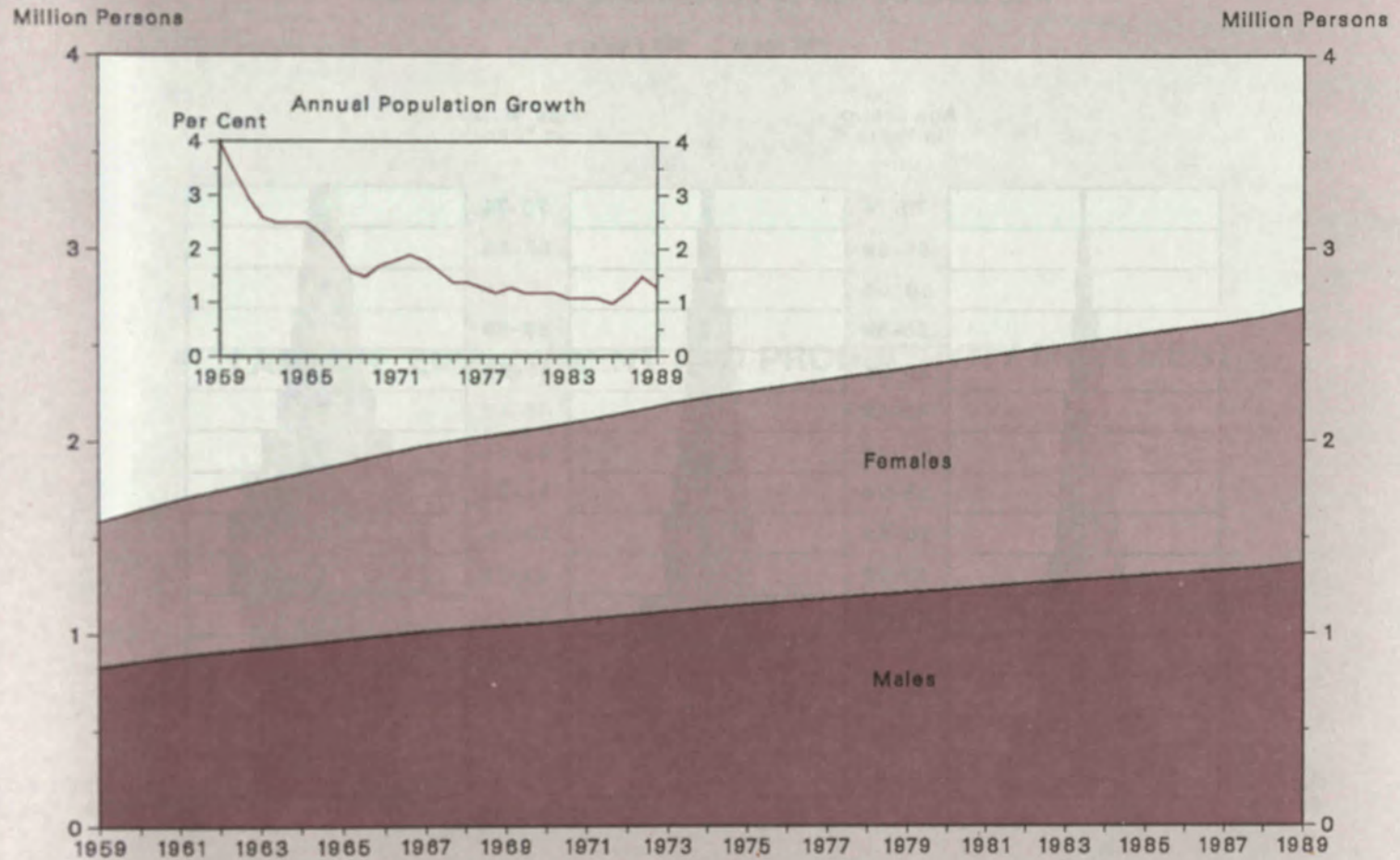
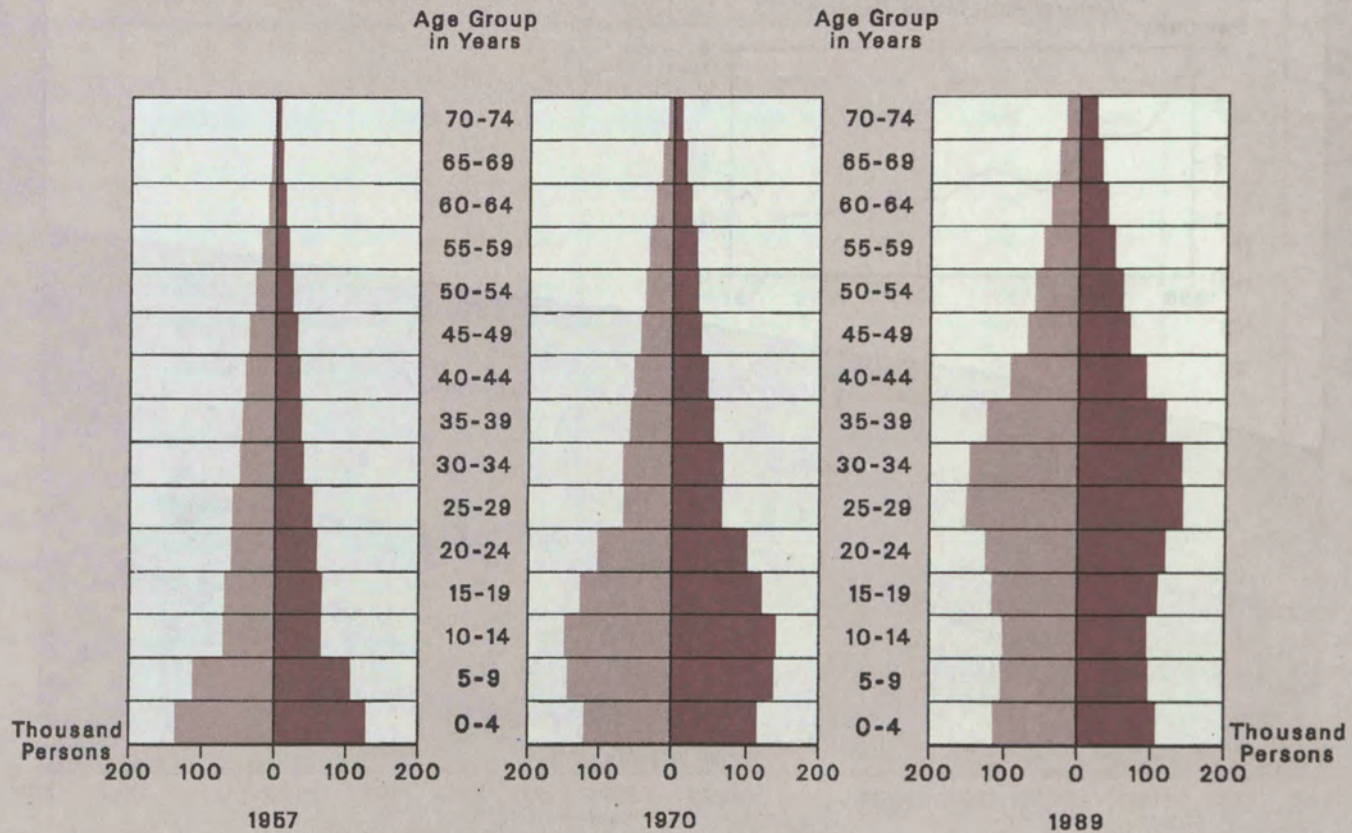


CHART 2

AGE DISTRIBUTION OF POPULATION, 1957, 1970 & 1989

Male Female



3 LABOUR, EMPLOYMENT AND PRODUCTIVITY MOVEMENT

3 LABOUR, EMPLOYMENT AND PRODUCTIVITY MOVEMENT

Labour Force

Data for 1979 and 1981 to 1989 were based on annual labour force surveys conducted by the Ministry of Labour in June of each year, whereas data for 1980 were based on the 1980 Census of Population conducted by the Department of Statistics. Data for 1981 to 1989 refer to persons aged fifteen years and over while data for the earlier years refer to persons aged ten years and over.

Definitions

Employed Persons : Persons 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 : Persons 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 : Persons who were either employed or unemployed during the reference week.

Economically Inactive Persons : Persons 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 groups.

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

Productivity : The physical output as measured by value added at 1985 prices, contributed by each worker.

Monthly Earnings

Prior to 1985, statistics on the average monthly earnings of workers were obtained from the Hours and Earnings Survey conducted by the Research and Statistics Department (RSD) of 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 are thus not strictly comparable.

Definitions

Monthly Earnings : It 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, skills development fund levy, and payments-in-kind.

Hours Worked

Statistics on weekly hours worked are compiled from various establishment surveys conducted over the years by the RSD of 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 were included. The data are thus not strictly comparable.

Definitions

Weekly Hours : It 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 obtainable from the "Singapore Yearbook of Labour Statistics" published by the Research and Statistics Department of the Ministry of Labour.

Employment Service

The Employment Service 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 a job seeker who is registered for employment assistance at the Department. The registration period for each registrant lasts for 6 months. If a registrant wants further assistance after the period, he has to renew his registration. Registrants include only Singapore citizens and permanent residents who are unemployed at the time of 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 the expiry of his 6-month registration.

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

Central Provident Fund

The Central Provident Fund (CPF) was established on July 1, 1955 as Singapore's national social security savings scheme. The basic purpose of the CPF is to help its members meet primary needs like shelter, food, clothing and health services in their old age or when they are no longer able to work.

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. However, from 1 January 1987, members reaching 55 years of age have to set aside a

minimum sum in their Retirement Account. This is to provide them with a safety net so that they can have a regular income to meet their basic needs during retirement. Since 1 April 1987, Singaporeans and permanent residents can also top up their own or their parents' Retirement Accounts through transfers from their own CPF savings or with cash. Members can also withdraw their CPF savings if they leave Singapore and West Malaysia permanently or if they are permanently disabled.

CPF savings can also be used under the various CPF approved schemes. Savings in the Ordinary Account can be used for the purchase of houses, non-residential properties, home protection insurance, dependants' protection insurance, for approved shares or for tertiary education. The Medisave Account can be used for payment of hospitalisation expenses while the Special Account is reserved for old age and contingencies.

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.

Note: Table on CPF Board members by Balances is no longer available from this issue.

CPF Contribution Rates wef 1 July 1989 for Private Sector Employees below age 55 years

Total amount of employees's wages for the calendar month (1)	Contribution for the calendar month payable by the employer (2)	Amount Recoverable by the Employer from the Employee's Wages for the Calendar Month (3)
Not exceeding \$50	Nil	Nil
Exceeding \$50 but not exceeding \$200	An amount equal to 15% of the total amount of the employee's wages for the month	Nil
Exceeding \$200 but not exceeding \$363	An amount equal to the sum of: (a) 23% of the total amount of employees's wages for the month; and (b) one-third of the difference between the employee's total wages for the month and \$200.	An amount equal to the sum of: (a) 8% of the total amount of the month; and (b) one-third of the difference between total amount of the employee's wages for the month and \$200.
Exceeding \$363	An amount equal to the sum of: (a) 38% of the employee's ordinary wages for the month, subject to a maximum of \$2,280; and (b) 38% of the amount of additional wages payable to the employee in the month.	An amount equal to the sum of: (a) 23% of the employee's ordinary wages for the month, subject to a maximum of \$1,380; and (b) 23% of the amount of additional wages payable to the employee in the month.

CPF Contribution Rates wef 1 July 1989 for Older Private Sector Employees

Worker's Age Group (In Years)	Contribution By Employer	Contribution By Employee	Total Contribution
55 - 59	12%	16%	28%
60 - 64	8%	13%	21%
65 and above	6%	11%	17%

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.

In 1989, the Board continued to promote productivity; assist companies to improve productivity through its consultancy and training programmes; and measure and monitor productivity improvement at the national, industry and firm levels. As at end of 1989, NPB's programmes had reached 5,770 companies.

"Customer Satisfaction" was the theme for the 1989 productivity promotion campaign. The aim was to inculcate in the workforce the importance of satisfying both the internal and external customers to achieve higher productivity. In August 1989, the Productivity Activists Programme was launched to develop a pool of key productivity activists, such as QCC facilitators, productivity managers and trainers, to play the crucial role of enthusing the workforce to improve productivity.

The NPB Institute for Productivity Training, established in April 1988, conducted continuing education courses for managers, executives and workers. Short intensive workshops, conferences and seminars were also conducted. As part of its efforts in developing the training infrastructure, the NPB has teamed up with the private sector to develop national training programmes. The Board, in collaboration with IBM, NCB and

Singapore Telecom, launched the Information Technology (IT) Programme aimed at equipping 200,000 office workers with 'A' levels and below, with skills in handling information technology. The FESTO Industrial Automation Programme, launched in July 1989, was targeted at some 130,000 factory workers. The programme would enable workers to do simple operations of automated system, basic preventive maintenance and simple trouble-shooting. About 20,600 participants enrolled for the programmes and about 10,900 participated in the promotional seminars.

Trade Unions

Data on trade unions and membership are compiled from returns submitted to the Registrar of Trade Unions and covered 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, 1979-1989

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		
1979	1,056.3	697.7	358.6	677.2	343.9	20.5	14.7	70.0	36.6	3.3
1980 ¹	1,116.0	730.6	385.4	706.5	370.6	24.1	14.8	72.0	39.3	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

Note : Data prior to 1981 refer to persons aged 10 years and over.

¹ Census of Population, 1980.

Source : Ministry of Labour

3.2 PERSONS AGED 15 AND OVER BY ACTIVITY STATUS, AGE GROUP AND SEX, 1989

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	2,067.3	1,008.5	1,058.8	1,305.4	792.6	512.8	1,277.3	774.0	503.2	28.1	18.5	9.6	761.9	216.0	546.0
15 - 19	245.3	123.3	122.0	65.8	31.4	34.4	62.7	30.3	32.4	3.0	1.1	1.9	179.5	91.9	87.6
20 - 24	268.9	130.5	138.3	223.2	110.7	112.4	214.8	106.4	108.5	8.3	4.4	4.0	45.7	19.8	25.9
25 - 29	283.0	140.0	143.0	241.2	135.2	106.0	236.3	131.6	104.7	4.9	3.6	1.3	41.8	4.8	37.0
30 - 34	273.9	134.3	139.6	215.4	132.1	83.4	211.3	128.9	82.4	4.1	3.2	0.9	58.4	2.2	56.2
35 - 39	237.1	116.4	120.7	179.6	115.2	64.4	177.3	113.4	63.9	2.4	1.9	0.5	57.5	1.1	56.3
40 - 44	177.3	87.2	90.0	130.5	85.3	45.2	128.4	83.6	44.8	2.1	1.7	0.4	46.8	1.9	44.8
45 - 49	141.4	69.2	72.1	96.3	66.5	29.8	95.0	65.4	29.6	1.2	1.1	0.2	45.1	2.7	42.4
50 - 54	121.0	59.5	61.6	72.0	53.0	18.9	70.8	52.1	18.7	1.1	0.9	0.2	49.1	6.4	42.6
55 - 59	98.8	47.7	51.1	41.7	31.8	9.9	41.1	31.3	9.8	0.6	0.5	0.1	57.1	15.9	41.2
60 & Over	220.7	100.3	120.4	39.8	31.3	8.5	39.4	31.0	8.4	0.3	0.3	0.1	181.0	69.0	111.9

Source : Ministry of Labour

3.3 AGE-SEX SPECIFIC LABOUR FORCE PARTICIPATION RATES, 1970, 1980 AND 1987-1989

Per Cent

Age Group (Years)	1970 ¹			1980 ¹			1987			1988			1989		
	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
Total	56.5	82.3	29.5	63.2	81.5	44.3	62.7	78.6	47.0	62.9	78.5	47.8	63.1	78.6	48.4
15 - 19	49.5	55.7	43.0	49.1	47.5	50.7	26.7	26.3	27.0	26.2	25.2	27.2	26.8	25.5	28.2
20 - 24	73.5	92.9	53.6	86.1	93.4	78.4	83.0	86.0	79.9	82.7	84.6	80.9	83.0	84.8	81.3
25 - 29	64.5	98.0	30.8	78.3	97.2	58.7	83.6	96.7	71.2	85.1	96.7	73.8	85.2	96.6	74.1
30 - 34	60.6	98.3	22.7	71.5	97.9	44.2	77.0	98.3	56.3	77.8	98.1	58.4	78.7	98.3	59.8
35 - 39	60.2	98.4	19.3	68.0	98.0	37.1	74.6	98.6	50.2	74.1	98.7	50.6	75.8	99.0	53.3
40 - 44	60.8	98.1	17.8	65.8	97.6	33.2	71.7	98.7	45.5	72.2	98.3	46.6	73.6	97.8	50.2
45 - 49	60.0	96.2	17.5	61.8	95.7	26.5	67.9	96.3	39.3	68.5	96.0	39.3	68.1	96.1	41.3
50 - 54	55.0	88.1	17.5	56.3	89.6	20.4	58.3	89.6	28.1	58.3	88.9	28.8	59.5	89.2	30.7
55 - 59	46.2	73.9	16.2	43.6	70.7	14.5	40.6	63.8	17.1	40.5	65.1	17.4	42.2	66.6	19.4
60 - 64	35.0	55.6	13.4	31.9	52.5	11.3	28.9	45.7	12.2	29.5	47.3	11.9	28.9	48.2	11.0
65 - 69	25.3	41.2	9.8	23.5	38.6	9.5	19.8	31.8	8.4	18.8	30.6	8.1	18.6	31.1	7.6
70 - 74	14.5	25.8	5.7	15.0	25.1	6.2	12.4	20.5	5.6	10.6	18.6	3.6	11.1	18.0	5.6
75 & Over	6.3	14.4	2.1	6.6	13.3	2.5	5.5	10.3	2.4	5.4	10.5	1.9	4.7	9.0	1.8

1 Census of Population.

Source : Ministry of Labour

3.4 EMPLOYED PERSONS BY INDUSTRY, 1970, 1980 AND 1982-1989

Thousand

Industry ¹	1970 ²	1980 ²	1982	1983	1984	1985	1986	1987	1988	1989
Total	650.9	1,077.1	1,140.6	1,167.6	1,174.8	1,154.3	1,149.0	1,192.9	1,238.5	1,277.4
Agriculture & Fishing	22.5	17.0	11.6	11.8	8.8	8.1	9.6	10.4	5.4	5.8
Quarrying	2.2	1.1	2.5	2.3	1.9	2.4	1.3	0.6	0.8	0.8
Manufacturing	143.1	324.1	336.0	324.4	322.2	293.8	290.1	318.9	352.6	369.9
Utilities	7.6	8.5	7.9	8.5	9.2	7.7	7.8	7.2	7.8	6.9
Construction	43.1	72.3	71.9	84.0	99.8	102.8	99.5	91.5	83.3	84.5
Commerce	152.6	229.8	253.6	265.0	264.6	271.1	265.6	279.4	283.6	291.5
Transport & Communications	79.0	119.9	129.8	131.9	122.4	117.0	114.1	121.0	120.2	126.2
Financial & Business Services	25.8	79.4	89.8	95.0	100.9	100.7	99.9	105.7	111.4	117.1
Other Services	174.6	224.6	235.5	243.1	242.2	248.3	259.2	256.7	271.6	273.5
Activities Not Adequately Defined	0.4	0.4	2.0	1.6	2.8	2.4	1.8	1.6	1.8	1.2

Note : Data prior to 1982 refer to persons aged 10 years and over.

From 1982, figures refer to persons aged 15 years and over.

1 Data for 1970 were classified according to the Singapore Standard Industrial Classification (SSIC) 1968 and data for 1980-1989 were classified according to SSIC 1978.

2 Census of Population.

Source : Ministry of Labour

3.5 EMPLOYED PERSONS BY OCCUPATION, 1970, 1980 AND 1982-1989

Thousand

Occupation ¹	1970 ²	1980 ²	1982	1983	1984	1985	1986	1987	1988	1989
Total	650.9	1,077.1	1,140.6	1,167.6	1,174.8	1,154.3	1,149.0	1,192.9	1,238.5	1,277.3
Professional & Technical Workers	56.1	95.1	106.3	111.4	119.1	120.5	126.4	133.6	142.8	152.5
Administrative, Managerial & Executive Workers	15.5	52.2	58.3	62.3	70.0	65.9	68.1	71.9	86.3	97.7
Clerical Workers	82.9	167.5	186.9	196.1	194.8	184.7	180.6	184.8	190.7	193.5
Sales Workers	102.6	132.0	153.2	161.9	162.0	165.9	155.6	170.5	152.2	153.6
Service Workers	88.8	112.2	124.3	126.1	130.0	131.1	136.5	138.9	163.8	170.2
Agricultural Workers & Fishermen	26.9	20.9	15.4	15.7	12.7	12.5	12.8	14.3	8.9	9.1
Production, Transport & Other Manual Workers	255.0	435.0	439.0	441.0	439.4	419.0	411.0	422.8	437.2	447.7
Workers Not Classifiable by Occupation	23.1	62.2	57.2	53.1	46.7	54.6	57.9	56.2	56.6	53.0

Note : See note to Table 3.4

Source : Ministry of Labour

- 1 Data for 1970 were classified according to the Singapore Standard Occupational Classification (SSOC) 1968 and data for 1980-1989 were classified according to SSOC 1978.
- 2 Census of Population.

3.6 EMPLOYED PERSONS AGED 15 AND OVER BY INDUSTRY AND OCCUPATION, 1989

Thousand

Industry \ Occupation									
	Total	Professional & Technical Workers	Administrative, Managerial & Executive Workers	Clerical Workers	Sales Workers	Service Workers	Agricultural Workers & Fishermen	Production, Transport & Other Manual Workers	Workers Not Classifiable by Occupation
Total	1,277.3	152.5	97.7	193.5	153.6	170.2	9.1	447.7	53.0
Agriculture & Fishing	5.8	0.2	0.4	0.2	-	0.2	4.6	0.3	-
Quarrying	0.8	0.1	0.1	0.1	-	0.1	-	0.3	-
Manufacturing	369.9	34.1	24.6	37.8	5.7	5.7	0.1	261.9	-
Utilities	6.9	1.8	0.2	1.2	-	0.3	-	3.5	-
Construction	84.5	6.1	4.9	4.6	0.3	0.4	-	67.9	0.2
Commerce	291.5	5.6	24.5	42.1	135.9	61.5	0.2	21.7	-
Transport & Communications	126.2	12.3	8.6	32.5	0.5	8.3	-	64.0	-
Financial & Business Services	117.1	21.5	23.6	44.9	10.4	11.2	1.2	4.4	-
Other Services	273.5	70.9	10.8	30.1	0.8	82.6	3.1	22.6	52.7
Activities Not Adequately Defined	1.2	-	-	-	-	-	-	1.1	0.1

Source : Ministry of Labour

3.7 GOVERNMENT EMPLOYEES BY DIVISIONAL STATUS, 1979-1989

Divisional Status	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
Total	Number										
	72,281	71,081	69,866	68,677	69,051	69,298	69,630	70,001	69,494	67,758	65,179
	7,603	7,796	8,068	8,467	8,911	9,547	10,158	11,047	11,433	11,797	11,812
	23,491	23,051	22,724	22,962	23,441	23,101	22,915	22,942	22,611	22,375	21,485
	25,317	24,892	23,947	22,778	22,162	22,251	22,369	21,963	21,794	20,785	20,046
	15,870	15,342	15,127	14,470	14,537	14,399	14,188	14,049	13,656	12,801	11,836
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
	10.5	11.0	11.5	12.3	12.9	13.8	14.6	15.8	16.4	17.4	18.1
	32.5	32.4	32.5	33.4	33.9	33.3	32.9	32.8	32.5	33.0	33.0
	35.0	35.0	34.3	33.2	32.1	32.1	32.1	31.4	31.4	30.7	30.8
	22.0	21.6	21.7	21.1	21.1	20.8	20.4	20.0	19.7	18.9	18.1

Note : Figures exclude daily-rated employees.

Source : Public Service Commission

3.8 EMPLOYED PERSONS BY GROSS MONTHLY INCOME, 1979-1989

Thousand

Gross Monthly Income (\$)	1979	1980 ¹	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	1,021.0	1,072.9	1,087.4	1,114.0	1,141.8	1,151.2	1,131.6	1,127.5	1,166.5	1,216.8	1,259.7
Under 200	183.6	105.4	80.3	68.2	64.8	55.3	47.0	50.1	47.1	40.5	37.3
200 - 399	443.2	430.6	416.9	319.0	253.8	195.5	160.0	154.0	153.9	134.8	118.6
400 - 599	200.6	246.0	278.6	303.4	312.6	311.1	304.7	292.1	291.6	296.1	271.6
600 - 799	77.8	101.3	121.7	157.3	173.8	191.7	200.2	201.2	208.0	225.9	246.2
800 - 999	36.0	52.6	56.1	75.1	91.2	108.0	109.0	119.2	122.4	136.3	147.5
1,000 - 1,499	43.6	62.2	72.9	96.1	116.8	135.7	146.9	149.0	161.2	181.6	200.2
1,500 & Over	36.3	74.8	60.9	94.8	128.8	153.9	163.7	161.8	182.3	201.6	238.3

Note : See note to Table 3.4.

Figures from 1981 exclude unpaid family workers.

1 Sample Enumeration in the 1980 Census of Population.

Source : Ministry of Labour

3.9 CHANGES IN PRODUCTIVITY BY INDUSTRY, 1980-1989

	Per Cent									
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
TOTAL	5.7	5.2	1.6	5.3	6.9	3.1	6.3	4.8	4.6	4.8
Total excluding Construction	5.6	5.8	1.9	5.1	6.7	2.4	7.1	4.8	4.5	5.0
Manufacturing	4.6	9.2	-0.7	9.1	7.2	-1.5	13.6	3.7	2.0	3.9
Construction	6.6	0.5	4.2	10.1	9.0	5.7	-4.3	0.8	1.6	-0.1
Commerce	4.9	1.3	1.2	2.1	4.5	0.4	4.9	6.3	10.9	4.1
Transport & Communications	10.0	9.1	8.0	8.8	11.9	5.2	10.7	6.3	6.6	4.8
Financial & Business Services	8.8	4.7	-0.1	4.3	7.7	12.0	1.4	17.7	6.0	7.0

Source : Department of Statistics
Ministry of Labour

3.10 AVERAGE MONTHLY EARNINGS BY INDUSTRY AND OCCUPATION, 1979-1989 (As at August)

Dollars

Industry	All Occupations										
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	612	692	789	910	991	1,083	1,191	1,210	1,231	1,295	1,427
Manufacturing	509	575	670	740	821	907	980	989	1,025	1,095	1,225
Construction	597	687	851	881	861	891	1,250	1,208	1,240	1,378	1,556
Commerce	577	674	797	877	946	1,017	1,055	1,072	1,057	1,124	1,239
Transport, Storage & Communications	696	778	857	998	1,109	1,196	1,309	1,354	1,422	1,422	1,517
Financing, Insurance, Real Estate & Business Services	830	927	1,022	1,164	1,283	1,422	1,418	1,421	1,458	1,551	1,737
Community, Social & Personal Services	704	788	845	1,090	1,188	1,337	1,422	1,469	1,483	1,551	1,678
Others ¹	708	815	907	1,137	1,181	1,345	1,317	1,312	1,339	1,412	1,551

Note : The data for 1985-1989 refer to firms with at least 25 CPF contributors, while those for 1979-1984 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, 1979-1989 (continued)
(As at August)

Dollars

Industry	Professional, Administrative, Managerial, Executive and Related Workers										
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	1,465	1,619	1,761	2,068	2,228	2,419	2,296	2,322	2,339	2,421	2,610
Manufacturing	1,819	1,919	2,076	2,201	2,360	2,521	2,191	2,215	2,236	2,260	2,408
Construction	1,402	1,529	1,762	2,073	2,250	2,427	2,247	2,219	2,159	2,239	2,381
Commerce	1,784	2,061	2,222	2,405	2,472	2,591	2,409	2,449	2,471	2,606	2,743
Transport, Storage & Communications	2,167	2,199	2,242	2,541	2,793	2,921	2,416	2,480	2,471	2,585	2,762
Financing, Insurance, Real Estate & Business Services	1,734	1,865	2,101	2,354	2,546	2,704	2,690	2,709	2,718	2,837	3,088
Community, Social & Personal Services	1,077	1,217	1,261	1,675	1,822	2,065	2,121	2,191	2,179	2,256	2,443
Others ¹	1,409	1,582	1,797	2,235	2,291	2,512	2,228	2,226	2,235	2,327	2,571

Note : The data for 1985-1989 refer to firms with at least 25 CPF contributors, while those for 1979-1984 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, 1979-1989 (continued)
(As at August)

Dollars

Industry	Clerical, Sales, Service and Related Workers										
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	500	561	617	695	744	808	853	872	890	917	987
Manufacturing	544	601	674	726	786	868	930	962	979	1,021	1,097
Construction	465	523	657	716	751	811	876	885	890	943	1,015
Commerce	436	514	592	642	685	735	773	779	774	812	891
Transport, Storage & Communications	554	618	676	791	843	910	1,032	1,065	1,130	1,109	1,175
Financing, Insurance, Real Estate & Business Services	557	614	637	700	754	834	816	832	861	881	951
Community, Social & Personal Services	485	525	549	672	722	784	822	843	855	893	942
Others ¹	643	739	755	925	954	1,080	1,082	1,096	1,125	1,149	1,230

Note : The data for 1985-1989 refer to firms with at least 25 CPF contributors,
while those for 1979-1984 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.

3.10 AVERAGE MONTHLY EARNINGS BY INDUSTRY AND OCCUPATION, 1979-1989 (continued)
(As at August)

Dollars

Industry	Production, Transport and Other Manual Workers										
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	414	473	553	613	668	729	790	783	817	866	941
Manufacturing	393	443	523	564	630	691	730	732	773	828	908
Construction	447	519	661	720	710	753	989	910	920	1,029	1,171
Commerce	426	489	573	630	675	716	794	798	802	868	894
Transport, Storage & Communications	534	631	700	802	867	937	955	965	1,068	1,035	1,101
Financing, Insurance, Real Estate & Business Services	398	463	553	613	638	709	926	878	847	973	1,035
Community, Social & Personal Services	358	422	465	556	566	647	841	821	825	853	926
Others ¹	501	575	622	779	782	878	926	885	891	925	991

Note : The data for 1985-1989 refer to firms with at least 25 CPF contributors,
while those for 1979-1984 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, 1979-1989

Industry	Hours										
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
	As at August							As at June		As at Sept	
All Industries	45.8	45.9	45.6	45.4	45.6	45.6	44.6	45.1	45.5	45.6	46.6
Agriculture & Fishing	43.6	43.8	43.7	43.9	44.4	44.2	44.1	44.9	44.8	44.9	46.4
Quarrying	46.2	46.9	49.5	49.6	49.2	48.0	46.5	46.6	49.4	52.3	51.1
Manufacturing	48.0	48.0	48.1	47.6	48.1	47.8	46.5	47.7	48.4	47.4	48.6
Utilities	47.9	48.2	48.0	48.0	48.3	47.7	47.3	47.3	46.6	n.a	n.a
Construction	47.1	48.1	49.3	50.5	50.5	52.2	51.0	50.0	49.5	48.2	50.0
Commerce	44.2	44.1	44.1	44.0	43.9	43.5	43.3	42.9	42.8	41.7	42.0
Transport & Communications	46.7	47.1	47.4	46.8	46.5	46.0	45.1	45.8	46.0	45.6	47.8
Financial & Business Services	43.8	43.6	43.8	43.5	43.3	43.3	43.3	43.7	43.6	44.2	44.6
Other Services	42.1	42.0	39.7	39.9	39.9	39.4	39.2	39.8	40.8	41.7	41.4

Note : The data for 1988 and 1989 refer to private sector firms with at least 25 workers, while those for 1979-1987 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, 1979-1989

Number

Year	Number on 'Live' Register ¹	New Registrants			Vacancies Notified			Vacancies Filled		
		Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
1979	8,600	18,910	11,112	7,798	19,223	11,402	7,821	7,329	4,668	2,661
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

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, 1979-1989
(End of Period)

Age Group (Years)	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	Thousand										
	832.9	863.6	917.9	927.5	917.9	943.0	889.6	912.0	935.3	963.8	988.6
	102.5	97.8	92.5	81.1	72.1	69.1	47.6	44.4	43.5	40.2	41.4
	204.2	209.1	219.1	212.7	203.3	202.2	181.0	177.3	168.7	159.3	148.5
	165.6	173.5	189.0	197.0	197.0	203.0	198.1	203.8	206.1	208.8	207.8
	110.2	123.9	133.1	139.1	142.4	149.5	149.8	159.8	168.9	178.3	184.2
	65.5	63.5	71.3	83.4	91.8	104.9	113.2	119.6	126.6	135.3	142.9
	57.3	59.4	63.7	64.1	63.9	63.5	59.4	65.2	77.6	89.3	103.0
	42.8	44.7	47.0	48.2	50.5	54.0	54.3	56.5	57.5	59.8	60.5
	33.8	34.8	36.3	37.3	37.6	38.4	38.8	39.2	40.3	44.0	48.2
	19.6	20.2	21.5	22.9	23.1	24.2	23.4	22.9	23.5	25.0	27.1
	20.3	22.8	23.2	22.0	21.4	21.6	20.5	19.7	20.1	21.5	23.8
	11.1	13.9	21.2	19.7	14.8	12.6	3.5	3.6	2.5	2.3	1.2
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
	12.3	11.3	10.0	8.8	7.9	7.4	5.3	4.8	4.7	4.2	4.2
	24.5	24.2	23.9	22.9	22.1	21.4	20.4	19.4	18.0	16.5	15.0
	19.9	20.1	20.6	21.2	21.5	21.5	22.3	22.4	22.0	21.7	21.0
	13.2	14.4	14.5	15.0	15.5	15.9	16.8	17.5	18.1	18.5	18.6
	7.9	7.4	7.8	9.0	10.0	11.1	12.7	13.1	13.5	14.0	14.5
	6.9	6.9	6.9	6.9	7.0	6.7	6.7	7.2	8.3	9.3	10.4
	5.1	5.2	5.1	5.2	5.5	5.7	6.1	6.2	6.2	6.2	6.1
	4.1	4.0	4.0	4.0	4.1	4.1	4.4	4.3	4.3	4.6	4.9
	2.4	2.3	2.4	2.5	2.5	2.6	2.6	2.5	2.5	2.6	2.8
	2.4	2.6	2.5	2.4	2.3	2.3	2.3	2.2	2.1	2.2	2.4
	1.3	1.6	2.3	2.1	1.6	1.3	0.4	0.4	0.3	0.2	0.1

Source : Central Provident Fund Board

3.14 CENTRAL PROVIDENT FUND CONTRIBUTORS BY WAGE LEVEL, 1979-1989 (End of Period)

Monthly Wage Level (\$)	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Thousand											
Total	832.9	863.6	917.9	927.5	917.9	943.0	889.6	912.0	935.3	963.8	988.6
Below 200	87.3	63.7	49.5	68.7	34.3	35.5	24.6	23.8	23.0	19.4	20.1
200 - 299	184.1	135.9	115.4	81.7	77.4	73.1	57.4	55.1	51.4	42.9	36.0
300 - 399	138.3	165.8	134.2	108.2	85.0	64.8	56.6	60.6	55.4	40.4	38.3
400 - 499	96.0	100.2	129.7	119.1	110.7	91.6	81.3	82.0	76.4	60.2	41.9
500 - 599	73.5	85.8	88.6	91.8	102.5	105.6	101.1	101.7	100.4	87.6	70.5
600 - 799	93.9	107.7	127.4	129.4	140.0	153.5	150.7	157.2	156.7	172.0	170.7
800 - 999	51.6	64.2	79.0	89.2	97.3	102.0	101.2	105.3	111.0	126.7	135.3
1,000 - 1,499	54.6	68.8	95.2	113.5	129.1	147.3	144.9	148.8	158.1	186.9	206.1
1,500 - 1,999	22.6	30.4	40.4	47.0	55.6	66.3	65.2	67.5	74.4	89.9	105.1
2,000 - 2,499	9.6	10.9	17.7	24.1	29.6	35.7	36.2	36.8	41.2	47.9	54.6
2,500 - 2,999	5.0	6.5	9.1	13.1	17.0	19.6	20.7	21.5	24.4	26.8	33.5
3,000 & Over	8.7	12.4	18.3	27.3	32.2	43.4	45.9	47.9	59.8	61.5	73.9
Not specified	7.7	11.3	13.4	14.4	7.2	4.6	3.8	3.8	3.1	1.6	2.6
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	10.5	7.4	5.4	7.5	3.7	3.8	2.7	2.6	2.5	2.0	2.0
200 - 299	22.1	15.7	12.6	8.8	8.4	7.7	6.5	6.0	5.5	4.5	3.6
300 - 399	16.6	19.2	14.6	11.7	9.3	6.9	6.4	6.6	5.9	4.2	3.9
400 - 499	11.5	11.6	14.1	12.8	12.1	9.7	9.1	9.0	8.2	6.2	4.2
500 - 599	8.8	9.9	9.6	9.9	11.2	11.2	11.4	11.2	10.7	9.1	7.1
600 - 799	11.3	12.5	13.9	13.9	15.2	16.3	16.9	17.2	16.7	17.8	17.3
800 - 999	6.2	7.4	8.6	9.6	10.6	10.8	11.4	11.6	11.9	13.1	13.7
1,000 - 1,499	6.5	8.0	10.4	12.2	14.1	15.6	16.3	16.3	16.9	19.4	20.9
1,500 - 1,999	2.7	3.5	4.4	5.1	6.1	7.0	7.3	7.4	8.0	9.3	10.6
2,000 - 2,499	1.2	1.3	1.9	2.6	3.2	3.8	4.1	4.0	4.4	5.0	5.5
2,500 - 2,999	0.6	0.8	1.0	1.4	1.8	2.1	2.3	2.4	2.6	2.8	3.4
3,000 & Over	1.1	1.4	2.0	2.9	3.5	4.6	5.2	5.3	6.4	6.4	7.5
Not specified	0.9	1.3	1.5	1.6	0.8	0.5	0.4	0.4	0.3	0.2	0.3

Source : Central Provident Fund Board

3.15 CENTRAL PROVIDENT FUND CONTRIBUTORS BY INDUSTRY, 1979-1989
(End of Period)

Industry	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
All Industries	Thousand										
	832.9	863.6	917.9	927.5	917.9	943.0	889.6	912.0	935.3	963.8	988.6
	Agriculture & Fishing	2.0	2.0	2.2	2.3	2.3	2.4	2.4	2.6	2.4	2.2
	Quarrying	1.0	1.2	1.6	1.6	1.7	0.9	0.7	0.7	0.6	0.4
	Manufacturing	280.7	284.2	292.2	274.6	261.0	283.0	251.4	271.1	287.5	301.5
	Utilities	8.8	8.2	7.9	7.8	7.7	7.7	7.8	7.7	7.3	6.9
	Construction	27.5	29.3	37.6	43.0	47.9	58.6	54.2	51.6	44.2	38.7
	Commerce	179.1	187.9	203.5	212.7	210.6	208.3	194.1	195.4	204.1	223.4
	Transport & Communications	92.2	95.2	98.6	98.0	95.1	93.3	90.3	90.0	91.9	103.1
	Financial & Business Services	77.4	84.3	95.1	102.1	107.0	111.6	108.9	109.0	111.8	128.1
	Other Services	162.5	165.8	170.3	175.3	174.3	176.7	179.8	183.9	185.5	184.2
	Activities Not Adequately Defined	1.7	5.5	8.9	10.1	10.3	0.5	-	-	-	0.1
All Industries	Per Cent										
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Agriculture & Fishing	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2
	Quarrying	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	-
	Manufacturing	33.7	32.9	31.8	29.6	28.4	30.0	28.3	29.7	30.7	30.5
	Utilities	1.1	1.0	0.9	0.8	0.8	0.8	0.9	0.8	0.8	0.7
	Construction	3.3	3.4	4.1	4.6	5.2	6.2	6.1	5.6	4.7	3.9
	Commerce	21.5	21.8	22.2	22.9	22.9	22.1	21.8	21.4	21.8	22.6
	Transport & Communications	11.1	11.0	10.7	10.6	10.4	9.9	10.1	9.9	9.8	10.4
	Financial & Business Services	9.3	9.8	10.4	11.0	11.7	11.8	12.2	12.0	12.2	13.0
	Other Services	19.5	19.2	18.5	18.9	19.0	18.8	20.2	20.2	19.8	18.7
	Activities Not Adequately Defined	0.2	0.6	1.0	1.1	1.1	-	-	-	-	-

Source : Central Provident Fund Board

3.16 CENTRAL PROVIDENT FUND MEMBERS BY AGE GROUP, 1979-1989
(End of Period)

Age Group (Years)	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	Thousand										
	1,435.6	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
	175.8	177.0	179.0	166.1	152.2	142.3	118.9	98.3	95.4	95.8	104.5
	322.5	333.5	357.2	367.5	368.6	369.9	355.0	337.6	316.4	290.2	266.5
	286.7	305.0	334.9	353.2	362.8	374.7	383.3	389.3	393.3	395.3	393.0
	197.2	227.3	252.1	271.4	290.6	310.4	327.0	345.7	359.2	370.0	380.1
	123.1	121.3	138.3	163.2	184.4	212.3	242.2	261.2	278.4	297.2	315.1
	105.2	112.2	123.8	128.0	131.8	132.3	130.2	144.5	169.1	190.6	217.9
	77.1	82.4	88.7	92.9	101.2	111.1	118.4	128.0	132.0	135.8	136.1
	60.6	64.0	68.3	71.4	74.2	78.0	84.0	88.8	92.2	99.8	109.3
	69.6	77.3	82.0	86.6	88.3	94.7	105.5	112.6	122.0	157.2	173.6
	17.8	18.7	25.4	25.0	24.8	26.8	27.2	27.8	30.5	31.5	30.8
	Per Cent										
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	12.2	11.6	10.8	9.7	8.6	7.7	6.2	5.1	4.8	4.7	4.9
	22.5	22.0	21.7	21.3	20.7	20.0	18.8	17.5	15.9	14.1	12.5
	20.0	20.1	20.3	20.5	20.4	20.2	20.3	20.1	19.8	19.2	18.5
	13.7	15.0	15.3	15.7	16.3	16.8	17.3	17.9	18.1	17.9	17.9
	8.6	8.0	8.4	9.5	10.4	11.5	12.8	13.5	14.0	14.4	14.8
	7.3	7.4	7.5	7.4	7.4	7.1	6.9	7.5	8.5	9.2	10.2
	5.4	5.4	5.4	5.4	5.7	6.0	6.3	6.6	6.7	6.6	6.4
	4.2	4.2	4.1	4.1	4.2	4.2	4.4	4.6	4.6	4.8	5.1
	4.9	5.1	5.0	5.0	5.9	5.1	5.6	5.8	6.1	7.6	8.2
	1.2	1.2	1.5	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5

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, 1987-1989

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

Source : National Productivity Board

3.18 QUALITY CONTROL CIRCLES, 1983-1989 (End of Period)

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

Source : National Productivity Board

3.19 TRADE UNIONS AND MEMBERSHIP, 1979-1989

Number

End of Year	Employee Class		Employer Class	
	Unions	Members	Unions	Members
1979	85	249,710	50	6,798
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

Source : Ministry of Labour

3.20 INDUSTRIAL STOPPAGES AND TRADE DISPUTES, 1979-1989

Year	Industrial Stoppages			Trade Disputes ¹
	Number	Workers Involved	Man-days Lost	Number
1979	-	-	-	577
1980	-	-	-	484
1981	-	-	-	392
1982	-	-	-	311
1983	-	-	-	353
1984	-	-	-	338
1985	-	-	-	340
1986	1	61	122	317
1987	-	-	-	275
1988	-	-	-	366
1989	-	-	-	-

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

Source : Ministry of Labour

CHART 3

LABOUR FORCE, 1979-1989
(Aged 15 Years and Over)

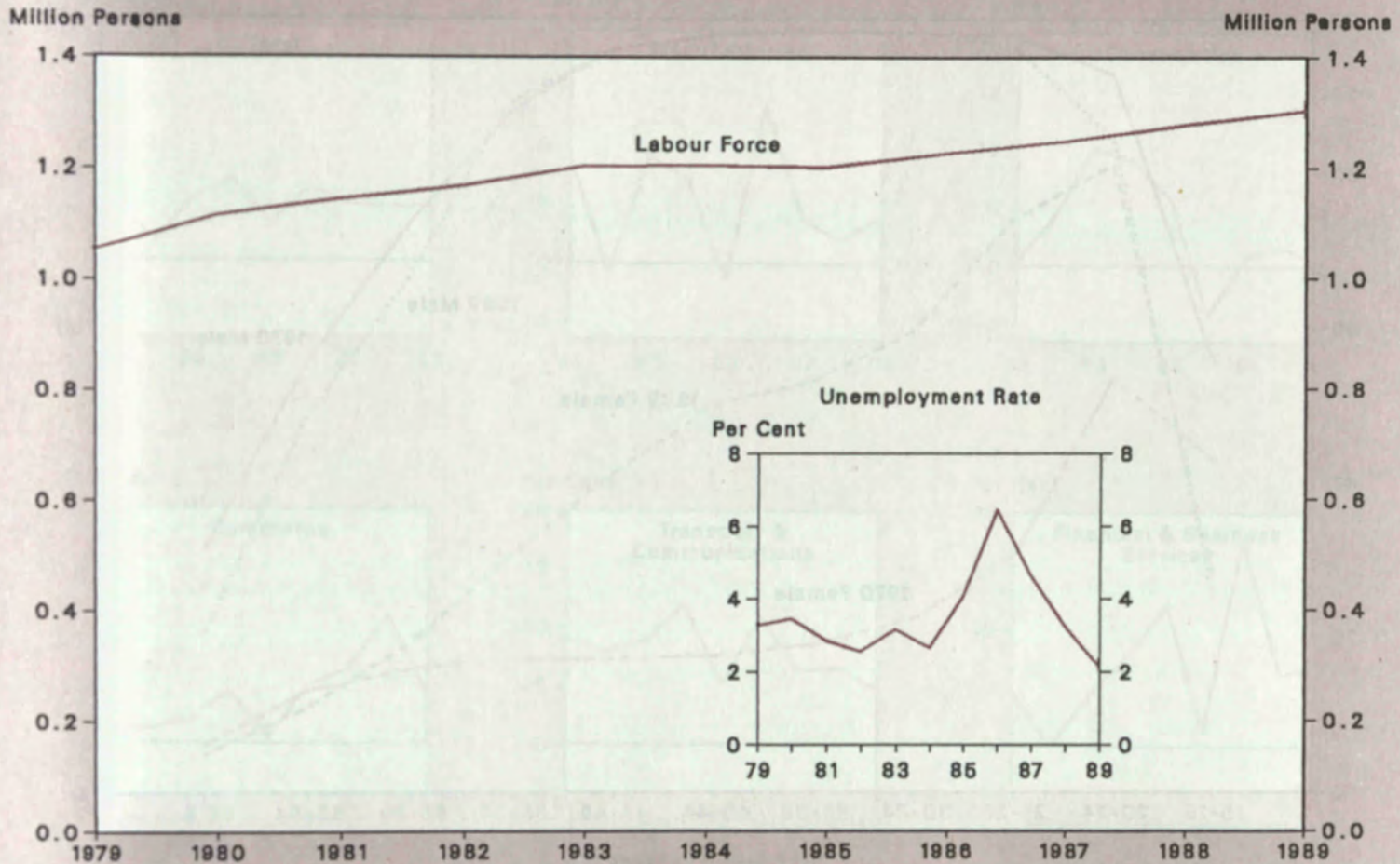


CHART 4

AGE-SEX SPECIFIC LABOUR FORCE PARTICIPATION RATES, 1970 & 1989

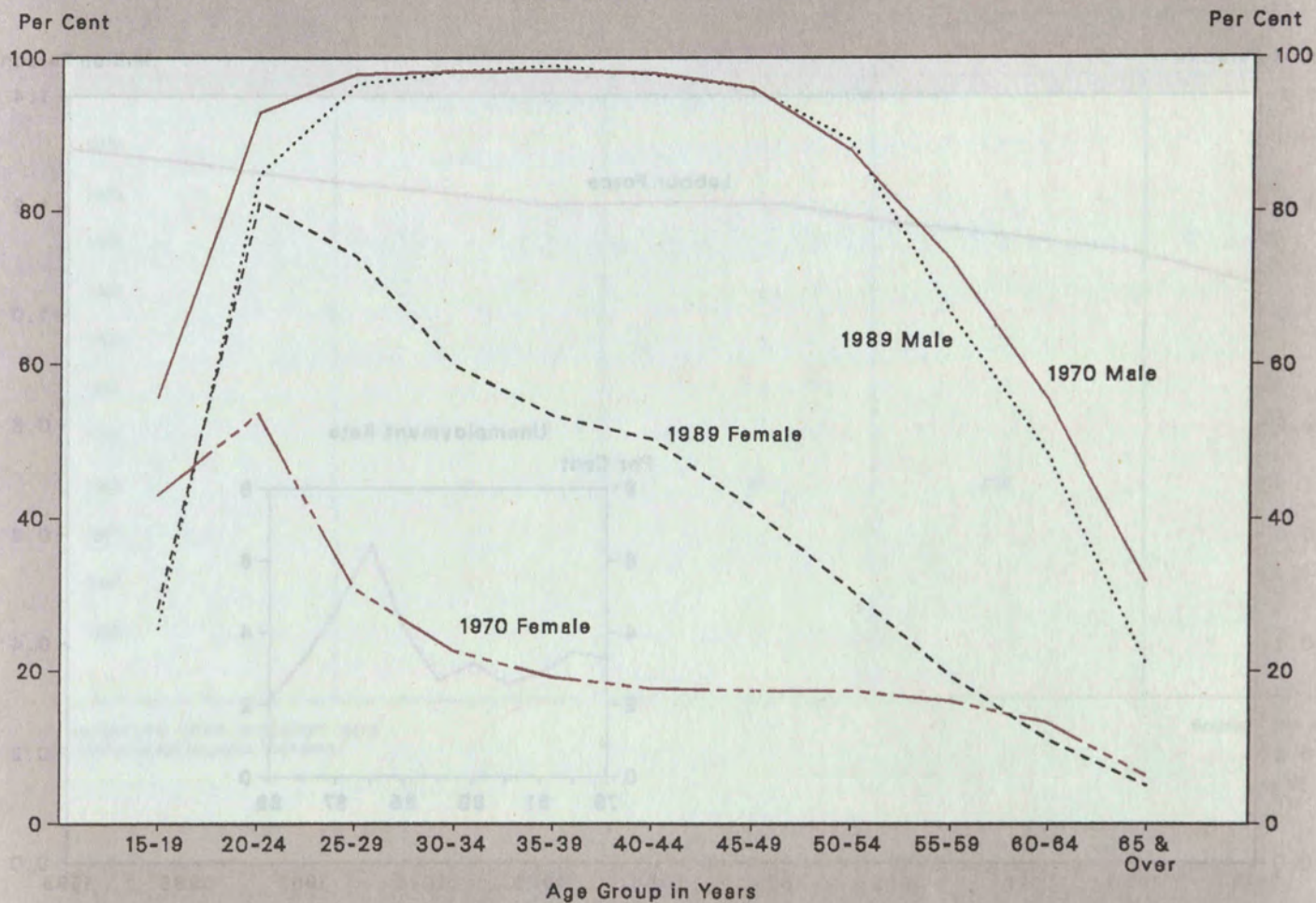
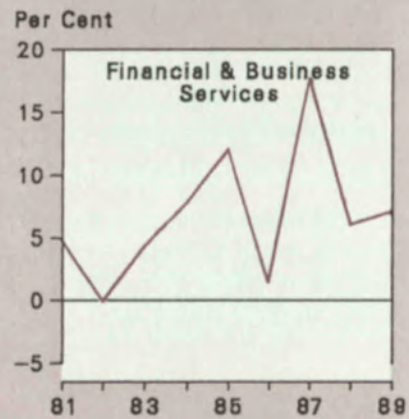
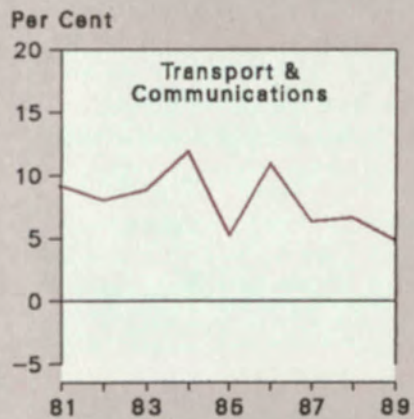
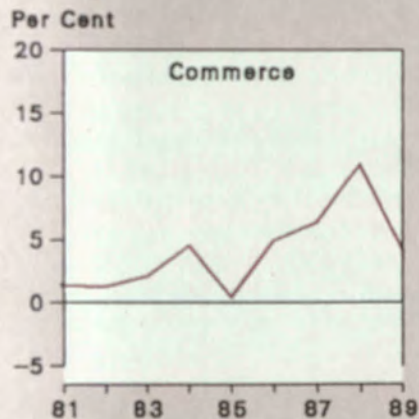
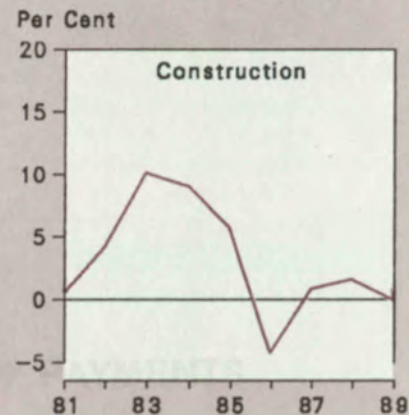
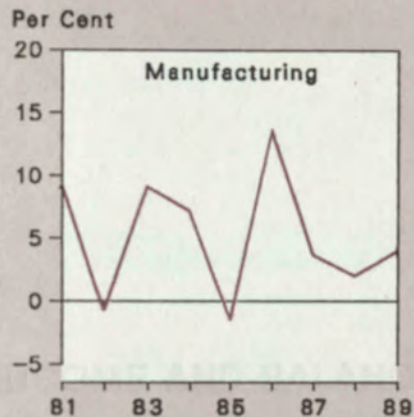
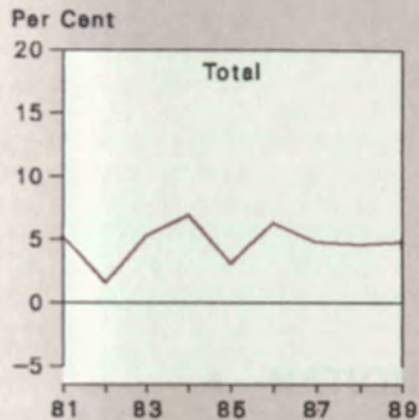


CHART 5

CHANGES IN PRODUCTIVITY BY INDUSTRY, 1981-1989



4 NATIONAL INCOME AND BALANCE OF PAYMENTS

4 NATIONAL INCOME AND BALANCE OF PAYMENTS

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 well as the consumption of fixed capital of establishments 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 new 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. The indigenous per capita GNP for the years 1973 and 1974 were evaluated and accepted by the International Monetary Fund (IMF) and used as the basis for classifying Singapore as a developing country.

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 geographical boundary or abroad.

Indigenous GNP : It refers to the aggregate value of output produced by 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 making institutions, government consumption expenditure, gross capital formation and net exports to the rest of the world.

GDP at Constant Prices : In order to compare the volume of output/expenditure over time, it is necessary to remove the effect of price changes. This is achieved by selecting 1985 as the base year for which the volume of goods and services in later years are priced. 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 equal to 100. The deflators are derived as the ratio of current price estimates of the year in question to the corresponding estimates of the base year.

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 net position as a foreign lender or borrower and changes in its official reserves holdings. Hence, it can be very useful for assessing the external performance of an economy and for formulating policies.

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. Every transaction is recorded twice, as a credit as well as a debit.

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, data obtained from regular survey of companies, 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.

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. An analysis on the balance of payments of Singapore may be found in the "Economic Survey of Singapore", published by the Ministry of Trade & Industry annually.

4.1 INDIGENOUS GROSS NATIONAL PRODUCT, 1979-1989
(At Current Market Prices)

Million Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
Total Gross Domestic Product	20,523	25,091	29,339	32,670	36,733	40,048	38,924	38,654	42,609	49,365	55,310
Share of Resident Foreigners & Resident Foreign Companies in GDP	6,220	7,537	8,161	8,457	8,771	9,575	8,807	8,989	11,367	14,086	16,952
Indigenous GDP	14,303	17,554	21,179	24,213	27,962	30,473	30,117	29,665	31,242	35,279	38,357
Factor Receipts of Singaporeans from Rest of the World	1,287	1,485	1,726	2,014	2,198	2,762	3,297	3,985	5,494	7,147	8,546
Indigenous GNP	15,590	19,039	22,904	26,227	30,160	33,235	33,414	33,650	36,736	42,426	46,903
Per Capita Indigenous GNP (S\$)	6,892	8,343	9,869	11,120	12,584	13,671	13,547	13,461	14,510	16,483	17,910

4.2 OUTPUT, SAVING AND INVESTMENT, 1979-1989
(At Current Market Prices)

Million Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
Gross National Product											
Gross National Product at Market Prices	20,444.1	24,188.5	28,191.2	31,775.7	36,561.1	40,815.1	40,330.4	39,602.5	43,191.6	50,359.3	56,347.4
Gross Domestic Product at Factor Cost	18,975.6	23,271.9	27,166.7	30,190.4	33,718.8	36,551.7	35,619.4	36,059.1	39,740.3	46,004.8	50,910.0
Indirect Taxes	1,547.4	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	4,400.1
Net Factor Income from Abroad	-78.9	-902.2	-1,148.2	-894.2	-171.7	767.2	1,406.9	949.0	582.3	994.0	1,037.3
Generation of Gross National Saving											
Gross National Saving	7,299.8	8,282.0	10,482.5	12,885.2	16,306.1	18,596.4	16,543.4	15,588.5	17,108.4	20,831.7	24,128.3
Gross Domestic Saving	7,454.8	9,411.8	11,953.5	14,218.2	16,932.0	18,304.3	15,605.5	15,037.9	17,018.3	20,395.1	23,721.9
Gross Domestic Product at Market Prices	20,523.0	25,090.7	29,339.4	32,669.9	36,732.8	40,047.9	38,923.5	38,653.5	42,609.3	49,365.3	55,310.1
Less : Private & Government Consumption Expenditure	13,278.8	15,358.7	17,117.9	18,852.9	20,197.4	21,902.5	23,101.4	23,462.0	25,576.4	28,777.4	31,681.9
Statistical Discrepancy	210.6	-320.2	-268.0	401.2	396.6	158.9	-216.6	-153.6	-14.6	-192.8	93.7
Net Factor Income from Abroad	-78.9	-902.2	-1,148.2	-894.2	-171.7	767.2	1,406.9	949.0	582.3	994.0	1,037.3
Net Transfers from Abroad	-76.1	-227.6	-322.8	-438.8	-454.2	-475.1	-469.0	-398.4	-492.2	-557.4	-630.9
Finance of Gross Capital Formation											
Gross Capital Formation	8,899.9	11,627.6	13,587.0	15,658.8	17,595.8	19,417.3	16,551.2	14,894.8	16,636.6	18,204.1	19,568.6
Gross National Saving	7,299.8	8,282.0	10,482.5	12,885.2	16,306.1	18,596.4	16,543.4	15,588.5	17,108.4	20,831.7	24,128.3
Net Borrowing from/Lending (-) to Abroad	1,600.1	3,345.6	3,104.5	2,773.6	1,289.7	820.9	7.8	-693.7	-471.8	-2,627.6	-4,559.7

4.3 GROSS DOMESTIC PRODUCT BY INDUSTRY, 1979-1989

Million Dollars

Industry	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
At Current Market Prices											
Total	20,523.0	25,090.7	29,339.4	32,669.9	36,732.8	40,047.9	38,923.5	38,653.5	42,609.3	49,365.3	55,310.1
Agriculture & Fishing	295.2	322.0	356.2	349.1	330.9	339.7	292.3	244.5	221.5	203.5	190.0
Quarrying	42.1	82.2	104.7	128.1	140.6	132.2	111.3	75.6	57.3	60.7	67.1
Manufacturing	5,702.5	7,312.7	8,361.5	8,153.5	8,907.9	9,863.4	9,184.3	10,185.5	12,090.6	14,903.9	16,424.1
Utilities	422.1	555.0	477.5	600.9	702.7	773.0	796.0	1,056.9	943.1	1,135.4	1,122.6
Construction	1,236.6	1,613.2	2,163.7	3,146.1	4,202.5	4,943.7	4,167.9	3,149.1	2,885.0	2,799.6	2,894.2
Commerce	4,844.8	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	9,728.2
Transport & Communications	2,852.5	3,522.2	4,063.0	4,435.8	4,891.9	5,222.3	5,234.5	5,279.6	5,920.8	6,618.8	7,449.4
Financial & Business Services	3,738.6	4,944.0	6,653.2	7,756.6	8,872.0	9,962.7	10,652.0	9,842.8	11,908.5	13,587.1	16,433.6
Other Services	2,058.1	2,288.4	2,670.3	3,340.7	3,812.7	4,238.7	4,577.3	4,509.9	4,691.3	5,211.4	5,775.5
Less : Imputed Bank Service Charge	1,039.2	1,410.9	1,778.6	2,109.9	2,306.8	2,827.4	3,196.5	2,600.3	3,922.1	4,576.6	5,453.9
Add : Import Duties	369.7	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	26,284.7	28,832.5	31,603.1	33,772.3	36,537.2	39,572.5	38,923.5	39,641.4	43,387.4	48,223.7	52,678.7
Agriculture & Fishing	321.2	325.1	319.4	303.4	311.0	326.5	292.3	260.8	234.0	205.4	192.1
Quarrying	60.0	65.0	83.5	104.0	122.0	120.2	111.3	94.3	93.4	88.1	89.3
Manufacturing	7,727.3	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	15,136.8
Utilities	536.5	578.0	620.4	650.2	707.8	762.1	796.0	839.9	926.6	1,012.1	1,085.9
Construction	1,852.8	2,055.8	2,418.4	3,299.0	4,266.7	4,927.2	4,167.9	3,234.2	2,916.8	2,787.4	2,823.6
Commerce	5,095.6	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
Transport & Communications	3,046.4	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
Financial & Business Services	5,022.2	5,919.9	6,873.2	7,583.6	8,400.0	9,441.0	10,652.0	10,535.0	12,678.9	13,961.3	16,006.0
Other Services	3,167.4	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	5,496.7
Less : Imputed Bank Service Charge	991.6	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	5,419.9
Add : Import Duties	446.9	496.0	483.1	528.5	510.0	511.5	468.1	393.6	398.0	511.2	584.4

4.4 QUARTERLY GROSS DOMESTIC PRODUCT BY INDUSTRY, 1984-1989
(At 1985 Market Prices)

Million Dollars

Period	Total	Agriculture & Fishing	Quarrying	Manufac- turing	Utilities	Construc- tion	Commerce	Transport & Communi- cations	Financial & Business Services	Other Services	Less Imputed Bank Service Charge	Add Import Duties
1984												
1st Qtr	9,469.7	76.6	27.9	2,273.6	177.5	1,183.0	1,610.0	1,222.5	2,286.8	1,109.3	636.5	139.0
2nd Qtr	9,813.2	81.7	29.5	2,551.8	192.7	1,243.3	1,591.6	1,302.7	2,288.8	1,076.5	661.8	116.4
3rd Qtr	10,054.8	80.4	31.8	2,546.1	195.6	1,265.6	1,702.4	1,296.8	2,389.5	1,094.3	677.6	129.9
4th Qtr	10,234.8	87.8	31.0	2,536.1	196.3	1,235.3	1,834.9	1,309.8	2,475.9	1,092.2	690.7	126.2
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	12,658.2	54.0	21.2	3,650.6	260.4	687.7	2,336.3	1,764.9	3,673.7	1,318.3	1,261.9	153.0
1989												
1st Qtr	12,296.6	50.9	21.0	3,274.0	253.0	689.7	2,098.2	1,785.2	3,854.9	1,391.1	1,293.3	171.9
2nd Qtr	13,068.3	44.6	21.4	3,894.6	270.9	666.8	2,269.4	1,828.1	3,884.0	1,352.8	1,288.9	124.6
3rd Qtr	13,532.8	46.9	23.2	3,979.9	279.4	731.3	2,422.4	1,886.3	4,049.3	1,366.7	1,380.7	128.1
4th Qtr	13,781.0	49.7	23.7	3,988.3	282.6	735.8	2,467.4	1,926.8	4,217.8	1,386.1	1,457.0	159.8

4.5 GROSS DOMESTIC PRODUCT DEFLATORS BY INDUSTRY, 1979-1989
(1985 = 100)

Industry	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
Total	78.1	87.0	92.8	96.7	100.5	101.2	100.0	97.5	98.2	102.4	105.0
Agriculture & Fishing	91.9	99.0	111.5	115.1	106.4	104.0	100.0	93.8	94.7	99.1	98.9
Quarrying	70.2	126.5	125.4	123.2	115.2	110.0	100.0	80.2	61.3	68.9	75.1
Manufacturing	73.8	86.0	90.0	90.9	96.7	99.6	100.0	102.3	103.6	108.2	108.5
Utilities	78.7	96.0	77.0	92.4	99.3	101.4	100.0	125.8	101.8	112.2	103.4
Construction	66.7	78.5	89.5	95.4	98.5	100.3	100.0	97.4	98.9	100.4	102.5
Commerce	95.1	99.7	101.5	104.9	104.6	102.2	100.0	98.7	100.3	103.2	105.1
Transport & Communications	93.6	102.1	104.3	101.9	104.6	101.8	100.0	93.3	96.5	97.5	100.3
Financial & Business Services	74.4	83.5	96.8	102.6	105.6	105.5	100.0	93.4	93.9	97.3	102.7
Other Services	65.0	68.7	75.9	87.0	92.0	96.9	100.0	93.9	92.7	99.6	105.1

Note : Refer to gross domestic product at market prices.

4.6 EXPENDITURE ON GROSS DOMESTIC PRODUCT, 1979-1989

Million Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
At Current Market Prices											
Total	20,523.0	25,090.7	29,339.4	32,669.9	36,732.8	40,047.9	38,923.5	38,653.5	42,609.3	49,365.3	55,310.1
Private Consumption Expenditure	11,245.2	12,911.3	14,329.3	15,282.5	16,202.1	17,569.5	17,552.9	18,191.8	20,249.4	23,397.5	25,780.8
Government Consumption Expenditure	2,033.6	2,447.4	2,788.6	3,570.4	3,995.3	4,333.0	5,548.5	5,270.2	5,327.0	5,379.9	5,901.1
Gross Fixed Capital Formation	7,519.6	10,203.1	12,784.7	15,505.7	17,464.2	19,122.2	16,424.8	14,310.2	15,164.9	17,311.6	20,604.9
Increase in Stocks	1,380.3	1,424.5	802.3	153.1	131.6	295.1	126.4	584.6	1,471.7	892.5	-1,036.3
Net Exports of Goods & Services	-1,445.1	-2,215.8	-1,633.5	-1,440.6	-663.8	-1,113.0	-945.7	143.1	381.7	2,191.0	4,153.3
Statistical Discrepancy	-210.6	320.2	268.0	-401.2	-396.6	-158.9	216.6	153.6	14.6	192.8	-93.7
At 1985 Market Prices											
Total	26,284.7	28,832.5	31,603.1	33,772.3	36,537.2	39,572.5	38,923.5	39,641.4	43,387.4	48,223.7	52,678.7
Private Consumption Expenditure	13,971.4	14,809.7	15,491.3	16,086.4	16,852.1	17,711.6	17,552.9	18,287.7	20,052.5	22,747.9	24,550.3
Government Consumption Expenditure	2,961.9	3,241.5	3,411.6	3,863.8	4,235.9	4,457.2	5,548.5	5,606.8	5,366.5	5,407.3	5,683.8
Gross Fixed Capital Formation	9,257.7	11,126.6	12,810.3	15,405.7	17,067.7	18,677.4	16,424.8	14,540.2	15,028.0	16,267.3	19,143.1
Increase in Stocks	1,596.7	1,516.1	730.7	144.0	242.2	273.0	126.4	637.4	1,478.0	547.7	-994.3
Net Exports of Goods & Services	-1,318.5	-1,495.2	-1,088.6	-2,044.9	-1,669.6	-1,431.4	-945.7	349.3	1,137.2	3,434.6	4,692.7
Statistical Discrepancy	-184.5	-366.2	247.8	317.3	-191.1	-115.3	216.6	220.0	25.2	-181.1	-396.9

4.7 DEFLATORS OF EXPENDITURE ON GROSS DOMESTIC PRODUCT, 1979-1989
(1985 = 100)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
Total	78.1	87.0	92.8	96.7	100.5	101.2	100.0	97.5	98.2	102.4	105.0
Private Consumption Expenditure	80.5	87.2	92.5	95.0	96.1	99.2	100.0	99.5	101.0	102.9	105.0
Government Consumption Expenditure	68.7	75.5	81.7	92.4	94.3	97.2	100.0	94.0	94.0	99.5	103.8
Gross Fixed Capital Formation	81.2	91.7	99.8	100.6	102.3	102.4	100.0	98.4	100.9	106.4	107.6
Exports of Goods & Services	99.5	109.4	113.2	112.9	107.5	101.5	100.0	86.4	93.1	93.3	94.8
Imports of Goods & Services	99.8	110.5	113.8	111.5	105.8	101.1	100.0	86.6	93.9	94.2	95.1

4.8 PRIVATE CONSUMPTION EXPENDITURE, 1979-1989

Million Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
At Current Market Prices											
Total	11,245.2	12,911.3	14,329.3	15,282.5	16,202.1	17,569.5	17,552.9	18,191.8	20,249.4	23,397.5	25,780.8
Food & Beverages	3,476.6	3,997.5	4,561.8	4,800.1	4,932.0	5,185.9	5,121.5	5,096.9	5,430.2	5,990.2	6,239.5
Clothing & Footwear	1,117.0	1,240.7	1,408.4	1,555.2	1,681.8	1,665.1	1,569.4	1,656.6	1,870.4	2,078.9	2,206.3
Rent & Utilities	1,219.7	1,390.4	1,493.1	1,623.4	1,745.3	1,976.6	2,184.9	2,299.3	2,430.4	2,619.7	2,784.5
Furniture & Household Equipment	1,114.5	1,322.9	1,525.8	1,602.1	1,719.3	1,943.2	2,015.3	2,051.6	2,157.1	2,539.9	2,694.5
Medical Services	350.9	411.7	445.3	502.8	567.4	643.1	702.2	898.1	962.8	1,107.0	1,219.2
Transport & Communications	1,820.4	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	4,316.3
Recreation & Education	1,647.7	1,802.7	2,153.8	2,229.1	2,421.0	2,543.0	2,453.5	2,817.4	3,258.9	3,979.9	4,344.1
Other Goods & Services	2,565.0	3,133.1	3,638.4	3,684.4	3,829.6	3,910.1	3,562.4	3,700.1	4,532.7	5,177.6	6,162.2
Add : Residents' Expenditure Abroad	475.2	585.7	651.2	843.3	973.4	1,049.5	1,103.5	1,145.8	1,362.3	1,521.3	1,722.6
Less : Non-residents' Expenditure Locally	2,541.8	3,171.7	3,894.0	4,118.1	4,410.8	4,163.7	3,838.5	4,083.3	4,752.4	5,313.2	5,908.4
At 1985 Market Prices											
Total	13,971.4	14,809.7	15,491.3	16,086.4	16,852.1	17,711.6	17,552.9	18,287.7	20,052.5	22,747.9	24,550.3
Food & Beverages	4,363.8	4,638.0	4,810.1	4,876.0	4,962.4	5,111.3	5,121.5	5,206.7	5,469.0	5,867.0	6,004.4
Clothing & Footwear	1,171.2	1,281.2	1,457.0	1,580.0	1,642.4	1,647.3	1,569.4	1,663.7	1,852.5	1,999.6	2,103.6
Rent & Utilities	1,528.3	1,576.4	1,630.9	1,694.2	1,794.9	1,984.8	2,184.9	2,372.1	2,559.4	2,741.7	2,863.4
Furniture & Household Equipment	1,291.6	1,451.9	1,609.4	1,641.4	1,747.1	1,953.3	2,015.3	2,011.9	2,099.0	2,428.5	2,543.6
Medical Services	524.6	550.9	570.0	620.1	633.1	654.6	702.2	902.1	967.5	1,092.3	1,165.0
Transport & Communications	2,404.4	2,618.4	2,752.8	2,861.2	2,995.0	2,967.3	2,678.7	2,698.7	2,985.4	3,530.6	3,979.2
Recreation & Education	1,612.7	1,735.3	2,047.0	2,168.9	2,480.4	2,534.9	2,453.5	2,761.5	3,155.8	3,832.1	4,116.8
Other Goods & Services	3,089.3	3,378.1	3,523.8	3,633.1	3,779.3	3,884.1	3,562.4	3,699.4	4,465.1	5,094.7	5,868.7
Add : Residents' Expenditure Abroad	638.6	699.0	729.6	896.0	992.2	1,049.7	1,103.5	1,161.0	1,366.1	1,496.7	1,663.7
Less : Non-residents' Expenditure Locally	2,653.1	3,119.5	3,639.3	3,884.5	4,174.7	4,075.7	3,838.5	4,189.4	4,867.3	5,335.3	5,758.1

4.9 GROSS FIXED CAPITAL FORMATION, 1979-1989

Million Dollars

											Million Dollars	
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*	
	At Current Market Prices											
	Total	7,519.6	10,203.1	12,784.7	15,505.7	17,464.2	19,122.2	16,424.8	14,310.2	15,164.9	17,311.6	20,604.9
	Construction & Works	2,943.2	4,309.5	6,107.1	8,280.1	10,876.6	11,954.6	10,007.4	7,908.9	6,986.3	6,660.5	7,313.1
	Residential Buildings	1,017.3	1,438.4	2,060.7	3,395.5	5,516.8	6,591.2	5,265.4	3,569.9	3,021.0	3,191.4	3,206.8
	Non-residential Buildings	1,405.3	2,069.7	3,149.4	3,912.4	4,336.7	4,200.5	3,284.8	2,133.7	1,772.6	2,043.5	2,828.4
	Other Construction & Works	520.6	801.4	897.0	972.2	1,023.1	1,162.9	1,457.2	2,205.3	2,192.7	1,425.6	1,277.9
	Transport Equipment	1,955.9	2,300.5	2,207.8	2,595.9	2,435.5	2,376.1	1,908.0	1,674.1	1,991.3	2,098.7	3,158.3
	Machinery & Equipment	2,620.5	3,593.1	4,469.8	4,629.7	4,152.1	4,791.5	4,509.4	4,727.2	6,187.3	8,552.4	10,133.5
	At 1985 Market Prices											
	Total	9,257.7	11,126.6	12,810.3	15,405.7	17,067.7	18,677.4	16,424.8	14,540.2	15,028.0	16,267.3	19,143.1
	Construction & Works	3,827.8	4,601.1	5,815.3	8,106.4	10,647.4	11,780.7	10,007.4	8,232.5	7,277.4	6,654.6	6,903.2
	Residential Buildings	1,416.6	1,573.1	1,960.8	3,403.2	5,551.4	6,549.5	5,265.4	3,722.8	3,135.4	3,178.7	3,018.2
	Non-residential Buildings	1,785.9	2,188.8	3,000.8	3,788.2	4,123.8	4,098.5	3,284.8	2,219.1	1,849.9	2,042.2	2,668.8
Other Construction & Works	625.3	839.2	853.7	915.0	972.2	1,132.7	1,457.2	2,290.6	2,292.1	1,433.7	1,216.2	
Transport Equipment	2,465.4	2,785.9	2,574.8	2,857.0	2,344.0	2,207.0	1,908.0	1,708.5	1,925.1	1,925.2	2,922.6	
Machinery & Equipment	2,964.5	3,739.6	4,420.2	4,442.3	4,076.3	4,689.7	4,509.4	4,599.2	5,825.5	7,687.5	9,317.3	

4.10 BALANCE OF PAYMENTS, 1979-1989

Million Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
A Current Account Balance	-1,600.1	-3,345.6	-3,104.5	-2,773.6	-1,289.7	-820.9	-7.8	693.7	471.8	2,627.6	4,559.7
Goods & Services (Net)	-1,524.0	-3,118.0	-2,781.7	-2,334.8	-835.5	-345.8	461.2	1,092.1	964.0	3,185.0	5,190.6
Merchandise Trade Balance	-6,632.0	-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
Exports fob	29,140.0	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
Imports fob	35,772.0	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
Services Balance	5,108.0	5,876.5	10,154.8	12,135.3	11,468.6	8,338.4	6,684.7	5,589.4	6,116.0	7,904.3	10,014.3
Exports of Services	11,413.0	15,071.2	20,503.1	23,436.9	22,398.2	19,590.9	18,034.3	18,375.3	22,314.9	27,511.9	32,107.2
Shipment	910.1	1,179.7	1,387.8	1,471.5	1,472.2	1,512.8	1,501.1	1,521.9	1,877.7	2,452.2	2,713.4
Travel	2,439.0	3,068.4	3,786.4	4,034.2	4,214.8	3,965.0	3,653.0	3,847.9	4,506.2	5,064.5	5,669.1
Investment Income	1,751.8	2,041.1	2,307.5	2,658.7	2,747.7	3,418.4	3,990.9	4,831.9	6,840.7	8,906.3	10,543.1
Official Transaction	108.0	174.1	206.2	223.0	214.0	232.4	217.8	211.1	206.6	210.7	202.2
Other Transportation & Services nle	6,204.1	8,607.9	12,815.2	15,049.5	13,749.5	10,462.3	8,671.5	7,962.5	8,883.7	10,878.2	12,979.4
Imports of Services	6,305.0	9,194.7	10,348.3	11,301.6	10,929.6	11,252.5	11,349.6	12,785.9	16,198.9	19,607.6	22,092.9
Shipment	1,831.1	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	5,659.3
Travel	590.9	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	2,121.5
Investment Income	1,847.0	2,960.0	3,473.8	3,570.2	2,937.4	2,670.3	2,602.4	3,715.9	6,072.7	7,702.3	9,283.3
Official Transaction	26.2	47.3	54.9	66.4	75.3	81.0	91.8	89.7	94.4	129.8	106.2
Other Transportation & Services nle	2,009.8	2,825.2	3,125.0	3,362.7	3,650.7	4,017.0	3,988.4	4,132.8	4,373.9	4,712.8	4,922.6
Unrequited Transfers (Net)	-76.1	-227.6	-322.8	-438.8	-454.2	-475.1	-469.0	-398.4	-492.2	-557.4	-630.9
Private	-67.3	-222.6	-305.5	-415.5	-436.9	-456.5	-451.2	-374.0	-357.8	-420.3	-495.7
Official	-8.8	-5.0	-17.3	-23.3	-17.3	-18.6	-17.8	-24.4	-134.4	-137.1	-135.2
B Capital Account Balance	2,169.7	3,388.3	4,578.5	4,940.6	5,204.4	3,369.9	1,536.9	-967.7	989.6	1,174.1	3,751.1
Non monetary Sector (Net)	2,570.0	3,096.7	3,583.6	4,224.7	2,378.4	1,769.7	2,554.8	2,820.8	2,799.8	3,169.4	6,369.7
Private	2,605.1	3,129.4	3,616.4	4,256.6	2,558.0	1,794.7	2,594.3	2,997.0	2,842.8	3,210.0	6,452.5
Official	-35.1	-32.7	-32.8	-31.9	-179.6	-25.0	-39.5	-176.2	-43.0	-40.6	-82.8
Monetary Sector (Net)	-400.3	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
Commercial Banks : Foreign Assets ¹	-2,118.2	-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
Foreign Liabilities	1,717.9	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
C Allocation of Special Drawing Rights	14.3	14.5	17.6	-	-	-	-	-	-	-	-
D Balancing Item	553.4	1,376.6	446.8	350.5	-1,677.0	701.6	1,412.6	1,482.6	867.1	-458.1	-2,976.6
E Overall Balance (A+B+C+D)	1,137.3	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
F Official Reserves (Net)¹	-1,137.3	-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
Special Drawing Rights	-34.4	-38.8	-32.9	-51.9	-23.4	3.6	-17.6	-31.4	-29.1	-8.2	-14.4
Reserve Position in the Fund	-23.5	-33.8	-46.9	-10.1	-1.8	-1.3	-26.0	-24.8	-11.7	12.2	12.8
Foreign Exchange Assets	-1,079.4	-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

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

CHART 6

GROSS NATIONAL PRODUCT (GNP) AND PER CAPITA GNP, 1979-1989

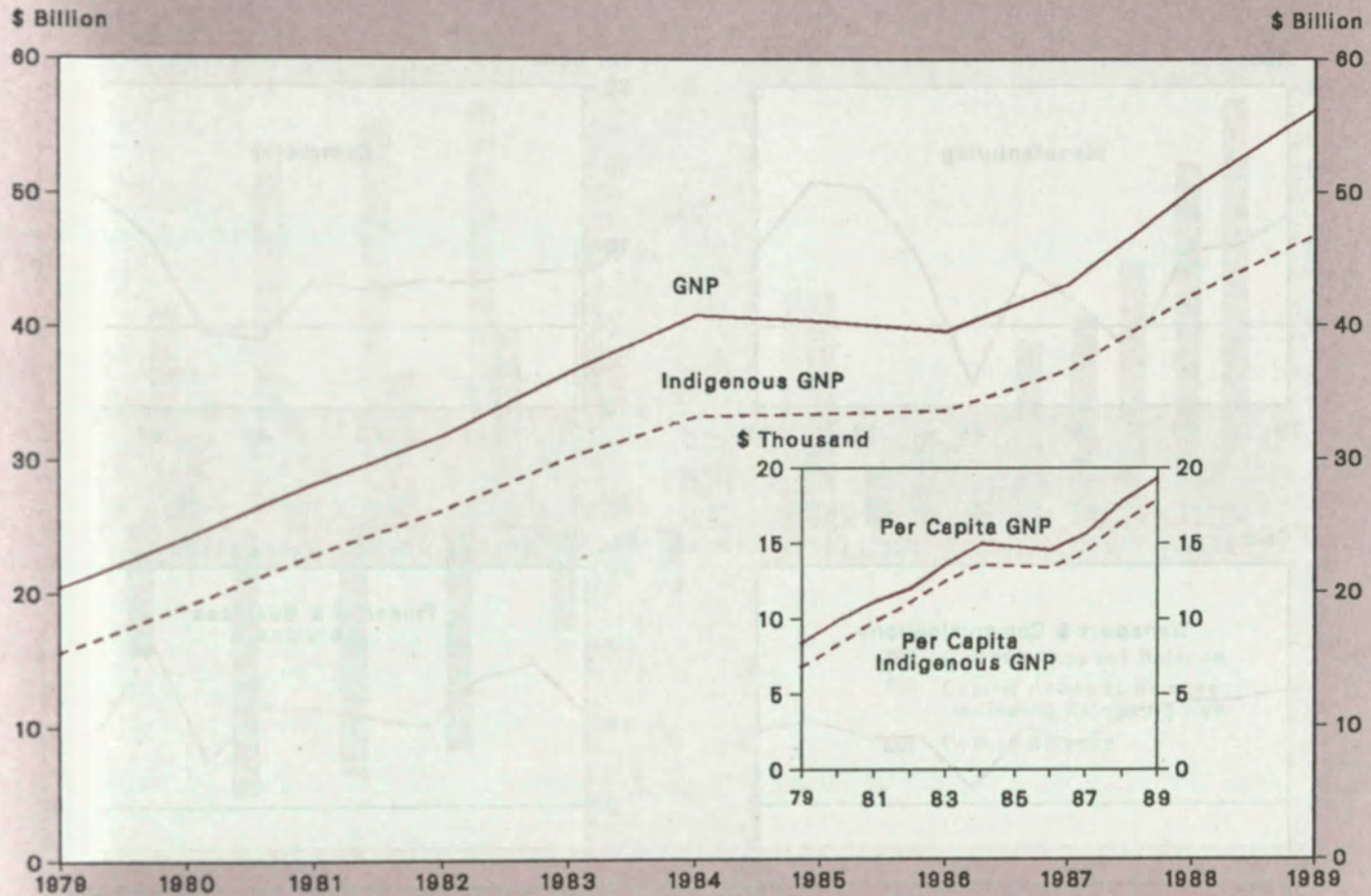


CHART 7

REAL ANNUAL GROWTH RATES OF MAJOR INDUSTRY, 1979-1989
(At 1985 Market Prices)

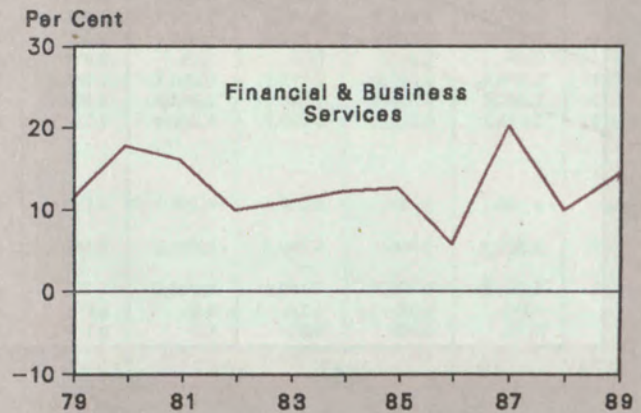
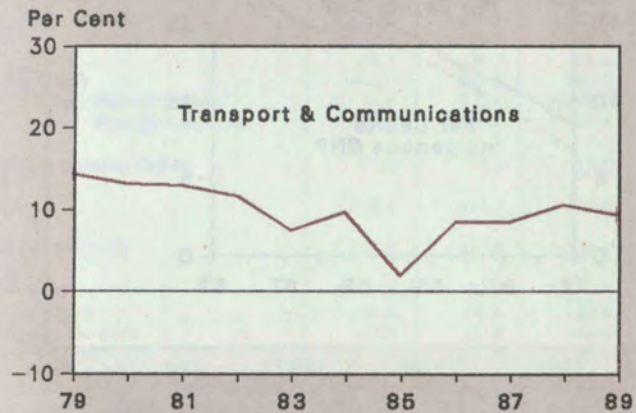
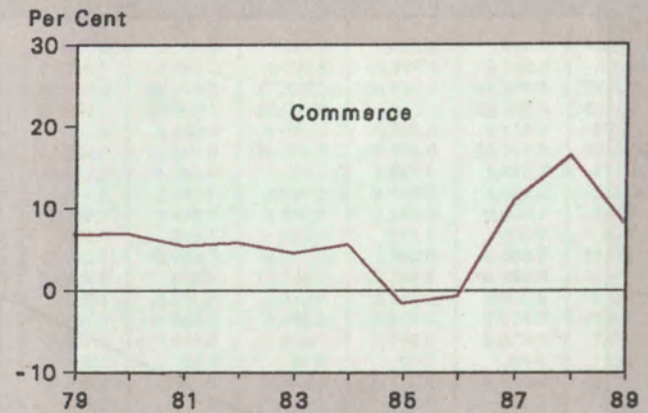
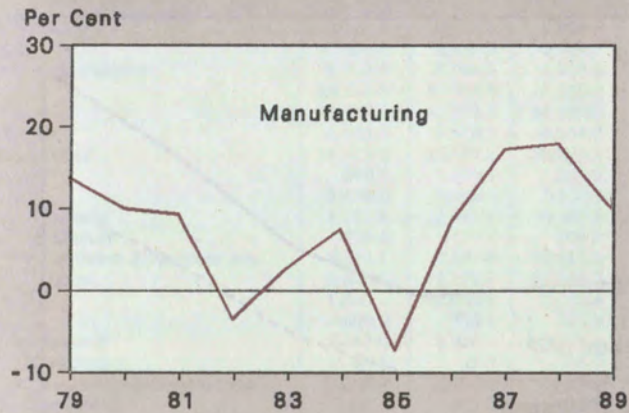
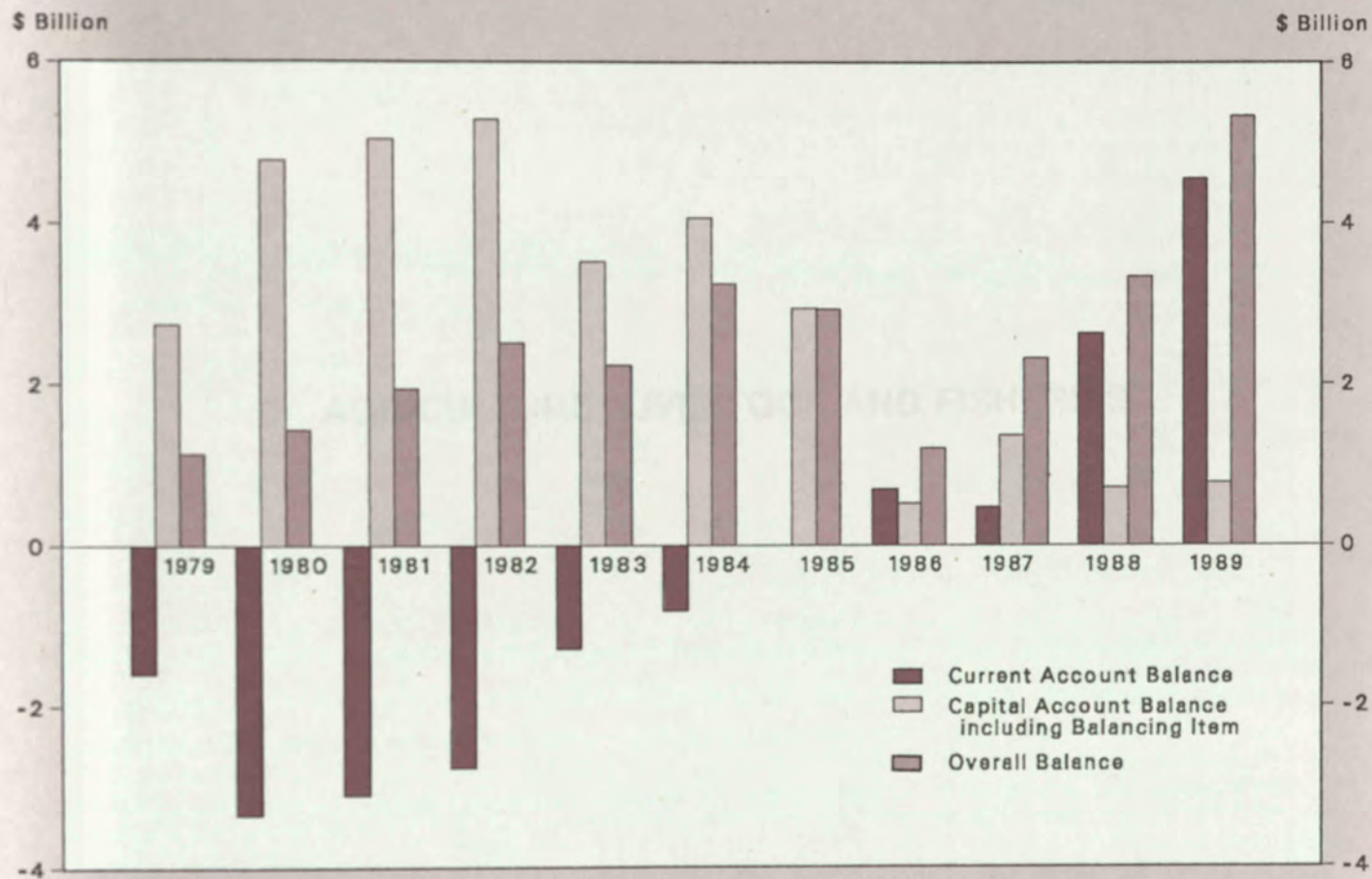


CHART 8

BALANCE OF PAYMENTS, 1979-1989



5 AGRICULTURE, LIVESTOCK AND FISHERIES

5 AGRICULTURE, LIVESTOCK AND FISHERIES

General

The agricultural sector of Singapore is engaged mainly in the production of poultry, eggs, pigs, 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 appropriate 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. Local farms produced an estimated 6,460 tonnes in 1989.

A number of farms and nurseries grow orchids and ornamental foliage plants for export and domestic sale. Singapore is world renowned for her exotic orchids, exporting

\$16.7 million worth of cut orchid flowers in 1989. Data on production of principal crops were obtained from farm-holders.

Livestock

Livestock farming accounted for about 5.6% of the total value of primary production. Domestic production meets about 35 per cent of pork, 16 per cent of poultry meat and 42 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. Pig farming, however, is being phased out because of environmental pollution. Eventually domestic demand for pork will be met entirely by imports of pigs and frozen pork.

Local farms and hatcheries export day-old chicks to countries in the region. In 1989, about \$1.3 million worth of day-old chicks were exported.

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.

Data on livestock slaughtered were obtained from the abattoirs.

Fisheries

In 1989, there were 340 fishing vessels, of which 326 were powered and 14 non-powered. A total of 10,567 tonnes of fish were landed by local fishing vessels which were mainly otter-trawlers based at Punggol and Jurong.

The Jurong Fishing Port with its Central Fish Market Complex plays an important role as a major fish landing point in Singapore. The complex handled 97,300 tonnes of fresh fish

in 1989. The Punggol Fishing Port and Wholesale Fish Market Complex handled 17,600 tonnes, landed mainly by local fishing vessels.

There are 79 licensed marine fish farms covering altogether 40 hectares of coastal waters, culturing high-value fish like groupers and seabass.

Singapore is a major exporter of aquarium fish. About \$64.1 million worth of aquarium fish and \$9.6 million worth of aquatic plants were exported in 1989.

Data on food fish production and auction were obtained from the Jurong and Punggol Fishing Ports.

5.1 PRODUCTION OF PRINCIPAL CROPS, 1979-1989

Year	Vegetables	Fruits	Sugar Cane	Tobacco	Coconuts
	Tonnes				Million Nuts
1979	37,800	9,260	1,800	478	6
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

Source : Primary Production Department

5.2 LIVESTOCK SLAUGHTERED, 1979-1989

Number

Year	Pigs	Sheep	Goats	Oxen	Buffaloes
1979	922,312	80,971	701	1,459	188
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	-

Source : Primary Production Department

5.3 FISH SUPPLY AND AUCTIONED, 1979-1989

Tonnes

Year	Fish Supply			Fish Auctioned
	Local Production	Imports	Exports	
1979	16,015	73,524	38,273	68,299
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	111,684
1988	13,152	155,588	107,074	103,135
1989	10,567	144,716	103,053	111,041

Note : Exclude dried, salted and fish in brine.

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

6 MANUFACTURING

6 MANUFACTURING

Census of Industrial Production

A census of manufacturing establishments employing ten or more workers is conducted annually by the Research and Statistics Unit, Economic Development Board. The results provide comprehensive data for the study of structure and trends of the manufacturing sector.

The activities covered in the census include manufacturing, industrial servicing and granite quarrying. They are classified according to the Singapore Standard Industrial Classification of All Economic Activities, 1986 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 1986 = 100, using the estimated 1986 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 have been granted approval under the Pioneer Industries Programme under the Economic Expansion Incentives Act. The principal statistics of these establishments were obtained from the Census of Industrial Production.

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

6.1 PRINCIPAL MANUFACTURING STATISTICS, 1979 -1989

Year	Establishments	Workers	Input	Output	Census Value Added	Employees' Remuneration	Capital Expenditure	Direct Exports
	Number		Million Dollars					
1979	3,156	271,917	19,314.2	26,331.0	6,523.9	2,108.0	1,429.8	16,904.0
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	3,656.4	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	325,219	36,764.2	56,886.4	17,986.3	5,068.2	3,551.0	38,159.5
1989*	3,680	338,841	41,052.4	63,231.5	19,811.5	5,788.9	na	42,426.6

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, 1979 -1989

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				
1979	23,992	96,835	24.8	32.3	8.0	64.1	64.2
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	55,305	174,917	31.6	28.2	8.9	67.3	67.1
1989*	58,468	186,611	31.3	29.2	9.2	67.3	67.1

Note : See note to Table 6.1.

Source : Economic Development Board
with effect from April 1987

6.3 MANUFACTURING ESTABLISHMENTS BY INDUSTRY, 1979 -1989

												Number
Industrial Code	Industry	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
311/2	Food	268	278	274	283	289	301	284	288	284	272	272
313	Beverage	14	16	17	16	16	14	14	15	15	15	15
314	Tobacco Products	8	8	6	6	6	4	4	4	4	4	4
321	Textiles & Textile Manufactures	93	99	94	95	87	80	62	65	63	67	67
322	Wearing Apparel except Footwear	365	374	374	406	391	387	370	371	373	370	374
323	Leather & Leather Products	42	42	40	43	37	38	28	26	25	21	21
324	Footwear	55	55	57	53	51	57	49	50	50	39	39
331	Sawn Timber & Other Wood Products except Furniture	133	131	132	119	110	104	109	100	90	89	91
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	107	117	117	125	127	142	145	155	148	154	153
341	Paper & Paper Products	94	93	95	92	88	86	81	78	79	83	84
342	Printing & Publishing	270	289	295	319	321	326	305	317	320	315	321
351	Industrial Chemicals & Gases	34	45	44	48	50	56	55	57	61	65	65
352	Paints, Pharmaceuticals & Other Chemical Products	85	89	86	84	85	90	90	88	87	87	87
353/4	Petroleum Refineries & Petroleum Products	10	10	11	11	11	12	12	11	11	11	11
355	Processing of Jelutong & Gum Damar	5	5	5	6	7	7	7	7	7	5	5
356	Rubber Products except Footwear & Toys	27	27	30	28	29	31	24	22	26	25	24
357	Plastic Products	184	195	209	214	215	224	221	210	229	273	280
361/2	Pottery, China, Earthenware & Glass Products	12	13	13	11	10	13	12	10	8	8	8
363	Structural Clay Products	9	9	9	11	11	11	10	9	8	8	8
364	Cement	5	5	5	5	5	5	6	6	6	5	5

6.3 MANUFACTURING ESTABLISHMENTS BY INDUSTRY, 1979 -1989 (continued)

Number

Industrial Code	Industry	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
365	Structural Cement & Concrete Products	28	34	38	40	49	52	52	51	45	36	36
369	Non-metallic Mineral Products	23	28	24	21	25	28	30	29	25	24	24
371	Iron & Steel	16	17	17	16	15	15	15	14	12	10	10
372	Non-ferrous Metals	10	12	11	16	18	20	18	17	17	19	19
381	Fabricated Metal Products except Machinery & Equipment	310	338	371	413	426	435	435	413	427	449	449
382	Machinery except Electrical & Electronic	274	295	319	314	341	349	349	354	369	381	384
383	Electrical Machinery, Apparatus, Appliances & Supplies	117	119	113	114	112	110	115	104	111	133	133
384	Electronic Products & Components	141	172	185	186	203	214	207	194	230	240	246
385	Transport Equipment	216	253	261	295	291	252	220	197	184	216	221
386	Instrumentation Equipment, Photographic & Optical Goods	47	55	52	48	46	46	41	40	46	46	48
390	Other Manufacturing Industries	120	132	135	148	144	139	134	147	154	154	157
	Total Manufacturing excluding Rubber Processing	3,122	3,355	3,439	3,586	3,616	3,648	3,504	3,449	3,514	3,624	3,661
	Rubber Processing	15	14	12	11	10	8	7	7	5	5	5
	Total Manufacturing including Rubber Processing	3,137	3,369	3,451	3,597	3,626	3,656	3,511	3,456	3,519	3,629	3,666
	Granite Quarrying	19	22	20	20	17	19	18	16	16	14	14
	TOTAL	3,156	3,391	3,471	3,617	3,643	3,675	3,529	3,472	3,535	3,643	3,680

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

Source : Economic Development Board with effect from April 1987

6.4 MANUFACTURING OUTPUT BY INDUSTRY, 1979 -1989

Million Dollars

Industrial Code	Industry	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
311/2	Food	1,452.7	1,661.5	1,692.5	1,805.6	1,936.0	2,241.1	2,311.7	2,203.7	1,879.5	2,108.4	2,293.2
313	Beverage	219.7	249.1	327.2	317.1	318.1	309.5	319.5	365.3	408.8	475.9	511.4
314	Tobacco Products	166.0	171.3	193.6	219.3	206.6	184.5	188.4	176.1	172.8	188.4	231.3
321	Textiles & Textile Manufactures	425.8	488.8	422.1	323.7	272.1	251.6	193.4	239.2	317.1	360.6	353.9
322	Wearing Apparel except Footwear	737.0	848.4	924.7	929.0	938.9	1,084.9	1,035.4	1,243.7	1,562.3	1,694.3	1,759.1
323	Leather & Leather Products	51.4	47.0	49.6	47.3	41.2	40.1	35.9	34.3	38.3	58.2	61.6
324	Footwear	51.5	53.6	54.9	45.3	44.2	46.9	34.1	37.9	42.2	45.1	41.0
331	Sawn Timber & Other Wood Products except Furniture	796.1	749.8	641.0	532.1	468.0	399.3	339.2	293.4	314.0	390.6	341.3
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	160.9	227.5	277.1	259.8	282.5	353.1	363.4	350.9	374.2	464.7	480.8
341	Paper & Paper Products	209.2	272.7	302.2	326.1	331.3	372.5	386.0	426.7	589.3	690.3	740.0
342	Printing & Publishing	431.2	550.4	674.3	726.6	833.4	937.7	920.3	970.7	1,126.3	1,350.6	1,540.7
351	Industrial Chemicals & Gases	255.2	346.1	363.7	383.8	382.9	1,071.5	1,506.1	1,506.1	2,154.0	3,259.3	3,183.6
352	Paints, Pharmaceuticals & Other Chemical Products	429.9	583.3	663.4	704.4	885.3	1,104.2	1,069.8	1,298.7	1,503.2	1,421.4	1,714.7
353/4	Petroleum Refineries & Petroleum Products	9,308.1	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	9,243.2
355	Processing of Jelutong & Gum Damar	22.8	25.9	28.2	25.9	25.2	21.2	20.6	19.2	18.9	19.1	24.4
356	Rubber Products except Footwear & Toys	89.9	89.7	76.3	74.4	76.7	83.5	70.1	71.8	95.6	120.0	128.2
357	Plastic Products	380.7	498.1	519.0	504.9	547.5	634.9	589.5	591.2	827.4	1,216.2	1,284.8
361/2	Pottery, China, Earthenware & Glass Products	60.9	68.0	90.3	81.1	94.3	80.7	29.5	15.6	10.7	13.6	13.4
363	Structural Clay Products	21.3	30.7	34.9	43.3	58.9	67.4	46.8	29.5	33.9	30.5	35.3
364	Cement	225.2	277.1	347.2	405.7	441.4	281.3	164.7	152.6	121.5	128.6	162.1

6.4 MANUFACTURING OUTPUT BY INDUSTRY, 1979 -1989 (continued)

Million Dollars

Industrial Code	Industry	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
365	Structural Cement & Concrete Products	95.5	156.5	263.9	379.1	600.9	657.2	585.8	487.4	372.6	341.1	400.6
369	Non-metallic Mineral Products	102.8	115.4	138.2	123.1	137.2	114.1	98.6	98.1	110.7	136.2	145.9
371	Iron & Steel	272.1	338.1	343.1	356.9	332.9	333.0	336.7	376.3	382.6	427.6	470.6
372	Non-ferrous Metals	135.4	190.4	130.5	156.0	153.6	212.0	236.4	261.2	166.5	205.4	216.9
381	Fabricated Metal Products except Machinery & Equipment	965.5	1,234.9	1,492.7	1,673.0	1,814.7	1,952.3	1,752.9	1,843.5	2,251.4	2,993.6	3,404.9
382	Machinery except Electrical & Electronic	1,183.5	1,662.7	2,484.2	2,322.1	2,050.4	1,943.2	1,805.4	1,683.2	2,044.5	2,489.5	2,836.5
383	Electrical Machinery, Apparatus, Appliances & Supplies	758.4	974.4	1,050.3	995.2	1,200.2	1,403.4	1,295.9	1,334.3	1,837.9	2,180.4	2,548.4
384	Electronic Products & Components	3,963.0	5,344.0	5,728.5	5,297.6	7,018.6	9,703.4	9,179.0	11,492.7	16,577.5	21,867.4	24,264.4
385	Transport Equipment ¹	1,548.0	2,043.5	2,223.8	2,075.5	1,865.8	1,956.7	1,790.0	1,794.2	2,093.1	2,710.1	3,128.0
386	Instrumentation Equipment, Photographic & Optical Goods	276.6	382.8	290.6	284.3	268.7	299.6	325.5	364.0	461.6	576.1	651.9
390	Other Manufacturing Industries	337.5	455.6	505.2	408.0	430.3	488.5	433.0	506.8	704.5	925.6	728.2
	Total Manufacturing excluding Rubber Processing	25,133.7	31,657.9	36,787.1	36,467.4	37,221.5	41,077.9	38,495.1	37,258.7	46,084.0	56,551.9	62,940.3
	Rubber Processing	1,170.2	1,052.5	772.6	494.2	428.7	402.4	160.0	126.8	155.8	243.7	190.8
	Total Manufacturing including Rubber Processing	26,303.9	32,710.4	37,559.7	36,961.6	37,650.2	41,480.2	38,655.1	37,385.5	46,239.8	56,795.6	63,131.1
	Granite Quarrying	27.1	95.3	134.3	179.5	238.1	223.8	162.7	117.4	97.9	90.8	100.4
	TOTAL	26,331.0	32,805.8	37,694.0	37,141.1	37,888.3	41,704.1	38,817.8	37,502.9	46,337.7	56,886.4	63,231.5

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, 1979 -1989

Million Dollars

Industrial Code	Industry	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
311/2	Food	235.2	261.6	355.6	326.0	353.9	380.0	396.3	408.1	454.1	524.4	556.9
313	Beverage	91.9	109.0	140.0	140.8	147.9	152.1	166.9	190.4	205.7	248.1	263.4
314	Tobacco Products	42.8	52.6	68.2	91.0	89.4	79.4	77.7	78.4	87.0	88.7	109.0
321	Textiles & Textile Manufactures	137.0	157.6	134.9	105.9	93.6	82.7	62.4	77.7	101.2	113.6	113.6
322	Wearing Apparel except Footwear	230.2	266.4	308.3	326.0	333.0	364.5	345.7	362.3	464.8	534.6	566.0
323	Leather & Leather Products	13.2	13.4	13.6	14.0	12.7	13.6	11.4	10.6	12.1	17.2	17.7
324	Footwear	16.8	19.2	19.0	17.0	18.1	19.2	12.1	12.0	13.0	12.3	11.1
331	Sawn Timber & Other Wood Products except Furniture	220.9	180.7	175.5	136.4	138.7	115.9	94.7	82.3	80.1	101.9	96.7
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	59.3	84.3	102.4	102.3	110.8	130.8	134.3	130.6	133.1	154.4	157.9
341	Paper & Paper Products	73.2	94.5	103.6	122.8	146.2	163.7	179.4	188.2	238.7	264.9	279.8
342	Printing & Publishing	217.1	277.9	341.8	380.0	459.3	530.7	518.2	536.3	606.2	703.5	798.2
351	Industrial Chemicals & Gases	85.8	109.4	119.3	140.4	142.2	256.6	304.2	503.8	833.9	1,376.5	1,362.1
352	Paints, Pharmaceuticals & Other Chemical Products	224.6	304.2	340.7	360.8	495.9	644.0	587.8	764.5	894.5	875.2	1,053.9
353/4	Petroleum Refineries & Petroleum Products	916.0	1,470.4	1,707.2	1,617.7	1,382.6	955.6	873.7	779.9	728.2	993.5	1,215.0
355	Processing of Jelutong & Gum Damar	2.7	2.9	3.7	3.1	3.8	3.8	3.6	3.7	3.6	3.5	4.5
356	Rubber Products except Footwear & Toys	38.1	39.2	34.2	35.6	36.1	40.3	34.8	37.0	45.2	54.2	57.4
357	Plastic Products	134.2	173.8	184.6	181.1	195.4	228.0	225.3	227.2	290.1	402.0	416.7
361/2	Pottery, China, Earthenware & Glass Products	27.3	24.6	36.8	27.5	33.9	35.0	10.9	6.1	5.8	6.4	6.5
363	Structural Clay Products	13.1	18.8	20.9	21.3	29.5	36.6	25.0	19.0	21.4	18.2	21.1
364	Cement	47.0	48.8	78.5	88.5	105.4	46.1	34.1	34.5	27.8	30.8	38.8

6.5 CENSUS VALUE ADDED OF MANUFACTURING ESTABLISHMENTS BY INDUSTRY, 1979 -1989 (continued)

Million Dollars

Industrial Code	Industry	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
365	Structural Cement & Concrete Products	31.2	53.7	78.1	118.2	192.1	235.0	213.6	150.7	110.4	93.8	109.7
369	Non-metallic Mineral Products	46.0	53.1	62.1	57.4	56.4	45.9	35.5	39.5	51.3	62.7	67.2
371	Iron & Steel	111.9	131.9	138.4	136.1	123.3	121.8	106.2	119.2	139.9	167.5	185.1
372	Non-ferrous Metals	19.0	21.8	25.3	25.4	33.0	44.0	38.0	40.0	41.0	53.9	57.1
381	Fabricated Metal Products except Machinery & Equipment	325.5	416.3	537.8	657.2	692.0	753.1	656.2	694.6	827.2	1,065.5	1,212.6
382	Machinery except Electrical & Electronic	526.7	744.8	1,140.9	1,012.4	870.2	888.9	813.8	754.3	760.1	966.9	1,116.3
383	Electrical Machinery, Apparatus, Appliances & Supplies	287.2	356.8	388.6	387.7	445.3	522.9	489.3	480.5	661.0	782.7	904.5
384	Electronic Products & Components	1,200.4	1,668.8	1,625.7	1,484.4	1,911.5	2,917.5	2,894.3	3,781.0	5,053.9	6,338.4	7,022.8
385	Transport Equipment ¹	802.4	1,060.2	1,181.3	1,006.0	929.1	1,009.5	1,033.7	1,007.7	1,107.0	1,319.5	1,375.7
386	Instrumentation Equipment, Photographic & Optical Goods	130.0	172.4	110.4	119.0	120.2	163.6	195.5	222.2	262.9	315.8	364.4
390	Other Manufacturing Industries	106.5	132.5	143.0	113.6	120.8	125.3	127.7	157.8	209.8	227.9	179.3
	Total Manufacturing excluding Rubber Processing	6,412.9	8,521.9	9,720.5	9,355.9	9,822.1	11,106.3	10,702.3	11,900.0	14,470.8	17,918.3	19,740.8
	Rubber Processing	87.7	51.5	37.0	27.5	33.5	16.2	7.3	8.0	9.9	14.1	11.0
	Total Manufacturing including Rubber Processing	6,500.6	8,573.4	9,757.5	9,383.4	9,855.6	11,122.4	10,709.6	11,908.0	14,480.7	17,932.4	19,751.8
	Granite Quarrying	23.3	79.4	109.4	122.3	156.9	146.4	103.2	70.3	58.8	53.9	59.6
	TOTAL	6,523.9	8,652.8	9,866.9	9,505.8	10,012.4	11,268.9	10,812.8	11,978.3	14,539.6	17,986.3	19,811.5

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, 1979 -1989

Number

Industrial Code	Industry	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
311/2	Food	10,181	10,053	10,075	10,208	10,309	10,281	9,686	9,622	10,181	10,400	10,475
313	Beverage	2,739	2,650	2,744	2,594	2,494	2,398	2,273	2,264	2,258	2,330	2,450
314	Tobacco Products	1,239	1,277	976	882	865	809	753	752	709	564	587
321	Textiles & Textile Manufactures	10,087	9,710	7,906	6,360	4,616	3,957	2,744	2,662	2,918	3,324	3,302
322	Wearing Apparel except Footwear	29,274	27,188	27,870	28,608	27,234	25,710	24,782	24,842	27,718	29,402	28,910
323	Leather & Leather Products	1,284	1,244	1,186	1,152	971	950	646	577	623	686	701
324	Footwear	1,633	1,524	1,428	1,408	1,248	1,225	865	922	921	832	790
331	Sawn Timber & Other Wood Products except Furniture	11,418	10,376	8,291	7,188	5,950	4,947	4,120	3,274	2,971	3,173	3,111
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	5,678	6,145	6,561	6,707	6,856	7,476	7,079	7,374	7,457	7,719	7,165
341	Paper & Paper Products	4,035	4,294	4,495	4,450	3,786	3,593	3,363	3,232	3,566	4,003	4,180
342	Printing & Publishing	11,514	12,101	12,487	13,452	13,808	14,213	13,217	13,145	13,122	14,299	15,610
351	Industrial Chemicals & Gases	1,906	2,138	2,058	2,265	2,278	3,216	3,144	3,054	3,172	3,716	3,874
352	Paints, Pharmaceuticals & Other Chemical Products	3,822	4,300	4,291	4,511	4,570	4,602	4,624	4,344	4,536	4,573	4,758
353/4	Petroleum Refineries & Petroleum Products	3,212	3,342	3,511	3,784	3,755	3,605	3,494	3,367	3,245	3,125	3,325
355	Processing of Jelutong & Gum Damar	148	145	157	160	173	145	126	143	139	90	89
356	Rubber Products except Footwear & Toys	1,828	1,941	1,359	1,287	1,283	1,307	1,055	1,015	1,171	1,419	1,501
357	Plastic Products	8,374	9,225	9,121	8,889	8,560	8,563	8,471	7,836	9,687	11,907	12,315
361/2	Pottery, China, Earthenware & Glass Products	893	955	1,133	1,054	993	1,010	347	233	144	163	146
363	Structural Clay Products	482	474	461	688	679	641	549	436	383	361	368
364	Cement	538	461	474	538	579	552	547	424	408	366	370

6.6 WORKERS IN MANUFACTURING BY INDUSTRY, 1979 -1989 (continued)

												Number
Industrial Code	Industry	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
365	Structural Cement & Concrete Products	1,298	1,458	1,730	2,135	3,697	4,559	4,367	4,367	2,777	2,206	2,127
369	Non-metallic Mineral Products	1,205	1,315	1,261	1,254	1,600	1,425	1,389	1,376	1,470	1,820	1,948
371	Iron & Steel	1,802	1,878	1,920	1,720	1,647	1,613	1,510	1,349	1,329	1,516	1,625
372	Non-ferrous Metals	489	459	449	656	643	726	686	661	609	670	708
381	Fabricated Metal Products except Machinery & Equipment	16,062	17,669	19,481	21,554	21,156	20,752	19,453	18,307	20,943	25,758	27,390
382	Machinery except Electrical & Electronic	18,910	20,274	23,963	23,802	22,433	21,406	19,693	17,730	19,045	20,800	23,139
383	Electrical Machinery, Apparatus, Appliances & Supplies	14,728	15,933	16,141	14,405	15,341	15,778	15,983	14,843	18,709	22,017	23,428
384	Electronic Products & Components	63,201	71,727	69,358	60,760	65,954	73,271	66,646	70,863	85,750	112,822	115,837
385	Transport Equipment	26,039	27,420	28,491	30,749	27,043	24,794	21,768	16,930	17,431	20,185	23,865
386	Instrumentation Equipment, Photographic & Optical Goods	9,256	10,456	5,419	5,767	5,197	5,359	5,071	5,197	6,159	7,375	7,417
390	Other Manufacturing Industries	6,059	7,118	6,878	6,463	5,388	5,508	5,059	5,541	6,758	7,076	6,812
	Total Manufacturing excluding Rubber Processing	269,334	285,250	281,675	275,450	271,106	274,391	253,510	246,682	276,309	324,697	338,323
	Rubber Processing	2,044	1,977	1,826	1,303	980	689	516	425	216	197	195
	Total Manufacturing including Rubber Processing	271,378	287,227	283,501	276,753	272,086	275,080	254,026	247,107	276,525	324,894	338,518
	Granite Quarrying	439	938	1,008	1,050	1,142	1,145	776	625	506	325	323
	TOTAL	271,917	288,165	284,509	277,803	273,228	276,225	254,802	247,732	277,031	325,219	338,841

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, 1979 -1989

Million Dollars

Industrial Code	Industry	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
311/2	Food	79.1	87.8	103.4	115.2	129.7	148.3	156.8	147.3	152.0	164.9	180.1
313	Beverage	29.9	34.6	40.0	35.3	36.5	40.6	44.1	40.7	39.6	45.6	51.8
314	Tobacco Products	13.2	15.3	15.6	17.3	19.2	21.1	20.8	18.8	17.9	18.9	21.5
321	Textiles & Textile Manufactures	63.0	71.7	68.8	60.5	49.9	47.1	34.6	32.7	39.0	45.1	48.8
322	Wearing Apparel except Footwear	136.3	150.7	179.3	203.4	216.1	236.9	227.3	222.9	255.6	289.2	316.7
323	Leather & Leather Products	6.8	7.4	8.0	8.5	8.2	8.7	6.9	6.0	6.4	8.6	9.6
324	Footwear	7.9	9.7	10.1	10.7	10.3	10.9	7.0	6.6	6.8	7.1	7.7
331	Sawn Timber & Other Wood Products except Furniture	81.8	80.1	77.4	69.0	64.8	56.4	48.2	37.5	36.9	41.6	45.2
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	34.0	44.4	54.8	58.3	63.7	73.5	74.3	74.9	76.9	90.6	91.5
341	Paper & Paper Products	27.0	34.7	44.2	51.4	51.5	52.0	53.2	52.7	63.4	72.9	82.3
342	Printing & Publishing	97.5	118.6	140.5	171.9	248.2	234.7	236.2	237.0	244.4	287.6	336.5
351	Industrial Chemicals & Gases	22.3	28.9	33.4	41.1	43.2	85.7	93.9	86.4	92.8	117.1	138.0
352	Paints, Pharmaceuticals & Other Chemical Products	43.2	53.4	62.4	76.4	90.5	99.4	107.4	102.0	107.0	111.1	130.0
353/4	Petroleum Refineries & Petroleum Products	87.1	99.7	114.7	138.6	148.0	151.4	154.6	148.8	148.4	154.2	178.6
355	Processing of Jelutong & Gum Damar	1.2	1.3	1.5	1.6	1.9	1.9	1.9	1.7	1.5	1.4	1.5
356	Rubber Products except Footwear & Toys	15.6	17.2	13.3	14.7	17.0	19.6	17.3	16.0	19.9	23.7	27.8
357	Plastic Products	48.5	63.9	71.8	79.9	86.5	98.5	103.0	99.9	119.0	156.9	181.8
361/2	Pottery, China, Earthenware & Glass Products	9.9	12.4	13.5	14.4	16.3	17.8	5.9	3.1	1.9	2.2	2.2
363	Structural Clay Products	4.7	5.2	6.0	9.7	11.2	11.7	9.3	6.5	5.6	5.3	5.7
364	Cement	6.5	7.0	8.9	10.5	12.3	12.4	12.2	9.2	8.4	8.5	9.4

6.7 REMUNERATION OF EMPLOYEES IN MANUFACTURING BY INDUSTRY, 1979 -1989 *(continued)*

Million Dollars

Industrial Code	Industry	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
365	Structural Cement & Concrete Products	11.1	15.6	21.8	30.4	57.2	72.6	74.9	69.3	40.5	34.1	34.3
369	Non-metallic Mineral Products	12.4	14.6	18.9	19.5	24.3	20.5	21.4	20.9	21.6	26.0	30.8
371	Iron & Steel	22.4	27.4	30.2	32.5	36.3	38.8	38.8	33.7	33.1	37.1	42.3
372	Non-ferrous Metals	5.9	7.9	7.4	10.1	10.7	12.9	12.2	13.3	11.0	14.3	16.8
381	Fabricated Metal Products except Machinery & Equipment	126.7	157.3	202.0	259.1	276.5	303.1	307.4	280.5	327.0	406.0	482.7
382	Machinery except Electrical & Electronic	186.5	228.7	323.8	346.5	365.3	393.5	399.3	327.4	344.3	405.9	478.9
383	Electrical Machinery, Apparatus, Appliances & Supplies	110.1	133.6	154.5	172.2	193.4	224.7	240.5	205.3	244.5	303.4	346.1
384	Electronic Products & Components	393.3	510.7	557.0	616.7	752.1	943.1	970.2	1,004.4	1,199.9	1,579.9	1,765.4
385	Transport Equipment	304.3	363.5	433.2	486.9	467.7	476.7	443.2	332.8	351.4	415.3	527.7
386	Instrumentation Equipment, Photographic & Optical Goods	59.9	76.0	47.3	53.9	59.9	68.7	68.9	66.7	83.7	99.4	102.5
390	Other Manufacturing Industries	37.7	47.6	54.3	54.6	55.1	61.7	62.2	64.0	75.6	82.4	82.4
	Total Manufacturing excluding Rubber Processing	2,085.9	2,526.9	2,938.1	3,270.6	3,623.7	4,045.0	4,053.7	3,769.1	4,176.0	5,056.4	5,776.6
	Rubber Processing	16.6	18.5	18.3	16.1	15.0	9.3	7.9	4.7	4.5	4.1	4.5
	Total Manufacturing including Rubber Processing	2,102.5	2,545.4	2,956.4	3,286.8	3,638.7	4,054.3	4,061.6	3,773.8	4,180.5	5,060.5	5,781.0
	Granite Quarrying	5.5	10.8	15.3	15.7	17.7	19.3	14.3	10.8	9.4	7.7	7.9
	TOTAL	2,108.0	2,556.2	2,971.7	3,302.5	3,656.4	4,073.6	4,075.9	3,784.6	4,189.9	5,068.2	5,788.9

Note : See note to Table 6.3.

Source : Economic Development Board
with effect from April 1987

6.8 QUANTITY OF OUTPUT OF SELECTED MANUFACTURED PRODUCTS, 1979 -1988

Commodity	Unit	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Animal Feed	Thousand Tonnes	306	334	255	238	210	223	167	112	117	127
Soft Drinks	Million Litres	170	175	185	180	197	155	152	188	231	234
Refined Cooking Oil	Tonnes	43,829	59,685	84,228	117,545	95,921	84,334	96,008	94,294	92,854	80,573
Sawn timber	Thousand Cubic Metres	371	282	188	136	114	99	70	76	67	90
Plywood	Million Square Metres	165	123	112	93	90	62	51	35	31	30
Newspapers	Million Copies	216	225	228	255	277	267	259	257	253	250
Paints	Kilolitres	20,258	22,310	26,698	26,502	29,907	36,564	35,381	35,053	44,881	50,824
Soap & Detergents	Tonnes	23,532	29,141	29,568	27,882	30,723	25,623	22,753	26,756	38,332	33,992
Aviation Kerosene ¹	Thousand Tonnes	5,033	3,709	4,003	4,099	4,290	4,929	3,878	4,451	5,063	5,661
Diesel Oil ¹	Thousand Tonnes	6,566	4,619	6,490	7,074	6,569	6,044	5,999	5,680	7,523	8,540
Fuel Oil ¹	Thousand Tonnes	10,340	6,457	7,560	8,259	8,155	9,294	8,025	8,423	7,925	8,435
Bricks	Thousand Pieces	91,191	92,122	93,327	129,862	176,960	184,861	162,895	100,756	103,859	107,674
Cement	Thousand Tonnes	1,808	1,952	2,253	2,695	3,153	2,511	1,897	1,875	1,550	1,684
Ready-mixed Concrete	Thousand Cubic Metres	660	758	1,376	2,116	2,955	3,565	3,463	3,438	3,168	3,025
Radios	Thousand	16,748	17,070	16,028	13,461	15,165	18,246	12,824	16,583	19,868	19,618
Television Receivers	Thousand Sets	1,390	1,889	2,231	1,502	1,312	1,375	1,691	1,686	2,047	3,032

¹ Prior to 1980 data include the output of products processed for third party overseas.

Source : Economic Development Board
with effect from April 1987

6.9 VALUE OF OUTPUT OF SELECTED MANUFACTURED PRODUCTS, 1979 -1988

Million Dollars

Commodity	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Animal Feed	160.6	201.8	167.6	148.6	128.3	134.0	94.7	58.7	50.3	85.3
Soft Drinks	120.1	126.4	172.2	164.8	171.1	157.5	159.2	201.5	236.9	255.6
Refined Cooking Oil	80.4	120.4	175.5	161.0	139.9	189.2	184.5	156.2	153.6	140.7
Fabrics	190.7	195.9	200.1	156.8	107.9	108.6	88.4	123.8	111.2	142.8
Sawn timber	125.3	103.1	59.8	40.1	36.5	33.2	26.9	23.6	22.2	25.3
Plywood	466.6	411.9	361.6	270.5	266.8	205.1	168.6	125.4	117.9	110.9
Newspapers	39.0	45.8	55.7	68.1	67.5	68.9	68.9	76.9	79.0	82.1
Paints	72.5	87.8	119.4	117.2	119.1	137.8	135.1	136.9	165.4	207.4
Pharmaceutical Products	179.5	258.4	269.6	283.1	370.0	504.3	475.7	691.1	811.2	871.8
Soap & Detergents	37.9	62.2	66.4	56.4	60.4	53.6	50.0	48.7	63.7	68.5
Aviation Kerosene ¹	2,100.1	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
Diesel Oil ¹	2,518.6	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
Fuel Oil ¹	2,621.9	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
Bricks	19.5	28.5	32.5	40.5	55.9	66.0	46.0	29.0	33.5	30.3
Cement	225.2	277.1	347.2	405.7	441.4	280.0	164.4	151.8	120.8	127.5
Ready-mixed Concrete	58.7	87.9	186.1	281.3	361.3	359.9	305.2	257.9	215.5	195.5
Oil Rigs & Oilfield Equipment	556.5	806.7	1,437.5	1,341.1	938.3	706.9	609.1	490.5	467.2	480.2
Electronic Products excluding Television Receivers & Radios	2,858.4	3,873.8	4,104.1	3,982.8	5,671.9	8,144.5	7,680.8	10,008.4	14,496.5	18,940.7
Radios	651.6	882.6	877.4	732.4	776.6	991.7	837.6	905.9	1,423.8	1,750.2
Television Receivers	399.5	512.7	667.8	495.7	470.3	469.1	566.0	578.4	860.4	1,172.0
Shipbuilding & Repairing	1,105.6	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
Marine Engines & Parts	84.5	109.6	137.2	151.4	110.5	106.1	89.0	99.0	100.9	158.3
Photographic Equipment & Optical Goods	107.9	125.3	52.7	56.2	59.9	68.7	75.2	75.6	87.1	113.7

¹ See note to Table 6.8.

Source : Economic Development Board
with effect from April 1987

6.10 QUARTERLY INDEX OF INDUSTRIAL PRODUCTION, 1988 AND 1989
(1986 = 100)

Industrial Code	Major Industry Group	1988				1989			
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr*
	Total Manufacturing excluding Rubber Processing	123.9	139.1	144.8	148.0	138.2	153.0	158.3	161.7
311/2	Food	106.7	112.2	107.8	115.5	115.5	110.2	110.5	119.1
313	Beverage	129.3	138.0	142.9	124.6	138.2	142.5	118.9	116.3
314	Cigarettes & Other Tobacco Products	113.1	152.1	143.3	203.3	192.6	204.0	221.1	276.6
321	Textiles & Textile Manufactures	104.8	123.8	136.8	125.9	107.4	135.5	137.7	131.9
322	Wearing Apparel except Footwear	112.5	123.2	123.2	141.8	103.6	128.0	137.9	141.4
323	Leather & Leather Products	90.6	89.7	122.9	116.4	85.4	93.9	94.7	81.6
324	Footwear	152.2	127.7	147.1	139.6	116.3	118.6	129.7	149.3
331	Sawn Timber & Other Wood Products except Furniture	93.1	122.2	96.7	115.7	77.1	91.0	113.5	116.3
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	99.8	98.6	101.8	112.0	101.0	102.1	96.8	100.6
341	Paper & Paper Products	135.4	151.1	152.0	146.4	143.7	158.6	153.1	141.4
342	Printing & Publishing	104.4	112.2	130.4	137.1	119.1	129.7	144.2	144.0
351	Industrial Chemicals & Gases	122.4	130.5	131.6	123.5	105.5	140.9	145.5	146.0
352	Paints & Pharmaceutical & Other Chemical Products	88.6	127.4	102.3	99.5	106.0	128.4	123.8	132.0
353/4	Petroleum Refineries & Petroleum Products	85.3	97.7	103.3	102.9	106.9	108.1	100.4	127.4
356	Rubber Products except Footwear & Toys	100.8	101.2	100.2	102.7	104.3	106.6	95.7	98.1
357	Plastic Products	132.0	138.4	151.0	147.7	133.5	142.2	147.5	147.0
361/2	Pottery, China, Earthenware & Glass Products	99.0	126.3	117.5	123.3	81.3	124.3	129.2	102.8

6.10 QUARTERLY INDEX OF INDUSTRIAL PRODUCTION, 1988 AND 1989 (continued)
(1986 = 100)

Industrial Code	Major Industry Group	1988				1989			
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr*
363	Bricks, Tiles & Other Structural Clay Products	113.3	121.8	104.1	116.0	103.0	124.4	141.4	136.7
364	Cement	76.6	83.9	93.6	99.7	91.3	86.3	95.8	103.8
365	Structural Cement & Concrete Products	65.2	69.4	70.7	78.8	65.8	68.6	81.9	83.0
369	Non-metallic Mineral Products	164.6	143.7	138.0	165.5	199.9	263.9	221.5	258.0
371	Iron & Steel	102.0	105.3	117.9	116.3	97.4	108.7	119.8	128.2
372	Non-ferrous Metals	119.0	109.7	110.1	99.8	98.8	98.2	102.0	110.0
381	Fabricated Metal Products except Machinery & Equipment	120.1	134.8	140.1	143.0	130.2	139.7	146.3	143.6
382	Machinery except Electrical & Electronic	124.2	126.3	149.4	160.8	148.9	180.0	176.7	150.2
383	Electrical Machinery, Apparatus, Appliances & Supplies	135.6	156.1	163.8	175.7	159.5	178.9	187.5	192.9
384	Electronic Products & Components	150.2	171.5	174.1	178.5	168.0	181.2	191.3	201.5
385	Transport Equipment	110.9	121.2	144.1	145.1	139.9	164.9	164.8	163.1
386	Instrumentation Equipment, Photographic & Optical Goods	138.2	142.3	148.1	145.3	130.7	143.8	159.4	144.0
390	Other Manufacturing Industries	170.3	186.4	205.2	135.8	103.7	111.6	173.5	106.1

Source: Economic Development Board

6.11 ANNUAL INDEX OF INDUSTRIAL PRODUCTION, 1984 -1989
(1986 = 100)

Industrial Code	Major Industry Group	1984	1985	1986	1987	1988	1989*
	Total Manufacturing excluding Rubber Processing	99.4	92.1	100.0	117.4	139.0	152.8
311/2	Food	91.6	91.2	100.0	101.4	110.5	113.8
313	Beverage	92.7	95.1	100.0	119.5	133.7	129.0
314	Cigarettes & Other Tobacco Products	105.9	128.5	100.0	85.0	153.0	223.6
321	Textiles & Textile Manufactures	139.4	99.5	100.0	114.6	122.8	128.1
322	Wearing Apparel except Footwear	91.5	87.0	100.0	117.8	125.2	127.7
323	Leather & Leather Products	138.7	98.2	100.0	112.5	104.9	88.9
324	Footwear	142.5	91.2	100.0	118.6	141.7	128.5
331	Sawn Timber & Other Wood Products except Furniture	163.9	131.1	100.0	107.0	106.9	99.5
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	98.5	90.9	100.0	97.0	103.0	100.1
341	Paper & Paper Products	99.8	90.3	100.0	133.0	146.2	149.2
342	Printing & Publishing	94.1	95.5	100.0	109.4	121.0	134.2
351	Industrial Chemicals & Gases	72.6	98.2	100.0	118.8	127.0	134.5
352	Paints & Pharmaceutical & Other Chemical Products	84.4	95.0	100.0	101.0	104.5	122.6
353/4	Petroleum Refineries & Petroleum Products	101.9	91.9	100.0	92.9	97.3	110.7
356	Rubber Products except Footwear & Toys	116.2	111.2	100.0	104.7	101.2	101.2
357	Plastic Products	135.4	111.0	100.0	123.9	142.3	142.6
361/2	Pottery, China, Earthenware & Glass Products	549.5	167.1	100.0	106.7	116.5	109.4

6.11 ANNUAL INDEX OF INDUSTRIAL PRODUCTION, 1984 -1989 *(continued)*
(1986 = 100)

Industrial Code	Major Industry Group	1984	1985	1986	1987	1988	1989*
363	Bricks, Tiles & Other Structural Clay Products	198.0	142.7	100.0	113.4	113.8	126.4
364	Cement	156.6	113.5	100.0	84.7	88.5	94.3
365	Structural Cement & Concrete Products	110.0	103.0	100.0	77.4	71.0	74.9
369	Non-metallic Mineral Products	134.8	104.5	100.0	141.7	152.9	235.8
371	Iron & Steel	99.3	98.6	100.0	104.1	110.4	113.5
372	Non-ferrous Metals	123.7	111.7	100.0	108.1	109.7	102.3
381	Fabricated Metal Products except Machinery & Equipment	96.8	90.7	100.0	114.3	134.5	140.0
382	Machinery except Electrical & Electronic	136.1	114.9	100.0	116.5	140.2	163.9
383	Electrical Machinery, Apparatus, Appliances & Supplies	104.7	91.1	100.0	132.1	157.8	179.7
384	Electronic Products & Components	83.1	78.4	100.0	131.6	168.6	185.5
385	Transport Equipment	109.4	90.9	100.0	108.0	130.4	158.2
386	Instrumentation Equipment, Photographic & Optical Goods	93.1	96.6	100.0	116.3	143.5	144.5
390	Other Manufacturing Industries	91.6	83.8	100.0	163.7	174.4	123.7

Source : Economic Development Board
with effect from April 1987

6.12 NET INVESTMENT COMMITMENTS IN MANUFACTURING BY INDUSTRY, 1979 -1989

Million Dollars

Industry	1979	1980	1981	1982	1983 ¹	1984	1985	1986	1987	1988	1989
Food & Beverages	40.8	99.4	90.7	101.5	185.9	154.4	55.5	83.3	156.6	168.4	34.1
Textiles	14.2	32.6	18.1	8.9	7.3	0.3	3.2	5.6	3.0	10.6	2.0
Wearing Apparel	1.4	8.0	8.3	10.4	2.8	6.7	0.7	-	6.8	0.9	0.4
Leather & Rubber	1.5	15.8	3.6	5.3	22.9	8.1	4.9	0.4	8.5	5.6	-
Wood Products	33.2	30.8	16.8	8.8	8.0	15.8	21.3	11.4	14.7	-	2.1
Paper Products & Printing	8.0	27.2	161.8	109.2	22.1	111.3	32.3	36.2	25.1	72.0	93.8
Industrial Chemicals	5.4	76.8	63.8	16.9	52.1	8.1	34.5	78.0	32.9	124.7	213.5
Plastic Products	34.0	66.8	41.9	47.5	27.7	33.4	19.4	42.6	115.9	53.5	37.8
Other Chemical Products	31.0	101.1	95.7	47.4	106.2	30.7	18.2	111.5	11.0	25.7	21.7
Petroleum	224.5	200.0	162.0	387.7	367.1	358.8	190.0	116.0	122.4	-	290.0
Non-metallic Mineral Products	7.1	65.7	55.6	40.5	136.0	24.6	88.4	9.3	6.2	133.8	-
Basic Metals	-	-	16.3	53.5	36.8	18.1	2.9	8.3	5.2	15.3	86.6
Fabricated Metal Products	56.2	75.6	96.1	121.0	167.4	71.5	39.5	82.0	104.3	109.9	101.0
Machinery except Electrical	151.9	121.3	300.9	162.2	84.5	225.9	125.0	205.6	93.5	180.5	131.0
Electrical Machinery & Appliances	253.9	392.2	406.8	321.8	351.6	655.8	376.1	522.0	838.4	935.6	776.9
Transport Equipment	18.5	58.4	273.3	162.5	92.7	72.5	88.3	64.0	61.7	110.4	50.8
Precision Equipment	31.5	29.0	24.3	66.6	65.8	17.0	2.0	53.8	116.6	44.0	93.0
Other Products	30.5	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
TOTAL	943.6	1,413.5	1,863.0	1,705.0	1,775.8	1,828.4	1,120.4	1,450.0	1,743.0	2,007.4	1,958.7
Foreign	823.4	1,189.1	1,221.4	1,163.0	1,269.8	1,334.7	888.0	1,190.6	1,448.0	1,657.8	1,625.4
Local	120.2	224.4	641.6	542.0	506.0	493.7	232.4	259.4	295.0	349.6	333.3

Note : Net investment commitments refer to gross commitments less projects withdrawn or uncertain as at 31 December 1989.

Source : Economic Development Board

1 Exclude Petrochemicals.

6.13 NET INVESTMENT COMMITMENTS IN MANUFACTURING BY COUNTRY OF ORIGIN, 1979 -1989

Million Dollars

Country	1979	1980	1981	1982	1983 ¹	1984	1985	1986	1987	1988	1989
TOTAL	943.6	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
Local	120.2	224.4	641.6	542.0	506.0	493.7	232.4	259.4	295.0	349.6	333.3
Foreign	823.4	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
United States	259.9	505.7	674.4	533.0	571.7	805.9	427.3	443.4	543.5	586.6	520.2
Japan	319.4	135.3	212.1	73.7	166.6	166.6	244.1	493.8	601.1	691.3	541.2
Europe	161.3	360.4	228.7	421.8	394.1	325.1	201.0	218.8	285.8	358.1	544.2
European Community (EC)	132.3	269.9	166.3	386.9	338.8	318.9	180.9	204.8	241.0	345.1	525.4
United Kingdom	91.9	129.5	83.1	283.1	207.5	186.6	69.4	93.4	42.4	56.6	174.6
Netherlands	4.5	1.0	1.2	62.8	99.2	70.3	75.2	57.1	70.9	82.9	174.0
Germany	25.3	69.2	11.5	31.4	12.8	14.3	20.1	16.7	90.3	46.7	26.4
France	4.9	18.8	1.7	1.3	6.8	-	15.1	27.8	15.2	86.0	106.0
Italy	2.5	45.4	62.5	2.4	5.1	44.8	-	5.1	22.0	68.0	32.8
Other EC Countries	3.2	6.0	6.3	5.9	7.4	2.9	1.1	4.7	0.2	4.9	11.6
Switzerland	12.1	35.8	17.0	22.0	15.4	2.7	4.7	7.7	27.8	10.1	0.9
Other European Countries	16.9	1.1	7.2	1.8	27.4	3.3	0.5	0.9	8.3	2.9	18.0
Others	82.8	187.7	106.2	133.9	137.4	37.1	15.6	34.6	17.6	21.7	19.8

1 Exclude Petrochemicals.

Source : Economic Development Board

6.14 PRINCIPAL STATISTICS OF PIONEER MANUFACTURING ESTABLISHMENTS, 1978 -1988

End of Year	Establishments	Workers	Input	Output	Census Value Added	Employees' Remuneration	Paid-up Capital	Gross Fixed Assets	Direct Exports
	Number		Million Dollars						
1978	298	97,732	9,994	12,837	2,785	693	1,477	4,156	9,867
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

Source : Economic Development Board
with effect from April 1987

**6.15 PRINCIPAL STATISTICS OF PIONEER MANUFACTURING ESTABLISHMENTS BY INDUSTRY GROUP,
DECEMBER 1988**

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	423	157,433	22,771	35,117	11,765	2,534	5,198	16,536	27,824	75
Food & Beverages	7	989	204	321	115	23	90	221	180	117
Textiles & Garments	14	5,309	166	291	104	57	95	340	260	20
Wood Products	4	175	7	13	6	2	18	16	9	32
Printing & Paper Products	6	891	130	272	137	22	14	180	220	154
Industrial Chemicals & Gases	26	2,180	1,558	2,824	1,261	78	1,289	2,064	1,750	579
Chemical Products	19	2,134	286	1,018	732	57	210	407	926	343
Petroleum & Petroleum Products	5	2,423	4,896	5,779	883	128	266	4,505	3,737	364
Rubber Products	4	717	30	63	32	13	19	56	50	44
Plastic Products	17	1,974	114	224	93	29	30	163	72	47
Non-metallic Mineral Products	8	1,387	82	148	65	21	43	105	73	47
Basic Metal Industries	9	1,528	314	505	183	39	110	309	200	120
Fabricated Metal Products	50	7,979	611	1,083	448	141	297	747	620	56
Non-electrical Machinery	62	9,944	662	1,270	580	200	232	994	961	58
Electrical Machinery	34	16,118	903	1,524	592	219	164	827	1,150	37
Electronic Products	109	90,125	12,230	18,066	5,511	1,281	2,069	4,423	16,075	61
Transport Equipment	16	5,263	238	960	645	116	142	786	814	123
Instrumentation Equipment	28	6,796	215	525	299	91	95	347	506	44
Miscellaneous	5	1,501	124	232	79	17	16	46	222	52

Source : Economic Development Board

CHART 9

QUARTERLY INDEX OF INDUSTRIAL PRODUCTION, 1983-1989
(1986 = 100)

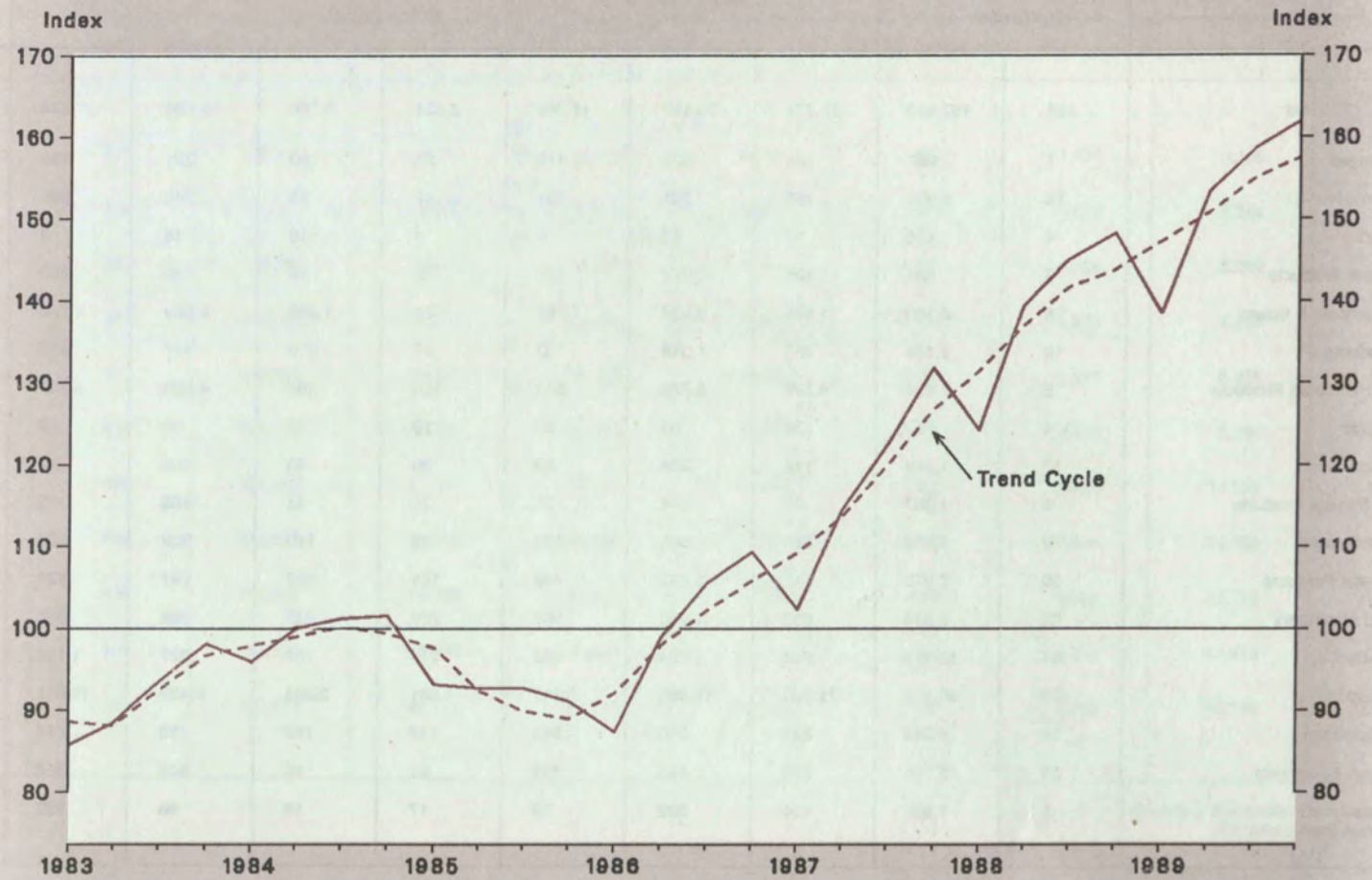
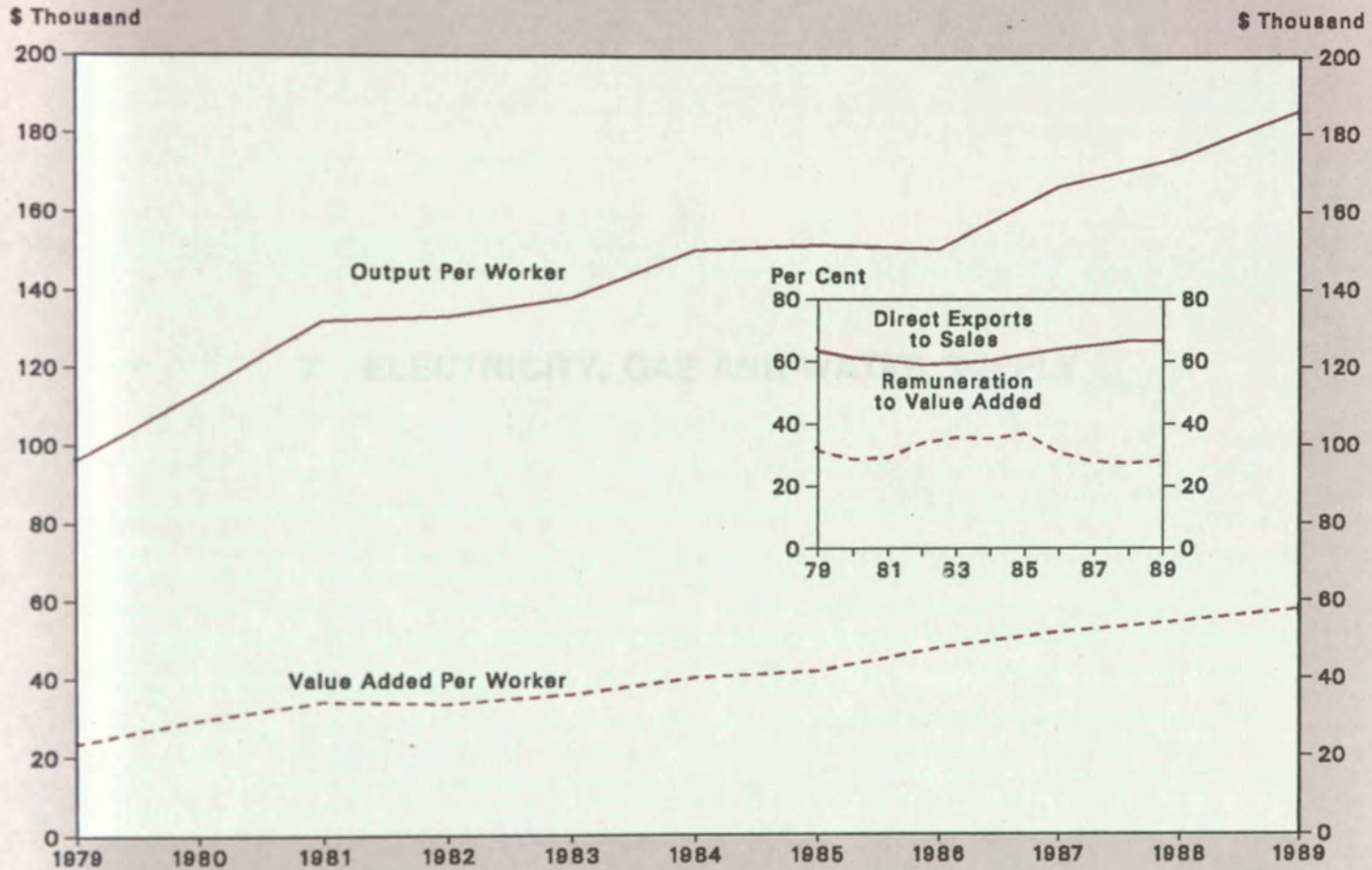


CHART 10

SELECTED RATIOS IN MANUFACTURING, 1979-1989



7 ELECTRICITY, GAS AND WATER SUPPLY

7 ELECTRICITY, GAS AND WATER SUPPLY

The Public Utilities Board (PUB) is responsible for the production and distribution of electricity, gas and water in Singapore.

Electricity

The Electricity Department has been responsible for the public supply of electricity since 1906. Today electricity is generated by power stations at Pulau Seraya, Senoko, Jurong and Pasir Panjang. The Pulau Seraya Power Station began operations in early 1987. In 1989, the installed generating capacity remained at 3,371 megawatt (MW) of which 1,610 MW or 48 per cent is at Senoko. Some electricity is also generated by the refuse incineration plants of the Ministry of the Environment (ENV). In 1989 PUB purchased 1.4 per cent of the total electricity production from these plants.

A network of 230 kilovolt (kV), 66kV, 22kV, 6.6kV and 0.4kV cables interlinked by transformers at substations forms the transmission and distribution system whereby electricity is supplied from the power station to the consumer. The network now consists of about 16,900 kilometres of mains cables circuits, 23,000 megavolt-amperes of transformer capacity and 5,100 substations and 17 substation kiosks.

The total number of customers increased to more than 804,000 in 1989, of which 85 per cent were domestic. However, domestic consumption constituted only 15 per cent of the total consumption. Per capita consumption of electricity in Singapore rose from 4,433 kilowatt-hours (kWh) in 1988 to 4,725 kWh in 1989 while per capita domestic consumption increased from 704 kWh in 1988 to 725 kWh in 1989.

Gas

Gas is produced by seven naphtha reformers at the Kallang Gasworks with a production capacity of 0.735 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 1,852 kilometres of gas mains in use.

There are 218,627 gas consumers. Of these, 96 per cent are domestic while the rest are mainly commercial consumers. Of the 709.5 millions units of gas sold in 1989, 45.1 per cent and 54.9 per cent went to domestic and non-domestic consumers respectively.

Water

Water supplies are drawn mainly from 18 impounding reservoirs, 14 in Singapore and 4 in Johore. Water is also tapped from rivers in Johore. After purification and treatment at the nine treatment works, water is pumped into 13 service reservoirs for distribution to customers. The total number of customers in Singapore and Johore was 765,801 in 1989 and the total consumption based on sales was 355.6 million

cubic metres, an increase of 3.4 per cent over 1988. This includes consumption of 45.5 million cubic metres by Johore customers.

Data on electricity, gas and water production and sales may be obtained from the PUB's Annual Report and the "Monthly Digest of Statistics" published by the Department of Statistics.

7.1 ELECTRICITY PRODUCTION AND SALES, 1979-1989

Year	Production	Sales					Number of Customers (End of Period)
		Total	Domestic	Manufacturing	Other Industries	Export	
	Million Kilowatt Hours						
1979	6,483.1	5,743.7	945.2	2,803.3	1,902.0	93.2	526,669
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

Source : Public Utilities Board

7.2 GAS PRODUCTION AND SALES, 1979-1989

Year	Production	Sales				Number of Customers (End of Period)
		Total	Domestic		Non-domestic	
			Public Housing	Others		
	Million Kilowatt Hours					
1979	597.1	527.4	234.2	72.3	220.9	176,902
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

Source : Public Utilities Board

7.3 WATER PRODUCTION AND SALES, 1979-1989

Year	Production	Sales						Number of Customers (End of Period)
		Total	Domestic	Shipping	Commerce & Industry	Government & Statutory Boards	Johore	
	Thousand Cubic Metres							
1979	265,742.4	237,902.8	106,504.5	3,043.1	70,160.4	23,759.1	34,435.7	496,508
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

Source : Public Utilities Board

8 BUILDING CONSTRUCTION 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 Planning Department and Building Control Division of the Public Works Department. Records on notice of tender invitation and completion are collected through surveys conducted by the Research and Statistics Unit, Ministry of National Development.

Definitions

Planning Approval : 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 statistics compiled from tenders invited by the public authorities for construction works.

Building Completion : Refers to statistics compiled from 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 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" and the "Construction and Real Estate Statistics Quarterly" published by the Research and Statistics Unit, Ministry of National Development.

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, 1979-1989

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)
1979	1,385	7,297.4	2,430.0	259	4,928.6	1,307.7	1,126	2,368.8	1,122.3
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*	2,105	5,228.1	4,464.6	313	1,659.9	1,112.4	1,792	3,568.2	3,352.2

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

8.2 COMMENCEMENT OF BUILDING CONSTRUCTION, 1979-1989

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)
1979	1,635	6,520.8	2,350.0	630	4,647.6	1,446.0	1,005	1,873.2	904.0
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*	2,259	6,607.0	6,459.2	327	2,291.3	1,533.9	1,932	4,315.7	4,925.3

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

8.3 CONSTRUCTION PROJECTS COMPLETED, 1979-1989

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)
1979	1,366	5,187.3	1,473.8	496	3,486.6	829.8	870	1,700.7	644.0
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*	1,790	4,069.4	2,881.3	351	2,317.4	1,140.2	1,439	1,752.0	1,741.1

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

8.4 PLANNING APPROVALS BY TYPE OF DEVELOPMENT, 1979-1989

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
All Types	Number										
	1,385	1,560	1,712	1,555	1,769	1,780	1,361	1,481	1,830	2,000	2,105
	Residential	495	679	777	706	983	986	646	773	1,076	933
	Commercial	182	205	145	158	137	137	116	139	135	200
	Industrial	496	426	531	457	378	384	290	273	381	455
	Institutional	199	228	230	197	237	254	295	275	206	297
	Others	13	22	29	37	34	19	14	21	32	39
All Types	Gross Floor Area (Thousand Square Metres)										
	7,297.4	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	5,228.1
	Residential	4,651.9	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
	Commercial	695.7	1,403.7	1,533.5	3,282.9	698.7	787.3	409.7	279.7	195.9	270.0
	Industrial	1,686.7	1,826.9	2,504.0	2,072.2	1,180.8	881.0	933.9	558.6	868.2	693.8
	Institutional	256.8	552.0	577.7	416.0	828.4	785.1	530.3	1,132.4	454.8	428.4
	Others	6.3	26.8	47.6	239.3	215.5	46.6	6.5	47.0	111.7	292.1
All Types	Estimated Cost of Construction (Million Dollars)										
	2,430.0	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	4,464.6
	Residential	1,205.5	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
	Commercial	479.7	1,327.2	1,473.4	4,317.0	981.8	722.0	579.7	219.1	165.2	327.9
	Industrial	562.0	1,411.7	1,969.5	1,355.0	880.6	627.9	526.1	361.5	545.7	489.2
	Institutional	182.1	483.2	603.7	592.9	834.3	919.3	631.7	1,087.4	355.8	610.6
	Others	0.7	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, 1979-1989

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
All Types Residential Commercial Industrial Institutional Others	Number										
	259	290	251	226	251	233	272	262	207	292	313
	42	33	25	37	40	30	22	38	27	23	38
	37	59	25	19	14	13	9	17	17	16	56
	22	18	18	14	9	3	1	-	5	8	14
	158	174	178	155	186	186	234	199	148	232	205
	-	6	5	1	2	1	6	8	10	13	
	Gross Floor Area (Thousand Square Metres)										
All Types Residential Commercial Industrial Institutional Others	4,928.6	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	1,659.9
	3,831.9	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
	121.3	283.7	516.7	599.9	39.2	245.6	131.2	178.3	76.5	30.2	64.2
	765.6	676.2	928.8	745.0	281.8	123.5	308.5	-	33.5	141.0	191.8
	209.8	482.0	498.2	368.8	759.5	706.1	433.4	1,054.1	313.7	380.0	406.8
	-	21.9	0.3	0.1	66.8	1.9	2.3	43.8	10.8	148.5	
	Estimated Cost of Construction (Million Dollars)										
	All Types Residential Commercial Industrial Institutional Others	1,307.7	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
874.2		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
64.1		147.4	319.2	964.6	44.8	156.9	82.6	126.2	42.0	56.0	52.8
218.3		317.5	493.1	391.9	195.8	48.5	106.0	-	20.5	105.1	87.6
151.1		418.2	513.1	534.7	753.3	833.8	524.0	1,021.6	273.7	557.5	484.3
-		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, 1979-1989

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
All Types	Number										
	1,126	1,270	1,461	1,329	1,518	1,547	1,089	1,219	1,623	1,708	1,792
	Residential	453	646	752	669	943	956	624	735	1,049	895
	Commercial	145	146	120	139	123	124	107	122	118	298
	Industrial	474	408	513	443	369	381	289	273	376	447
	Institutional	41	54	52	42	51	68	61	76	58	65
	Others	13	16	24	36	32	18	8	13	22	26
All Types	Gross Floor Area (Thousand Square Metres)										
	2,368.8	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	3,568.2
	Residential	820.0	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
	Commercial	574.4	1,120.0	1,016.7	2,683.0	659.5	541.7	278.5	101.4	119.4	239.8
	Industrial	921.1	1,150.7	1,575.3	1,327.2	899.0	757.5	625.4	558.6	834.7	552.8
	Institutional	47.0	70.0	79.5	47.2	68.9	79.0	96.9	78.3	141.1	48.4
	Others	6.3	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)										
	1,122.3	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	3,352.2
	Residential	331.3	994.7	1,473.0	1,613.3	2,141.9	1,475.4	621.6	588.4	755.5	1,269.1
	Commercial	415.6	1,179.8	1,154.2	3,352.4	937.0	565.1	497.1	92.9	123.2	271.9
	Industrial	343.7	1,094.2	1,476.4	963.1	684.8	579.4	420.1	361.5	525.2	384.1
	Institutional	31.0	65.0	90.6	58.2	81.0	85.5	107.7	65.8	82.1	53.1
	Others	0.7	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, 1979-1989

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*	
All Types	Number											
	1,635	1,582	1,970	1,840	2,042	1,996	1,606	1,596	1,936	2,247	2,259	
	Residential	561	577	777	746	999	904	693	661	891	1,054	1,012
	Commercial	247	270	209	226	210	274	228	294	331	291	454
	Industrial	479	459	559	485	400	405	286	296	367	535	501
	Institutional	329	254	395	353	405	387	382	319	324	328	292
	Others	19	22	30	30	28	26	17	26	23	39	
All Types	Gross Floor Area (Thousand Square Metres)											
	6,520.8	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	6,607.0	
	Residential	4,084.5	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	3,236.8
	Commercial	610.9	1,122.7	1,024.5	2,321.9	940.0	657.0	350.1	141.4	120.6	196.5	1,397.0
	Industrial	1,322.3	1,636.3	1,748.3	1,884.7	943.7	664.2	277.4	282.5	644.5	800.4	1,253.1
	Institutional	494.3	278.8	602.8	667.0	1,059.0	722.6	493.1	640.6	560.7	408.6	720.1
	Others	8.8	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)											
	2,350.0	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	6,459.2	
	Residential	1,080.9	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	2,267.1
	Commercial	406.6	1,130.4	1,257.7	3,510.0	1,208.8	860.2	384.4	150.7	164.4	241.3	2,462.8
	Industrial	471.5	849.9	1,558.2	1,176.9	783.4	517.0	216.1	228.7	494.4	600.3	950.7
	Institutional	388.2	268.2	717.2	1,001.9	1,537.6	1,165.7	512.9	541.3	645.0	534.5	778.6
	Others	2.8	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, 1979-1989**

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
All Types	Number										
	630	535	586	593	654	562	542	507	453	435	327
	Residential	214	162	151	205	206	179	158	139	117	81
	Commercial	73	104	43	41	52	49	34	37	29	33
	Industrial	39	40	45	43	32	17	14	29	24	24
	Institutional	294	220	340	300	359	315	326	244	252	240
	Others	10	9	7	4	5	2	10	14	9	12
All Types	Gross Floor Area (Thousand Square Metres)										
	4,647.6	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	2,291.3
	Residential	3,344.7	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
	Commercial	253.2	428.8	300.1	392.6	289.2	219.5	129.8	75.1	1.8	21.0
	Industrial	582.0	631.9	525.4	821.2	120.4	43.9	-	-	35.5	167.5
	Institutional	464.9	245.9	541.1	613.0	1,005.2	650.2	443.7	595.5	408.2	355.6
	Others	2.8	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)										
	1,446.0	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	1,533.9
	Residential	767.4	993.4	1,647.5	2,626.2	3,024.1	2,002.8	1,639.3	1,471.5	886.7	747.7
	Commercial	134.0	309.0	231.0	573.9	218.5	217.5	73.2	81.3	13.5	40.2
	Industrial	176.2	308.0	282.3	408.1	102.2	30.2	7.0	18.3	30.2	121.8
	Institutional	366.0	238.5	653.9	932.6	1,463.5	1,079.2	460.9	495.3	557.4	467.5
	Others	2.4	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, 1979-1989

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*	
All Types Residential Commercial Industrial Institutional Others	Number											
	1,005	1,047	1,384	1,247	1,388	1,434	1,064	1,089	1,483	1,812	1,932	
	347	415	626	541	793	725	535	478	752	937	931	
	174	166	166	185	158	225	194	257	302	255	421	
	440	419	514	442	368	388	272	267	343	505	477	
	35	34	55	53	46	72	56	75	72	88	103	
	9	13	23	26	23	24	7	12	14	27		
	Gross Floor Area (Thousand Square Metres)											
	All Types Residential Commercial Industrial Institutional Others	1,873.2	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	4,315.7
		739.8	939.7	1,409.0	1,646.1	1,826.2	741.2	507.1	260.8	782.2	1,120.1	1,449.7
357.7		693.9	724.4	1,929.3	650.8	437.5	220.3	66.3	118.8	175.5	1,314.0	
740.3		1,004.4	1,222.9	1,063.5	823.3	620.3	277.4	282.5	609.0	632.9	1,167.2	
29.4		32.9	61.7	54.0	53.8	72.4	49.4	45.1	152.5	53.0	384.8	
6.0		11.3	50.5	110.8	302.2	60.9	8.0	4.3	94.9	47.5		
Estimated Cost of Construction (Million Dollars)												
All Types Residential Commercial Industrial Institutional Others	904.0	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	4,925.3	
	313.5	600.2	1,300.5	1,811.7	1,948.6	727.2	462.2	208.4	656.2	886.7	1,333.1	
	272.6	821.4	1,026.7	2,936.1	990.3	642.7	311.2	69.4	150.9	201.1	2,376.4	
	295.3	541.9	1,275.9	768.8	681.2	486.8	209.1	210.4	464.2	478.5	861.5	
	22.2	29.7	63.3	69.3	74.1	86.5	52.0	46.0	87.6	67.0	354.3	
	0.4	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, 1979-1989

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
All Types	Number										
	1,366	1,287	1,477	1,621	1,641	2,006	1,925	1,661	1,822	1,761	1,790
	Residential	420	424	500	578	700	877	933	752	814	827
	Commercial	221	227	211	193	182	289	218	279	342	306
	Industrial	417	376	435	489	396	437	361	257	329	392
	Institutional	284	243	311	346	344	388	395	355	311	280
	Others	24	17	20	15	19	15	18	18	26	20
Gross Floor Area (Thousand Square Metres)											
All Types	5,187.3	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	4,069.4
	Residential	3,443.2	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
	Commercial	446.7	452.0	973.2	928.5	850.8	1,506.3	728.2	1,448.6	821.4	359.9
	Industrial	836.7	1,105.8	1,053.4	1,756.4	1,549.3	1,531.1	984.9	473.2	360.7	637.3
	Institutional	356.7	280.0	688.7	532.4	505.3	673.2	460.9	852.7	744.0	441.8
	Others	104.0	19.0	3.7	11.7	65.0	61.7	28.4	15.5	141.3	80.6
Cost of Construction (Million Dollars)											
All Types	1,473.8	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	2,881.3
	Residential	704.1	660.8	682.7	969.0	1,958.0	4,994.8	4,497.4	2,828.3	2,018.5	1,821.0
	Commercial	214.3	230.5	420.3	718.1	801.6	1,856.5	892.3	2,256.9	1,103.0	403.4
	Industrial	240.1	381.4	506.9	1,465.4	1,144.8	1,035.9	699.5	333.9	264.5	529.8
	Institutional	307.3	204.3	638.3	713.5	689.1	902.4	526.5	1,003.8	762.4	453.9
	Others	8.0	5.4	5.1	7.8	15.8	44.8	5.5	2.7	181.7	37.2

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

8.11 PUBLIC SECTOR CONSTRUCTION PROJECTS COMPLETED BY TYPE OF DEVELOPMENT, 1979-1989

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
All Types	Number										
	496	499	499	499	518	675	614	518	486	421	351
	147	161	136	130	137	235	227	171	189	166	110
	65	76	58	37	40	60	28	31	32	29	43
	31	38	28	34	47	39	29	19	22	22	17
	242	216	268	296	293	336	328	291	228	200	181
	11	8	9	2	1	5	2	6	15	4	
	Gross Floor Area (Thousand Square Metres)										
	3,486.6	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	2,317.4
	2,811.1	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	1,984.0
99.2	149.9	369.9	266.2	259.5	464.5	272.6	274.0	212.5	121.0	32.4	
267.2	465.1	236.7	507.4	623.8	583.1	349.0	44.0	-	59.7	96.9	
306.2	222.3	586.9	484.4	446.1	604.6	411.5	812.9	671.8	395.5	204.1	
2.9	2.3	0.3	2.9	3.3	49.8	0.8	0.4	139.2	68.5		
Cost of Construction (Million Dollars)											
829.8	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	1,140.2	
450.0	448.8	351.6	558.1	930.4	3,754.2	2,798.5	1,799.2	1,479.2	1,421.0	752.9	
36.1	47.1	54.9	146.4	211.7	434.6	235.8	307.3	203.1	66.0	28.6	
67.6	125.8	77.7	194.9	300.5	272.9	165.5	32.4	9.7	38.4	50.7	
275.3	167.8	570.2	661.9	608.4	802.7	472.5	962.1	675.1	403.7	308.0	
0.8	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, 1979-1989

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
All Types	Number										
	870	788	978	1,122	1,123	1,331	1,311	1,143	1,336	1,340	1,439
	Residential	273	263	364	448	563	642	706	625	656	717
	Commercial	156	151	153	156	142	229	190	248	310	221
	Industrial	386	338	407	455	349	398	332	238	307	367
	Institutional	42	27	43	50	51	52	67	64	83	80
	Others	13	9	11	13	18	10	16	12	11	16
All Types	Gross Floor Area (Thousand Square Metres)										
	1,700.7	1,576.9	2,220.6	2,524.3	2,631.2	3,327.4	2,878.4	2,809.9	1,655.6	1,338.1	1,752.0
	Residential	632.1	559.7	695.4	556.2	1,193.5	1,257.1	1,709.9	1,151.2	611.7	463.2
	Commercial	347.5	302.1	603.3	662.3	591.3	1,041.8	455.6	1,174.6	608.9	238.9
	Industrial	569.5	640.7	816.7	1,249.0	925.5	948.0	635.9	429.2	360.7	577.6
	Institutional	50.5	57.7	101.8	48.0	59.2	68.6	49.4	39.8	72.2	46.3
	Others	101.1	16.7	3.4	8.8	61.7	11.9	27.6	15.1	2.1	12.1
All Types	Cost of Construction (Million Dollars)										
	644.0	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	1,741.1
	Residential	254.1	212.0	331.1	410.9	1,027.6	1,240.6	1,698.9	1,029.1	539.3	400.0
	Commercial	178.2	183.4	365.4	571.7	589.9	1,421.9	656.5	1,949.6	899.9	337.4
	Industrial	172.5	255.6	429.2	1,270.5	844.3	763.0	534.0	301.5	254.8	491.4
	Institutional	32.0	36.5	68.1	51.6	80.7	99.7	54.0	41.7	87.3	50.2
	Others	7.2	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, 1979-1989

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*	
All Types	Number											
	1,067	1,244	1,444	1,306	1,533	1,669	1,322	1,207	1,457	1,894	2,208	
	Residential	364	523	668	595	825	862	652	556	687	985	1,130
	Commercial	188	205	179	176	198	260	243	270	337	298	433
	Industrial	474	458	521	456	422	444	350	296	346	497	533
	Institutional	33	43	54	55	54	77	67	78	74	93	112
	Others	8	15	22	24	34	26	10	7	13	21	
All Types	Gross Floor Area (Thousand Square Metres)											
	1,862.3	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	2,825.4	
	Residential	551.6	942.6	1,244.2	1,159.3	2,083.1	1,132.7	880.0	483.6	535.4	988.3	1,149.1
	Commercial	466.4	750.3	971.5	1,012.9	2,144.6	802.0	581.4	70.6	119.7	149.6	384.1
	Industrial	806.6	1,038.4	1,174.2	1,073.5	1,015.9	680.5	422.4	260.5	396.7	635.5	1,074.1
	Institutional	27.9	38.6	69.1	51.4	55.7	64.0	68.3	71.7	124.1	73.2	218.1
	Others	9.8	7.6	27.8	109.3	239.3	143.0	6.6	2.7	2.8	54.3	
All Types	Estimated Cost of Construction (Million Dollars)											
	956.1	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	2,522.7	
	Residential	237.2	569.4	1,109.6	1,179.5	2,186.4	1,195.4	762.5	441.6	434.6	801.7	964.8
	Commercial	375.2	890.3	1,197.8	1,296.2	3,216.8	1,087.3	771.1	122.1	141.9	174.7	590.0
	Industrial	322.4	556.4	1,229.1	767.2	890.0	505.8	345.3	194.3	286.6	578.1	855.3
	Institutional	20.9	32.4	62.4	61.3	77.4	72.7	72.7	76.1	52.2	83.1	112.6
	Others	0.4	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, 1979-1989

Number

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
Planning Approval Stage											
All Types	36,365	29,371	27,468	40,793	54,709	39,018	33,339	38,536	30,283	10,623	5,710
Detached	-	-	-	16	-	-	-	-	-	-	-
Terrace	-	-	-	12	-	-	-	1	-	-	6
Flats	36,362	29,307	27,468	40,755	54,709	38,922	33,319	37,705	29,982	10,623	5,704
Others	3	64	-	10	-	96	20	830	301	-	-
Building of Commencement Stage											
All Types	27,913	24,950	30,255	46,721	59,201	39,676	31,854	26,584	13,083	10,631	10,885
Detached	-	-	-	16	-	-	-	-	-	-	-
Terrace	-	-	-	12	-	-	-	-	-	-	-
Flats	27,909	24,950	30,255	46,683	59,105	39,676	31,834	26,584	13,083	10,631	10,885
Others	4	-	-	10	96	-	20	-	-	-	-
Building Completion Stage											
All Types	27,174	23,886	12,464	19,512	19,275	78,288	59,633	38,519	32,859	29,149	12,152
Detached	-	-	-	-	-	16	-	-	-	-	-
Terrace	-	-	-	-	-	12	-	-	-	-	-
Flats	26,707	23,872	12,401	19,510	19,275	78,244	59,633	38,403	32,859	28,319	12,152
Others	467	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, 1979-1989

											Number
											1979
											1980
											1981
											1982
											1983
											1984
											1985
											1986
											1987
											1988
											1989
Planning Approval Stage											
All Types	3,587	8,037	8,174	6,535	8,933	6,484	2,535	2,848	3,984	6,676	5,383
Detached	103	177	247	213	291	289	174	137	202	234	201
Semi-detached	250	297	232	275	566	912	192	290	457	396	451
Terrace	312	507	396	227	1,030	1,396	384	765	1,562	2,119	1,374
Flats	2,883	6,993	7,291	5,820	7,035	3,883	1,785	1,649	1,752	3,926	1,298
Condominium											2,059
Others	39	63	8	-	11	4	-	7	11	1	-
Building Plan Approval Stage											
All Types	2,584	3,716	5,532	4,817	9,436	4,461	3,777	2,074	2,051	3,988	4,769
Detached	75	144	196	149	239	273	165	75	126	173	194
Semi-detached	215	329	208	166	418	477	528	235	336	382	321
Terrace	131	402	410	233	639	663	824	504	655	1,802	1,233
Flats	2,096	2,840	4,654	4,264	8,132	3,045	2,259	1,253	934	1,629	716
Condominium											2,305
Others	67	1	64	5	8	3	1	7	-	2	-
Building of Commencement Stage											
All Types	3,517	3,968	6,270	7,829	7,465	2,929	2,107	991	3,246	4,720	5,649
Detached	65	109	195	149	223	211	107	53	108	217	153
Semi-detached	144	273	206	170	487	430	420	183	461	350	335
Terrace	126	351	395	270	836	504	544	422	1,225	1,654	1,619
Flats	3,133	3,203	5,410	7,239	5,906	1,781	1,035	326	1,451	2,498	1,131
Condominium											2,411
Others	49	32	64	1	13	3	1	7	1	1	-
Building Completion Stage											
All Types	2,780	2,212	3,186	2,476	4,919	5,441	7,388	5,173	2,295	1,705	3,741
Detached	86	96	110	124	161	144	179	109	157	85	135
Semi-detached	225	214	328	229	357	290	377	385	275	345	376
Terrace	291	442	231	183	481	365	674	365	457	625	882
Flats	2,146	1,453	2,510	1,880	3,902	4,595	6,150	4,312	1,393	650	575
Condominium											1,773
Others	32	7	7	60	18	47	8	2	13	-	-

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

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

8.16 PROPERTIES UNDER THE MANAGEMENT OF HOUSING AND DEVELOPMENT BOARD, 1979-1989

Number

End of Year	Residential								Shops ¹
	Total	1-room	2-room	3-room	4-room	5-room	Executive	HUDC	
1979	353,961	71,950	47,139	165,098	49,823	17,841	-	2,110	12,169
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

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, 1979-1989

Year	Flats Constructed ¹	Flats Sold Under 'Home Ownership Scheme' ¹	Percentage of Population Living in Public Flats (End of Period)
	Number		
1979	26,709	23,584	71
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

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.

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

8.18 CONTRACTS AWARDED AND PROGRESS PAYMENTS CERTIFIED, 1981-1989

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*	5,291.6	2,792.8	2,498.8	4,187.6	2,294.2	1,893.4

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 surveyed, 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: A business or organisation unit engaged in one activity and generally operating in a single location.

Employment : 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 : 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 : 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 : 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 : 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 : This 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 annual "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, 1981-1987

Year	Establishments	Employment	Remuneration	Turnover	Operating Expenditure ¹	Operating Surplus ¹	Value Added ¹	
	Number		Million Dollars					
	Total							
	1981	38,237	215,294	1,992	66,006	63,009	3,236	5,360
	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
	Wholesale Trade							
	1981	18,794	107,316	1,323	55,828	53,677	2,306	3,693
	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
	Retail Trade							
	1981	16,457	65,462	353	8,436	7,927	550	922
	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
	Restaurants and Hotels							
1981	2,986	42,516	316	1,742	1,404	380	745	
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	

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, 1981-1987

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			Value Added ¹ Per Person Engaged	Operating Surplus ¹ to Turnover	Remuneration to Operating Expenditure ¹	Remuneration to Value Added ¹
	Thousand Dollars						
					Per Cent		
Total							
1981	1,726	85	140	25	4.9	3.2	37.2
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
Wholesale Trade							
1981	2,971	123	196	34	4.1	2.5	35.8
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
Retail Trade							
1981	513	33	56	14	6.5	4.4	38.2
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
Restaurants & Hotels							
1981	583	127	249	18	21.8	22.5	42.5
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

¹ See note to Table 9.1

9.3 PRINCIPAL STATISTICS OF THE SERVICES SECTOR BY INDUSTRY, 1982-1987

Year	Establishments	Employment	Remuneration	Operating Receipts	Operating Expenditure ¹	Operating Surplus ¹	Value Added ¹	
	Number		Million Dollars					
	Transport, Storage and Communications							
	1982	6,011	90,581	1,480	10,232	8,582	2,184	3,821
	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
	Financial and Insurance Services							
	1982	2,857	33,917	836	40,324	35,928	4,528	3,216
	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	2,417	9,689	233	6,387	3,481	2,960	607	
1987 ²	2,341	9,972	246	7,230	3,127	4,151	792	
	Real Estate and Business Services							
	1982	7,446	63,678	1,066	6,571	5,743	1,903	3,258
	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
	Community, Social and Personal Services							
	1982	8,455	45,291	347	1,378	1,119	300	693
	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	
	Non-profit Organisations							
	1982	4,674	25,840	510	182	822	23	541
	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 ³	4,365	37,726	786	470	1,578	158	969

¹ See note to Table 9.1.

² Exclude establishments within the purview of Monetary Authority of Singapore (MAS).

³ Exclude mutual benefit organisations, citizens' consultative committees & residents' committees.

9.4 SELECTED AVERAGES AND RATIOS IN THE SERVICES SECTOR, 1982-1987
(Excluding Non-Profit Organisations)

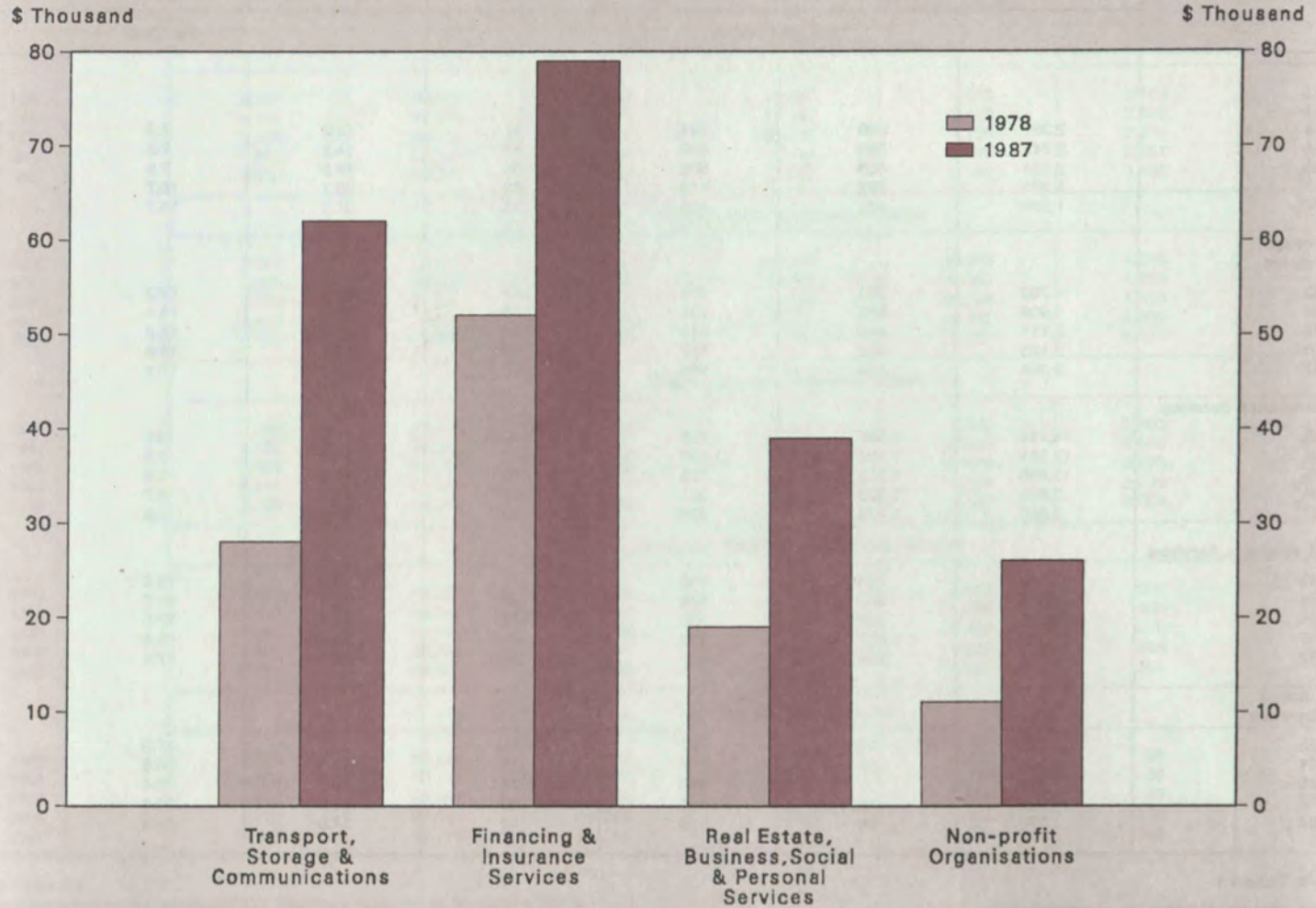
Year	Operating Receipts	Operating Surplus ¹	Value Added ¹	Value Added ¹ Per Person Engaged	Operating Surplus ¹ to Operating Receipts	Remuneration to Operating Expenditure ¹	Remuneration to Valued Added ¹
	Per Establishment						
	Thousand Dollars				Per Cent		
Total							
1982	2,362	360	444	47	15.2	7.3	33.9
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
Transport, Storage & Communications							
1982	1,702	363	636	42	21.3	17.2	38.7
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
Financial & Insurance Services							
1982	14,114	1,585	1,126	95	11.2	2.3	26.0
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	2,643	1,225	251	63	46.3	6.7	38.4
1987 ²	3,088	1,773	338	79	57.4	7.9	31.0
Real Estate & Business Services							
1982	882	256	438	51	29.0	18.6	32.7
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
Community, Social & Personal Services							
1982	163	35	82	15	21.8	31.0	50.1
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

1 See note to Table 9.1.

2 Exclude establishments within the purview of MAS.

CHART 11

VALUE ADDED PER PERSON ENGAGED IN THE SERVICES SECTOR, 1978 & 1987



10 EXTERNAL TRADE

10 EXTERNAL TRADE

Sources of Data

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

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 purchased or sold by an owner in Singapore whether or not they arrived or departed under their own power. Bunker fuel and stores supplied to non-Singapore registered ships and aircraft are included in the statistics.

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 deflating value of trade with price indices having base year 1985 = 100. This removes the effect of price changes on trade over time. Changes of trade at 1985 prices therefore measure the changes in the volume of trade.

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 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, 1979-1989

Million Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
At Current Prices											
Total Trade	69,274.5	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
Exports	30,940.1	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
Oil	9,187.8	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
Non-oil	21,752.3	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
Domestic Exports	18,200.4	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
Oil	8,988.1	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
Non-oil	9,212.3	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
Re-exports	12,739.7	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
Imports	38,334.4	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
Oil	9,672.7	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
Non-oil	28,661.7	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
At 1985 Prices											
Total Trade	78,323.8	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
Exports	33,890.9	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
Oil	12,176.2	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
Non-oil	21,714.9	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
Domestic Exports	22,022.0	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
Oil	11,875.5	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	21,791.8
Non-oil	10,146.4	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	43,823.3
Re-exports	11,868.9	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
Imports	44,432.9	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
Oil	15,579.0	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
Non-oil	28,853.9	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

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, 1979-1989

Million Dollars

Country/Area	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	69,274.5	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
America	11,390.6	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
Brazil	381.4	330.2	250.7	306.5	250.5	331.5	301.7	286.5	382.7	690.7	696.0
Canada	450.1	555.9	665.1	505.1	564.3	703.6	553.3	590.5	839.3	1,252.4	1,289.7
United States ¹	9,755.4	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
Asia	42,370.8	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
Bahrain	490.8	735.7	746.5	981.1	577.3	528.3	276.5	459.1	579.3	553.2	470.0
Bangladesh	284.5	576.7	625.9	589.7	538.3	617.0	716.7	535.6	550.4	659.2	673.0
Brunei	834.9	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
China, Peo Rep	1,263.7	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
Hong Kong	2,924.9	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
India	708.9	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
Iran (Islamic Rep)	620.8	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
Japan	9,498.2	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
Korea, Rep of	924.3	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
Kuwait	1,870.5	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
Malaysia	9,820.8	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
Pakistan	413.7	534.2	373.9	311.8	306.4	516.2	593.3	308.2	359.0	413.9	460.0
Philippines	676.1	746.3	807.4	911.0	1,161.0	836.0	916.0	940.9	1,252.9	1,573.4	1,825.3
Saudi Arabia	4,722.8	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
Sri Lanka	316.3	371.8	412.3	678.5	658.1	405.1	519.6	414.4	460.2	555.0	507.6
Taiwan	1,434.8	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
Thailand	2,406.8	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
United Arab Emirates	513.7	1,090.6	1,623.1	1,165.5	1,845.5	1,849.6	1,984.3	1,078.5	1,566.5	1,797.4	2,369.6
Europe	10,899.6	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
France	1,156.0	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
Germany, Fed Rep	2,473.2	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
Italy	840.7	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
Netherlands	1,093.3	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
Switzerland	406.9	554.1	496.7	515.0	555.4	516.3	641.7	852.4	1,188.0	1,263.8	1,263.8
United Kingdom	2,311.1	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
USSR	447.2	558.1	440.1	640.3	477.8	846.6	560.6	362.1	477.5	445.9	628.8
Oceania	3,156.4	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
Australia ²	2,014.8	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
New Zealand	560.8	939.1	794.8	891.8	607.1	621.9	857.7	543.5	460.1	576.2	528.8
Africa	1,457.1	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

1. Prior to 1986, USA included Puerto Rico.

2. Prior to 1989, Australia included Christmas Island.

Source : Trade Development Board
with effect from April 1987

10.3 IMPORTS BY COUNTRY/AREA, 1979-1989

Million Dollars

Country/Area	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	38,334.4	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
America	5,934.0	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
Brazil	129.7	168.2	131.4	212.8	147.8	186.4	163.6	143.2	225.3	464.0	510.7
Canada	177.0	272.9	276.7	220.2	219.2	318.2	195.4	225.0	355.3	536.1	515.3
United States ¹	5,489.5	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
Asia	25,478.9	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
Bahrain	390.7	667.3	675.3	900.4	499.5	455.4	197.4	410.7	520.3	487.2	413.1
Bangladesh	8.7	42.8	30.4	21.4	17.1	43.1	52.1	29.3	90.0	92.9	80.0
Brunei	379.2	424.2	691.1	477.6	404.4	415.4	536.6	298.1	276.6	225.1	146.2
China, Peo Rep	894.1	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
Hong Kong	836.5	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
India	218.7	246.4	280.7	408.2	733.5	470.4	488.8	348.5	525.5	534.1	591.7
Iran (Islamic Rep)	561.2	473.7	753.4	1,931.1	1,208.3	733.0	2,474.5	2,062.6	973.2	803.7	789.1
Japan	6,530.5	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
Korea, Rep of	423.9	584.7	661.3	743.8	904.0	784.0	930.3	1,288.6	1,837.2	2,542.1	2,898.5
Kuwait	1,698.4	2,838.6	1,995.4	948.3	1,545.5	1,882.7	983.7	2,098.1	1,557.7	1,122.5	1,122.5
Malaysia	5,393.4	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
Pakistan	36.5	91.5	125.3	94.2	120.8	60.9	60.3	78.1	82.9	89.3	122.5
Philippines	160.6	160.2	226.7	218.9	271.3	395.0	437.4	401.6	375.6	528.9	530.9
Saudi Arabia	4,019.9	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
Sri Lanka	32.8	37.6	53.2	254.4	155.9	28.9	94.8	35.8	61.3	71.7	61.8
Taiwan	984.2	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
Thailand	1,086.3	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
United Arab Emirates	31.8	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
Europe	5,457.6	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
France	484.3	699.0	967.6	1,124.6	1,050.1	1,022.7	1,327.7	1,261.5	1,415.9	1,586.2	2,167.4
Germany, Fed Rep	1,419.0	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
Italy	423.7	484.2	543.0	589.5	766.6	905.5	832.9	740.3	921.4	1,317.2	1,574.4
Netherlands	373.9	520.8	462.6	452.1	507.2	492.7	550.9	499.8	513.2	687.3	911.8
Switzerland	337.7	428.4	378.3	418.1	433.5	433.7	397.8	506.1	649.2	928.1	1,003.4
United Kingdom	1,347.3	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
USSR	52.0	51.2	96.8	175.6	98.3	86.4	28.9	78.4	84.0	185.6	251.7
Oceania	1,028.9	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
Australia ²	845.5	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
New Zealand	150.4	188.8	225.1	221.4	180.7	221.7	264.1	202.3	221.6	305.1	218.9
Africa	435.0	532.0	598.2	821.3	692.9	414.3	544.7	610.2	468.5	641.3	890.4

¹ Prior to 1986, USA included Puerto Rico.² Prior to 1989, Australia included Christmas Island.Source : Trade Development Board
with effect from April 1987

10.4 EXPORTS BY COUNTRY/AREA, 1979-1989

Million Dollars

Country/Area	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	30,940.1	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
America	5,456.6	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
Brazil	251.7	162.0	119.3	93.7	102.7	145.1	138.1	143.3	157.4	226.7	185.3
Canada	273.1	283.0	388.4	284.9	345.1	385.4	357.9	365.5	484.0	716.3	774.4
United States ¹	4,265.9	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
Asia	16,891.9	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
Bahrain	100.1	68.4	71.2	80.7	77.8	72.9	79.1	48.4	59.0	66.0	56.9
Bangladesh	275.8	533.9	595.5	568.3	521.2	573.9	664.6	506.3	460.4	566.3	593.0
Brunei	455.7	591.8	682.6	769.1	746.0	627.1	638.1	683.6	707.5	833.1	902.9
China, Peo Rep	369.6	657.9	377.3	516.7	449.8	519.3	730.2	1,243.8	1,546.8	2,368.6	2,334.5
Hong Kong	2,088.4	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
India	490.2	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
Iran (Islamic Rep)	59.6	200.9	208.4	549.8	821.6	724.8	873.7	763.8	152.7	216.2	168.9
Japan	2,967.7	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
Korea, Rep of	500.4	621.9	621.5	678.4	964.6	814.2	619.5	703.0	995.1	1,551.8	1,685.0
Kuwait	172.1	187.7	253.5	220.7	142.0	309.8	268.4	84.9	122.7	173.1	178.6
Malaysia	4,427.4	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
Pakistan	377.2	442.7	248.6	217.6	185.6	455.3	533.0	230.1	276.1	324.6	337.5
Philippines	515.5	586.1	580.7	692.1	889.7	441.0	478.6	539.3	877.3	1,044.5	1,294.4
Saudi Arabia	702.9	824.6	1,064.6	1,275.5	974.7	1,363.5	588.5	483.5	578.7	555.6	476.1
Sri Lanka	283.5	334.2	359.1	424.1	502.2	376.2	424.8	378.6	398.9	483.3	445.8
Taiwan	450.6	702.0	606.6	575.8	687.5	829.6	855.2	1,097.2	1,636.7	2,234.9	2,622.0
Thailand	1,320.5	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
United Arab Emirates	481.9	606.2	723.6	355.6	426.9	446.4	437.2	391.0	437.9	523.3	618.7
Europe	5,442.0	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
France	671.7	906.1	796.4	671.2	662.0	637.6	764.0	713.6	920.4	1,312.3	1,369.4
Germany, Fed Rep	1,054.2	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
Italy	417.0	533.0	414.4	361.6	444.0	531.5	545.8	498.9	695.5	1,142.6	1,173.4
Netherlands	719.4	784.0	732.3	759.2	536.7	628.6	638.5	747.8	1,114.4	1,357.4	1,400.2
Switzerland	69.2	125.7	118.4	96.9	121.9	121.5	118.5	135.6	203.2	259.9	260.4
United Kingdom	963.8	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
USSR	395.2	506.9	343.3	464.7	379.5	760.2	531.7	283.7	339.5	260.3	377.1
Oceania	2,127.5	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
Australia ²	1,169.3	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
New Zealand	410.4	750.3	569.7	670.4	426.4	400.2	593.6	341.2	238.5	271.1	309.9
Africa	1,022.1	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

¹ Prior to 1986, USA included Puerto Rico.² Prior to 1989, Australia included Christmas Island.Source : Trade Development Board
with effect from April 1987

10.5 DOMESTIC EXPORTS BY COUNTRY/AREA, 1979-1989

Million Dollars

Country/Area	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	18,200.4	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
America	3,566.1	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
Brazil	79.6	26.4	21.0	40.1	39.8	60.6	65.2	49.7	39.2	36.6	56.7
Canada	121.9	134.3	164.1	134.6	187.9	207.3	208.6	246.6	339.2	545.7	564.6
United States ¹	3,026.2	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
Asia	9,479.9	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
Bahrain	80.5	49.0	40.8	43.3	39.1	34.1	44.3	25.7	39.2	42.7	31.3
Bangladesh	181.0	356.6	446.1	454.7	226.2	416.4	485.7	311.0	273.3	229.1	201.4
Brunei	190.0	268.5	283.3	315.1	281.7	215.9	226.7	235.4	237.0	261.7	262.8
China, Pco Rep	151.4	238.2	114.1	117.6	117.6	194.4	398.8	858.4	1,058.7	1,350.8	1,536.9
Hong Kong	1,630.6	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
India	224.2	676.3	881.3	840.5	573.6	1,042.8	667.6	527.9	580.9	652.2	740.3
Iran (Islamic Rep)	20.8	60.7	93.6	505.0	719.5	614.0	742.1	696.7	82.0	134.7	60.9
Japan	2,561.9	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
Korea, Rep of	168.6	292.1	343.3	449.5	711.2	547.2	371.7	427.4	641.7	939.7	992.9
Kuwait	126.0	100.4	188.2	123.0	87.8	99.4	62.6	51.3	73.9	112.0	107.6
Malaysia	1,365.0	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
Pakistan	111.4	126.8	81.7	64.2	63.7	86.4	82.4	89.5	114.1	117.6	118.9
Philippines	288.0	340.8	292.4	411.6	609.9	217.4	268.7	316.0	492.5	492.1	646.8
Saudi Arabia	462.7	467.7	532.6	510.0	560.0	408.5	300.7	257.6	302.4	268.4	232.2
Sri Lanka	164.6	193.1	180.6	251.0	290.4	145.4	183.5	107.0	138.6	158.2	169.4
Taiwan	179.0	387.2	324.2	293.6	330.5	442.6	513.4	655.6	976.9	1,224.2	1,567.4
Thailand	812.3	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
United Arab Emirates	355.9	438.4	539.0	179.4	175.7	211.3	222.9	184.2	240.8	265.6	290.5
Europe	2,890.7	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
France	343.4	489.6	540.3	501.9	466.8	418.8	387.0	447.3	624.9	952.7	1,005.6
Germany, Fed Rep	672.1	942.0	827.2	721.9	767.0	880.6	798.2	1,073.3	1,329.7	1,848.3	2,321.1
Italy	199.5	320.8	269.2	254.4	344.3	444.8	456.1	371.8	516.1	914.0	933.9
Netherlands	328.6	454.4	410.5	516.8	239.1	253.8	370.7	346.2	698.1	812.7	770.5
Switzerland	50.4	87.1	78.1	70.8	86.6	76.3	73.5	80.8	93.8	145.6	127.6
United Kingdom	666.1	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
USSR	62.1	101.8	92.6	143.2	180.2	514.6	328.2	153.9	147.4	180.3	175.4
Oceania	1,734.7	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
Australia ²	884.1	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
New Zealand	344.0	683.6	486.0	579.3	337.4	323.4	510.6	268.1	149.6	153.9	185.7
Africa	529.0	883.6	1,152.5	1,067.4	969.0	990.0	753.6	763.9	732.3	821.8	794.8

1 Prior to 1986, USA included Puerto Rico.

2 Prior to 1989, Australia included Christmas Island.

Source : Trade Development Board
with effect from April 1987

10.6 IMPORTS BY COMMODITY, 1979-1989

Million Dollars

Commodity	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
TOTAL	38,334.4	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
Food	2,552.6	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
Cereals & Cereal Preparations	573.2	694.3	754.0	823.4	636.7	980.5	428.1	384.5	362.4	508.9	525.9
Fruits & Vegetables	599.3	674.1	792.2	805.0	857.8	913.9	899.1	927.8	971.0	1,150.7	1,077.1
Coffee & Spices	439.8	388.7	464.8	592.4	660.2	808.7	882.6	1,047.7	830.6	791.1	637.4
Beverages & Tobacco	207.3	276.0	282.2	339.5	416.2	460.6	501.0	541.5	595.0	730.1	1,013.2
Crude Materials	3,108.2	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
Rubber	2,017.7	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
Wood	461.4	423.6	388.0	360.4	353.1	296.1	249.4	272.1	294.6	311.3	341.7
Mineral Fuels	9,672.7	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
Petroleum & Petroleum Products	9,668.0	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
Animal & Vegetable Oils	829.4	1,001.0	721.8	671.5	632.1	1,435.9	1,380.5	720.3	791.8	941.0	924.1
Unprocessed Vegetable Oils	414.0	239.6	226.9	114.2	202.0	440.9	293.9	166.9	299.0	351.4	431.6
Chemicals	2,178.5	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
Chemical Compounds	571.4	715.7	753.0	723.5	821.2	859.1	772.0	879.7	1,079.4	1,545.9	1,583.1
Plastic Materials	591.3	648.2	643.3	687.0	808.1	829.3	721.3	846.0	1,275.9	1,999.9	1,423.8
Medicinal Products	173.2	206.8	203.6	210.7	207.0	222.2	239.0	284.6	314.2	367.2	384.0
Manufactured Goods by Material	5,736.7	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
Textile Manufactures	1,666.1	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
Non-metal Mineral Manufactures	633.8	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
Iron & Steel	1,461.0	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
Metal Manufactures	800.5	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
Paper & Paperboard & Related Articles	377.1	502.9	532.8	501.7	556.4	647.7	575.4	684.9	886.2	1,134.4	1,151.9
Machinery & Transport Equipment	11,343.9	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
Non-electric Machinery	4,002.4	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
Electric Machinery	4,675.5	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
Transport Equipment	2,666.0	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
Miscellaneous Manufactured Articles	2,194.3	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
Scientific & Optical Instruments	596.0	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
Watches & Clocks	377.7	576.3	541.9	550.4	537.6	475.6	424.7	475.7	596.3	779.2	874.0
Miscellaneous Transactions nes	510.9	667.4	643.2	576.3	651.1	850.2	898.0	991.2	1,077.5	1,367.0	1,544.6

Source : Trade Development Board
with effect from April 1987

10.7 EXPORTS BY COMMODITY, 1979-1989

Million Dollars

Commodity	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
TOTAL	30,940.1	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
Food	1,674.5	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
Cereals & Cereal Preparations	224.1	357.5	449.5	609.7	274.7	839.1	186.5	142.7	167.4	250.6	254.1
Fruits & Vegetables	223.3	252.8	303.2	320.9	342.9	375.9	366.2	340.8	364.4	411.5	389.8
Coffee & Spices	597.5	627.4	659.2	745.5	720.3	960.7	988.2	1,350.1	1,148.4	1,290.4	969.5
Beverages & Tobacco	131.6	157.2	174.3	217.0	210.0	209.8	240.8	332.1	387.2	552.8	886.3
Crude Materials	4,412.9	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
Rubber	3,070.2	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
Wood	657.7	585.0	426.4	378.4	398.8	365.0	327.9	380.4	510.3	563.4	705.1
Mineral Fuels¹	9,187.8	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
Petroleum & Petroleum Products	7,337.2	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
Animal & Vegetable Oils	858.1	1,095.5	820.0	780.3	628.2	1,540.5	1,535.2	880.4	795.9	885.5	1,016.1
Unprocessed Vegetable Oils	684.6	840.6	581.7	560.9	451.5	1,115.7	1,128.1	336.2	362.5	454.9	449.7
Chemicals	1,124.3	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
Chemical Compounds	231.7	282.6	346.0	380.5	547.2	882.4	917.6	985.5	1,253.3	1,669.7	1,921.1
Medicinal Products	267.5	323.3	319.2	342.8	329.8	259.8	298.1	294.1	305.2	349.2	360.2
Plastic Materials	205.8	220.6	220.5	243.4	263.2	486.3	680.1	732.5	1,174.7	1,846.0	1,484.7
Manufactured Goods by Material	2,841.6	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
Wood Manufactures	482.5	549.2	539.3	495.9	536.4	481.0	484.3	447.3	590.5	750.1	597.3
Textile Manufactures	787.9	793.2	737.0	745.6	810.2	781.1	776.9	929.4	1,330.3	1,386.5	1,544.8
Iron & Steel	362.4	454.3	586.3	707.5	411.2	461.5	457.8	433.1	471.8	721.0	861.5
Metal Manufactures	389.5	450.7	578.5	516.9	509.6	530.3	570.6	561.1	626.6	857.3	1,025.9
Machinery & Transport Equipment	8,216.7	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
Non-electric Machinery	1,958.9	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
Electric Machinery	5,045.6	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
Transport Equipment	1,212.2	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
Miscellaneous Manufactured Articles	2,121.7	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
Clothing	811.0	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
Scientific & Optical Instruments	344.8	410.0	481.7	414.6	510.0	594.1	660.4	755.1	1,045.1	1,558.3	1,730.0
Watches & Clocks	189.8	221.8	250.9	232.9	246.2	230.2	200.9	206.8	226.5	317.4	400.8
Miscellaneous Transactions nes	370.8	435.7	457.8	436.3	491.7	743.3	797.5	912.1	1,050.0	1,150.9	1,234.9

¹ Include oil bunkers.Source : Trade Development Board
with effect from April 1987

10.8 DOMESTIC EXPORTS BY COMMODITY, 1979-1989

Million Dollars

Commodity	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
TOTAL	18,200.4	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
Food	450.1	600.6	536.7	449.5	469.1	483.9	478.1	602.3	731.3	904.7	1,034.7
Animal Feeding Stuffs	74.8	83.6	57.6	42.6	38.6	46.9	36.3	40.5	36.6	48.9	46.7
Beverages & Tobacco	88.0	102.7	116.2	134.1	114.7	102.4	103.4	121.6	177.2	249.1	319.7
Crude Materials¹	129.3	152.3	140.0	125.3	179.6	172.3	189.7	246.6	343.7	468.5	516.2
Mineral Fuels²	8,988.1	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
Oil Bunkers	1,773.3	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
Animal & Vegetable Oils	229.8	393.7	470.3	482.6	401.9	670.1	629.7	666.7	605.4	610.6	768.5
Chemicals	458.0	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
Medicinal Products	205.5	258.2	237.4	260.3	241.3	172.1	207.0	192.9	199.4	222.9	224.9
Plastic Materials	92.7	99.6	100.6	108.5	106.5	325.9	522.4	549.5	864.2	1,305.9	967.0
Manufactured Goods by Material	1,197.7	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
Wood Products excluding Furniture	366.7	414.3	363.6	289.5	286.5	251.7	228.8	169.3	190.3	242.6	207.2
Textile Yarn Thread	152.8	137.9	96.7	76.1	68.4	58.0	43.0	50.7	69.8	73.8	67.8
Woven Textile Fabrics	115.0	124.2	119.1	104.6	68.5	48.9	36.2	47.1	63.3	84.8	108.7
Lime, Cement & Fabricated Construction Materials	61.2	75.7	79.8	71.0	48.9	84.2	62.7	14.7	21.9	21.6	26.6
Iron & Steel Pipes & Fittings	31.5	35.8	47.8	67.7	32.8	38.7	59.4	71.6	58.5	84.9	92.5
Machinery & Transport Equipment	5,067.9	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
Office Machines	195.5	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
Other Non-electric Machines	220.4	158.8	357.1	434.5	490.7	579.6	581.6	680.6	803.7	1,122.0	1,363.4
Electric Generators	230.4	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
Telecommunications Apparatus	1,473.6	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
Other Electric Machinery	2,045.7	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
Ships, Boats & Oil Rigs	455.7	587.7	965.9	764.7	982.7	633.5	102.8	109.0	194.8	375.7	230.7
Miscellaneous Manufactured Articles	1,567.2	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
Clothing	670.3	757.3	800.3	752.8	765.2	891.3	876.9	1,072.3	1,487.1	1,780.9	1,816.5
Scientific & Optical Instruments	198.0	236.6	238.6	166.2	209.3	256.0	291.1	359.9	522.6	738.6	645.4
Watches & Clocks	109.9	143.5	175.2	150.1	157.2	131.7	103.4	103.5	93.4	131.3	155.0
Printed Matters	77.3	90.5	115.2	110.6	112.0	120.2	136.9	188.1	256.7	314.0	378.9
Toys & Games	97.3	147.9	175.4	151.5	138.7	185.5	200.5	258.5	440.4	446.5	382.1
Miscellaneous Transactions nes	24.3	27.1	33.2	31.8	38.5	149.6	164.8	241.2	265.1	288.4	259.3

1 Exclude processed rubber and sawn timber.

2 Include oil bunkers.

Source : Trade Development Board
with effect from April 1987

10.9 IMPORTS OF SPECIFIC COMMODITIES, 1979-1989

Million Dollars

Year	Meat	Rice	Unmilled Cereals	Fruits & Nuts	Spices	Animal Feed	Crude Rubber	Sawn Timber	Crude Petroleum
1979	182.7	162.0	327.1	230.8	239.1	216.1	2,004.4	352.0	8,312.2
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

10.9 IMPORTS OF SPECIFIC COMMODITIES, 1979-1989 (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
1979	1,355.7	414.0	173.2	312.7	121.2	1,113.7	758.6	460.7	1,101.1
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

10.9 IMPORTS OF SPECIFIC COMMODITIES, 1979-1989 (continued)

Million Dollars

Year	Industrial Machinery	Telecommunications Apparatus	Office Machines	Motor Vehicles	Ships, Boats & Oil Rigs	Clothing	Scientific & Optical Instruments	Watches & Clocks	Toys & Games
1979	1,208.2	997.8	316.6	967.8	692.7	238.5	596.0	377.7	152.4
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

Source : Trade Development Board
with effect from April 1987

10.10 EXPORTS OF SPECIFIC COMMODITIES, 1979-1989

Million Dollars

Year	Spices	Coffee	Animal Feed	Crude Rubber	Sawn Timber	Petroleum Products	Fixed Vegetable Oils	Medicinal Products	Manufactured Fertilizers
1979	288.7	177.8	198.3	3,069.3	640.8	7,301.8	684.6	267.5	133.5
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

10.10 EXPORTS OF SPECIFIC COMMODITIES, 1979-1989 (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
1979	203.1	482.0	217.9	455.7	207.3	126.7	558.4	247.7	569.0
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

10.10 EXPORTS OF SPECIFIC COMMODITIES, 1979-1989 (continued)

Million Dollars

Year	Telecommunica- tions Apparatus	Household Equipment	Motor Vehicles	Ships, Boats & Oil Rigs	Furniture	Clothing	Scientific & Optical Instruments	Watches & Clocks	Printed Matters
1979	1,722.8	149.2	333.8	722.6	109.2	811.0	344.8	189.8	115.2
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

Source : Trade Development Board
with effect from April 1987

CHART 12

EXTERNAL TRADE AND TRADE BALANCE, 1979-1989

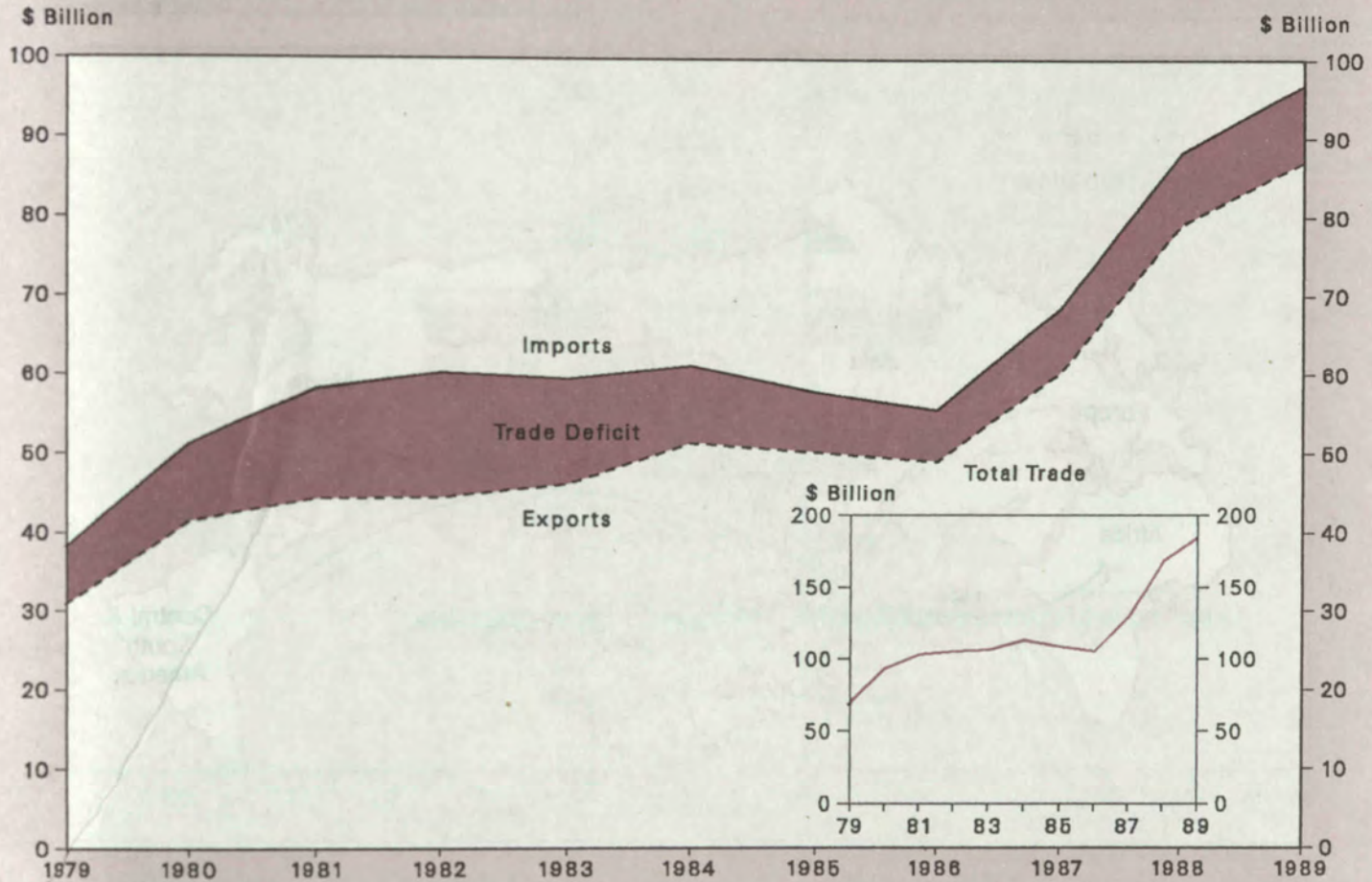


CHART 13

TRADE WITH MAJOR REGIONS, 1989

\$ Million

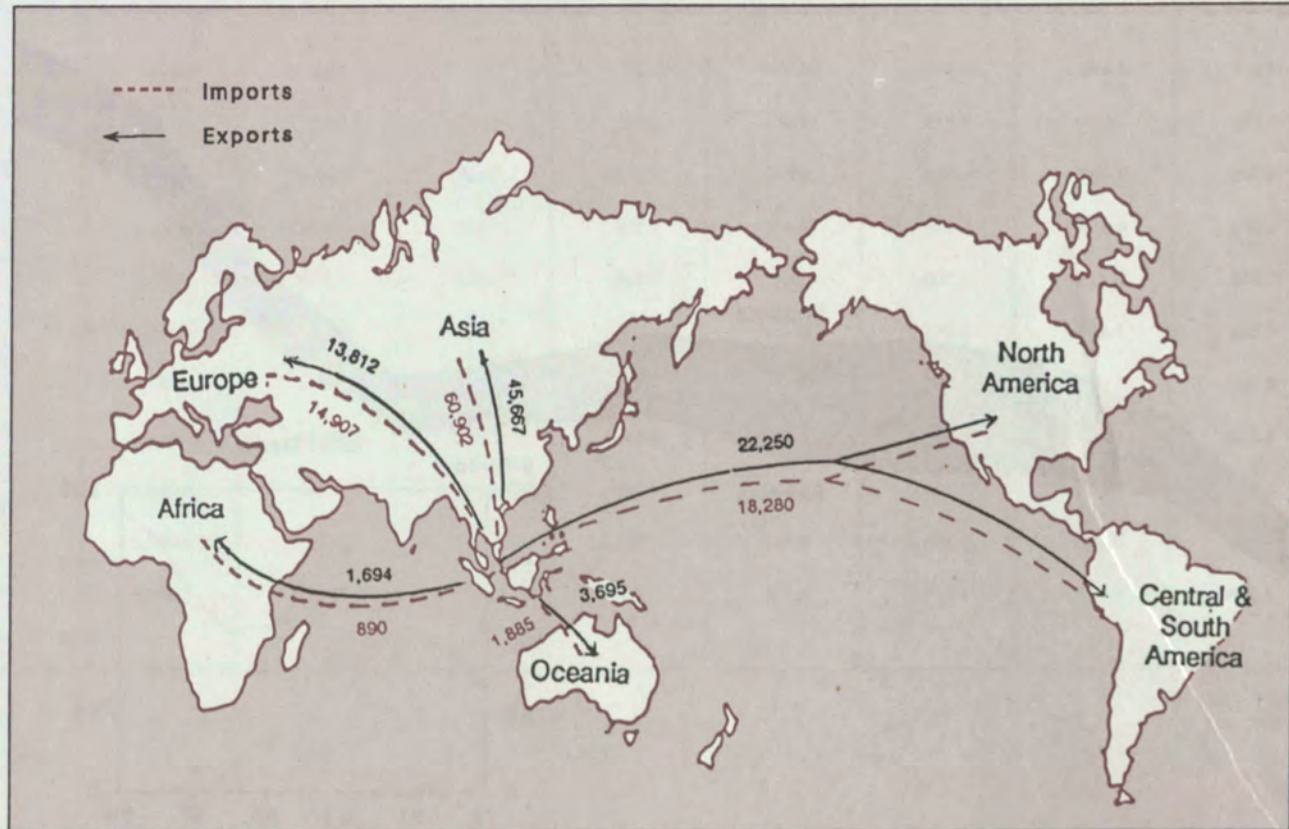
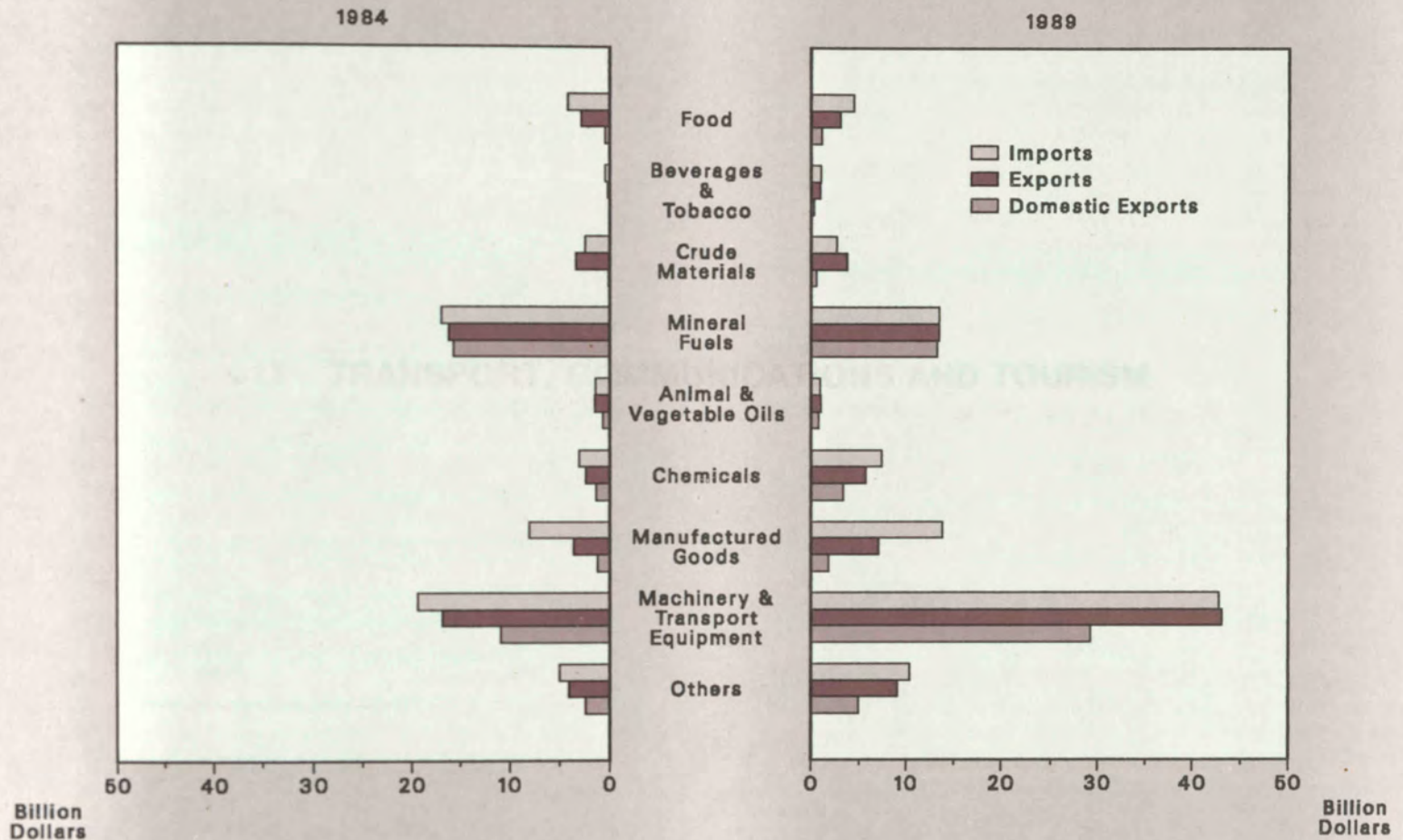


CHART 14

TRADE BY COMMODITY, 1984 & 1989



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 summaries of characteristics of visitor arrivals from major markets are available in the "Statistical Report on Visitor Arrivals to Singapore" published by the Singapore Tourist Promotion Board (STPB).

STPB's "Annual Statistical Report on Visitor Arrivals to Singapore" also provides statistical tables and charts on visitor arrivals and departures.

From 1 Feb 89, the Immigration Department no longer collects information on returning Singapore residents. Such data are therefore not available with effect from this issue.

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 high speed high capacity dual carriageway roads designed specifically to handle high volumes of traffic with a high degree of safety. Intersections with other intersecting 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, 1984-1989 (End of Period)

Tonnage Class (Gross Registered Tons)	1984		1985		1986		1987		1988		1989	
	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT
Total	1,555	6,864	1,406	6,622	1,265	7,262	1,229	7,247	1,243	7,328	1,359	8,134
Non-propelled or Below 100	824	520	727	475	614	407	562	377	588	395	665	470
100 & Above	731	6,344	679	6,147	651	6,855	667	6,870	655	6,933	694	7,664

Source : Marine Department

11.2 AGE DISTRIBUTION OF VESSELS REGISTERED IN SINGAPORE, DECEMBER 1989

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	342	2,402	446	1,960	284	2,439	216	1,088	57	221	9	17	5	10
Non-propelled or Below 100	258	198	273	175	77	61	48	30	6	4	2	2	1	-
100 to Below 500	21	5	66	16	47	13	43	12	15	6	2	1	-	-
500 to Below 1,000	4	3	15	10	24	20	25	23	10	9	1	1	1	1
1,000 to Below 5,000	8	16	24	55	33	101	47	129	11	22	3	6	3	9
5,000 to Below 10,000	4	35	14	117	35	264	23	190	7	56	1	7	-	-
10,000 & Above	47	2,145	54	1,587	68	1,980	30	704	8	124	-	-	-	-

Source : Marine Department

11.3 VESSELS LICENSED IN SINGAPORE, 1979-1989

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
1979	2,923	24	1,887	463	549	685	546	139
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

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, 1979-1989

Period	Arrivals		Departures	
	Number	'000 GRT	Number	'000 GRT
1979	25,783	229,675	25,380	226,800
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*	38,900	430,700	38,900	431,400

Notes : 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, 1984-1989

Flag	1984		1985		1986		1987		1988		1989*	
	Number	'000 GRT	Number	'000 GRT	Number	'000 GRT	Number	'000 GRT	Number	'000 GRT	Number	'000 GRT
All Flags	28,727	264,101	30,210	264,030	33,352	324,625	33,846	343,340	35,966	396,389	38,900	430,700
Bahamas	na	na	na	na	na	na	na	na	392	6,730	403	9,436
China	800	8,945	818	10,079	1,092	13,706	1,066	13,201	1,159	14,431	1,230	15,197
Cyprus	132	2,404	146	2,729	264	5,494	453	9,391	783	14,237	734	13,599
Denmark	295	6,965	387	8,667	403	10,142	374	10,079	341	8,804	508	10,335
France	109	5,804	137	6,181	74	3,865	62	3,662	84	5,519	104	5,372
Germany, Fed Rep	271	5,633	249	4,935	286	5,209	301	4,596	277	5,153	368	6,996
Greece	528	11,015	510	10,964	658	16,676	634	15,171	657	16,616	597	15,241
Honduras	404	312	889	611	269	351	317	370	875	589	1,526	837
Hong Kong	na	na	na	na	na	na	na	na	303	8,027	272	7,472
India	320	6,196	317	6,362	403	6,917	337	7,016	295	6,267	256	5,712
Italy	58	1,652	63	1,558	54	1,593	51	1,674	63	2,175	78	3,028
Japan	1,489	22,888	1,583	21,231	1,753	32,265	1,604	35,866	1,340	34,562	999	31,696
Korea Rep	839	6,136	803	6,855	732	7,145	527	5,696	405	5,749	378	6,409
Liberia	1,547	39,870	1,444	38,661	1,753	46,188	1,882	50,413	2,054	56,431	2,199	61,514
Netherlands	366	6,510	395	6,047	378	5,798	378	6,565	355	8,284	329	7,883
Norway	249	9,120	234	8,847	241	9,128	158	6,246	250	8,782	563	15,316
Panama	5,414	32,990	5,282	31,292	6,594	41,342	6,870	47,928	7,226	56,889	7,690	64,751
Poland	129	1,535	117	1,425	125	1,536	115	1,461	142	2,016	132	1,916
Singapore	4,415	13,519	4,651	14,647	5,028	18,294	4,821	21,847	4,860	26,262	5,276	29,664
Taiwan	234	4,321	246	5,318	290	6,595	357	7,928	451	11,664	536	13,469
Turkey	11	298	4	47	15	180	57	812	42	794	61	1,056
United Kingdom	639	19,913	621	15,622	653	18,692	296	10,183	167	6,014	186	6,909
United States	386	4,240	397	6,051	344	6,477	243	4,020	363	8,838	342	9,746

Note : See note to Table 11.4.

Source : Port of Singapore Authority

11.6 INWARD SEA CARGO HANDLED, 1979-1989

Thousand Freight Tonnes

Period	Total	General Cargo		Bulk Cargo	
		Containerised	Conventional	Oil	Others
1979	48,503.0	5,447.6	7,007.3	32,679.2	3,368.9
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*	97,377.0	31,750.0	9,318.0	51,908.0	4,401.0

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

Source : Port of Singapore Authority

11.7 OUTWARD SEA CARGO HANDLED, 1979-1989

Thousand Freight Tonnes

Period	Total	General Cargo		Bulk Cargo	
		Containerised	Conventional	Oil	Others
1979	34,634.5	4,812.0	8,739.6	20,626.3	456.6
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*	75,615.0	33,440.0	8,277.0	32,512.0	1,386.0

Note : See note to Table 11.6

Source : Port of Singapore Authority

11.8 CONTAINERISED CARGO HANDLED BY COUNTRY/AREA, 1984-1989

Thousand Freight Tonnes

Country/Area	1984		1985		1986		1987		1988		1989*	
	Inward	Outward	Inward	Outward	Inward	Outward	Inward	Outward	Inward	Outward	Inward	Outward
All Countries/Areas	11,829.2	10,271.5	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	33,440.0
South East Asia	2,171.9	2,623.9	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
North East Asia	3,662.4	2,380.8	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
China	9.7	4.1	32.0	52.3	122.3	62.0	145.8	72.1	126.7	127.8	182.9	212.6
Hong Kong	809.1	985.3	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
Japan	1,612.3	617.9	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
Taiwan	1,045.6	615.1	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
S Korea	185.7	158.4	193.5	125.0	341.8	235.3	481.3	346.7	586.1	391.5	645.1	483.0
South Asia	179.9	455.0	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
India	98.1	213.6	144.7	394.3	238.4	417.9	313.3	401.6	613.0	587.6	811.1	910.4
Bangladesh	18.6	25.9	43.2	79.2	65.2	143.5	132.2	213.6	301.6	336.9	425.9	634.9
Sri Lanka	46.8	116.2	72.1	136.8	110.9	204.0	139.8	276.1	288.2	401.1	193.5	421.8
Pakistan	16.3	99.3	73.1	85.3	190.6	116.7	185.5	164.0	382.8	239.0	363.2	285.2
West Asia	101.5	766.4	126.0	724.5	307.1	888.9	423.6	1,158.2	531.8	1,495.5	746.2	1,878.4
United Arab Emirates	11.4	240.2	20.8	242.5	99.0	366.1	172.2	468.8	210.9	614.5	373.6	759.1
Saudi Arabia	2.3	259.5	31.2	199.5	119.5	211.3	145.6	295.2	183.4	369.3	223.7	484.6
Africa	161.0	263.3	187.7	191.7	400.8	325.4	244.1	338.9	273.6	516.3	382.2	655.6
EEC	2,981.5	1,525.9	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
Italy	456.4	136.3	348.7	161.7	325.0	193.7	286.3	239.4	430.8	393.1	574.4	557.1
France	374.6	242.8	479.6	242.6	366.0	381.3	407.0	423.1	460.2	560.4	516.1	662.3
W Germany	798.2	418.5	749.7	461.9	741.3	675.4	992.8	801.6	1,285.3	1,066.6	1,394.1	1,399.4
Netherlands	639.3	310.3	618.5	398.7	670.7	516.4	822.2	608.6	985.2	789.0	1,210.1	1,160.4
United Kingdom	487.3	340.9	519.6	360.0	548.0	450.0	627.2	542.0	716.9	744.4	745.1	1,034.4
Belgium-Luxemburg	217.7	60.3	207.5	75.7	251.4	144.1	354.1	225.4	279.2	279.2	402.3	266.4
Spain	-	-	-	-	67.2	90.9	115.7	160.1	230.2	279.3	332.7	353.8
Other Europe	309.4	161.7	230.3	160.1	128.6	91.6	264.5	195.7	270.2	286.8	319.4	415.2
USSR	6.4	49.8	6.0	12.6	2.2	25.2	65.7	109.1	102.1	174.1	152.4	265.3
Oceania	636.5	676.5	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
Australia	543.5	559.1	521.1	520.4	671.9	611.2	905.8	713.3	938.5	982.9	1,023.4	1,204.8
New Zealand	81.1	74.1	75.6	71.7	48.6	71.9	85.9	105.0	115.5	122.8	107.1	172.3
Papua New Guinea	11.4	35.4	5.9	35.6	24.5	40.5	13.1	57.5	13.1	104.8	6.2	151.3
North America	1,430.3	1,012.7	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
Canada	7.9	5.0	38.3	17.8	104.2	45.0	144.2	66.4	182.1	68.9	199.1	102.9
USA	1,422.4	1,007.7	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
Central & South America	4.8	8.8	4.8	7.2	5.4	37.4	13.6	46.8	25.0	46.0	95.6	200.1

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, 1987-1989

Thousand Freight Tonnes

Country/Area	1987		1988		1989	
	Inward	Outward	Inward	Outward	Inward	Outward
All Countries/Areas	46,198.9	27,398.5	52,834.5	30,667.1	51,908.0	32,512.0
South East Asia	6,660.8	8,666.8	7,661.5	10,804.1	7,758.7	11,382.5
North East Asia	6,544.7	13,641.2	6,225.4	14,275.0	5,161.9	15,280.9
China	5,177.4	1,171.6	5,535.8	1,394.0	4,093.7	2,200.7
Hong Kong	65.8	4,068.2	36.5	4,809.4	190.7	5,232.4
Japan	227.9	7,420.7	95.4	7,247.0	639.1	6,464.9
S Korea	653.2	560.4	285.0	351.2	79.6	524.7
Taiwan	420.4	417.2	272.7	472.8	158.8	840.6
South Asia	966.5	708.6	403.4	598.3	538.3	791.7
India	653.7	235.9	99.6	191.8	64.7	412.2
Sri Lanka	112.7	106.8	167.7	88.3	96.3	191.4
West Asia	na	na	34,436.0	810.7	34,133.0	815.5
Bahrain	2,031.1	-	2,224.3	59.3	2,022.0	84.4
Iran	3,209.7	158.0	3,178.3	329.7	3,109.6	202.3
Iraq	326.9	-	407.6	23.4	-	-
Kuwait	5,895.9	0.8	6,222.0	-	5,691.1	-
Saudi Arabia	11,717.9	9.2	16,097.2	208.7	15,574.3	480.7
United Arab Emirates	2,587.8	21.5	3,516.3	30.1	5,302.3	9.6
Africa	na	na	228.5	96.6	491.0	148.5
EEC	na	na	192.8	75.3	344.3	36.1
Other Europe	na	na	1,454.4	148.3	139.5	28.5
Oceania	1,126.7	1,974.6	1,502.2	2,434.5	1,061.9	2,685.1
Australia	1,038.3	981.3	1,451.9	1,551.7	1,042.2	1,585.9
New Zealand	51.3	31.5	-	24.0	-	5.6
North America	593.2	1,837.2	716.6	1,424.3	534.1	1,100.9
USA	588.2	1,199.7	716.6	947.2	534.1	1,100.9
Central & South America	9.7	-	13.6	-	408.6	97.8

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

Source : Port of Singapore Authority

11.10 CIVIL AIRCRAFT LANDINGS, PASSENGERS AND MAIL, 1979-1989

Year	Aircraft Landings	Passengers			Mail	
		Arrival	Departure	In Transit	In-coming	Out-going
	Number	Persons			Tonnes	
1979	37,009	2,720,180	2,710,067	1,064,077	3,619	3,798
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

Note : Figures for 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, 1984-1989

Tonnes

Region/Country of Origin or Destination	1984		1985		1986		1987		1988		1989	
	Discharged	Loaded	Discharged	Loaded	Discharged	Loaded	Discharged	Loaded	Discharged	Loaded	Discharged	Loaded
TOTAL	163,726	134,211	167,388	132,631	192,624	160,184	222,160	196,937	263,639	248,868	297,198	280,412
South East Asia	42,102	41,771	41,142	40,161	47,888	38,587	61,838	43,027	77,668	59,149	92,484	68,452
Malaysia	8,174	14,619	7,499	14,252	10,004	12,566	12,617	13,655	15,917	15,125	17,562	17,350
Philippines	3,884	3,648	3,476	3,686	3,248	3,810	4,055	4,990	4,423	5,419	3,923	5,988
Thailand	13,770	6,161	15,506	6,057	17,664	7,015	21,093	9,402	22,599	16,070	26,427	20,209
North East Asia	46,269	29,168	46,021	29,290	57,603	38,663	66,112	51,859	79,912	69,529	88,208	83,782
Hong Kong	11,235	9,135	11,152	8,901	13,992	10,481	14,603	14,527	15,566	18,827	16,147	22,617
Japan	18,214	12,970	19,078	12,442	22,205	17,168	27,763	22,920	35,934	32,423	38,431	37,629
Taiwan	12,645	2,493	11,353	2,660	15,270	4,229	15,770	5,956	18,274	7,109	18,878	7,132
South Asia	6,466	8,087	6,572	8,161	9,160	9,049	12,879	11,447	14,256	13,816	18,017	15,038
India	3,748	4,041	4,220	4,590	5,457	4,698	8,749	6,223	9,359	7,545	11,652	8,319
West Asia	2,859	4,281	1,483	3,791	1,632	4,444	1,345	5,526	2,060	6,014	2,448	6,363
Oceania	21,894	12,397	27,678	12,363	31,402	16,509	29,882	19,185	28,893	23,597	29,480	28,466
Australia	18,321	9,397	23,459	9,448	27,760	13,201	26,828	15,044	26,082	19,174	26,430	22,446
New Zealand	3,470	2,662	4,098	2,494	3,508	2,857	2,871	3,598	2,541	3,264	2,807	4,679
Europe	30,643	26,697	29,925	27,455	30,323	37,710	34,794	46,918	41,315	52,945	47,594	54,400
France	2,022	2,446	1,986	2,529	2,124	2,888	2,904	3,816	2,424	3,449	2,359	3,055
Germany, Fed Rep	2,721	3,243	2,905	3,040	2,929	4,332	2,938	4,479	3,114	4,026	3,745	4,127
Netherlands	6,360	5,633	6,105	5,452	4,946	7,243	5,588	9,718	7,716	10,077	8,468	9,543
Scandinavia	2,669	1,400	2,756	1,224	2,564	1,973	2,467	2,603	3,554	2,460	6,133	3,479
Switzerland	2,729	3,219	3,193	3,463	3,379	3,625	3,993	3,403	3,338	3,913	3,310	3,062
United Kingdom	3,010	6,123	2,796	6,670	3,059	8,851	4,614	9,826	7,074	11,771	8,995	13,172
North America	13,493	11,782	14,432	11,084	14,238	14,620	14,811	17,595	18,880	20,912	17,986	20,644
United States	13,493	11,782	14,294	11,017	14,067	14,463	14,737	17,354	18,259	19,942	16,831	19,165
Other Regions	-	28	135	326	378	602	500	1,379	653	2,906	980	3,267

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, 1984-1989

Number

Region/Country of Embarkation or Disembarkation	1984		1985		1986		1987		1988		1989	
	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures
TOTAL	4,180,752	4,221,117	4,323,587	4,397,908	4,445,575	4,489,692	5,017,163	5,027,601	5,686,450	5,719,996	6,490,959	6,482,278
South East Asia	2,219,844	2,183,905	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
ASEAN	2,218,508	2,181,639	2,201,755	2,191,251	2,135,769	2,132,581	2,377,236	2,344,952	2,691,149	2,634,091	3,062,830	2,979,545
North East Asia	788,661	792,226	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
Hong Kong	402,072	382,020	417,847	395,063	436,638	402,003	465,033	434,589	449,992	427,977	452,084	441,697
Japan	260,915	275,998	292,770	305,176	293,489	304,056	375,224	382,762	476,344	485,896	639,064	648,364
Taiwan	97,709	105,825	95,990	96,324	100,420	96,586	120,014	118,127	134,804	141,812	164,283	162,832
South Asia	216,909	233,580	226,473	254,058	290,639	315,477	339,243	350,837	340,938	345,091	354,699	352,781
India	129,582	143,329	154,722	171,218	186,261	203,145	223,527	235,864	216,257	222,044	221,110	222,133
Pakistan	12,129	14,201	16,545	19,278	22,420	24,022	29,256	27,273	26,965	27,160	22,928	24,686
Sri Lanka	61,033	61,606	31,491	33,750	58,683	61,159	51,281	50,852	55,830	51,392	64,043	58,266
West Asia	91,745	99,333	90,734	97,260	75,607	69,357	66,731	66,683	68,966	68,715	68,217	70,231
Oceania	391,175	421,294	425,402	465,093	489,188	546,796	557,430	610,595	675,654	723,307	755,295	808,808
Australia	329,238	352,676	354,005	390,631	411,567	467,707	467,769	515,890	571,726	615,899	634,435	684,861
New Zealand	51,286	57,825	57,103	60,836	62,922	65,411	74,880	79,557	84,752	88,220	97,779	102,729
Europe	398,917	406,010	447,414	452,053	478,139	476,907	526,400	523,982	616,325	659,868	718,990	736,410
France	27,706	31,644	31,499	34,833	31,136	34,220	30,263	35,061	32,824	38,441	37,408	40,900
Germany, Fed Rep	43,485	44,407	41,537	47,545	46,150	53,684	47,704	57,926	68,653	74,119	89,503	88,838
Netherlands	59,683	54,620	63,592	56,072	60,768	53,945	62,062	54,148	74,364	68,851	81,440	75,528
Scandinavia	20,736	23,869	24,381	28,357	26,192	29,318	29,175	29,679	33,153	34,249	35,285	36,862
Switzerland	32,005	38,882	31,380	41,409	31,360	38,065	36,796	42,829	46,081	52,570	53,684	58,009
United Kingdom	146,884	131,267	177,613	156,220	193,465	170,504	211,118	185,586	228,418	237,541	256,542	246,455
North America	72,864	83,666	67,704	77,340	74,552	79,453	93,012	94,722	112,017	115,461	127,603	136,515
United States	72,864	83,666	66,111	75,505	72,337	77,365	91,022	92,919	105,053	107,205	111,605	116,082
Other Regions	637	1,103	12,556	14,469	20,664	20,309	36,643	33,894	44,357	41,961	55,267	53,499

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, 1979-1989
(By Air, Sea and Land)

Thousand

Region/Country of Residence	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	2,247.1	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
Americas	148.6	172.0	185.3	186.7	204.1	213.9	219.0	231.7	260.6	281.8	316.1
Canada	17.9	20.9	24.2	24.9	27.8	26.9	31.0	32.6	36.6	42.6	55.3
USA	118.7	135.8	143.6	150.7	167.4	176.9	176.3	188.2	211.4	226.8	248.0
Asia	1,429.8	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
ASEAN	909.3	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
Hong Kong	62.7	82.5	85.8	92.9	92.9	98.5	97.7	104.8	125.1	124.1	147.5
India	70.4	85.5	116.9	121.5	154.4	192.7	218.5	236.6	243.5	203.7	194.1
Japan	250.3	287.4	354.8	378.5	370.6	369.5	377.7	404.3	541.4	682.4	841.4
Korea	12.2	15.3	22.1	34.0	37.4	36.0	31.0	30.4	36.6	55.2	87.7
Pakistan	11.0	15.1	15.4	14.4	15.7	19.1	20.9	26.1	33.5	33.8	33.9
Saudi Arabia	13.9	18.5	20.2	21.7	20.7	21.8	20.9	19.3	19.5	20.9	20.9
Sri Lanka	13.5	15.5	21.0	21.2	23.1	25.7	25.2	28.1	28.4	38.2	50.8
Taiwan	51.7	56.3	55.3	65.1	68.0	80.3	82.8	100.4	148.4	152.1	223.8
Europe	375.9	413.5	447.5	424.5	418.1	445.0	468.4	520.1	619.3	810.7	901.1
Austria	5.3	5.7	7.6	8.2	7.8	8.3	9.3	12.1	14.8	19.4	21.8
Belgium & Luxembourg	9.2	9.3	10.0	8.3	8.9	9.6	9.5	11.1	12.2	15.7	16.8
France	42.0	40.2	44.7	41.1	37.1	42.2	41.4	43.6	47.5	63.1	68.8
Greece	5.8	7.1	6.9	6.7	5.4	7.2	9.0	12.4	19.0	23.9	20.1
Italy	22.8	26.3	25.3	23.0	21.5	25.6	26.0	30.5	37.3	53.5	55.0
Netherlands	42.2	47.1	49.6	41.4	40.6	40.2	40.5	42.7	48.2	63.9	70.9
Scandinavia	26.6	32.1	36.1	36.0	37.2	40.8	45.4	53.6	67.9	86.9	95.2
Switzerland	19.3	22.0	25.5	26.2	25.4	27.9	32.2	35.6	40.4	56.3	62.6
United Kingdom	117.3	128.4	145.0	149.9	150.4	150.2	158.4	170.1	195.2	253.6	281.3
West Germany	63.5	73.0	79.8	68.1	67.3	72.8	73.9	78.4	93.3	118.5	140.6
Soviet Union & Eastern Europe	11.4	9.9	6.1	4.6	5.6	8.6	11.3	16.9	26.2	30.0	39.3
Oceania	275.5	311.8	326.0	351.2	325.4	359.2	368.8	390.4	421.2	458.0	558.9
Australia	206.4	239.2	258.6	282.0	259.4	291.1	300.8	315.9	330.2	361.5	450.2
New Zealand	60.8	63.0	58.0	59.9	57.0	58.9	57.5	62.3	76.5	79.1	86.7
Others	17.4	18.5	16.3	15.3	13.0	14.2	14.1	17.7	33.4	48.9	57.6
Africa	8.7	10.5	12.6	12.6	12.5	13.5	13.0	15.9	31.5	46.6	55.0

Note : Exclude arrivals of Malaysians by land.

Source : Singapore Tourist Promotion Board

11.14 VISITOR ARRIVALS BY NATIONALITY, 1979-1989
(By Air, Sea and Land)

Thousand

Nationality	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	2,247.1	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
Americas	180.0	206.1	221.9	226.4	241.8	247.1	248.8	260.3	286.6	307.8	344.6
Canada	22.5	26.5	30.6	32.3	35.3	34.1	38.0	39.7	43.8	49.5	60.9
USA	144.6	163.5	172.4	181.1	196.2	201.1	197.8	208.3	228.5	243.5	267.9
Asia	1,297.6	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
ASEAN	775.0	879.4	966.5	1,036.5	928.3	927.5	890.4	882.8	959.6	1,045.5	1,141.4
India	124.5	149.6	173.8	168.4	202.7	237.7	259.0	279.1	284.0	242.1	234.8
Japan	261.0	298.6	365.2	389.1	381.4	383.3	390.2	417.9	556.6	700.3	860.5
Korea	13.4	16.9	28.3	37.3	41.9	40.7	35.7	35.5	43.3	62.4	95.7
Pakistan	12.9	17.1	17.7	16.8	18.0	21.5	23.0	28.3	36.0	36.6	36.9
Sri Lanka	16.9	18.8	24.3	24.1	25.8	28.4	28.3	32.0	32.7	43.0	57.9
Taiwan	59.0	63.0	58.5	67.6	69.9	84.2	87.0	104.0	152.8	155.7	227.5
Saudi Arabia	6.7	8.7	9.4	9.5	8.9	10.5	9.8	10.1	11.6	12.1	12.1
United Arab Emirates	0.8	0.8	1.2	1.5	1.2	1.2	1.0	1.5	2.1	2.5	2.7
Europe	514.9	573.8	612.8	602.3	587.9	619.3	638.9	699.7	820.1	1,019.2	1,132.7
Belgium & Luxembourg	8.7	8.8	9.6	8.2	8.7	9.3	9.2	10.9	11.9	15.3	16.0
France	50.5	49.3	53.2	49.5	44.8	50.2	49.5	53.4	60.5	79.1	85.6
Germany	68.7	78.7	85.1	73.3	72.7	78.6	79.3	84.8	99.9	125.7	147.9
Italy	23.9	27.3	26.4	24.3	23.0	27.4	27.9	32.4	39.5	56.4	58.1
Netherlands	51.3	56.6	59.0	50.9	50.7	50.0	50.0	52.1	58.0	74.6	82.0
Scandinavia	30.4	36.5	40.9	41.1	42.9	46.1	50.7	59.9	74.1	93.2	103.0
Switzerland	19.2	21.9	25.1	25.8	24.7	26.9	30.8	34.3	38.9	53.3	59.7
United Kingdom (incl. Dependencies)	224.7	254.4	276.4	292.4	284.5	287.2	291.9	309.0	350.0	411.5	459.1
U.K. Dependency (Hong Kong)	41.0	54.2	58.3	64.1	60.1	62.2	61.0	64.7	77.2	76.2	89.7
Soviet Union & Eastern Europe	12.7	10.7	6.7	5.5	6.4	10.0	12.9	18.5	28.4	32.3	40.4
Oceania	240.7	275.5	287.5	305.8	284.2	310.9	319.4	335.5	359.0	386.6	476.6
Australia	187.6	216.9	231.8	246.5	227.1	252.2	261.9	273.3	283.4	306.7	383.7
New Zealand	50.9	56.1	52.9	56.7	54.4	56.2	54.2	58.8	71.8	74.7	83.9
Others	13.9	19.4	29.2	35.5	25.5	32.0	32.3	37.5	57.0	70.1	83.9
Africa	6.9	8.5	10.3	10.6	10.8	11.3	10.9	13.7	27.1	40.1	48.1

Note : Exclude arrivals of Malaysians by land.

Source : Singapore Tourist Promotion Board

11.15 VISITOR ARRIVALS BY a) SEX AND b) AGE GROUP, 1979-1989
(By Air, Sea and Land)

Thousand

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	2,247.1	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
Sex											
Males	1,507.8	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
Females	739.3	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
Age Group (Years)											
Under 20	210.5	243.0	264.8	277.8	251.1	267.1	276.7	291.3	332.4	367.9	425.4
20 - 29	492.1	565.5	644.2	687.0	653.9	668.0	681.8	712.8	820.8	937.8	1,078.4
30 - 39	615.1	703.9	773.7	818.2	799.1	835.9	839.0	868.3	971.2	1,084.4	1,216.7
40 - 49	439.7	499.7	545.1	568.3	558.4	593.9	593.6	632.2	735.8	865.7	1,013.1
50 - 59	302.0	337.9	359.2	363.3	348.1	366.3	368.9	394.5	463.5	534.8	635.4
60 & Over	175.2	199.2	220.9	228.3	231.2	248.1	258.6	279.2	340.0	380.0	447.5
Not Stated	12.5	12.9	14.4	13.8	11.8	12.1	12.4	12.8	15.0	15.5	13.5
Average Age (Years)	37.5	37.4	37.2	37.0	37.3	37.5	37.4	37.6	37.8	37.9	37.7

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, 1979-1989
(By Air, Sea and Land)

Thousand

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	2,247.1	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
Purpose of Visit											
Holiday	1,427.0	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
Business	265.1	300.9	333.9	365.4	377.6	407.2	395.7	403.5	456.4	531.9	610.1
Business & Holiday	157.1	166.1	169.9	166.8	160.3	175.7	162.4	159.9	172.2	187.2	205.3
In Transit	242.3	250.7	255.2	260.7	279.4	288.3	293.0	289.5	305.8	352.9	432.7
Others	155.5	200.1	204.6	221.1	243.2	264.5	275.5	299.1	300.9	327.8	480.7
Type of Accommodation											
Hotel	1,574.8	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
Residence of Friends/Relatives	396.6	429.0	462.2	470.1	453.9	463.6	447.7	416.6	421.2	447.7	511.7
Others	137.9	179.1	206.4	214.4	242.1	238.2	259.9	274.8	289.1	314.4	279.6
No Accommodations Required	137.8	148.2	147.0	156.3	162.6	180.6	177.9	175.2	178.9	191.6	294.1

Note : See note to Table 11.15.

Source : Singapore Tourist Promotion Board

11.17 VISITOR ARRIVALS BY LENGTH OF STAY, 1979-1989
(By Air, Sea and Land)

Thousand

Length of Stay (Days)	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	2,088.4	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
Under 1	214.8	230.7	247.4	267.9	278.9	287.0	290.8	301.1	335.6	384.7	446.9
1	405.9	458.7	493.4	526.5	542.1	595.4	636.5	644.2	717.1	823.2	934.7
2	466.0	511.1	556.6	588.8	563.6	596.4	619.5	676.7	828.2	918.6	1,074.7
3	320.9	382.3	432.1	457.7	414.5	437.5	450.6	480.6	593.2	708.2	808.3
4 - 7	417.1	500.1	555.7	585.7	526.4	567.4	581.0	627.5	682.4	760.9	876.5
8 - 14	171.4	197.2	212.0	232.1	222.7	206.5	191.5	198.6	221.1	249.0	279.6
15 & Over	92.3	102.3	110.1	115.7	112.7	123.7	113.6	108.9	113.6	128.1	137.1
Average Length of Stay (Days)	3.7	3.7	3.7	3.8	3.7	3.6	3.5	3.5	3.4	3.4	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, 1979-1989

Year	Visitors 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	
1979	2,247.1	72	11,404	85.4	7,304.6	14,414.9
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

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, 1979-1989

Kilometres

End of Year	Total Public Roads	Paved Road					Local Roads Unimproved
		Total	Expressways	Major Arterial Roads	Collector Roads	Local Roads Improved	
1979	2,289	1,961	28	280	144	1,509	328
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

Source : Public Works Department

11.20 MOTOR VEHICLES REGISTERED, 1979-1989

Number

End of Year	Total	Motor Cars		Buses	Goods Vehicles	Motor-cycles & Scooters	Others ²
		Private	Public ¹				
1979	338,729	143,402	10,277	6,217	67,201	108,051	3,581
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

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, 1979-1989

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
1979	234	13,223	100	2,692	21	851	66	5,001	38	4,497	9	182
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

Source : Police Department

11.22 POSTAL ARTICLES HANDLED, 1979-1989

Thousand

Year	Total	Ordinary Mail			Registered Mail	Parcel Mail	Local Urgent Mail	Express Mail	Speedpost Mail
		Domestic	Surface	Air					
1979	412,935	257,814	36,519	102,183	13,935	1,636	142	687	19
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

Source : Singapore Telecom

11.23 TELECOMMUNICATIONS, 1979-1989

Thousand

Year	Outgoing Telegrams		Outgoing Telex Calls		International Telephone Calls	Total Number of Telephones Installed ²
	Peninsular Malaysia	Other Countries	Peninsular Malaysia	Other Countries		
1979	46	701	394	4,991	2,490	625
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

Source : Singapore Telecom

1 Exclude calls to Peninsular Malaysia.

2 End of Period.

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

CHART 15

SEA CARGO HANDLED, 1979-1989

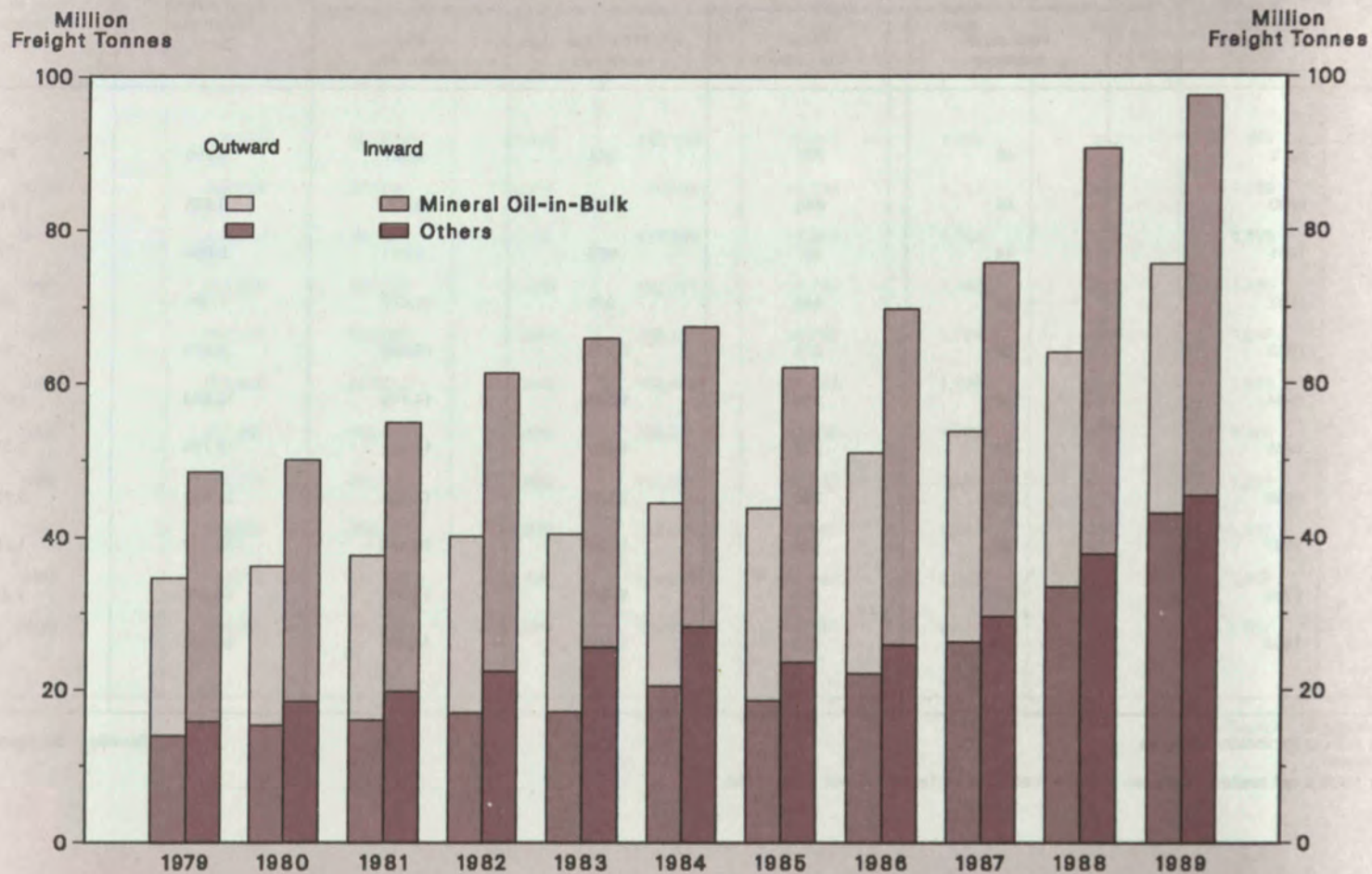


CHART 16
AIR CARGO HANDLED, 1979-1989

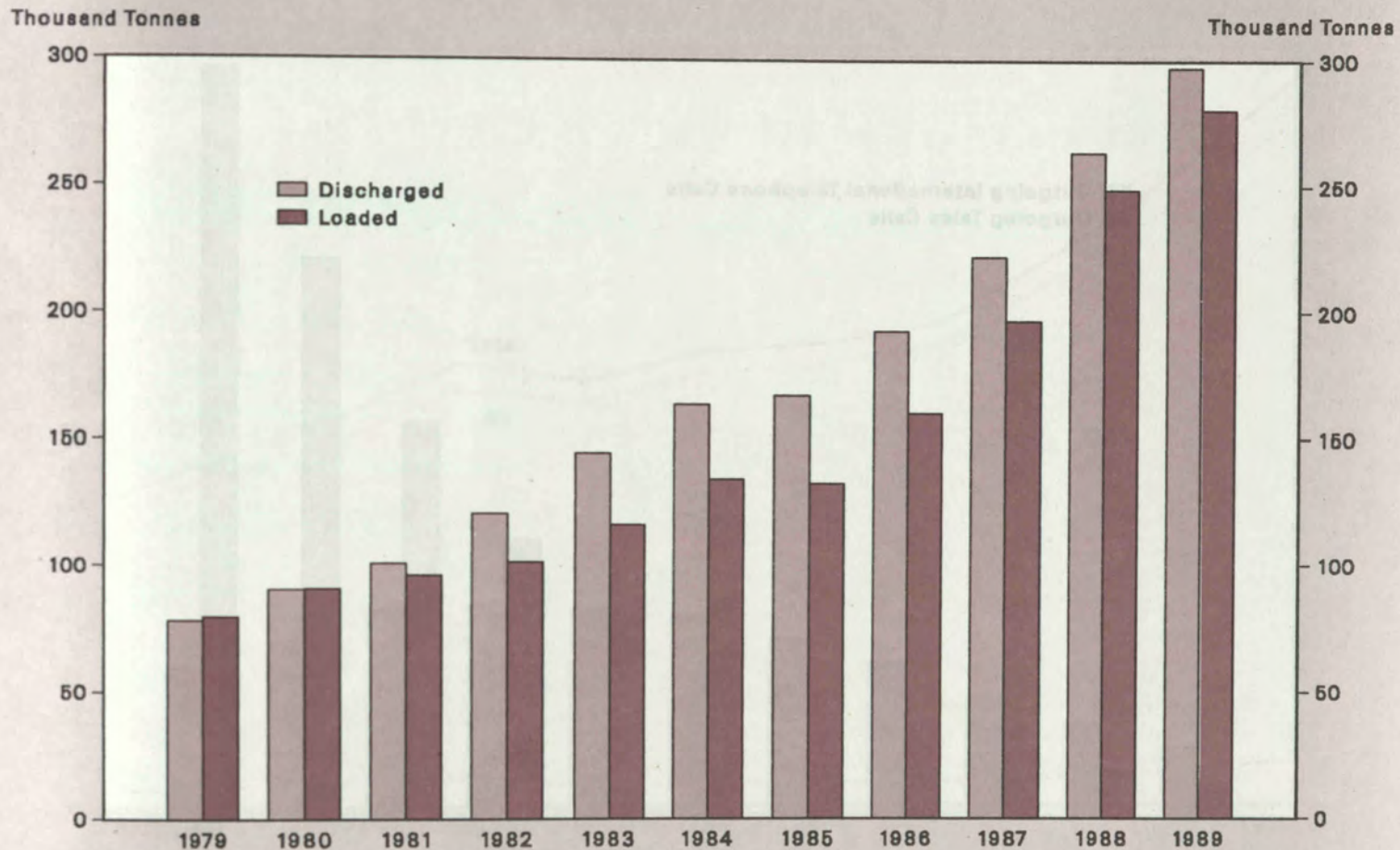


CHART 17

TELECOMMUNICATIONS, 1979-1989

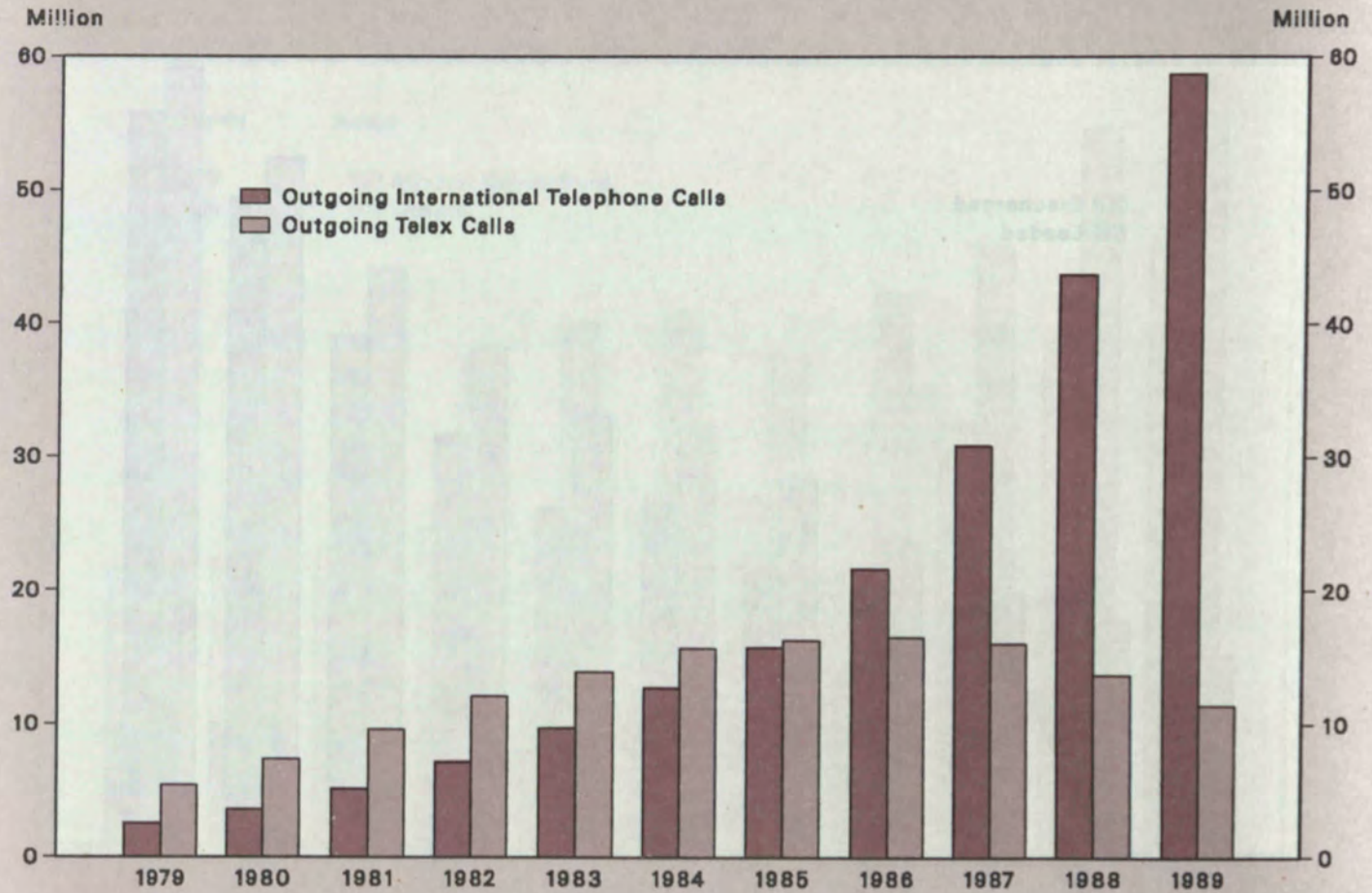


CHART 18

VISITOR ARRIVALS BY AIR AND SEA, 1979-1989

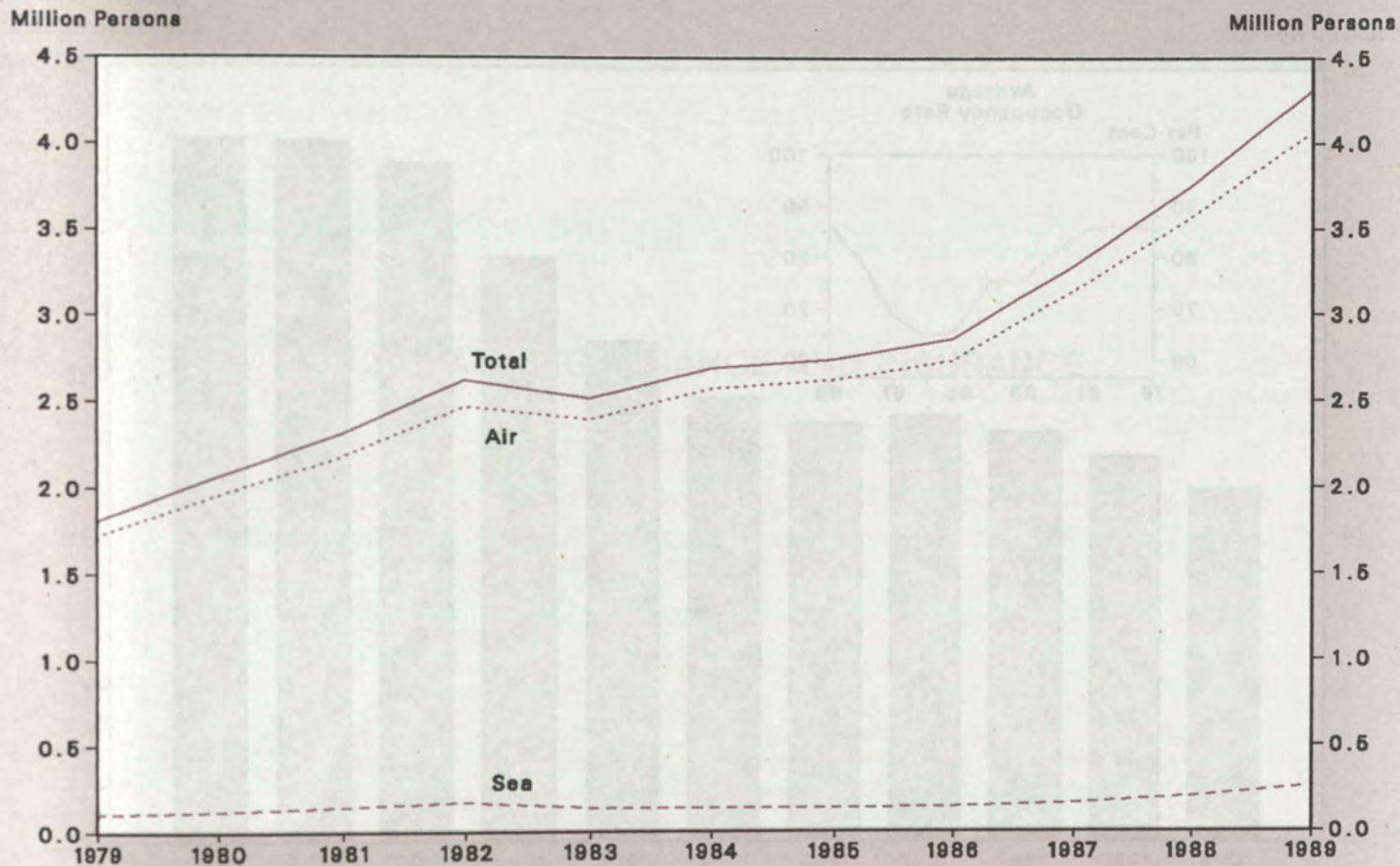
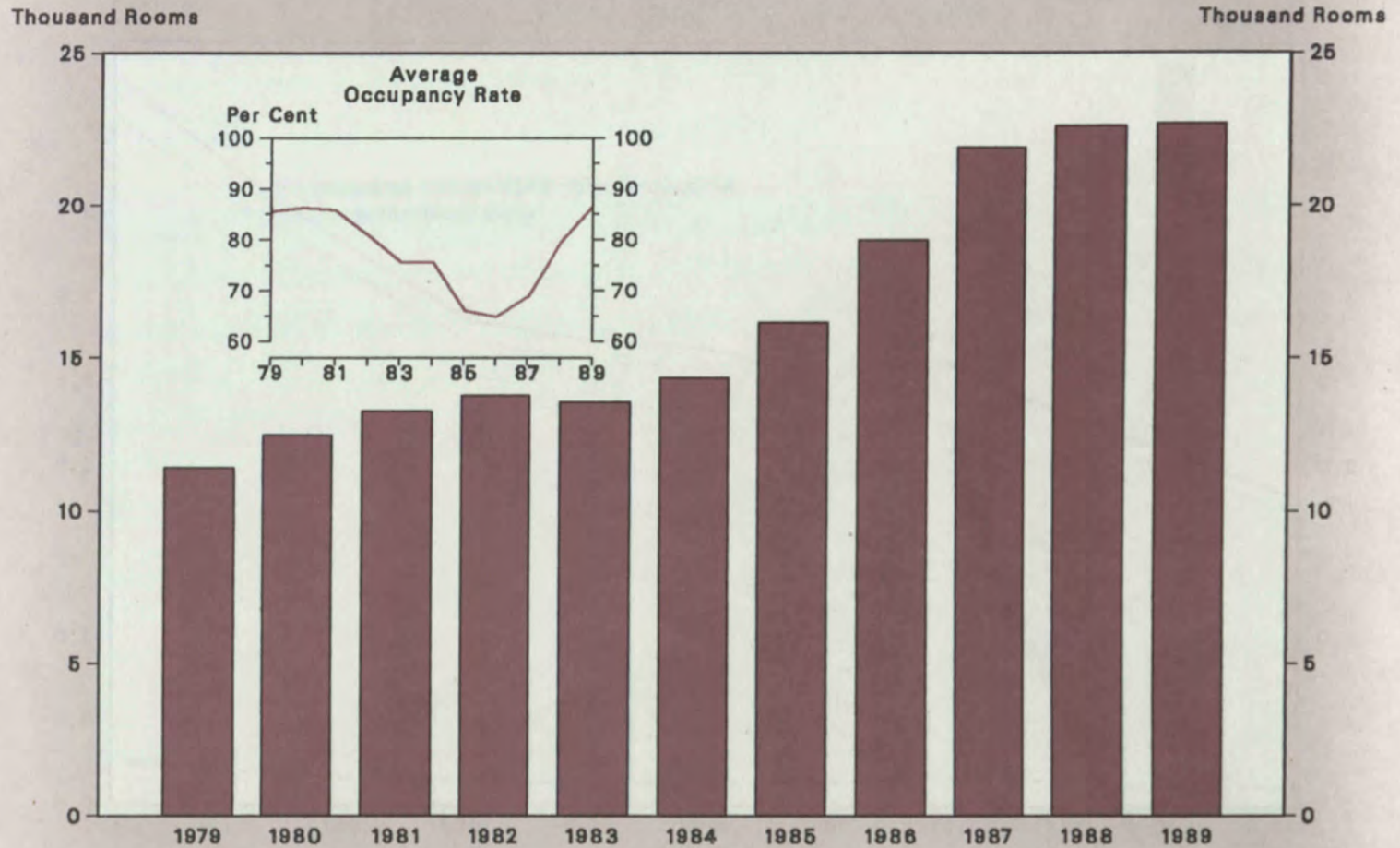


CHART 19

HOTEL ROOMS AND OCCUPANCY RATE, 1979-1989



12 BANKING, FINANCE AND INSURANCE

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 196 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 (POSB) 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 POSB are fully guaranteed by the government.

Central Provident Fund

Please see text on page 54.

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, 1979-1989

End of Year	Gross Circulation			Active Circulation ¹	Ratio of Active to Gross Circulation
	Total	Notes	Coins		
	Million Dollars				Per Cent
1979	3,181.2	3,021.9	159.3	2,941.2	92.5
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

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, 1979-1989

Million Dollars

Million Dollars

End of Period	Money Supply (M3)										
	Total (1) [(2) + (3) + (4)]	Net Deposits with Non-bank Financial Institutions ¹		Money Supply (M2)							
				Total (4) [(5) + (9)]	Quasi Money				Money Supply (M1)		
		Finance Companies (2)	Post Office Savings Bank (3)		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)
1979	16,646.2	1,501.1	2,245.6	12,899.5	7,193.4	5,557.5	261.4	1,374.5	5,706.1	2,941.2	2,764.9
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

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, 1979-1989 (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	
1979	780.2	2,672.2	1,257.0	1,415.2	41.5	2,055.1	-2,013.6	1,167.1	400.3	-188.8
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

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, 1979-1989

Million Dollars

End of Year	Total Foreign Reserves	Special Drawing Rights	Reserve Position In the International Monetary Fund	Gold & Foreign Exchange
1979	12,562.4	34.4	61.8	12,466.2
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

Source : The Monetary Authority of Singapore

12.5 EXCHANGE RATES, 1979-1989

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
1979	0.9937	2.1746	4.6154	1.1876	0.5113	0.9966	0.4493	6.0317	0.4351	2.4308
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

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

Source : The Monetary Authority of Singapore

12.6 ASSETS OF BANKS, 1979-1989
(End of Period)

Million Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
TOTAL	26,747.8	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
Cash	161.1	272.4	222.4	247.9	275.4	291.4	303.5	334.2	328.4	568.3	401.3
Amounts Due from Banks	5,646.6	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
In Singapore	1,986.6	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
Outside Singapore ¹	3,660.0	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
Balances with The Monetary Authority of Singapore	733.7	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
Money at Call with Discount Houses ²	695.7	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	166.2	127.8	89.0	76.9	136.5	133.1	105.0	134.2	135.5	145.8	283.0
Investments in Securities & Equities	2,060.5	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
In Singapore	2,009.5	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
Outside Singapore	51.0	69.2	72.7	123.6	140.4	142.2	192.6	360.4	254.7	247.2	280.7
Loans & Advances Including Bills Financing	16,007.0	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
Bills Discounted or Purchased	3,948.3	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
Payable outside Singapore	2,085.0	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
Payable in Singapore	1,863.3	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
Loans & Advances	12,058.7	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
All Other Assets	1,277.0	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

Source : The Monetary Authority of Singapore

1 Include Asian Currency Units.

2 Discount houses ceased operations in May 1987.

12.7 LIABILITIES OF BANKS, 1979-1989
(End of Period)

Million Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
TOTAL	26,747.8	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
Deposits of Non-bank Customers	12,178.4	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
Demand Deposits	3,244.3	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
Fixed Deposits	7,473.0	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
Savings Deposits	1,394.8	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
Other Deposits	66.3	70.1	83.4	90.2	103.3	108.0	120.7	154.0	244.6	306.9	407.7
S\$ Negotiable Certificates of Deposit Issued	515.0	331.9	404.5	428.0	471.6	300.7	263.6	696.4	896.8	992.6	1,421.7
Amounts Due to Banks	8,615.9	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
In Singapore	2,415.4	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
Outside Singapore ¹	6,200.5	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
All Other Liabilities	5,438.5	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

¹ Include Asian Currency Units.

Source : The Monetary Authority of Singapore

12.8 BANKS' LOANS AND ADVANCES TO NON-BANK CUSTOMERS BY INDUSTRY, 1979-1989
(End of Period)

Million Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total Loans and Advances including Bills Financing	16,007.0	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
Agriculture, Mining & Quarrying	79.7	83.6	144.2	151.2	132.0	155.0	147.4	101.5	111.2	81.4	78.8
Manufacturing	3,741.0	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
Building & Construction ¹	1,453.7	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
General Commerce	6,643.3	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
Transport, Storage & Communications	722.5	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
Financial Institutions	1,585.8	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
Professional & Private Individuals	900.8	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
Others	880.2	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

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, 1979-1989
(End of Period)

Million US Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total Assets	38,162.7	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
Loans to Non-bank Customers	8,483.9	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
Inter-bank Funds	28,093.7	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
In Singapore	1,100.4	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
Inter-Asian Currency Units	5,999.3	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
Outside Singapore	20,994.0	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
Other Assets	1,585.0	2,437.9	4,149.9	6,125.1	7,029.5	8,959.7	13,000.8	15,250.3	18,765.0	19,171.0	21,463.1
Total Liabilities	38,162.7	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
Deposits of Non-bank Customers	5,760.5	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
Inter-bank Funds	29,424.9	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
In Singapore	1,881.8	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
Inter-Asian Currency Units	5,999.4	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
Outside Singapore	21,543.6	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
Other Liabilities	2,977.2	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

Source : The Monetary Authority of Singapore

12.10 ASSETS AND LIABILITIES OF FINANCE COMPANIES, 1979-1989
(End of Period)

Million Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total Assets	2,472.8	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
Cash	3.2	4.5	5.0	6.8	8.5	8.3	10.3	9.0	10.8	11.0	13.9
Balances with The Monetary Authority of Singapore	105.7	126.0	170.9	217.2	267.5	313.9	288.4	286.7	271.1	307.2	407.5
Deposits with Banks & Other Institutions	368.7	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
Investments	111.3	100.5	114.6	120.4	139.8	165.2	151.7	153.2	455.8	518.4	562.0
Loans & Advances	1,827.9	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
Hire Purchase Finance	532.3	754.3	891.7	887.1	904.3	833.2	583.7	420.8	563.0	1,039.7	1,732.0
Housing Loans	551.6	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
Other Loans & Advances	744.0	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
Other Assets	56.0	72.0	90.1	131.7	152.0	162.0	169.1	235.4	216.1	205.5	206.3
Total Liabilities	2,472.8	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
Capital & Reserves	363.1	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
Deposits from Individuals & Institutions	1,812.4	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
Savings Deposits	62.8	65.2	75.9	112.3	171.8	209.2	278.8	332.4	325.9	315.0	308.1
Fixed Deposits	1,691.2	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
Other Deposits	58.4	94.4	137.9	294.5	412.7	413.8	428.5	315.9	427.3	478.1	569.0
Other Liabilities	297.3	477.8	661.1	830.2	917.0	844.8	789.9	910.8	1,166.7	1,404.1	1,420.1

Source : The Monetary Authority of Singapore

12.11 FINANCE COMPANIES' LOANS AND ADVANCES BY INDUSTRY, 1979-1989
(End of Period)

Million Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
TOTAL	634.8	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
Agriculture, Mining & Quarrying	-	-	-	-	0.6	0.9	1.1	0.9	0.8	0.5	1.4
Manufacturing	29.5	92.6	164.6	167.7	228.7	217.6	223.9	231.1	249.4	236.5	177.7
Building & Construction	148.8	118.9	174.1	451.4	790.8	923.7	898.3	810.1	808.7	852.5	695.2
General Commerce	166.4	190.1	217.1	260.3	274.0	269.6	286.6	276.8	273.5	245.4	336.2
Transport, Storage & Communications	38.3	45.9	74.7	94.1	91.8	82.6	58.2	44.1	39.2	49.9	99.3
Financial Institutions	-	-	-	197.4	231.5	377.7	330.4	262.4	229.9	293.2	437.9
Professional & Private Individuals	163.5	230.3	390.5	458.6	622.4	682.4	715.2	648.4	646.5	669.8	761.5
Others	88.3	146.5	289.7	133.9	192.0	186.7	186.0	176.0	224.0	262.2	244.4

Source : The Monetary Authority of Singapore

12.12 ASSETS AND LIABILITIES OF MERCHANT BANKS, 1979-1989
(End of Period)

Million Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total Assets	8,378.3	13,299.6	19,279.6	22,020.4	23,625.0	25,844.9	28,207.0	31,581.4	32,119.5	36,923.9	34,046.8
Amounts Due from Banks	4,599.8	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
In Singapore	42.8	61.8	201.3	260.4	218.5	189.4	332.1	370.7	472.6	491.4	523.6
Outside Singapore ¹	4,557.0	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
Loans & Advances to Non-bank Customers	3,497.6	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	11,360.4
Securities & Equities	136.3	234.9	391.5	815.2	1,209.8	2,056.6	4,989.0	6,405.9	5,914.1	8,250.3	8,298.0
Other Assets	144.7	301.8	529.2	574.2	518.5	773.6	727.7	857.9	1,276.5	1,499.7	1,330.9
Total Liabilities	8,378.3	13,299.6	19,279.6	22,020.4	23,625.0	25,844.9	28,207.0	31,581.4	32,119.5	36,923.9	34,046.8
Capital & Reserves	309.3	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	4,458.9
Amounts Due to Banks	7,217.8	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
In Singapore	839.8	178.1	347.8	317.1	581.5	750.2	709.3	483.6	678.4	710.6	895.7
Outside Singapore ¹	6,378.0	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
Borrowings from Non-bank Customers	678.8	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
Other Liabilities	172.4	462.8	475.1	611.6	569.4	839.3	811.0	1,179.9	1,861.5	3,067.7	2,178.5

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, 1979-1989
(End of Period)

Per Cent Per Annum

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Banks¹											
Prime Lending Rate	9.48	13.60	11.83	9.33	8.98	9.40	7.20	6.10	6.10	6.13	6.25
Deposit Rates											
3 Months	7.15	11.22	7.43	6.16	6.53	6.00	4.58	2.88	2.90	2.95	3.35
6 Months	7.40	10.92	8.40	6.55	6.55	6.35	4.70	3.03	3.11	3.33	3.86
12 Months	7.65	10.55	8.95	7.08	6.75	6.80	4.88	3.30	3.56	4.03	4.55
Savings Deposit Rate	6.38	9.52	7.90	6.43	6.30	6.53	5.18	3.08	3.03	2.83	2.98
Finance Companies											
Deposit Rates ²											
Up to 3 Months	8.10	12.20	12.40 ³	6.60	6.90	6.48	4.88	3.19	3.20	3.41	4.15
12 Months	7.60	9.90	11.50 ³	7.58	7.38	7.18	5.30	3.60	3.98	4.48	4.98
POSB Savings Deposit Rate for Amounts											
Up to \$100,000	6.00	8.50	9.50	7.00	6.50	6.75	5.25	3.25	3.25	3.00	3.25
Exceeding \$100,000	4.25	6.00	7.00	5.50	5.50	5.75	4.00	2.25	2.25	2.00	2.25

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, 1979-1989

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Number of Savings Accounts (End of Period)	1,710,552	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
Amount (\$ Million)											
Deposited	2,621.5	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
Withdrawn	2,240.2	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
Due to Account Holders (End of Period)	2,525.2	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*

Source : Post Office Savings Bank

12.15 CONTRIBUTIONS AND WITHDRAWALS OF CENTRAL PROVIDENT FUND, 1979-1989

	Million Dollars										
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
Amount											
Contributed	1,753.1	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	6,107.4
Withdrawn	629.3	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	3,663.5
Due to Members (End of Period)	7,515.5	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	36,051.5

Source : Central Provident Fund Board

12.16 WITHDRAWALS OF CENTRAL PROVIDENT FUND BY TYPE, 1979-1989

Year	Total	Approved Housing Schemes				Reached 55 Years of Age		Leaving Singapore & Malaysia Permanently ¹		Death		Medisave Scheme	Others ²
		Public Housing		Approved Residential Properties									
	\$Million	No. ³	\$Million ⁴	No. ³	\$Million ⁴	No.	\$Million	No.	\$Million	No.	\$Million		
1979	629.3	43,430	438.6	-	-	13,319	150.7	1,921	18.2	2,247	15.1	-	6.7
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*	3,663.5	42,497	1,343.9	12,180	1,071.2	26,892	619.3	5,025	161.5	3,964	54.2	178.2	235.2

1 Include Malaysians leaving Singapore permanently.

Source : Central Provident Fund Board

2 Include withdrawals under the Minimum Sum Scheme by persons who are physically/mentally incapacitated, for purchase of home protection insurance, shares of Singapore Bus Services (1978) Ltd, non-residential properties and approved shares and gold.

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

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

12.17 TURNOVER OF STOCKS AND SHARES, 1979-1989

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
1979	964.6	2,311.5	558.3	1,282.0	101.7	418.4	67.7	89.6	98.5	159.2	21.5	48.7	114.9	311.0	2.0	2.6
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	9,773.6	19,654.5	1,342.0	4,799.3	811.2	1,472.9	4,031.3	7,117.4	200.1	397.8	784.0	1,261.8	4,703.8	4,446.2

Source : Stock Exchange of Singapore

12.18 STOCK EXCHANGE OF SINGAPORE INDICES, 1979-1989
(1975 = 100)

Year	Industrial	Finance	Hotels	Properties	Mining	Plantation
1979	158.4	144.9	187.4	192.0	263.5	298.4
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

Note : Data are computed based on the share prices of all Singapore and Malaysia companies listed in the SES.

Source : Stock Exchange of Singapore

12.19 PLEDGES AT PAWNSHOPS, 1979-1989

Year	Pledges		Amount of Loans	
	Received	Redeemed	Given Out	Redeemed Including Interest
	Number		Million Dollars	
1979	2,006,025	1,891,252	305.4	291.3
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

Source : Registry of Pawnbrokers

12.20 LIFE INSURANCE POLICIES, 1979-1988

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
	Number									
Policies in Force (End of Period)	246,657	248,077	271,214	314,375	359,902	379,880	405,452	463,139	565,032	702,986
New Policies	61,707	59,174	49,539	70,374	78,212	57,013	63,712	92,819	138,821	181,167
Policies Matured or Discontinued	29,366	25,245	26,409	27,213	32,685	37,193	38,140	35,132	36,928	43,213
	Million Dollars									
Policies in Force										
Amount Insured (End of Period)	5,162.2	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
Premiums	143.2	170.0	198.0	250.4	305.3	332.5	363.5	424.3	538.5	695.3
New Policies										
Amount Insured	1,454.4	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
Premiums	36.7	40.1	43.5	70.3	79.0	60.6	67.6	97.7	150.9	200.9
Policies Matured or Discontinued										
Amount Insured	374.1	491.9	450.9	360.2	1,111.9	1,381.6	1,741.1	2,097.3	2,049.9	2,866.0
Premiums	10.9	14.2	15.5	17.9	28.0	33.5	36.6	36.8	36.7	44.1

Note : Prior to 1980, the lives insured under some group policies were included as policies.

Source : The Monetary Authority of Singapore

12.21 REVENUE AND EXPENDITURE ACCOUNTS OF LIFE INSURANCE FUNDS, 1979-1988

Million Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total Revenue	639.3	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
Balance of Revenue Account at Beginning of Year	461.0	537.1	649.2	776.6	926.9	1,087.7	1,282.6	1,462.9	1,720.7	2,060.3
Premiums	139.7	164.0	191.8	237.0	282.5	299.0	341.4	398.3	515.2	654.1
Net Interest, Dividends & Rents	36.6	47.1	61.3	69.8	79.2	91.3	101.8	109.9	116.0	145.2
Miscellaneous	2.0	23.4	30.9	32.9	25.8	50.4	33.5	97.4	158.8	89.6
Total Expenditure	639.3	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
Claims on Death, Disability & Maturity	23.2	28.4	36.9	41.4	50.0	57.3	71.0	85.5	99.2	115.6
Surrenders	13.2	15.9	20.0	23.0	26.3	33.2	49.9	64.3	63.4	60.8
Cash Bonuses & Annuities	4.4	7.7	6.0	4.8	5.7	5.0	6.0	7.0	7.4	8.8
Management Expenses										
Commission	31.7	36.0	40.6	64.8	72.4	59.2	63.9	92.4	137.0	181.4
Salaries	6.6	7.9	8.9	11.9	12.8	15.5	18.9	18.7	21.9	27.2
Others	15.9	23.8	34.7	24.2	28.3	29.2	31.7	26.2	30.0	22.0
Miscellaneous	7.3	2.7	9.5	19.2	20.4	46.4	55.0	53.7	89.3	65.2
Balance of Revenue Account at End of Year	537.0	649.2	776.6	927.0	1,098.5	1,282.6	1,462.9	1,720.7	2,062.5	2,468.2

Source : The Monetary Authority of Singapore

12.22 ASSETS OF LIFE INSURANCE FUNDS, 1979-1988
(End of Period)

Million Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total	585.1	705.1	834.7	998.8	1,196.5	1,384.0	1,576.3	1,851.5	2,238.9	2,689.4
Land & Buildings	31.8	35.4	37.7	52.5	57.7	54.2	51.9	59.6	83.6	96.3
Loans	105.5	124.5	186.9	205.9	232.3	268.9	314.2	442.9	518.5	678.6
On Mortgages	42.0	48.7	93.1	100.6	108.4	110.7	127.3	240.1	291.9	371.4
On Policies	48.2	59.3	76.6	87.0	99.1	123.4	153.6	178.9	201.1	216.9
Others	15.3	16.5	17.2	18.3	24.8	34.8	33.3	23.9	25.5	90.3
Investments	339.0	378.2	424.2	513.0	620.0	701.7	741.6	935.1	1,139.1	1,320.5
Government & Statutory Authorities	170.8	180.0	198.2	236.1	283.1	354.7	380.0	457.0	518.5	603.2
Debentures & Shares ¹	168.2	198.2	226.0	276.9	336.9	347.0	361.6	478.1	620.6	717.3
Cash & Deposits	75.7	108.9	154.9	180.5	234.8	305.7	403.5	354.5	424.9	503.7
Miscellaneous (including Outstanding Premiums) ²	33.1	58.1	31.0	46.9	51.7	53.5	65.1	59.4	72.8	90.3

¹ Include other investments.

² Include furniture.

Source : The Monetary Authority of Singapore

12.23 PREMIUMS AND CLAIMS OF GENERAL INSURANCE FUNDS, 1979-1988

Million Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total Net Premiums¹	274.5	340.7	397.7	431.0	441.0	440.9	433.6	421.4	442.9	508.6
Marine, Aviation or Transit	58.1	70.7	74.2	70.5	70.7	68.0	65.9	62.9	64.3	76.8
Others	216.4	270.0	323.5	360.5	370.3	372.9	367.7	358.5	378.6	431.8
Fire	45.4	51.2	61.2	68.1	69.7	71.3	76.4	72.1	69.4	71.9
Motor Vehicles	74.0	102.6	117.4	135.5	147.4	158.9	152.1	148.2	165.6	205.5
Miscellaneous	97.0	116.2	144.9	156.9	153.2	142.7	139.2	138.2	143.6	154.4
Total Net Claims²	113.9	141.6	146.7	165.6	186.7	195.4	220.6	230.1	218.1	225.2
Marine, Aviation or Transit	30.3	35.7	35.7	38.6	36.1	27.5	27.9	25.7	25.6	24.4
Others	83.6	105.9	111.0	127.0	150.6	167.9	192.7	204.5	192.5	200.8
Fire	20.0	29.4	18.8	17.1	21.7	20.4	20.9	30.1	18.6	22.7
Motor Vehicles	36.1	45.7	52.6	58.9	71.1	87.2	99.2	99.8	107.6	110.7
Miscellaneous	27.5	30.8	39.6	51.0	57.8	60.3	72.6	74.6	66.3	67.4

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, 1979-1988

Million Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total Revenue	603.7	742.8	896.7	958.0	1,077.5	1,126.4	1,166.7	1,236.5	1,361.5	1,506.9
Balance of Revenue Account at Beginning of Year	34.7	31.0	39.5	74.1	88.4	93.0	69.6	95.7	125.3	209.8
Reserves for Unexpired Risks at Beginning of Year	101.6	119.9	146.7	178.3	197.6	205.3	207.5	199.9	192.3	203.5
Loss Reserves at Beginning of Year	119.8	149.7	178.2	217.1	265.0	305.2	369.5	420.5	433.9	482.0
Net Premiums Written	274.5	340.7	397.7	431.0	441.0	440.9	433.6	421.3	442.9	508.6
Net Interest, Dividends & Rents	20.9	26.8	40.4	46.9	49.6	55.3	54.0	47.4	46.9	52.9
Miscellaneous	52.2	74.7	94.2	10.6	35.9	26.7	32.5	51.7	120.2	50.1
Total Expenditure	603.7	742.8	896.7	958.0	1,077.5	1,126.4	1,166.7	1,236.5	1,361.5	1,506.9
Net Claims Settled, Loss Reserves at End of Year	263.6	317.5	366.0	429.8	489.7	567.1	637.6	677.0	695.6	760.5
Management Expenses										
Commission	71.5	85.5	91.3	76.4	72.5	68.2	71.7	69.4	69.8	79.5
Others	57.2	71.6	88.1	87.6	98.1	102.9	102.3	110.3	106.9	119.9
Miscellaneous	59.7	81.6	97.3	76.8	110.8	109.5	57.9	58.1	71.0	68.0
Balance of Revenue Account at End of Year	31.0	39.9	75.4	90.1	101.3	70.1	97.3	125.3	216.5	251.6
Reserves for Unexpired Risks at End of Year	120.7	146.7	178.6	197.3	205.1	208.6	199.9	196.4	201.7	227.4

Source : The Monetary Authority of Singapore

12.25 ASSETS OF GENERAL INSURANCE FUNDS, 1979-1988
(End of Period)

Million Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total	437.8	527.8	684.4	797.7	873.3	907.1	943.3	985.3	1,123.4	1,258.7
Land & Buildings	31.4	35.5	42.8	42.6	42.9	40.7	39.6	35.5	39.4	41.1
Loans	5.1	5.2	5.3	7.6	11.4	12.1	12.5	13.5	16.3	23.1
Investments	159.9	188.6	229.6	256.4	290.7	302.4	305.2	369.4	468.5	531.3
Government & Statutory Authorities	82.5	89.5	108.6	128.5	147.6	166.5	172.2	186.5	214.7	240.6
Debentures & Shares	77.4	99.1	121.0	127.9	143.1	135.9	133.0	182.9	253.8	290.7
Cash & Deposits	162.9	207.5	294.6	361.9	394.3	412.7	443.8	429.7	457.6	512.1
Miscellaneous	78.5	91.0	112.1	129.2	134.0	139.2	142.2	137.2	141.6	151.1

Source : The Monetary Authority of Singapore

CHART 20

MONEY SUPPLY, 1979-1989
(At End of Period)

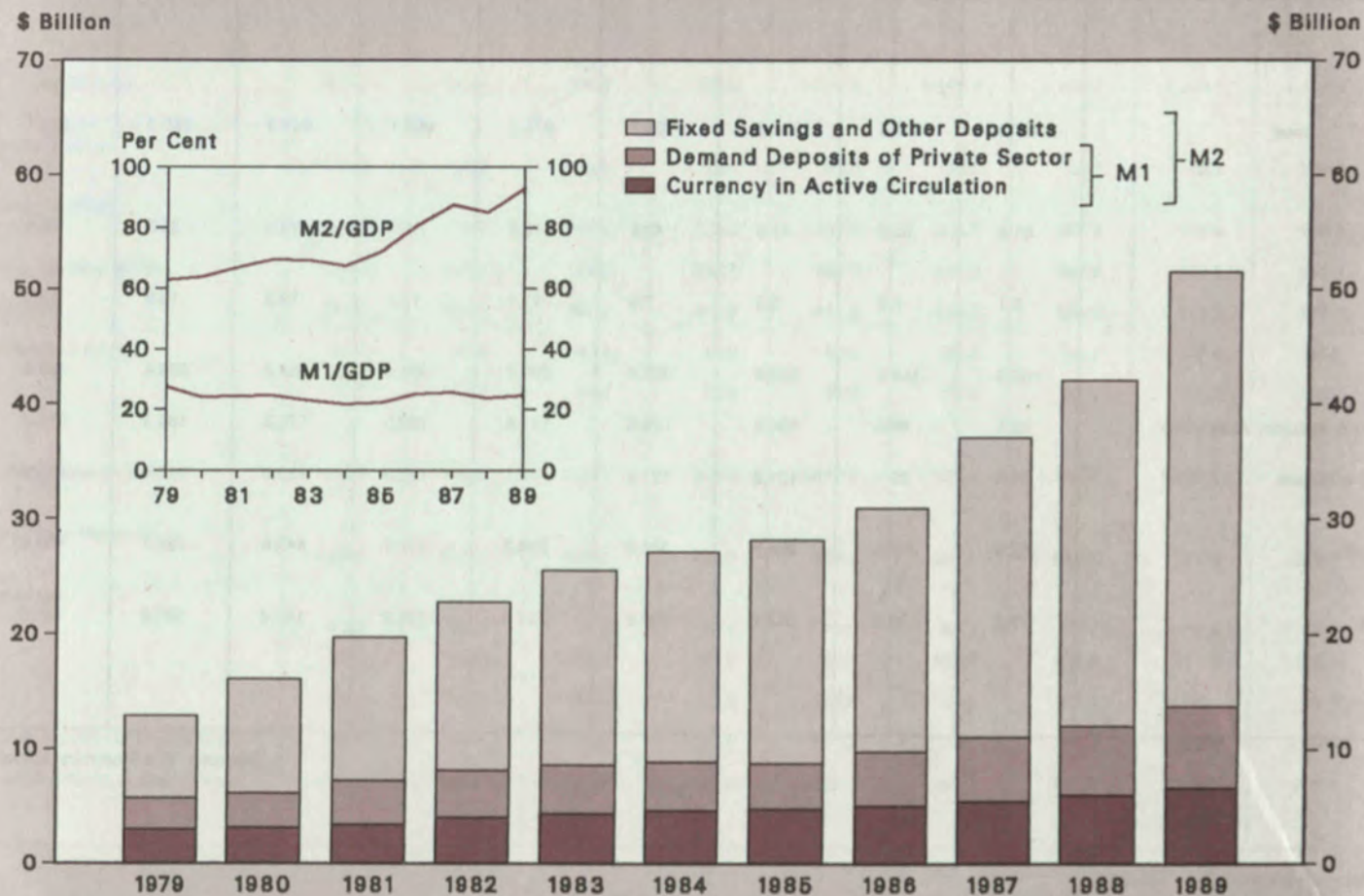


CHART 21

TYPE OF BANK DEPOSITS AND LOANS AND ADVANCES TO INDUSTRIES, 1979-1989
(At End of Period)

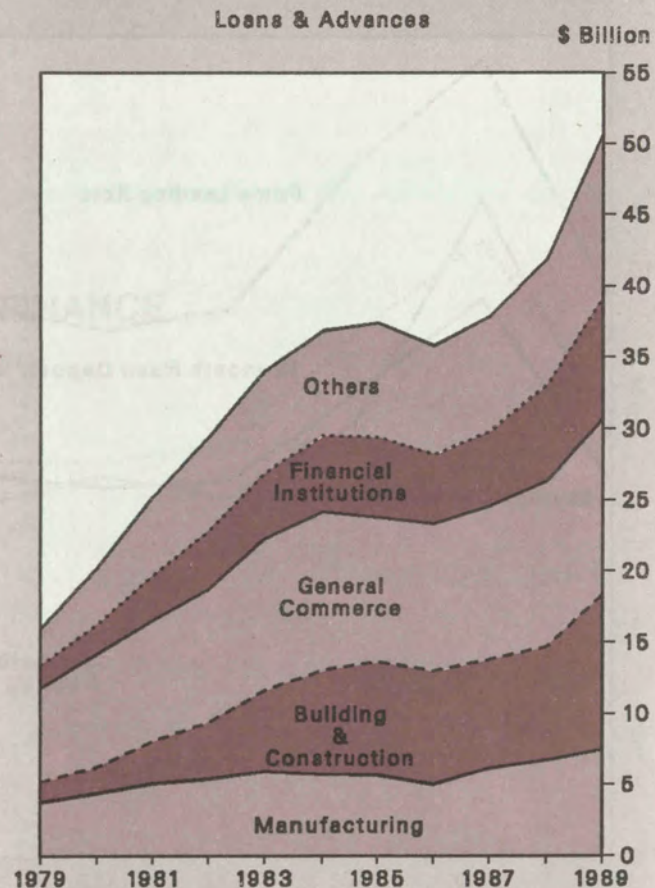
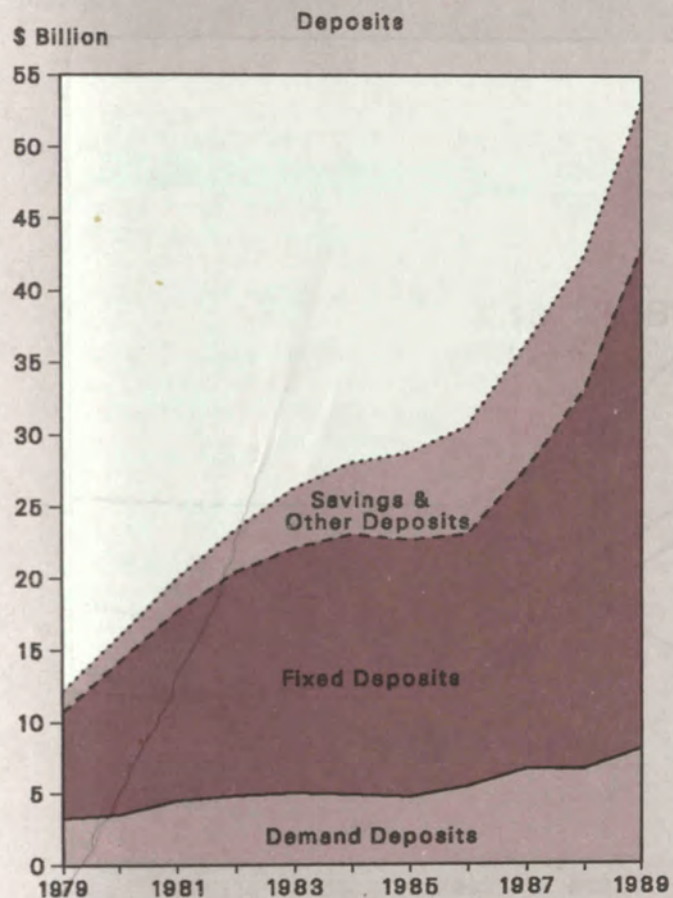
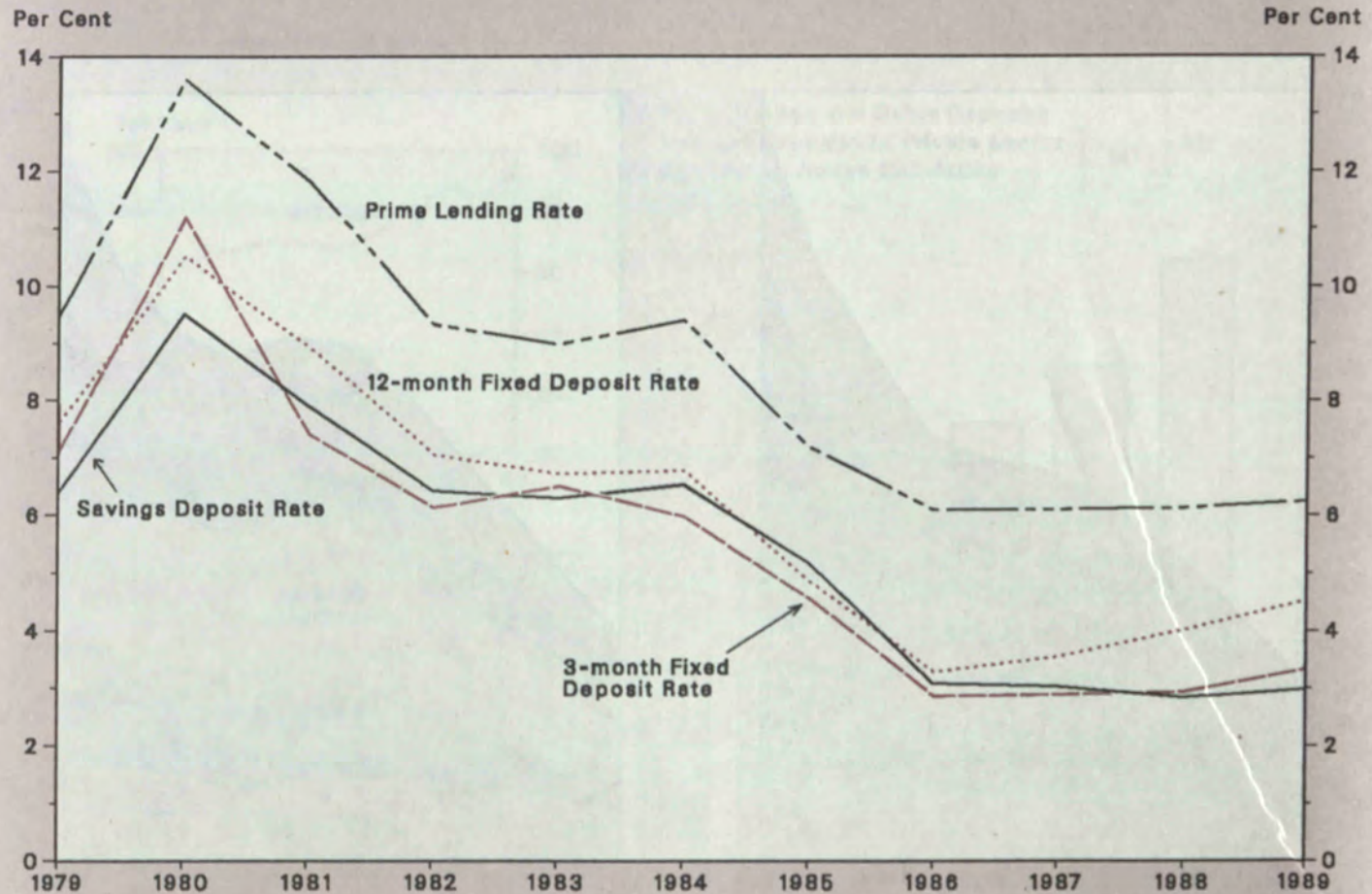


CHART 22

BANK INTEREST RATES, 1979-1989
(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 all persons liable for tax, duty, levy or fee are readily and correctly assessed, and that all such dues are promptly paid.

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 resident in Singapore range from 3.5 per cent to 33 per cent depending on the amount of the chargeable income. In addition, 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 new born third and fourth children.

Company taxes are based on a flat rate of 32 per cent of income with the usual allowances from the Year of Assessment 1990. 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 25 countries, namely, Australia, Bangladesh, Belgium, Canada, Denmark, Finland, France, the Federal Republic of Germany, 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 payment into the Development Fund of sums raised under any Loan Act.

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) payments of any loans made from the fund, or payments of interest on such loans.

The Fund may be used for:

- i) construction, improvement, acquisition or replacement of capital assets (eg buildings, vehicles, aircraft, machinery, rolling-stock, roads) required in respect of or in connection with the economic development or general welfare of Singapore;
- ii) acquisition of land and of any right or interest in or over land and in respect of the use of any invention; and
- iii) grants and loans to, or investments in any public authority or corporation.

13.1 CLASSIFICATION OF GOVERNMENT REVENUE, 1979-1989

Million Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
TOTAL REVENUE ^{1/}	4,694.2	5,936.6	7,344.6	8,989.5	10,612.6	11,250.7	10,829.4	10,970.4	10,470.9	13,776.2	15,508.8
Tax Revenue	3,221.2	4,087.3	5,214.0	6,181.5	7,080.5	7,591.0	6,774.4	5,188.1	5,525.4	8,263.2	9,606.4
Income Tax	1,398.1	1,898.4	2,634.3	3,248.0	3,523.3	3,568.3	3,006.7	2,231.8	2,356.6	2,839.6	3,618.6
Property Tax	491.0	532.1	640.4	806.4	943.6	1,209.6	1,152.7	763.8	686.2	808.4	911.6
Estate Duty	35.7	24.8	50.8	43.2	61.1	49.2	32.8	26.0	25.8	15.6	27.7
Contributions by Statutory Boards	-	-	-	-	-	-	-	-	-	1,500.0	769.8
Stamp Duty	105.8	163.2	280.3	250.6	315.4	282.0	312.6	412.2	412.2	347.8	708.4
Customs & Excise Duties	586.3	670.2	694.8	763.1	856.9	992.9	985.3	847.3	939.7	1,112.3	1,261.7
Taxes on Motor Vehicles ^{2/}	354.5	487.3	525.5	613.2	672.1	699.1	682.1	522.6	634.6	1,041.8	1,458.5
Betting & Sweepstake Duties	32.2	35.8	62.2	78.7	88.8	123.5	124.5	165.2	266.2	300.1	356.2
Private Lottery Duties	4.5	5.7	6.9	7.8	9.4	11.2	15.5	18.4	24.2	35.2	53.5
Others	213.1	270.7	318.8	370.5	609.9	655.2	462.2	200.8	179.9	262.4	440.2
Other Revenue	1,473.0	1,849.3	2,130.6	2,808.0	3,532.1	3,659.1	4,055.0	5,782.3	4,945.5	5,513.0	5,902.4
Sales of Goods & Services	267.2	289.7	459.5	447.6	396.6	405.0	371.3	372.4	404.7	435.3	418.5
Regulatory Charges	205.4	293.0	411.6	516.6	560.8	498.3	336.2	278.6	320.3	353.2	443.3
Fines & Forfeitures	27.2	36.0	48.4	54.5	66.2	78.6	157.0	87.9	79.0	82.0	97.6
Investment Income ^{3/}	923.1	1,071.7	1,138.4	1,721.6	2,432.8	2,581.0	3,054.8	4,483.4	4,141.6	4,612.5	4,755.3
Financial Claims & Other Receipts	53.3	162.4	75.9	70.9	78.9	100.0	138.9	563.4	11.5	108.4	187.9
Adjustment ie Repayment of Direct Loans & Advances	-3.2	-3.5	-3.2	-3.2	-3.2	-3.2	-3.2	-3.4	-11.6	-78.4	-0.2

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 previously classified under Other Receipts, but excludes interest on staff loans and advances which is classified under Financial Claims.

13.2 FUNCTIONAL CLASSIFICATION OF GOVERNMENT RECURRENT EXPENDITURE, 1979-1989

Million Dollars

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
TOTAL¹	3,054.1	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
General Services	137.1	211.5	181.9	258.6	316.5	330.2	350.3	276.1	316.8	320.4	349.5
Defence, Justice & Police	1,065.7	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
Social & Community Services	904.0	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
Education	463.4	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
Health	193.1	223.0	257.3	313.3	342.0	376.3	419.1	400.7	397.4	432.1	460.9
Environment	98.7	120.1	132.8	158.8	164.3	177.5	188.4	169.5	159.2	176.3	189.9
Others	148.8	122.3	126.0	103.5	183.5	275.7	191.4	140.0	135.5	161.6	201.7
Economic Services	192.7	228.1	288.0	383.9	346.5	300.1	249.5	230.4	240.4	239.8	260.3
Debt Servicing	680.9	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
Pensions	73.7	74.0	59.1	79.4	89.2	100.4	141.8	160.6	169.6	193.9	231.9

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

Source : Ministry of Finance

13.3 SOURCES AND USES OF DEVELOPMENT FUND, 1979/80-1989/90

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
1979/80	7,669.9	3,380.8	511.3	1,698.5	1,171.0	2,303.2	924.1	1,379.1	-
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	10,777.7	-	5,445.1	5,332.6	5,827.4	4,755.2	772.2	300.0

Source : Accountant-General's Department

13.4 GOVERNMENT DEBT, 1979 - 1989

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
1979	12,396.5	11,419.8	9,585.2	135.0	1,128.0	571.6	976.7	251.2	137.6	11.9	487.8	88.2
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

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, 1979-1989

Million Dollars

Year	Total	Import & Excise Duties					Entertainment Duties	Film Hire Duty	Licence Fees	Miscellaneous Receipts
		Liquors	Tobacco	Petroleum	Motor Vehicles	Others				
1979	634.4	139.8	125.9	154.4	94.2	72.0	34.4	4.2	4.1	5.4
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	48.8	16.9	5.4	7.8	5.0

Source : Customs and Excise Department

13.6 REVENUE COLLECTED BY INLAND REVENUE DEPARTMENT, 1979-1989

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
1979	2,176.2	1,390.9	491.4	36.5	106.3	36.7	7.7	106.7
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

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.

Source : Inland Revenue Department

13.7 TAXPAYERS, ASSESSED INCOME AND TAX ASSESSED, 1987 AND 1988

	Taxpayers			Assessed Income			Tax Assessed			
	Total	Resident	Non-resident	Total	Resident	Non-resident	Total	Resident	Non-resident	
	Number			Million Dollars						
	1987									
	Total	614,532	603,880	10,652	16,919.0	16,670.9	248.1	2,275.8	2,223.7	52.1
	Individuals	604,190	593,752	10,438	12,221.1	12,133.1	88.0	822.3	803.8	18.5
	Employees	491,458	482,448	9,010	9,893.3	9,830.6	62.7	624.2	611.8	12.4
	Sole Proprietors	76,867	75,667	1,200	1,386.5	1,370.1	16.4	105.1	101.9	3.2
	Partners	35,865	35,637	228	941.3	932.4	8.9	93.0	90.1	2.9
	Companies	9,432	9,224	208	4,635.8	4,475.7	160.1	1,422.7	1,389.1	33.6
	Trusts ¹	623	617	6	8.8	8.8	-	2.4	2.4	-
	Clubs & Associations	287	287	-	53.3	53.3	-	28.4	28.4	-
	1988									
	Total	625,158	614,498	10,660	17,641.7	17,187.2	454.5	2,653.1	2,518.4	134.7
	Individuals	613,204	603,180	10,024	12,021.4	11,939.0	82.4	842.8	826.7	16.1
	Employees	492,349	483,772	8,577	9,336.9	9,281.2	55.7	600.0	590.3	9.7
	Sole Proprietors	85,211	83,973	1,238	1,676.7	1,658.5	18.2	137.0	133.4	3.6
	Partners	35,644	35,435	209	1,007.8	999.3	8.5	105.8	103.0	2.8
Companies	10,883	10,247	636	5,607.3	5,235.2	372.1	1,806.5	1,687.9	118.6	
Trusts ¹	589	589	-	6.2	6.2	-	2.1	2.1	-	
Clubs & Associations	482	482	-	6.8	6.8	-	1.7	1.7	-	

Note : Figures for 1987 refer to assessments made during the period 1.1.87 to 31.12.87 (12 months).

Figures for 1988 refer to assessments made during the period 1.1.88 to 31.12.88 (12 months).

Source : Inland Revenue Department

¹ Include Hindu Joint Families.

**13.8 ASSESSED INCOME AND TAX ASSESSED ON INDIVIDUALS
BY ASSESSED INCOME GROUP, 1987 AND 1988**

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 Over 200,000	1987									
	604,190	593,752	10,438	12,221.1	12,133.1	88.0	822.3	803.8	18.5	
	55,587	47,913	7,674	257.7	240.0	17.7	5.1	2.0	3.1	
	89,348	88,705	643	633.0	628.5	4.5	7.5	6.7	0.8	
	85,112	84,791	321	762.6	759.7	2.9	10.6	10.0	0.6	
	134,330	133,875	455	1,647.3	1,641.7	5.6	30.9	29.8	1.1	
	74,243	73,942	301	1,281.0	1,275.8	5.2	36.0	34.9	1.1	
	68,905	68,477	428	1,677.8	1,667.3	10.5	67.7	65.6	2.1	
	56,497	56,152	345	2,157.2	2,143.8	13.4	127.3	124.6	2.7	
	29,673	29,462	211	2,004.5	1,990.5	14.0	194.7	191.7	3.0	
	8,435	8,396	39	1,125.2	1,119.9	5.3	181.9	180.5	1.4	
	2,060	2,039	21	674.8	665.9	8.9	160.6	158.0	2.6	
	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 Over 200,000	1988								
		613,204	603,180	10,024	12,021.4	11,939.0	82.4	842.8	826.7	16.1
		58,608	50,853	7,755	272.2	254.2	18.0	5.2	2.2	3.0
91,939		91,492	447	652.6	649.5	3.1	7.5	7.0	0.5	
90,899		90,658	241	815.5	813.4	2.1	11.0	10.6	0.4	
147,731		147,382	349	1,810.9	1,806.6	4.3	32.8	32.0	0.8	
80,376		80,144	232	1,389.0	1,384.9	4.1	37.5	36.7	0.8	
60,511		60,146	365	1,467.8	1,458.8	9.0	59.4	57.7	1.7	
45,244		44,890	354	1,722.0	1,708.4	13.6	104.2	101.7	2.5	
26,035		25,805	230	1,796.4	1,781.0	15.4	181.9	179.0	2.9	
9,218		9,181	37	1,233.8	1,228.4	5.4	199.9	198.7	1.2	
2,643		2,629	14	861.2	853.8	7.4	203.4	201.1	2.3	

Note : See note to Table 13.7.

Source : Inland Revenue Department

**13.9 ASSESSED INCOME AND TAX ASSESSED ON COMPANIES BY ASSESSED INCOME GROUP,
1987 AND 1988**

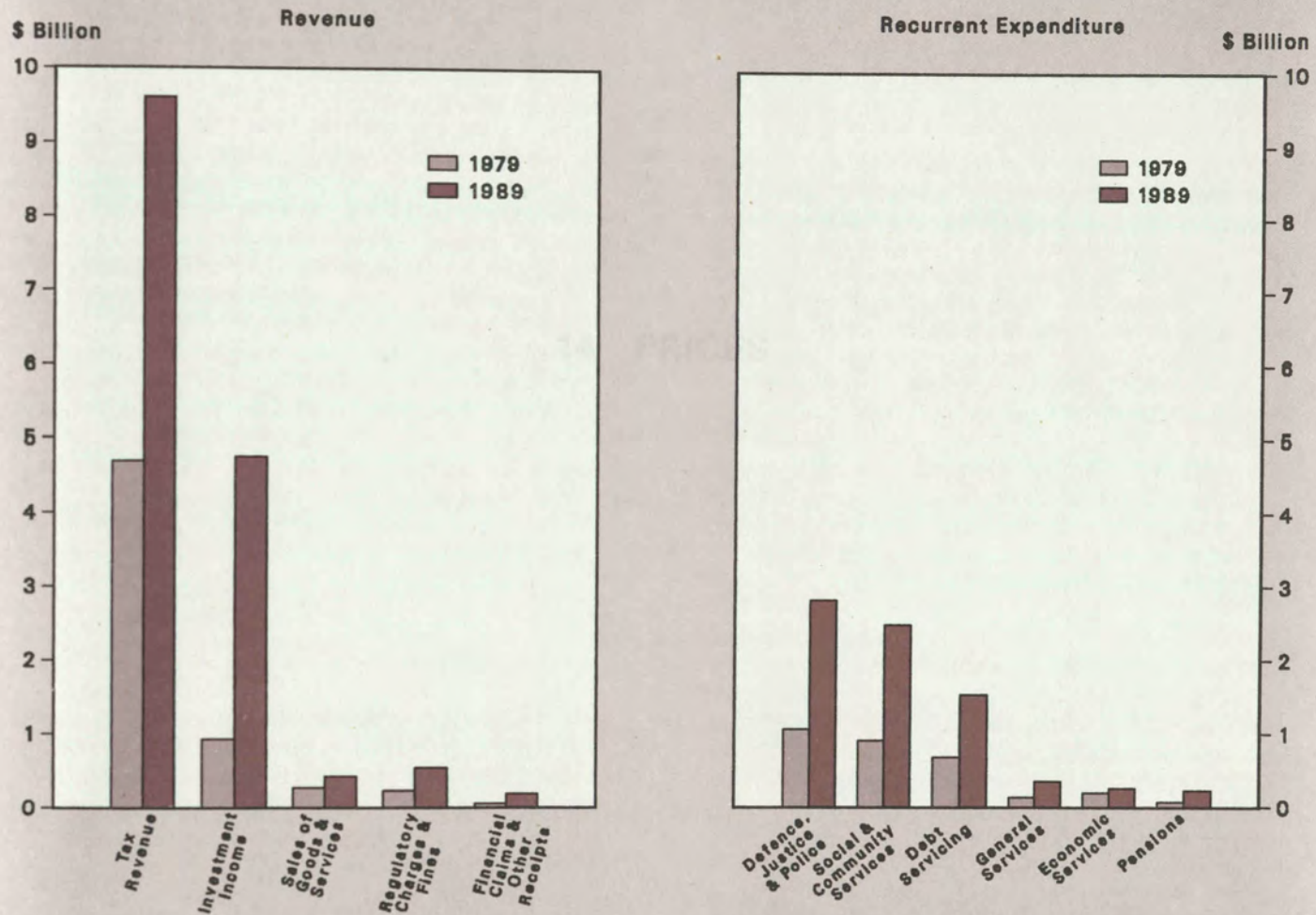
Assessed Income Group (\$)	Taxpayers			Assessed Income			Tax Assessed				
	Total	Resident	Non-resident	Total	Resident	Non-resident	Total	Resident	Non-resident		
	Number			Million Dollars							
	1987										
	Total	9,432	9,224	208	4,635.8	4,475.7	160.1	1,422.7	1,389.1	33.6	
	10,000 & Below	2,958	2,916	42	11.1	10.9	0.2	3.7	3.6	0.1	
	10,001 - 20,000	1,088	1,060	28	16.3	15.9	0.4	5.4	5.3	0.1	
	20,001 - 30,000	718	697	21	18.1	17.6	0.5	6.0	5.8	0.2	
	30,001 - 50,000	935	916	19	37.4	36.6	0.8	12.3	12.1	0.2	
	50,001 - 100,000	1,105	1,081	24	81.9	80.2	1.7	27.0	26.5	0.5	
	100,001 - 300,000	1,225	1,193	32	215.5	209.6	5.9	70.9	68.9	2.0	
	300,001 - 500,000	425	414	11	168.5	164.4	4.1	55.5	54.1	1.4	
	500,001 - 1,000,000	349	343	6	246.4	241.7	4.7	81.2	79.6	1.6	
	Over 1,000,000	629	604	25	3,840.6	3,698.8	141.8	1,160.7	1,133.2	27.5	
		1988									
		Total	10,883	10,247	636	5,607.3	5,235.2	372.1	1,806.4	1,687.8	118.6
		10,000 & Below	3,525	3,364	161	13.8	13.1	0.7	4.5	4.3	0.2
		10,001 - 20,000	1,173	1,101	72	17.5	16.5	1.0	5.8	5.4	0.4
20,001 - 30,000		710	672	38	17.9	16.9	1.0	5.9	5.6	0.3	
30,001 - 50,000		1,003	944	59	40.4	38.1	2.3	13.3	12.6	0.7	
50,001 - 100,000		1,267	1,191	76	92.0	86.5	5.5	30.3	28.5	1.8	
100,001 - 300,000		1,496	1,396	100	266.2	248.9	17.3	87.6	82.0	5.6	
300,001 - 500,000		490	465	25	193.9	184.2	9.7	63.9	60.7	3.2	
500,001 - 1,000,000		477	446	31	347.4	325.5	21.9	114.4	107.0	7.4	
Over 1,000,000		742	668	74	4,618.2	4,305.5	312.7	1,480.7	1,381.7	99.0	

Note : See note to Table 13.7.

Source : Inland Revenue Department

CHART 23

GOVERNMENT REVENUE AND RECURRENT EXPENDITURE, 1979 & 1989



14 PRICES

14 PRICES

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 calculated from a 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 selected goods and services amounted to 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 and local farm products. For imported products, the prices are

valued at cif (cost, insurance and freight); for the 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 propor-

tionate 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.

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, 1979-1989

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						
1979	78.4	80.6	98.6	82.6	75.1	69.1
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	101.0	100.3
1989	102.8	101.7	102.7	101.6	105.5	103.9
Percentage Change Over Previous Year						
1979	4.0	2.8	3.5	4.8	9.0	3.4
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

¹ The weights refer to the consumption pattern of 1987/88 and are used in the computation of the indices for the year 1989. Indices for the period 1979-1982 and 1983-1988 relate to the consumption pattern of 1977/78 and 1982/1983 respectively.

14.2 RETAIL PRICES OF SELECTED FOODSTUFFS, 1979-1989

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
1979	.94	.71	.52	.70	1.60	5.39	4.71	9.13	7.60	3.90	.85	1.51
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	4.19	.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

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

14.2 RETAIL PRICES OF SELECTED FOODSTUFFS, 1979-1989 (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									
1979	5.46	na	5.39	3.24	6.63	12.53	20.60	10.40	1.21	.94	1.47	2.84
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

14.2 RETAIL PRICES OF SELECTED FOODSTUFFS, 1979-1989 (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
1979	.74	1.14	.98	.43	.29	.36	.81	.69	1.20	11.86	4.26	3.77
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

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

14.3 DOMESTIC SUPPLY PRICE INDEX, 1979-1989

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										
1979	89.8	98.1	69.2	126.6	64.0	117.9	93.7	103.2	90.5	97.1
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
Percentage Change Over Previous Year										
1979	14.4	4.9	3.7	26.5	37.3	13.0	21.2	9.0	3.1	9.2
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	3.0	6.2	-6.9	13.7	-16.9	-5.6	5.7	-1.7	-1.8

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, 1979-1989

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										
1979	91.7	95.3	65.6	143.7	71.2	108.6	87.7	109.4	87.6	92.8
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
Percentage Change Over Previous Year										
1979	18.7	5.6	3.2	28.2	34.6	13.2	27.8	14.1	1.8	11.1
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	-

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, 1979-1989

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										
1979	93.6	97.4	80.1	139.6	62.4	122.0	96.2	102.9	90.9	97.9
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
Percentage Change Over Previous Year										
1979	12.9	4.7	4.8	22.6	39.4	12.7	12.9	7.9	3.2	3.4
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	-6.1	2.6	-1.9	-2.6

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, 1979-1989

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										
1979	89.9	97.1	84.8	142.8	75.9	132.9	78.8	105.9	85.8	93.8
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
Percentage Change Over Previous Year										
1979	16.8	3.9	2.5	22.8	37.0	5.0	9.2	10.7	1.9	2.3
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	-1.5	-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

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, 1979-1989

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	66	1,406
1985 = 100											
1979	102.7	97.9	71.5	84.6	143.6	67.1	98.0	111.6	140.2	78.6	84.7
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	106.0
1989	113.0	110.6	82.6	116.8	123.7	94.0	113.2	131.2	130.0	115.5	118.8
Percentage Change Over Previous Year											
1979	12.3	20.2	8.8	7.2	13.1	18.4	7.7	13.0	28.5	10.2	4.0
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

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, 1979-1989

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									
1979	89.2	92.2	105.5	84.9	107.5	54.0	70.0	55.9	78.8
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
Percentage Change Over Previous Year									
1979	5.7	-0.2	6.6	1.9	25.1	9.2	20.3	9.0	8.7
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

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 PRODUCE PRICES, 1979-1989

Year	Rubber							Pepper		Coffee AP 1	Crude Coconut Oil (in Drums)	Tin
	Ribbed Smoked Sheet				SSR 20	SSR 50	Int 3 Thick Blanket Crepe (Amber)	Black Lampung	White Muntok Genuine			
	Int 1	Int 2	Int 3	Int 4								
	Cents Per Kilogram (fob)											
1979	278.20	271.60	268.58	262.83	265.40	262.40	238.74	396.34	549.92	711.58	208.42	32.36
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

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

Source : Rubber Association of Singapore
Chinese Produce Exchange

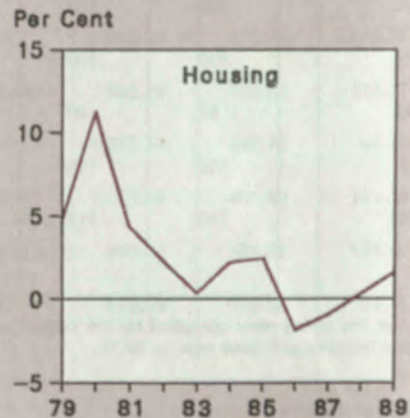
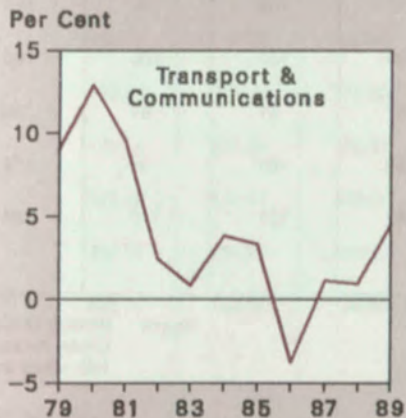
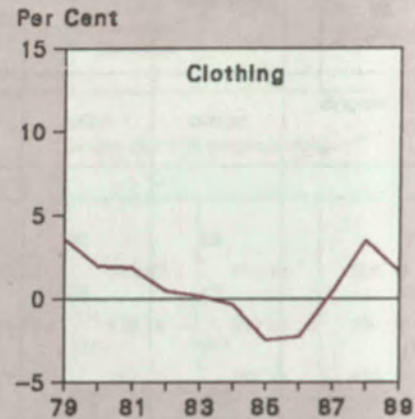
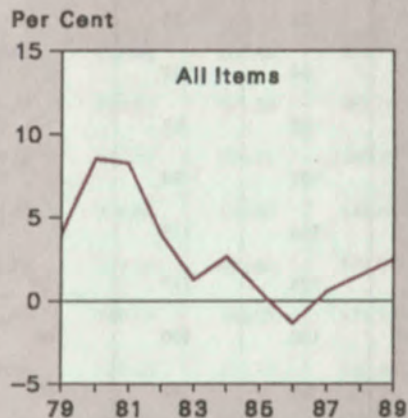
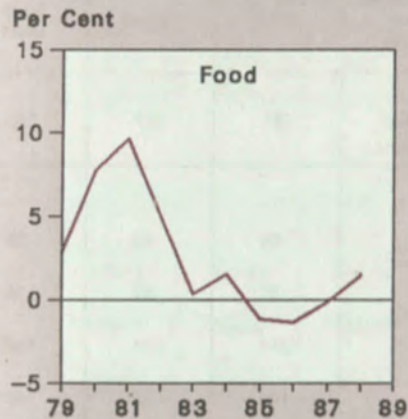
14.10 PROPERTY PRICE INDEX, 1979-1988
(1985 = 100)

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
Weights	10,000	9,066	990	1,694	1,932	1,701	2,749	621	267	354	313
Period											
1979	43	39	35	33	33	46		63	43	85	60
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

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

ANNUAL CHANGES IN CONSUMER PRICE INDEX, 1979-1989



15 EDUCATION

Primary Education

Primary education is free for children of school-going age. A child generally begins his primary education at the age of six.

The first three years of primary education emphasises the learning of English and the mother tongue which may be Chinese, Malay or Tamil. This is to give pupils a strong language foundation for the learning of other subjects. At the end of primary three, pupils are channelled into three different courses according to their ability and aptitude. The three courses are the normal bilingual course, the extended bilingual course and the monolingual course. Pupils in the normal and extended bilingual courses sit for the Primary School Leaving Examination (PSLE) at the end of the sixth and eighth year respectively. They then proceed to secondary schools if they pass the PSLE. Pupils in the monolingual course sit for the Primary School Proficiency Examination at the end of the eighth year, after which they can join the Vocational and Industrial Training Board for vocational training.

Secondary Education

At the secondary level, pupils are channelled into the special, the express and the normal courses according to their

performance in the PSLE. The learning of English and second language continues at the secondary level. Pupils in the special course, however, study both English and Chinese at first language level.

Secondary one and two pupils in all three courses study the same number of subjects. After completing secondary two, all pupils have the choice of taking combinations of compulsory and elective subjects depending on their interests and aptitudes. Pupils in the secondary special and express courses sit for the General Certificate of Education 'Ordinary' Level (GCE 'O') Examination at the end of the fourth year. Those whose GCE 'O' level examination results satisfy the qualifying standards will proceed to the pre-university courses. Pupils in the secondary normal course follow a modified curriculum which allows for a slower pace of learning. At the end of the fourth year, they sit for the GCE 'Normal' Level Examination. They may proceed to sit for the GCE 'O' Level Examination after an extra year of study. The others may go for vocational training or take up employment.

At the pre-university level, pupil with better GCE 'O' level results will be streamed into the two-year course in junior colleges while other pupils will be channelled to the three-year course in either the centralised institute or pre-university centres. Students with GCE 'O' level can also opt to join the Singapore Polytechnic, Ngee Ann Polytechnic, the Vocational

and Industrial Training Board or the Economic Development Board Institutions.

Sources of Data

Data on school enrolment and school teachers in Government and Government-Aided schools are extracted from the relevant computer databanks in the Ministry of Education. Statistics on Private Schools were compiled from their submissions on annual returns to the Private Schools Unit, a supervisory body of the private schools in 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 and Industrial Training Board

The Vocational and Industrial Training Board (VITB) was established in April 1979. It promotes, provides and administers vocational training in Singapore. It conducts about 50 full-time training courses in industrial, service and applied arts skills and commercial education at 15 training institutes.

The VITB offers the opportunity for workers to upgrade their skills and educational level. The part-time Modular Skills Training (MOST) Scheme is for workers who wish to upgrade or acquire new skills. The Basic Education for Skills Training

(BEST) programme is to raise the literacy and numeracy levels of workers who do not have sufficient education to take up skills training and be upgraded. The Worker Improvement through Secondary Education (WISE) programme is for workers to raise their formal education to the GCE Normal level.

The VITB registers and administers apprenticeship and assists industry in conducting ad hoc training programmes and setting up training centres. It is the national authority for the determination of skill standards and conducts trade testing for public candidates.

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 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 three postgraduate schools; namely, the Faculties of Architecture and Building, Arts and Social Sciences, Business Administration, Dentistry, Engineering, Law, Medicine and Science, and the Schools of Postgraduate Medical, Dental and Management Studies. In addition, the University has three non-faculty departments — Department of Extra-mural Studies,

English Language Proficiency Unit and Human Resource Management Unit. To provide the facility for research and further training in the fields of Computing and Information Systems and Molecular Biology, it has established the Institute of Systems Science and the Institute of Molecular and Cell Biology. In the field of Engineering and Accountancy, the University awards the degrees of Bachelor of Engineering and Bachelor of Accountancy to graduates of the Nanyang Technological Institute. Higher degrees in Education which are awarded by the University, are conducted at the Institute of Education. The course leading to the University's Master's degree in Applied Linguistics is conducted at the Regional English Language Centre. Data on student enrolment and graduates are obtained from administrative records.

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. It had its first intake of engineering students in 1982 and produced its first batch of 557 engineering graduates in April 1985. 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. All these courses are similarly practice-oriented in nature. NTI has produced two batches of accountancy graduates totalling 964. The total undergraduate student population for academic session 1989/90 is 5,475. The

Institute will be re-constituted and re-named the Nanyang Technological University in 1991. The new University will award its own degrees from 1992.

The Singapore Polytechnic conducts a Certificate Course in Aeronautical Maintenance Engineering, Diploma courses in Architectural Technology, Building, Business Administration, Chemical Process Technology, Biotechnology, Civil Engineering, Electrical Engineering, Electronics and Communication Engineering, Land Surveying, Marine Engineering, Mechanical Engineering and Manufacturing Engineering, Nautical Studies, and Quantity Surveying; Post-diploma courses in Industrial Management, Maritime Studies, Plastics Mould Design; and Advanced Diploma courses in Automation in Manufacturing, Building Maintenance Management, Construction Engineering, Business Information Systems, Telecommunication Engineering, Industrial Electronics, Information Systems Technology, Manufacturing Technology, Building Construction Management, Food Technology, Industrial Engineering, Mechatronics, Plastics Technology, Power Engineering and Control Systems, Power Plant Engineering, Power System Engineering, and Tool Engineering and Design. Many of the diploma courses are conducted both full-time and part-time. The Post-diploma and Advanced diploma courses are part-time courses.

With the transfer of the Japan-Singapore Institute of Software Technology to the Singapore Polytechnic with effect from 1 April 1987, the Polytechnic also conducts a Diploma course in Programming/Systems Analysis, an Advanced Diploma course in Software Technology and a Post-graduate

course in Systems Analysis. Data on Singapore Polytechnic are compiled from administrative records maintained on two computerised systems, the Student Admissions System and Examinations System, by the Admissions and the Examinations Office respectively.

The Ngee Ann Polytechnic assumed its name in April 1982. It was initially established as a private institution in 1963 under the name of Ngee Ann College. It became a public institution and renamed Ngee Ann Technical College in 1968.

The Ngee Ann Polytechnic offers the following full-time courses: Diploma in Mechanical Engineering, Electrical Engineering, Electronic Engineering, Building Management, Building Services Engineering, Public Health Engineering, Biotechnology, Shipbuilding and Offshore Engineering, Business Studies, Accountancy, Computer Studies and Mass Communication. Part-time courses equivalent to the full-time courses in all departments are also conducted except in Shipbuilding and Offshore Engineering. A Part-time course in Mechatronic Engineering is also conducted.

Part-time Advanced Diploma courses are also conducted for Automation and Control Technology, Building Services Engineering, Building Surveying and Inspection, Computer Application in Power Engineering, Computer and Communication, Computer Studies, High Voltage Engineering, Industrial Engineering, Manufacturing Automation Technology, Steel Structure Technology, Power Electronics and Variable

Speed Drives. Two new advanced diploma courses in Information Systems and Software Engineering and Data Communications and Networking will commence in the 1990-1991 session.

The Institute of Education is responsible for teacher training and the promotion of research in education. The Institute provides training for pre-primary, primary, secondary school and junior college teachers. The pre-service training includes a full-time one-year Diploma in Education Programme for preparing university graduates to be teachers in secondary schools and junior colleges and a full-time two-year Certificate in Education Programme for preparing teachers for pre-primary, primary and lower secondary levels. The Institute also provides further training for practising teachers through short-term in-service courses.

The Institute conducts Further Professional Programmes leading to formal qualifications. The one-year full-time Diploma in Educational Administration (Primary School) and Diploma in Educational Administration (Secondary School) Programmes are aimed at preparing the participants for the role of Principals and Vice-Principals in primary and secondary schools respectively. The Institute also provides nine-month full-time Further Professional Certificate in Education and Further Professional Diploma in Education programmes geared at preparing serving teachers for the role of heads of departments in the primary and secondary schools respectively. The two-year part-time Advanced Certificate in Education Programme in Tamil Studies, Chinese Studies and

Malay Studies are also offered by the Institute to raise the level of knowledge of the content and teaching skills of Tamil language, Chinese language and Malay language teachers, especially those teaching in secondary schools and junior colleges.

In addition, the Institute conducts a postgraduate studies programme to prepare teachers for the degrees of Master of Education and Doctor of Philosophy in Education awarded by the National University of Singapore.

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. Students undergo a comprehensive and balanced theoretical and practical physical education programme for the Diploma in Physical Education.

Programmes are jointly conducted for pre-service and in-service students. 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.

Regular shorter in-service courses for serving teachers are conducted to upgrade their skills and knowledge in specific sports and in the organisation and management of PE in schools.

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. The total budgeted recurrent expenditure in the fiscal year 1989/90 was \$1,648 million or 19.8 per cent of the total government recurrent expenditure.

15.1 ENROLMENT IN EDUCATIONAL INSTITUTIONS, 1979 -1989

Number

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		
1979	503,293	290,859	159,733	138,903	17,228	3,602	16,788	13,024	987	2,777	15,449	20,464
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	537,533	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

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

Source : Ministry of Education

² Include enrolment from Institutes run by Economic Development Board.

³ Include National University of Singapore, Nanyang Technological Institute, Singapore Polytechnic, Ngee Ann Polytechnic, Institute of Education and the College of Physical Education.

15.2 STUDENTS AND TEACHERS IN EDUCATIONAL INSTITUTIONS, END JUNE 1989

Number

	Institutions ¹	Students			Teachers		
		Total	Males	Females	Total	Males	Females
Total	430	538,009	288,151	249,858	25,674	10,896	14,778
Primary Schools	212	257,833	135,505	122,328	10,230	2,852	7,378
Secondary Schools	146	166,274	85,009	81,265	7,729	2,919	4,810
Pre-U Centres ² and Centralised Institutes ³	29	8,319	2,883	5,436			
Junior Colleges	14	24,483	11,494	12,989			
Technical & Vocational Institutes & Economic Development Board institutes	23	30,344	22,880	7,464	1,957	1,482	475
Polytechnics	2	27,106	18,343	8,763	1,951	1,435	516
Institute of Education & College of Physical Education	2	1,542	365	1,177	200	104	96
National University of Singapore & Nanyang Technological Institute	2	22,108	11,672	10,436	2,100	1,565	535

1 A school conducting both primary and secondary classes is treated as one primary and 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.

Source : Ministry of Education

15.3 PRIMARY SCHOOLS, STUDENTS AND TEACHERS BY TYPE OF SCHOOL, 1979 -1989

Number

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total Schools	351	338	328	320	305	275	252	236	230	221	212
Government	193	199	200	211	207	193	180	172	169	166	158
Government-aided	156	137	126	107	96	81	71	63	60	54	53
Private	2	2	2	2	2	1	1	1	1	1	1
Total Students	290,859	291,722	285,179	286,780	290,800	288,623	278,060	268,820	261,603	259,270	257,833
Government	211,453	214,187	210,245	217,885	219,742	219,930	211,855	205,281	199,174	198,429	196,186
Government-aided	79,223	77,323	74,756	68,734	70,862	68,564	66,020	63,387	62,225	60,688	61,504
Private	183	212	178	161	196	129	185	152	204	153	143
Total Teachers¹	10,492	10,090	9,465	9,452	9,921	10,420	10,363	10,264	10,199	10,192	10,230
Government	7,276	7,244	7,260	7,437	7,854	7,958	7,917	7,921	7,893	7,958	7,954
Government-aided	3,200	2,837	2,194	2,007	2,061	2,458	2,434	2,335	2,297	2,234	2,276
Private	16	9	11	8	6	4	12	8	9	na ²	na ²

Source : Ministry of Education

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

2 Included as Secondary School Teachers.

15.4 ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED PRIMARY SCHOOLS BY LEVEL AND AGE, END JUNE 1989

a) Males

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	135,505	21,549	21,344	20,905	20,889	20,210	19,956	6,476	3,924	207	45
Primary 1	21,689	21,540	126	20	3	-	-	-	-	-	-
Primary 2	21,438	9	21,212	161	48	8	-	-	-	-	-
Primary 3	20,969	-	6	20,715	178	60	4	5	-	1	-
Primary 4											
Normal	18,446	-	-	9	18,171	164	72	21	8	1	-
Extended	1,576	-	-	-	1,544	26	4	2	-	-	-
Monolingual	959	-	-	-	934	15	8	2	-	-	-
Primary 5											
Normal	16,650	-	-	-	11	16,271	218	116	27	6	1
Extended	2,863	-	-	-	-	2,771	70	21	1	-	-
Monolingual	901	-	-	-	-	880	14	6	1	-	-
Primary 6											
Normal	16,615	-	-	-	-	15	14,847	1,336	372	40	5
Extended	2,185	-	-	-	-	-	2,098	69	15	2	1
Monolingual	1,363	-	-	-	-	-	1,322	27	13	-	1
Primary 7											
Extended	3,301	-	-	-	-	-	1,299	1,897	84	18	3
Monolingual	1,533	-	-	-	-	-	-	1,500	27	6	-
Primary 8											
Extended	3,699	-	-	-	-	-	-	1,474	2,089	105	31
Monolingual	1,318	-	-	-	-	-	-	-	1,287	28	3

Source : Ministry of Education

15.4 ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED PRIMARY SCHOOLS BY LEVEL AND AGE, END JUNE 1989

a) Females

a) Females											
Age 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	Number 15 & Over
Total	122,328	19,608	19,688	19,245	19,122	18,871	18,257	4,845	2,535	127	30
Primary 1	19,718	19,604	90	23	1	-	-	-	-	-	-
Primary 2	19,760	4	19,594	119	34	6	3	-	-	-	-
Primary 3	19,303	-	4	19,098	152	40	7	2	-	-	-
Primary 4											
Normal	17,585	-	-	5	17,407	128	35	7	3	-	-
Extended	998	-	-	-	983	12	3	-	-	-	-
Monolingual	545	-	-	-	533	7	3	1	1	-	-
Primary 5											
Normal	16,499	-	-	-	12	16,240	155	77	13	2	-
Extended	1,982	-	-	-	-	1,942	33	6	1	-	-
Monolingual	503	-	-	-	-	492	8	3	-	-	-
Primary 6											
Normal	16,747	-	-	-	-	4	14,828	1,525	355	25	10
Extended	1,412	-	-	-	-	-	1,351	45	14	2	-
Monolingual	674	-	-	-	-	-	657	13	4	-	-
Primary 7											
Extended	2,536	-	-	-	-	-	1,174	1,302	54	6	-
Monolingual	676	-	-	-	-	-	-	653	18	4	1
Primary 8											
Extended	2,818	-	-	-	-	-	-	1,211	1,514	77	16
Monolingual	572	-	-	-	-	-	-	-	558	11	3

Source : Ministry of Education

15.5 SECONDARY SCHOOLS, STUDENTS AND TEACHERS BY TYPE OF SCHOOL, 1979 -1989

Type of School											Number
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total Schools	135	141	145	150	147	150	149	157	161	161	164
Government	80	86	90	94	93	98	98	109	113	113	116
Government-aided & Independent	51	51	51	52	50	48	47	44	44	44	44
Private	4	4	4	4	4	4	4	4	4	4	4
Total Students	176,521	173,693	177,238	176,845	182,343	187,764	190,328	203,088	202,857	201,755	199,076
Government	126,017	125,011	128,127	128,786	133,839	137,400	137,526	149,296	148,240	147,596	145,587
Government-aided & Independent	48,735	46,794	47,333	46,266	46,629	48,445	50,763	51,840	52,885	52,589	51,971
Private	1,769	1,888	1,778	1,793	1,875	1,919	2,039	1,952	1,732	1,570	1,518
Total Teachers¹	7,642	7,906	8,273	8,347	8,644	8,236	8,562	8,695	9,369	9,040	9,236
Government	5,573	5,605	5,655	5,694	5,946	6,006	6,261	6,461	6,960	6,806	6,834
Government-aided & Independent	2,003	2,234	2,553	2,584	2,625	2,150	2,227	2,159	2,341	2,161	2,338
Private	66	67	65	69	73	80	74	75	68	73	64

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 1989

a) Males

a) Males												Number
Age 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	99,386	12	15,930	16,307	18,693	19,648	14,174	10,342	2,999	1,025	256	
Secondary 1												
Special	1,107	2	1,089	13	3	-	-	-	-	-	-	
Express	10,930	10	9,847	453	516	62	38	4	-	-	-	
Normal	7,679	-	4,983	1,383	1,223	63	23	4	-	-	-	
Secondary 2												
Special	1,121	-	-	1,090	19	10	2	-	-	-	-	
Express	10,717	-	11	9,309	642	633	84	28	8	-	2	
Normal	6,883	-	-	4,046	1,478	1,283	52	20	4	-	-	
Secondary 3												
Special	1,113	-	-	-	1,068	32	13	-	-	-	-	
Express	11,757	-	-	13	9,797	1,067	730	110	29	6	5	
Normal	7,051	-	-	-	3,945	1,581	1,412	84	21	6	2	
Secondary 4												
Special	1,150	-	-	-	-	1,097	35	16	2	-	-	
Express	12,470	-	-	-	2	9,660	1,774	918	83	27	6	
Normal	7,231	-	-	-	-	4,150	1,642	1,306	120	12	1	
Secondary 5												
Normal	5,800	-	-	-	-	1	3,103	1,669	825	165	37	
Pre-University 1	1,137	-	-	-	-	-	562	397	152	24	2	
Pre-University 2	942	-	-	-	-	-	1	394	336	189	22	
Pre-University 3	804	-	-	-	-	-	-	1	312	325	166	
Junior College 1	5,431	-	-	-	-	8	4,695	574	146	7	1	
Junior College 2	6,063	-	-	-	-	1	8	4,817	961	264	12	

Source : Ministry of Education

15.6 ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED SECONDARY SCHOOLS BY LEVEL AND AGE, END JUNE 1989

a) Females

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	99,690	12	15,583	16,075	18,061	19,345	14,666	11,034	3,577	1,069	268
Secondary 1											
Special	1,120	2	1,100	15	3	-	-	-	-	-	-
Express	10,629	10	9,887	364	298	38	27	4	-	1	-
Normal	6,740	-	4,591	1,225	877	36	10	1	-	-	-
Secondary 2											
Special	1,064	-	-	1,041	19	4	-	-	-	-	-
Express	10,672	-	5	9,678	483	428	52	18	8	-	-
Normal	6,056	-	-	3,746	1,272	979	48	9	2	-	-
Secondary 3											
Special	1,079	-	-	1	1,046	24	7	1	-	-	-
Express	11,766	-	-	5	10,358	831	497	50	15	6	4
Normal	6,153	-	-	-	3,697	1,356	1,031	58	10	-	1
Secondary 4											
Special	1,054	-	-	-	-	1,020	28	6	-	-	-
Express	12,739	-	-	-	8	10,591	1,470	616	42	8	4
Normal	6,531	-	-	-	-	4,031	1,392	1,021	75	11	1
Secondary 5											
Normal	5,662	-	-	-	-	1	3,457	1,414	696	84	10
Pre-University 1	2,195	-	-	-	-	-	1,350	596	198	41	10
Pre-University 2	1,810	-	-	-	-	-	-	956	596	220	38
Pre-University 3	1,431	-	-	-	-	-	-	4	742	486	199
Junior College 1	5,992	-	-	-	-	6	5,290	576	118	2	-
Junior College 2	6,997	-	-	-	-	-	7	5,704	1,075	210	1

Source : Ministry of Education

**15.7 ENROLMENT AT PRIMARY LEVELS IN PRIVATE REGULAR SCHOOLS
BY LEVEL AND AGE, END JUNE 1989**

Age Level												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
		Males										
Total		76	1	4	8	2	6	6	7	9	16	17
Primary 1		4	1	3	-	-	-	-	-	-	-	-
Primary 2		6	-	1	3	2	-	-	-	-	-	-
Primary 3		9	-	-	5	-	1	-	2	-	1	-
Primary 4		10	-	-	-	-	3	-	2	4	1	-
Primary 5		9	-	-	-	-	2	1	2	3	1	-
Primary 6		38	-	-	-	-	-	5	1	2	13	17
		Females										
Total		67	6	3	4	7	5	6	8	3	16	9
Primary 1		7	6	1	-	-	-	-	-	-	-	-
Primary 2		5	-	2	-	2	-	1	-	-	-	-
Primary 3		7	-	-	4	1	1	1	-	-	-	-
Primary 4		10	-	-	-	4	2	-	3	1	-	-
Primary 5		8	-	-	-	-	2	3	2	1	-	-
Primary 6		30	-	-	-	-	-	1	3	1	16	9

Source : Ministry of Education

**15.8 ENROLMENT AT SECONDARY LEVELS IN PRIVATE REGULAR SCHOOLS
BY LEVEL AND AGE, END JUNE 1989**

											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	504	8	2	34	52	81	129	107	57	34
Secondary 1		82	8	-	26	27	19	2	-	-	-
Secondary 2		60	-	2	7	17	16	10	6	-	2
Secondary 3		34	-	-	1	3	11	9	4	2	4
Secondary 4		37	-	-	-	5	9	9	7	4	3
Pre-University 1		183	-	-	-	-	25	87	53	17	1
Pre-University 2		93	-	-	-	-	1	12	37	30	13
Pre-University 3		15	-	-	-	-	-	-	-	4	11
		Females									
	Total	1,014	3	11	40	52	200	271	243	133	61
Secondary 1		92	3	7	34	23	20	4	-	1	-
Secondary 2		73	-	4	2	28	20	12	7	-	-
Secondary 3		36	-	-	4	-	6	7	11	5	3
Secondary 4		31	-	-	-	1	2	10	9	5	4
Pre-University 1		477	-	-	-	-	152	177	102	36	10
Pre-University 2		222	-	-	-	-	-	59	92	46	25
Pre-University 3		83	-	-	-	-	-	2	22	40	19

Source : Ministry of Education

15.9 ENROLMENT IN INSTITUTIONS OF HIGHER LEARNING, 1979 -1989

Number

Year	Total ¹		National University ² of Singapore		Nanyang Technological Institute		Singapore Polytechnic		Ngee Ann Polytechnic		Institute of Education		College of Physical Education	
	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females
1979	13,069	7,395	4,822	3,565	-	-	6,015	1,435	1,865	591	367	1,804	-	-
1980	14,124	8,509	5,162	4,038	-	-	6,562	1,712	2,049	782	351	1,977	-	-
1981	15,302	9,091	5,833	4,790	-	-	6,983	1,867	2,157	980	329	1,454	-	-
1982	17,169	9,791	6,231	5,740	525	57	7,714	2,033	2,507	1,153	192	808	-	-
1983	19,295	11,850	6,213	6,830	1,147	120	8,523	2,386	3,175	1,650	237	864	-	-
1984	22,582	13,361	6,567	7,329	1,715	230	9,565	2,789	4,545	2,374	163	619	27	20
1985	25,075	14,838	7,299	7,694	1,825	253	9,965	2,880	5,718	3,047	216	909	52	55
1986	26,470	15,847	7,840	7,944	1,900	302	10,022	2,885	6,426	3,510	226	1,140	56	66
1987	27,812	17,164	7,737	7,229	2,454	1,486	10,529	3,224	6,821	4,037	218	1,121	53	67
1988	28,664	18,326	8,254	7,946	2,650	1,751	10,479	3,553	7,066	4,213	172	802	43	61
1989	30,380	20,376	8,315*	8,311*	3,357	2,125	10,676	4,059	7,667	4,704	296	1,117	69	60

1 Include part-time students.

Source : Ministry of Education

2 Prior to 1980, figures refer to enrolment in the University of Singapore and Nanyang University which were merged in 1980 to form the National University of Singapore.

From 1980 to 1989, figures include enrolment for both undergraduate and postgraduate courses, including Regional English Language Centre candidates for higher degrees of National University of Singapore.

15.10 MALE STUDENTS ADMITTED TO INSTITUTIONS OF HIGHER LEARNING, 1979/80-1989/90

Course	Session											Number
	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	
Total	4,030	5,081	5,596	6,570	6,907	8,749	9,468	8,966	9,600	9,829	10,957	
National University of Singapore ¹	1,205	1,478	1,709	1,913	1,683	2,224	2,346	2,316	2,160	2,646	2,470	
Arts & Social Sciences	137	181	225	237	172	223	242	262	238	321	313	
Science ²	188	204	220	298	281	411	369	473	443	578	543	
Medicine	91	105	132	147	134	157	143	128	102	97	99	
Dentistry	25	20	19	22	23	35	29	22	21	24	23	
Law	36	59	62	67	94	107	113	105	109	116	97	
Business Administration	80	128	155	171	123	141	199	196	171	204	207	
Accountancy ³	78	85	89	91	81	101	122	134	-	-	-	
Architecture, Building & Estate Management	87	142	149	112	114	173	143	121	100	84	101	
Engineering	483	554	658	768	661	876	986	875	976	1,222	1,087	
Nanyang Technological Institute	-	-	-	-	-	-	641	695	887	988	1,558	
Engineering	-	-	-	-	-	-	641	695	694	786	1,147	
Accountancy ³	-	-	-	-	-	-	-	-	193	202	223	
Commerce	-	-	-	-	-	-	-	-	-	-	65	
Computer Technology	-	-	-	-	-	-	-	-	-	-	123	
Singapore Polytechnic ⁴	2,022	2,743	2,964	3,335	3,700	4,109	3,820	3,510	3,846	3,482	3,715	
Engineering	1,810	2,316	2,320	2,745	3,017	3,519	3,333	3,140	3,409	2,984	3,148	
Architecture & Building	124	332	478	414	450	416	351	229	198	213	226	
Nautical	88	95	119	120	105	87	71	71	83	62	75	
Business Administration ⁵	-	-	47	56	128	87	65	70	106	100	207	
Computer ⁶	-	-	-	-	-	-	-	-	50	123	59	
Ngee Ann Polytechnic ⁷	547	733	796	1,173	1,348	2,262	2,436	2,276	2,485	2,513	2,927	
Engineering	459	619	663	951	1,081	1,985	2,159	1,908	2,128	2,215	2,564	
Business Studies	88	114	133	165	192	167	228	301	279	220	254	
Computer Studies	-	-	-	57	75	110	49	67	78	78	99	
Mass Communication	-	-	-	-	-	-	-	-	-	-	10	
Institute of Education	256	127	127	149	176	129	199	144	197	183	236	
College of Physical Education ⁸	-	-	-	-	-	25	26	25	25	17	51	

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 College of Physical Education was established in July 1984.

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

15.11 FEMALE STUDENTS ADMITTED TO 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	2,676	3,388	3,281	4,185	4,882	5,064	5,639	5,919	6,575	6,882	7,893
National University of Singapore ¹	974	1,524	1,719	2,024	2,478	2,217	2,308	2,581	2,326	2,691	2,589
Arts & Social Sciences	315	466	513	661	781	686	719	785	773	979	971
Science ²	221	390	439	461	521	501	538	598	689	685	744
Medicine	49	65	38	53	68	49	57	61	79	73	61
Dentistry	11	18	19	15	14	3	9	16	14	10	11
Law	61	60	72	94	103	105	87	130	87	84	99
Business Administration	117	198	238	269	397	353	292	332	337	456	485
Accountancy ³	132	218	258	296	342	326	334	400	-	-	-
Architecture, Building & Estate Management	37	63	70	106	125	108	115	106	126	164	144
Engineering	31	46	72	69	127	86	157	153	221	240	74
Nanyang Technological Institute	-	-	-	-	-	-	82	118	563	679	945
Engineering	-	-	-	-	-	-	82	118	138	170	286
Accountancy ³	-	-	-	-	-	-	-	-	425	509	485
Commerce	-	-	-	-	-	-	-	-	-	-	140
Computer Technology	-	-	-	-	-	-	-	-	-	-	34
Singapore Polytechnic ⁴	505	737	778	859	997	1,189	1,000	895	1,316	1,405	1,633
Engineering	426	532	474	553	625	790	727	721	836	797	928
Architecture & Building	79	205	300	302	343	347	222	101	119	122	148
Nautical	-	-	-	-	-	-	-	-	-	-	1
Business Administration ⁵	-	-	4	4	29	52	51	73	239	333	476
Computer ⁶	-	-	-	-	-	-	-	-	122	153	80
Ngee Ann Polytechnic ⁷	265	379	358	561	904	1,220	1,476	1,517	1,664	1,512	1,959
Engineering	99	163	125	179	303	528	611	474	540	543	700
Business Studies	166	216	233	319	436	582	765	865	934	801	973
Computer Studies	-	-	-	63	165	110	100	178	190	168	228
Mass Communication	-	-	-	-	-	-	-	-	-	-	58
Institute of Education	932	748	426	741	503	418	737	778	671	570	734
College of Physical Education ⁸	-	-	-	-	-	20	36	30	35	25	33

Note : See note to Table 15.10

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

15.12 MALE GRADUATES FROM INSTITUTIONS OF HIGHER LEARNING, 1978/79-1988/89

Session Course		Number										
		1978/79	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89
Total		3,511	3,055	3,426	3,736	4,085	4,749	5,140	5,827	6,847	7,347	7,406
National University of Singapore ¹		897	902	1,117	1,254	1,397	1,583	1,337	1,384	1,584	1,631	1,836
Arts & Social Sciences		184	188	229	209	224	239	280	249	281	291	325
Science ²		127	99	198	293	270	219	313	345	432	414	526
Medicine		48	69	68	77	83	105	82	103	155	113	164
Dentistry		13	15	18	11	27	23	12	20	23	26	34
Law		56	41	43	36	31	52	60	71	82	100	113
Business Administration		102	86	147	139	145	161	178	140	151	201	209
Accountancy		74	81	92	96	91	80	73	81	99	-	-
Architecture, Building & Estate Management		77	77	51	91	112	155	146	130	152	180	148
Engineering		216	246	271	302	414	549	193	245	209	306	317
Nanyang Technological Institute		-	-	-	-	-	-	501	597	560	736	794
Engineering		-	-	-	-	-	-	501	597	560	736	664
Accountancy		-	-	-	-	-	-	-	-	-	-	130
Singapore Polytechnic ³		2,014	1,590	1,594	1,838	1,965	2,148	2,223	2,527	2,776	2,909	2,825
Engineering		1,687	1,390	1,412	1,536	1,598	1,694	1,811	2,037	2,397	2,464	2,412
Architecture & Building		230	179	157	274	262	287	291	324	234	317	268
Nautical		97	21	25	28	67	106	79	80	35	30	32
Business Administration ⁴		-	-	-	-	38	61	42	86	55	39	47
Computer ⁵		-	-	-	-	-	-	-	-	55	59	66
Ngee Ann Polytechnic ³		492	452	493	492	585	834	953	1,167	1,769	1,878	1,780
Engineering		404	394	447	421	483	665	781	919	1,511	1,675	1,553
Business Studies		88	58	46	71	102	124	151	169	160	149	180
Computer Studies		-	-	-	-	-	45	21	79	98	54	47
Institute of Education		108	111	222	152	138	184	126	152	155	186	166
College of Physical Education ⁶		-	-	-	-	-	-	-	-	3	7	5

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.

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, 1978/79-1988/89

Session Course		Number										
		1978/79	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89
Total		2,207	1,789	2,941	2,783	2,866	3,583	3,815	4,591	5,036	5,235	5,409
National University of Singapore ¹		1,008	869	1,070	1,141	1,508	1,826	2,117	2,476	2,390	1,993	2,150
Arts & Social Sciences		373	330	390	414	541	600	766	873	828	808	887
Science ²		184	186	262	284	393	507	541	600	580	568	640
Medicine		42	47	53	51	44	58	55	47	45	56	60
Dentistry		18	18	18	11	16	21	15	15	17	2	10
Law		73	56	42	37	49	54	67	89	90	108	84
Business Administration		94	84	86	134	188	229	286	391	367	303	343
Accountancy		181	89	102	125	201	265	291	330	311	-	-
Architecture, Building & Estate Management		21	40	65	38	49	56	77	113	118	124	93
Engineering		22	19	52	47	27	36	19	18	34	24	33
Nanyang Technological Institute		-	-	-	-	-	-	56	64	104	386	522
Engineering		-	-	-	-	-	-	56	64	104	386	115
Accountancy		-	-	-	-	-	-	-	-	-	-	407
Singapore Polytechnic ³		478	379	469	586	561	615	644	714	950	911	941
Engineering		317	261	317	355	325	382	435	520	662	588	671
Architecture & Building		161	118	152	231	233	229	205	168	172	211	109
Nautical		-	-	-	-	-	-	-	-	-	-	-
Business Administration ⁴		-	-	-	-	3	4	4	26	37	41	73
Computer ⁵		-	-	-	-	-	-	-	-	79	71	88
Ngee Ann Polytechnic ³		171	128	102	259	343	459	589	765	941	1,181	1,207
Engineering		55	51	28	105	141	126	141	246	422	496	406
Business Studies		116	77	74	154	202	273	366	405	418	546	649
Computer Studies		-	-	-	-	-	60	82	114	101	139	152
Institute of Education		550	413	1,300	797	454	683	408	570	649	757	581
College of Physical Education ⁶		-	-	-	-	-	-	1	2	2	7	8

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, 1985-1989

Number

Course Level	1985			1986			1987			1988			1989		
	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females
Total	22,276	18,043	4,233	23,687	18,669	5,018	28,863	22,088	6,775	29,688	23,403	6,285	29,066	22,922	6,144
Full-time	11,891	8,626	3,265	11,171	7,360	3,811	13,425	8,826	4,599	12,509	8,203	4,306	9,982	6,307	3,675
Part-time	10,385	9,417	968	12,516	11,309	1,207	15,438	13,262	2,176	17,179	15,200	1,979	19,084	16,615	2,469
Diploma in Applied Arts	95	26	69	88	28	60	82	35	47	108	42	66	106	36	70
Full-time	95	26	69	88	28	60	82	35	47	108	42	66	106	36	70
Industrial Technician Certificate	1,185	989	196	1,167	989	178	1,493	1,304	189	1,751	1,506	245	1,708	1,482	226
Full-time	885	717	168	905	744	161	1,168	1,000	168	1,336	1,125	211	1,343	1,141	202
Part-time	300	272	28	262	245	17	325	304	21	415	381	34	365	341	24
National Trade Certificate (Grade 2)	4,712	4,447	265	4,143	3,908	235	5,367	4,978	389	5,987	5,650	337	5,790	5,442	348
Full-time	1,076	1,012	64	752	672	80	1,241	1,097	144	1,346	1,229	117	1,301	1,175	126
Part-time	3,636	3,435	201	3,391	3,236	155	4,126	3,881	245	4,641	4,421	220	4,489	4,267	222
National Trade Certificate (Grade 3)	12,094	10,081	2,013	12,839	10,928	1,911	15,384	12,496	2,888	16,665	13,905	2,760	13,415	11,433	1,982
Full-time	6,025	4,748	1,277	4,281	3,365	916	4,982	3,843	1,139	4,722	3,597	1,125	-	-	-
Part-time	6,069	5,333	736	8,558	7,563	995	10,402	8,653	1,749	11,943	10,308	1,635	13,415	11,433	1,982
Artisan Certificate/ Certificate of Competency	12	10	2	94	85	9	59	55	1	66	62	4	197	191	6
Full-time	12	10	2	44	44	-	28	28	-	-	-	-	-	-	-
Part-time	-	-	-	50	41	9	28	27	1	66	62	4	197	191	6
National Trade Certificate (Grade 3)/Certificate of Vocational Training ¹	2,406	1,913	493	2,768	2,200	568	3,247	2,437	810	2,428	1,853	575	4,716	3,614	1,102
Full-time	2,406	1,913	493	2,768	2,200	568	3,247	2,437	810	2,428	1,853	575	4,716	3,614	1,102
Certificate in Business Studies ²	531	103	428	869	152	717	902	177	725	1,040	164	876	1,098	172	926
Full-time	531	103	428	869	152	717	902	177	725	1,040	164	876	1,098	172	926
Certificate in Office Skills ³	851	87	764	1,464	155	1,309	1,775	209	1,566	1,529	193	1,336	1,418	169	1,249
Full-time	851	87	764	1,464	155	1,309	1,775	209	1,566	1,529	193	1,336	1,418	169	1,249
Ad hoc	390	387	3	255	224	31	557	397	160	114	28	86	618	383	235
Full-time	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-
Part-time	380	377	3	255	224	31	557	397	160	114	28	86	618	383	235

Note : Figures exclude part-time courses in languages, commercial, academic and non-examination courses.

Source : Vocational & Industrial Training Board

1 Prior to 1989, those 1st Year Basic Vocational Training was known as Pre-Vocational Training Course.

2 Include commercial courses.

3 Prior to July 1989 it was known as Preliminary Certificate in Business Studies.

15.15 TRAINEES WHO COMPLETED COURSES AT VOCATIONAL AND INDUSTRIAL TRAINING INSTITUTES, 1985 -1989

Course Level	Number														
	1985			1986			1987			1988			1989		
	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females
Total	18,049	14,847	3,202	21,180	17,266	3,914	23,963	19,000	4,963	26,026	20,756	5,270	26,911	21,539	5,372
Full-time	7,597	5,297	2,300	8,472	5,834	2,638	8,853	6,002	2,851	9,025	5,749	3,276	7,532	4,695	2,837
Part-time	10,452	9,550	902	12,708	11,432	1,276	15,110	12,998	2,112	17,001	15,007	1,994	19,379	16,844	2,535
Diploma in Applied Arts	59	22	37	64	25	39	65	22	43	78	20	58	78	24	54
Full-time	59	22	37	64	25	39	65	22	43	78	20	58	78	24	54
Industrial Technician															
Certificate	584	526	58	476	395	81	770	633	137	827	672	155	1,062	915	147
Full-time	532	480	52	425	348	77	641	517	124	700	557	143	923	781	142
Part-time	52	46	6	51	47	4	129	116	13	127	115	12	139	134	5
National Trade Certificate (Grade 2)	4,259	4,025	234	4,026	3,819	207	5,109	4,784	325	5,347	5,028	319	5,700	5,317	383
Full-time	462	422	40	646	585	61	1,009	911	98	737	638	99	1,133	986	147
Part-time	3,797	3,603	194	3,380	3,234	146	4,100	3,873	227	4,610	4,390	220	4,567	4,331	236
National Trade Certificate (Grade 3)	9,542	8,202	1,340	12,269	10,563	1,706	13,250	10,990	2,260	15,370	13,075	2,295	17,027	14,296	2,731
Full-time	3,302	2,662	640	3,344	2,727	617	2,820	2,822	538	3,302	2,678	624	3,388	2,655	733
Part-time	6,240	5,540	700	8,925	7,836	1,089	10,430	8,708	1,722	12,068	10,397	1,671	13,639	11,641	1,998
Artisan Certificate/ Certificate of Competency															
Full-time	12	10	2	66	62	4	56	55	1	56	56	-	197	191	6
Part-time	12	10	2	30	30	-	28	28	-	-	-	-	-	-	-
	-	-	-	36	32	4	28	27	1	56	56	-	197	191	6
National Trade Certificate (Grade 3)/Certificate of Vocational Training ¹															
Full-time	1,930	1,556	374	2,407	1,914	493	2,779	2,080	699	2,132	1,638	494	-	-	-
	1,930	1,556	374	2,407	1,914	493	2,779	2,080	699	2,132	1,638	494	-	-	-
Certificate in Business Studies ²															
Full-time	415	68	347	424	88	336	382	54	328	645	87	558	629	101	528
	415	68	347	424	88	336	382	54	328	645	87	558	629	101	528
Certificate in Office Skills ³															
Full-time	876	68	808	1,132	117	1,015	1,129	108	1,021	1,431	131	1,300	1,381	148	1,233
	876	68	808	1,132	117	1,015	1,129	108	1,021	1,431	131	1,300	1,381	148	1,233
Ad hoc	372	370	2	316	283	33	423	274	149	140	49	91	837	547	290
Full-time	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Part-time	363	361	2	316	283	33	423	274	149	140	49	91	837	547	290

Note : See note to Table 15.14.

Source : Vocational & Industrial Training Board

15.16 GOVERNMENT EXPENDITURE ON EDUCATION, 1979/80 - 1989/90

Thousand Dollars

	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90*
Total	557,528	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	1,848,709
Recurrent Expenditure	503,137	589,419	712,732	983,751	1,107,113	1,272,559	1,388,325	1,277,288	1,352,551	1,461,858	1,648,365
Primary Schools	186,266	210,143	241,364	337,339	357,249	403,915	422,806	384,044	392,741	446,713	486,303
Secondary Schools & Junior Colleges	181,545	211,840	244,940	323,163	348,200	392,387	431,866	402,396	424,465	486,226	533,744
Vocational & Industrial Training Board ¹	25,000	29,694	38,900	47,401	55,121	65,662	80,294	68,966	64,191	72,857	79,042
Tertiary	86,532	109,650	156,105	229,057	291,782	350,152	387,224	362,813	413,541	393,298	471,619
National University of Singapore & Nanyang Technological Institute ²	58,185	74,557	108,527	156,435	197,947	240,448	253,811	240,805	293,443	259,014	314,716
Institute of Education & College of Physical Education ³	7,831	11,089	13,955	17,746	18,817	21,268	22,979	19,883	20,843	21,072	28,093
Polytechnics	20,516	24,004	33,623	54,876	75,018	88,436	110,434	102,125	99,255	113,212	128,810
Others ⁴	23,794	28,092	31,423	46,791	54,761	60,443	66,135	59,069	57,613	62,764	77,657
Development Expenditure	54,391	98,910	229,785	374,679	504,534	497,169	387,255	361,479	301,405	142,444	200,344

1 Prior to 1980/81, figures include expenditure of Adult Education Board.

2 From 1981/82, figures include expenditure of Nanyang Technological Institute.

3 From 1984/85, figures include expenditure of College of Physical Education.

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

Source : Ministry of Education

16 HEALTH AND MEDICAL CARE

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 19 maternal and child health clinics. The community health clinics offer general and curative treatment while maternal and child health clinics concentrate on preventive health care for women of child-bearing age and pre-school children, and implementing immunization

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

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

Hospital Services

There are 10 government and government restructured hospitals of which 6 are general hospitals providing accident and emergency services and multi-disciplinary treatment, and 4 specialist hospitals providing specialist treatment in obstetrics and gynaecology, psychiatry, dermatology, venereology 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 193 dental clinics located at the various hospitals, outpatient/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, 1979 -1989

Number

Year	Hospitals				Government Dental Clinics ¹	Government Outpatient Dispensaries/ Polyclinics	Maternal & Child Health Clinics
	Total	Government	Government Restructured	Private			
1979	26	13	-	13	132	27	30
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	10	1	11	176	26	29
1986	22	10	1	11	183	26	28
1987	21	9	1	11	183	24	23
1988	21	8	2	11	191	21	20
1989	20	7	3	10	193	21	19

¹ Include dental clinics in schools.

Source : Ministry of Health

16.2 REGISTERED MEDICAL PERSONNEL, 1979 -1989

Number

Year	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
1979	806	1,045	157	189	62	289	3,241	2,078	1,822	264	536	271
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

1 Refer to those with professional degrees.

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

Source : Ministry of Health

16.3 BEDS IN GOVERNMENT AND GOVERNMENT RESTRUCTURED HOSPITALS, 1979 -1989

	Number										
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Government Hospitals											
Total	8,485	8,078	8,365	8,246	8,222	8,085	8,047	7,889	7,717	7,348	5,765
General Hospitals											
Alexandra Hospital	503	503	503	545	545	545	560	600	594	563	554
Changi Hospital	180	202	202	202	203	203	203	182	182	182	182
Sembawang Hospital ¹	64	64	64	62	-	-	-	-	-	-	-
Singapore General Hospital	1,459	1,397	1,651	1,500	1,593	1,656	1,671	1,650	1,621	1,488	-
Tan Tock Seng Hospital	1,345	1,335	1,337	1,324	1,274	1,274	1,434	1,407	1,410	1,445	1,432
Toa Payoh Hospital	412	412	418	410	410	410	410	410	410	410	407
Specialised Hospitals											
Kandang Kerbau Hospital	687	687	687	687	681	681	681	561	561	510	440
St Andrew's Hospital ²	120	80	80	80	80	80	80	80	-	-	-
Middle Road Hospital ³	44	44	44	44	44	44	44	35	35	-	-
Middleton Hospital ⁴	228	228	228	228	228	228	-	-	-	-	-
Woodbridge Hospital ⁵	3,193	2,876	2,901	2,914	2,914	2,714	2,714	2,714	2,654	2,500	2,500
View Road Hospital	250	250	250	250	250	250	250	250	250	250	250
Govt Restructured Hospitals											
Total	-	-	-	-	-	-	282	463	552	623	2,159
National University Hospital ⁶	-	-	-	-	-	-	282	463	552	623	680
Singapore General Hospital ⁷	-	-	-	-	-	-	-	-	-	-	1,479

1 Closed with effect from 31 March 1983.

2 Closed with effect from 31 December 1987.

3 Closed with effect from 9 December 1988.

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

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

6 Started functioning from 24 June 1985.

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

Source :- Ministry of Health

16.4 PRIVATE HOSPITAL BEDS, 1979 -1989

	Number										
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	1,379	1,507	1,542	1,583	1,637	1,602	1,671	1,837	1,836	1,837	1,792
Gleneagles Hospital	121	121	121	121	121	127	127	127	126	130	132
Jurong Hospital	62	62	40	40	40	40	40	40	40	40	40
Mt Alvernia Hospital	326	326	312	304	304	304	304	304	304	304	304
The American Hospital of Singapore ¹	45	21	21	149	149	149	149	149	149	145	137
Youngberg Hospital	79	72	68	68	68	55	55	38	38	38	20
St Andrew's Mission Hospital ²	50	50	50	-	-	-	-	-	-	-	-
Adam Road Hospital ³	20	30	30	45	45	45	45	45	45	45	45
Kwong Wai Shlu Hospital	425	425	425	425	425	425	505	505	505	454	454
Shenton Nursing Home	13	15	15	15	18	18	18	16	16	16	15
Thomson Medical Centre	74	77	96	96	96	96	108	108	108	160	160
Mt Elizabeth Hospital	120	264	322	282	337	323	300	485	485	485	485
Eye Clinic ⁴	22	22	20	20	20	20	20	20	20	20	-
Gental Nursing & Health Centre ⁵	22	22	22	18	14	-	-	-	-	-	-

1 Known as St Mark's Hospital prior to 1983.

2 Services were discontinued after 22 April 1982.

3 Known as S'pore Nursing Home prior to 1 April 1989.

4 Closed with effect from 31 December 1989.

5 Closed with effect from 1 February 1984.

Source : Ministry of Health

16.5 ADMISSIONS IN GOVERNMENT AND GOVERNMENT RESTRUCTURED HOSPITALS, 1979-1989

	Number										
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Government Hospitals											
Total	234,328	234,502	230,330	233,683	226,991	230,138	229,995	220,739	224,145	235,958	140,330
General Hospitals											
Alexandra Hospital	33,089	34,841	33,056	32,459	31,553	33,898	33,255	30,930	31,832	30,360	27,641
Changi Hospital	3,157	4,113	5,289	3,888	4,343	3,466	3,755	4,157	4,102	4,964	5,089
Sembawang Hospital ¹	994	1,076	1,078	1,058	119	-	-	-	-	-	-
Singapore General Hospital	60,208	58,637	54,655	60,552	60,685	62,310	64,982	65,473	73,950	83,756	-
Tan Tock Seng Hospital	37,789	37,680	35,961	36,671	39,915	38,459	42,987	45,475	47,672	47,958	45,911
Toa Payoh Hospital	30,414	31,937	31,852	29,280	29,410	29,925	29,477	28,070	26,961	27,968	26,077
Specialised Hospitals											
Kandang Kerbau Hospital	55,236	53,437	53,904	54,280	48,072	48,436	48,442	39,620	32,648	34,409	29,648
St Andrew's Hospital ²	180	192	152	104	122	174	124	158	140	-	-
Middle Road Hospital ³	618	682	846	925	820	887	738	767	803	673	-
Middleton Hospital ⁴	7,347	6,066	7,811	9,215	6,562	6,587	-	-	-	-	-
Woodbridge Hospital ⁵	5,243	5,738	5,596	5,177	5,335	5,828	6,056	5,959	5,908	5,756	5,837
View Road Hospital	53	103	128	74	55	168	179	130	129	114	127
Govt Restructured Hospitals											
Total	-	-	-	-	-	-	2,993	17,280	26,735	31,557	118,460
National University Hospital ⁶	-	-	-	-	-	-	2,993	17,280	26,735	31,557	38,415
Singapore General Hospital ⁷	-	-	-	-	-	-	-	-	-	-	80,045

Note : See note to Table 16.3.

Source: Ministry of Health

16.6 HOSPITAL ADMISSIONS AND GOVERNMENT CLINIC OUTPATIENT ATTENDANCES, 1979 -1989

	Number										
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Hospital Admission											
Total	258,817	265,828	266,548	275,234	271,790	277,881	280,152	291,327	313,523	339,858	331,684
Government	234,328	234,502	230,330	233,683	226,991	230,138	229,995	220,739	224,145	235,958	140,330
Government Restructured ¹	-	-	-	-	-	-	2,993	17,280	26,735	31,557	118,460
Private	24,489	31,326	36,218	41,551	44,799	47,743	47,164	53,308	62,643	72,343	72,894
Government Outpatient Attendances											
Specialist Outpatient Clinics ²	1,321,992	1,275,260	1,234,808	1,238,563	1,241,146	1,222,817	1,246,343	1,311,863	1,339,712	1,386,308	1,344,508
Accident & Emergency Department ²	335,389	377,022	403,330	439,734	458,824	469,522	438,308	378,145	436,660	485,762	514,434
Outpatient Dispensaries/ Polyclinics	2,907,204	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
Maternal & Child Health Clinics	1,020,221	1,025,351	1,013,136	926,286	869,015	782,118	747,623	765,919	771,122	808,395	812,503
Dental Clinics	1,046,167	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 Started with effect from 24 June 1985.

2 Include Government Restructured Hospitals.

Source : Ministry of Health

16.7 VISITS TO GOVERNMENT DENTAL CLINICS, 1979 -1989

Number

Year	Total	Dental Clinics		
		School	Hospital	Outpatient
1979	1,046,167	516,572	198,186	331,409
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

Source : Ministry of Health

16.8 NOTIFICATIONS OF SPECIFIC NOTIFIABLE DISEASES, 1979 -1989

Year	Dengue/ DHF	Malaria	Enteric Fever	Viral Hepatitis	Cholera	Polio- myelitis	Diphthe- ria	Chicken pox	Viral Enceph- litis	Tuber- culosis	Number
											Leprosy
1979	156	208	208	392	10	1	-	653	24	2,800	96
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	1,619*	48

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

1 Refer to Typhoid and Paratyphoid.

Source : Ministry of Health

16.9 IMMUNIZATION COVERAGE BY GOVERNMENT AND PRIVATE SECTORS, 1979 -1989

Per Cent

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*
BCG											
National	87	85	83	87	82	95	93	94	98	99	99
Government	87	85	83	80	77	75	73	68	61	57	53
Private	na	na	na	7	5	20	20	26	37	42	46
Diphtheria											
National	87	84	87	83	84	77	78	91	96	90	90
Government	71	69	70	66	63	63	63	69	59	66	65
Private	16	15	17	17	18	14	15	22	37	24	25
Poliomyelitis											
National	84	83	87	83	86	81	81	94	95	90	91
Government	72	69	71	68	69	64	63	69	59	66	66
Private	12	14	16	15	17	17	18	25	36	24	25
Measles											
National	27	48	59	78	88	85	75	85	94	82	78
Government	25	44	54	71	78	73	61	64	63	62	61
Private	2	4	5	7	10	12	14	21	31	20	17

Source : Ministry of Health

16.10 VACCINATION AND IMMUNIZATION OF SCHOOL CHILDREN, 1979 -1989

Thousand Doses

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
BCG Vaccination	29.4	27.4	28.8	44.5	35.2	35.4	32.9	29.2	31.2	39.0	31.5
Diphtheria Tetanus	124.7	115.5	110.1	98.0	84.7	81.2	81.8	78.5	71.0	79.2	76.2
Poliomyelitis Immunization	113.5	107.6	102.2	91.6	84.2	75.6	80.4	77.1	57.0	77.4	73.6
Rubella	36.3	26.9	17.7	51.2	44.6	44.9	44.5	40.0	38.2	41.7	36.4

Source: Ministry of Health

16.11 STUDENT MEDICAL CHECK-UP, 1979 -1989

Thousand

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	214.7	218.5	225.3	204.0	185.0	174.3	196.6	195.6	469.6	616.3	611.1
Category of Students:											
New Entrants	46.5	45.8	41.9	39.4	42.7	38.4	39.1	39.9	39.9	40.5	40.8
Primary School Leavers	42.9	40.3	37.2	55.7	48.3	48.8	47.2	42.9	39.7	42.7	38.3
Secondary School Leavers	17.8	15.2	15.0	15.6	17.2	21.4	37.4	35.7	35.2	38.7	37.8
Re-examination	106.3	115.1	130.2	92.6	74.5	64.0	71.7	77.2	354.8	485.6	486.6
Others ¹	1.2	2.0	1.0	0.7	2.3	1.7	1.3	-	-	8.8	7.6
Sex of Students:											
Males	98.8	101.9	106.1	95.9	86.3	79.0	100.4	98.9	242.8	319.8	317.4
Females	115.9	116.6	119.2	106.1	98.7	95.3	96.2	96.7	226.8	296.5	293.7

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

Source : Ministry of Health

16.12 COMMON DEFECTS OF STUDENTS EXAMINED, 1979 -1989

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Incidence of:	Per 10,000 Males Examined										
Defective Vision	2,885	2,939	3,114	3,161	2,690	2,786	3,490	4,062	3,598	3,824	4,062
Obesity - Primary School Entrants	-	441	255	250	380	622	777	952	1,174	1,189	1,156
- Primary School Leavers	-	762	1,040	1,064	1,204	1,123	1,144	1,443	1,570	1,789	1,785
- Secondary School Leavers	-	-	-	-	-	-	-	-	1,271	1,320	1,385
Skin Infection	97	121	129	128	99	76	64	83	44	86	64
Scoliosis	-	33	61	78	127	331	587	477	538	494	527
Heart Disease	202	215	242	177	172	130	176	141	229	182	128
Defective Hearing	86	96	224	243	165	112	155	95	126	82	77
Genito-urinary Malformation	271	354	258	176	170	166	177	186	186	156	198
Incidence of:	Per 10,000 Females Examined										
Defective Vision	3,851	3,779	4,158	3,558	3,747	3,773	4,409	4,514	3,998	4,151	4,377
Obesity - Primary School Entrants	-	386	195	181	239	555	650	761	973	1,004	938
- Primary School Leavers	-	572	799	944	952	757	716	930	1,023	1,020	1,010
- Secondary School Leavers	-	556	864	916	1,442	1,019	971	1,047	1,106	1,158	1,162
Skin Infection	65	109	101	70	78	173	50	49	23	73	56
Scoliosis	-	67	177	278	529	622	957	852	791	837	896
Heart Disease	198	210	190	193	373	138	201	147	189	182	158
Defective Hearing	68	97	184	211	142	88	126	72	83	81	70
Genito-urinary Malformation	120	105	75	65	45	55	40	40	60	36	11

Source: Ministry of Health

16.13 BLOOD DONATIONS AND TRANSFUSIONS, 1979 -1989

Year	Donors	Blood Donations Received					Blood Transfusions Given			
		Total	National Blood Centre ¹	Mobile	Red Cross	National University Hospital Blood Centre ²	Total	Government Hospitals	Government Restructured Hospitals ³	Private Hospitals
	Persons	Number of Units								
1979	35,384	51,897	25,903	25,994	-	-	45,261	43,188	-	2,073
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	45,593	571	6,247
1986	42,337	61,990	34,448	22,041	5,501	-	56,045	45,375	3,429	7,241
1987	39,654	59,985	34,137	20,474	5,374	-	53,658	42,619	3,682	7,357
1988	39,478	57,991	36,814	16,684	4,493	-	52,617	40,547	4,264	7,806
1989	41,738	61,239	35,932	20,736	4,115	456	55,096	24,476	23,049	7,571

Note : One unit of blood is approximately 430 millilitres.

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 wef 1 Nov 89.

³ Started functioning from August 1985.

17 CULTURE AND RECREATION

17 CULTURE AND RECREATION

Radio and Television

The Singapore Broadcasting Corporation (SBC) was established on 1 February 1980. It took over the functions of the Department of Broadcasting and the Radio and Television Licensing Section of the Inland Revenue Department.

Radio and TV programmes of SBC 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 six radio services - one for each official language and the fifth, a bilingual English/Mandarin serious music programme service, broadcast in FM stereo only. The four language services, operate simultaneously on FM stereo, medium-wave and short-wave frequencies.

Television was introduced in Singapore on 15 February 1963. The Corporation now 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 two channels from 6 am to 12 midnight.

Under the Singapore Broadcasting Corporation Act, 1979, a licence has to be obtained by every person using a radio and/or television receiver at any place of residence, premises or in a motor vehicle. A licence permits the use of one or more television receivers and one or more radios in any one place of residence. The current annual licence fee is \$36 for a monochrome television set, \$80 for a colour set and \$18 for a radio receiver only.

On August 1, 1986, the commercial operations functions were transferred to the SBC Enterprises Pte Ltd, the Corporation's wholly-owned subsidiary, which was incorporated on January 1, 1985. The main activities of the SBC Enterprises are the sale and marketing of TV and radio air time as well as the production of video commercial and documentaries/training filmlets.

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 for subscribers with Radio or Radio and Television Licences and \$11.00 per set for those without such licences.

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, both a national and public library maintained by the government, provides essential library facilities as well as a variety of cultural, educational and recreational programmes for the community. Membership is open to the general public free of charge.

In addition to the Central Library at Stamford Road, there are eight full-time branch libraries in Marine Parade, Queenstown, Toa Payoh, Ang Mo Kio, Bedok, Bukit Merah, Geylang East and Jurong East; and one mobile library vehicle

providing weekly services to four community centres and two Residents' Committee centres.

The library maintains, in addition to the normal stock of books, collections of special interest for research and other purposes as well as periodicals, newspapers, music scores, maps, braille and large print books.

The library also has a microfilm unit and many documents and publications are on microfilm and microfiche. The Arts Resource Centre set up within the Reference Services Division of the Central Library maintains a good collection of books, periodicals, and audio-visual materials, such as slides, cassette tapes, video cassettes, video and compact discs, records, posters and prints, covering various aspects of fine arts. Audio-visual services are also available at the branches with a basic collection on general subjects.

The computerized integrated library system was implemented in 1987, starting with cataloguing, loan services, enquiries and online public access catalogue. Data on library membership, loans and collection of books are generated on a monthly and annual basis by the computer.

17.1 RADIO AND TELEVISION LICENCES AND REDIFFUSION SUBSCRIBERS, 1979-1989

Number

End of Year	Radio Licences	Radio & Television Licences	Rediffusion Subscribers
1979	58,912	371,692	100,487
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	533,020	55,406

Source : Singapore Broadcasting Corporation
Rediffusion (Singapore) Pte Ltd

17.2 RADIO AND TELEVISION TRANSMISSION, 1979-1989

Hours Per Week

Year	Radio							Television
	Total	AM/FM				FM Stereo	Radio 10 ¹	
		English	Malay	Chinese	Tamil			
1979	569	126	135	147	105	56	-	104.0
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

¹ Operated with effect from January 1989.

Source: Singapore Broadcasting Corporation

17.3 CINEMAS, 1979-1989

Year	Cinemas			Total Seating Capacity	Attendances
	Total	Air Conditioned	Others		
	Number			Thousand	
1979	74	60	14	69	46,054
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

Source : Customs & Excise Department

17.4 NATIONAL LIBRARY MEMBERSHIP, 1979-1989

Number

Year	Total	Persons Aged 12 Years & Over ¹	Children Under 12 Years ²
1979	342,241	157,830	184,411
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

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.

Source : Singapore National Library

17.5 BOOK COLLECTIONS AT THE NATIONAL LIBRARY, 1979-1989

Number

Year	Total	English	Chinese	Malay	Tamil
1979	1,232,262	646,609	354,568	158,428	72,657
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

Source : Singapore National Library

17.6 LOANS OF BOOKS AT THE NATIONAL LIBRARY, 1979-1989

Number

Year	Total	Persons Aged 12 Years & Over ¹	Children Under 12 Years ²
1979	3,264,697	1,557,373	1,707,324
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

Note : See note to Table 17.4.

Source : Singapore National Library

17.7 DAILY NEWSPAPER CIRCULATION, 1979-1989

Number

Year	Total	English	Chinese	Malay	Indian
1979	587,690	249,357	299,872	29,832	8,629
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

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