



YEARBOOK OF STATISTICS *SINGAPORE* *1988*

DEPARTMENT OF STATISTICS
SINGAPORE

PREFACE

The Yearbook of Statistics, Singapore, 1988 is the twenty-second 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. With the inclusion of the charts in this edition, the Singapore Statistical Charts ceases to be published. This Yearbook should provide the necessary general statistical reference on Singapore.

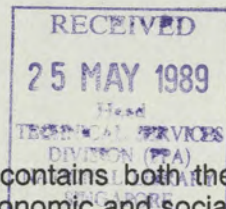
Most of the data are compiled from series maintained by the Department of Statistics and other government departments and statutory bodies. The Department of Statistics gratefully acknowledges the co-operation and assistance of all the organisations that have provided data for the publication in this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

KHOO CHIAN KIM
CHIEF STATISTICIAN
DEPARTMENT OF STATISTICS
SINGAPORE

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NOTATIONS

* preliminary
na not available
- nil or negligible

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

KEY INDICATORS

ECONOMIC INDICATORS, 1978-1988

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									
1978	17,787.4	6,303	5,928.4	6,957.4	24,046.0	8,199.9	16,144.4	2,976.3	13,168.1	812.4	20,492.3	66.6
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	11,116	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	12,608	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	13,732	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	13,355	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	39,612.8	13,061	15,767.9	14,587.4	39,641.4	14,503.1	23,861.5	5,606.8	18,254.7	1,443.0	37,502.9	100.0
1987	43,682.5	14,253	17,605.6	16,441.9	43,141.4	15,065.1	25,644.3	5,618.4	20,025.9	1,743.0	46,196.2	117.4
1988*	49,864.5	15,999	20,926.7	17,586.3	47,908.4	16,226.2	28,163.7	5,446.8	22,716.9	2,015.5	55,524.1	139.0

1 Exclude petrochemicals.

2 Refer to establishments engaging 10 or more workers.

GROWTH RATES IN ECONOMIC INDICATORS, 1978-1988

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						
1978	12.2	4.9	16.7	20.0	8.6	14.1	7.6	11.5	6.7	104.9	12.0	11.6
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	12.6	22.9	15.2	6.9	20.3	5.5	13.3	-3.8	-8.5	-1.5	-5.5
1983	15.1	13.4	26.5	12.4	8.2	10.8	5.7	9.6	4.8	4.2	2.0	2.1
1984	11.6	8.9	14.0	10.4	8.3	9.4	5.1	5.2	5.1	3.0	10.1	9.0
1985	-1.2	-2.7	-11.0	-14.8	-1.6	-12.1	4.2	24.5	-0.9	-38.7	-6.9	-7.3
1986	-1.8	-2.2	-4.7	-11.9	1.8	-11.7	3.3	1.1	4.0	28.8	-3.4	8.6
1987	10.3	9.1	11.7	12.7	8.8	3.9	7.5	0.2	9.7	20.8	23.2	17.4
1988*	14.2	12.3	18.9	7.0	11.0	7.7	9.8	-3.1	13.4	15.6	20.2	18.4

ECONOMIC INDICATORS, 1978-1988 (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	O11	Non-o11	Total	O11	Non-o11	
	Thousand Square Metres				Million Dollars								
1978	6,398.6	1,900.6	5,218.5	5,938.5	52,586.8	22,985.5	13,226.2	6,397.9	6,828.3	9,759.3	104.3	9,655.0	29,601.3
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

³ Refer to private sector only.

GROWTH RATES IN ECONOMIC INDICATORS, 1978-1988 (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	
1978	12.4	14.2	-5.0	1.0	15.3	14.4	13.5	9.0	18.1	15.6	-41.0	16.9	16.0
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	13.1	-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

ECONOMIC INDICATORS, 1978-1988 (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	Loaded	Discharged	Total	Loaded	Discharged					
	Thousand Freight Tonnes			Tonnes			Thousand		Million Kilowatt Hours		Million Cubic Metres
1978	73,339.2	28,506.7	44,832.5	123,093	64,359	58,734	3,977	1,760	5,898.0	539.0	223.9
1979	79,812.8	31,388.4	48,424.4	158,087	79,786	78,301	5,385	2,490	6,483.1	597.1	237.9
1980	80,962.5	32,412.5	48,550.0	181,775	91,062	90,713	7,354	3,535	6,967.6	614.1	256.4
1981	87,343.8	33,745.1	53,598.7	197,103	96,172	100,931	9,563	5,058	7,461.6	625.6	276.4
1982	95,660.9	35,665.0	59,995.9	222,304	101,589	120,715	12,043	7,091	7,883.4	624.8	288.5
1983	100,126.5	36,277.6	63,848.9	260,925	116,203	144,722	13,893	9,673	8,665.1	605.4	307.3
1984	104,193.4	40,344.4	63,849.0	297,937	134,211	163,726	15,668	12,643	9,451.8	609.4	317.9
1985	99,545.2	40,308.7	59,236.5	300,019	132,631	167,388	16,243	15,725	9,917.0	569.9	322.7
1986	112,828.7	45,707.5	67,121.2	352,808	160,184	192,624	16,496	21,611	10,576.5	577.3	324.7
1987	118,295.4	46,997.6	71,297.8	419,097	196,937	222,160	16,026	30,797	11,813.8	623.5	334.7
1988	141,964.7	57,791.8	84,172.9	512,507	248,868	263,639	13,633	43,672	13,017.5	681.1	344.1

⁴ Exclude calls to Peninsular Malaysia.

GROWTH RATES IN ECONOMIC INDICATORS, 1978-1988 (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	Loaded	Discharged	Total	Loaded	Discharged					
1978	14.4	17.4	12.5	39.1	21.1	66.1	30.1	35.3	15.3	10.6	6.6
1979	8.8	10.1	8.0	28.4	24.0	33.3	35.4	41.5	9.9	10.8	6.3
1980	1.4	3.3	0.3	15.0	14.1	15.9	36.6	42.0	7.5	2.8	7.8
1981	7.9	4.1	10.4	8.4	5.6	11.3	33.0	43.1	7.1	1.9	7.8
1982	9.5	5.7	11.9	12.8	5.6	19.6	25.9	40.2	5.7	-0.1	4.4
1983	4.7	1.7	6.4	17.4	14.4	19.9	15.4	36.4	9.9	-3.1	6.5
1984	4.1	11.2	-	14.2	15.5	13.1	12.8	30.7	9.1	0.7	3.4
1985	-4.5	-0.1	-7.2	0.7	-1.2	2.2	3.7	24.4	4.9	-6.5	1.5
1986	13.3	13.4	13.3	17.6	20.8	15.1	1.6	37.4	6.7	1.3	0.6
1987	4.8	2.8	6.2	18.8	22.9	15.3	-2.8	42.5	11.7	8.0	3.1
1988	20.0	23.0	18.1	22.3	26.4	18.7	-14.9	41.8	10.2	9.2	2.8

ECONOMIC INDICATORS, 1978-1988 (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
1978	2.2740	4,925.9	11,473.8	4.65	21,218.3	10,045.7	12,226.4	7.65	6.01	27,040.1	3,746.7
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

⁵ Include bills financing.

GROWTH RATES IN ECONOMIC INDICATORS, 1978-1988 (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	
1978	-6.8	11.6	27.2	16.3	12.0	20.1	9.0	8.7	28.7	52.1
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

(25/11/77) ECONOMIC INDICATORS, 1978-1988 (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	Million Dollars				
1978	1,510.0	235.0	446.4	2,029.0	5,981.4	3,387.2	1,492.1	214,316	4,081.9	236.9	94.2
1979	1,812.3	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	2,121.2	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	29,341.4	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	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, 1978-1988 (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		
1978	15.7	38.8	3.5	27.7	20.7	191.6	131.8	17.0	22.8	12.9	7.7
1979	20.0	54.9	23.6	24.5	25.6	-31.8	-35.4	15.1	26.5	15.9	20.9
1980	17.1	47.6	15.5	9.2	27.1	238.5	130.4	0.6	22.7	24.1	24.3
1981	38.7	17.0	19.8	18.5	27.2	72.2	25.0	9.3	22.8	16.7	3.6
1982	26.1	-6.1	15.2	54.9	28.9	-61.6	-40.0	15.9	37.8	8.4	12.9
1983	23.0	3.2	32.5	23.4	24.6	128.1	116.4	14.5	28.8	2.3	12.7
1984	15.6	-7.0	15.7	16.8	16.2	-30.5	-15.6	5.6	18.9	-	4.7
1985	-5.0	-26.8	2.8	25.3	18.3	-23.0	-0.6	6.7	18.5	-1.7	12.9
1986	-2.5	-30.3	4.2	15.7	9.4	26.6	30.6	14.2	20.4	-2.8	4.3
1987	9.7	24.6	6.9	5.7	4.3	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	na	na	na	na

ECONOMIC INDICATORS, 1978-1988 (continued)

Year	Government Finance						Measures of Inflation			Tourism	
	Revenue ⁹	Recurrent Expendi- ture ¹⁰	Public Debt ¹¹			Debt Servicing Ratio	Consumer Price Index (Jun 82- May 83=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	Thousand
1978	4,094.8	2,816.7	10,692.6	9,674.4	1,018.2	2.3	78.4	78.5	74.2	2,047.2	86.5
1979	4,694.2	3,054.1	12,396.5	11,419.8	976.7	1.3	81.5	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	88.4	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	95.7	111.5	92.8	2,828.9	85.7
1982	8,989.5	4,738.9	20,730.4	19,855.7	874.7	0.8	99.4	106.8	96.7	2,956.7	80.8
1983	10,613.6	5,726.4	25,031.5	24,359.9	671.6	1.3	100.6	102.9	100.5	2,853.6	75.5
1984	11,273.2	6,034.4	28,077.3	27,435.9	641.4	1.0	103.2	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	103.7	100.0	100.0	3,031.0	65.9
1986	10,970.4	6,281.9	33,793.1	33,341.7	451.4	2.4	102.3	84.9	96.4	3,191.1	64.7
1987	10,470.9	8,465.9	38,274.3	37,971.1	303.2	1.3	102.8	91.3	97.4	3,678.8	68.7
1988	13,775.9	7,202.3	41,200.7	40,959.9	240.8	0.4*	104.4	89.6	100.3	4,186.1	79.3

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, 1978-1988 (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					
1978	10.9	18.2	17.1	18.8	3.2	4.8	1.6	2.5	10.3	3.8
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	6.2	5.4	12.2	12.6	-4.5	2.6	-0.6	0.7	4.8	-
1985	-3.9	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	-3.6	5.3	-1.8
1987	-4.6	34.8	13.3	13.9	-32.8	0.5	7.5	1.0	15.3	6.2
1988	31.6	-14.9	7.6	7.9	-20.6	1.6	-1.9	3.0	13.8	15.4

SOCIAL INDICATORS, 1978-1988

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	
1978	2,353.6	1.2	3,819	23.4	51.0	15.4	16.8	5.1	76.3	12.6	1,795	869
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	7.0*	1,975*	954*

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, 1978-1988 (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		
1978	29	25	5,239	79.1	81.7	74.5	62.3	60.3	527	739	3,742
1979	28	23	5,718	78.9	82.8	74.2	65.1	63.4	640	1,137	4,228
1980	30	22	4,844	78.6	84.0	83.3	68.6	67.9	720	1,354	4,845
1981	31	21	6,367	81.5	84.4	81.7	70.1	61.2	846	1,548	6,400
1982	31	21	6,519	84.1	84.8	87.3	75.4	64.1	1,176	2,055	8,496
1983	29	21	6,951	88.3	85.3	87.0	74.5	65.4	1,229	2,150	9,369
1984	27	23	8,332	91.3	85.6	85.5	79.9	65.3	1,399	2,379	9,742
1985	26	22	8,954	92.0	86.0	85.9	89.0	66.2	1,521	2,631	9,702
1986	26	23	10,416	94.3	86.4	85.6	85.3	70.8	1,429	2,313	8,574
1987	25	22	11,878	93.8	86.8	86.5	88.1	73.9	1,501	2,467	9,140
1988	25	22	12,568	93.7	87.2	86.5	89.2	72.5	1,794*	3,006*	8,635*

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, 1978-1988 (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
1978	995	3.6	60.0	78.4	24.7	76	1,265	7,287	244
1979	1,056	3.3	61.4	78.9	24.5	84	1,287	6,889	242
1980	1,116	3.5	55.9	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	250
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

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

⁸ For financial year beginning 1 April.

SOCIAL INDICATORS, 1978-1988 (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
1978	227	26.0	9.4	19	150	229	401	17	305
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

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, 1978-1988 (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	
1978	328,385	68	68	37	2,194.6	81.4	4,174	27.2	82	31
1979	351,851	61	71	39	2,370.7	85.4	4,983	70.4	103	30
1980	370,044	64	73	42	2,529.5	89.7	4,705	24.1	123	30
1981	380,294	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	212*	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

Climate

The main features of the climate of Singapore are

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 Malacca Ridge and the eastern coastal area consisting of alluvium and sediment stretches from Kallang to Bedok and Changi.

The land area of Singapore is approximately 710 square kilometres. It comprises the main island of Singapore and about 60 smaller islands scattered off its north-east and south-east coasts. The main island measures about 42 kilometres from east to west and 22 kilometres from north to south with a coastline of 187.7 kilometres.

The Republic of Singapore is situated in the centre of the Malay Archipelago. The location at the focal point of the trade routes of the Indian and Chinese oceans, partly in the development of Singapore as an international 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.

Air Pollution

The Ministry of the Environment monitors the ambient air quality through 12 stations located in urban, industrial and rural areas. Some of the pollutants commonly monitored are total suspended matter, nitrogen dioxide and dust. The

Of the total land area, about 48.8 per cent has been developed for residential, commercial and industrial usage and another 3.3 per cent used for agriculture. The rest consists of forest reserves, marsh and other non-built up areas.

Land Use

occasionally direct the island. During the Southeast Monsoon season, from November to January, during the Southeast Monsoon season, rain falls throughout the year, the wettest months are January, February and March, with monthly rainfall ranging from 170 to 250 mm. The relative humidity is usually between 75 and 85 per cent on dry afternoons but frequently exceeds 90 per cent in the early hours of the morning before sunrise. Although minimum temperatures are around 24°C and 26°C respectively, the relative humidity is usually between 75 and 85 per cent on dry afternoons but frequently exceeds 90 per cent in the early hours of the morning before sunrise. Although minimum temperatures are around 24°C and 26°C respectively, the relative humidity is usually between 75 and 85 per cent on dry afternoons but frequently exceeds 90 per cent in the early hours of the morning before sunrise.

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 625.6 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 137.7 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 48.6 per cent has been developed for residential, commercial and industrial usage and another 3.3 per cent used for agriculture. The rest consists of forest reserves, marsh and other non-built up areas.

Air Pollution

The Ministry of the Environment monitors the ambient air quality through 12 stations located in urban, industrial and rural areas. Some of the pollutants commonly monitored are total acidity, smoke, nitrogen oxides and dust fallout. The

nitrogen oxides measurement has been reduced to only one station in 1988. The air pollution levels in 1988 remained low and were all within the accepted international standards.

In general, the air pollution levels are lower during the monsoon periods when much of the pollutants are washed out by the rain, and higher during the inter-monsoon periods (April

- May and October-November) when the low winds and calm airs and relatively moderate rainfall are less effective in dispersing the air pollutants.

Further details on air pollution are available in the Pollution Control Department's Annual Report.

1.1 TEMPERATURE, RAINFALL AND SUNSHINE, 1978-1988

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	
1978	31.0	23.7	72	2,766	512	171	5.5
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

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

Source: Meteorological Service

1.2 LAND USE, 1978-1988

Square Kilometre

Year	Total	Built-up Area ¹	Farm Holding Area ²	Forest	Marsh & Tidal Waste	Others ³
1978	616.3	266.5	100.6	32.4	26.7	190.1
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

1 Include new industrial sites.

Source : Survey Department

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.

1.3 AIR POLLUTION LEVELS, 1978-1988

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		
1978	45	47	26	32	22	16	78	61	51	0.43	0.59	0.31
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	-	35	-	0.75	0.80	0.61

Source : Pollution Control Department

2 DEMOGRAPHY

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 1988 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 ..., 1978-1988

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													
1978	2,353.6	1,201.4	1,152.2	177.6	166.5	910.7	897.5	87.9	64.8	25.2	23.4	1.2	1,043
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

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

2.2 MALE POPULATION ESTIMATES BY AGE GROUP, 1978-1988

Thousand

Age Group (Years)	1978	1979	1980 ¹	1981	1982	1983	1984	1985	1986	1987	1988
Total	1,201.4	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
0 - 4	105.8	102.8	100.9	101.4	101.8	104.8	105.1	107.7	107.6	106.5	108.5
5 - 9	116.2	116.5	115.8	113.0	110.1	104.9	102.5	100.3	100.9	101.4	104.4
10 - 14	133.3	126.4	120.8	117.3	116.0	116.2	116.4	115.6	112.8	109.9	104.8
15 - 19	153.0	151.8	148.2	143.8	138.6	133.2	126.2	120.6	117.0	115.7	115.9
20 - 24	144.4	148.5	152.8	155.3	155.1	153.9	151.8	147.4	143.0	137.9	132.6
25 - 29	120.7	125.0	129.4	134.6	140.2	144.8	148.3	151.9	154.4	154.1	153.1
30 - 34	86.0	95.1	107.4	115.2	117.3	120.9	124.8	128.6	133.7	139.4	143.8
35 - 39	71.7	71.8	68.9	69.0	77.6	86.4	95.0	106.5	114.2	116.4	120.1
40 - 44	59.6	63.3	66.5	69.4	71.1	71.5	71.4	68.0	68.1	76.8	85.4
45 - 49	53.8	53.7	54.7	56.1	56.8	58.2	62.0	65.2	68.1	69.8	70.3
50 - 54	44.5	46.5	48.3	49.9	50.6	51.5	51.6	52.8	54.1	55.1	56.3
55 - 59	36.1	36.4	37.0	38.0	39.6	41.3	43.3	45.3	46.9	47.7	48.7
60 - 64	28.6	29.1	29.8	30.7	31.4	32.0	32.8	33.3	34.3	35.7	37.4
65 - 69	23.3	23.7	23.7	23.4	23.5	23.8	24.4	25.3	26.2	26.9	27.7
70 & Over	24.4	25.7	27.5	29.2	30.7	32.1	33.1	34.4	35.6	36.9	38.4

1 Census of Population.

2.3 FEMALE POPULATION ESTIMATES BY AGE GROUP, 1978-1988

Thousand

Age Group (Years)	1978	1979	1980 ¹	1981	1982	1983	1984	1985	1986	1987	1988
Total	1,152.2	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
0 - 4	98.4	95.2	92.8	93.4	93.6	96.2	96.7	99.8	99.3	98.5	100.9
5 - 9	109.0	108.9	108.1	105.4	102.6	97.7	94.9	92.4	93.1	93.2	95.8
10 - 14	126.2	119.9	114.7	111.0	109.0	109.2	109.0	108.0	105.2	102.4	97.5
15 - 19	142.9	142.1	139.2	135.9	131.6	126.1	119.8	114.5	110.8	108.8	109.1
20 - 24	137.0	140.5	143.4	144.9	144.5	143.8	142.3	138.9	135.6	131.3	125.9
25 - 29	116.0	119.9	124.1	128.9	133.7	137.6	140.7	143.0	144.5	144.3	143.4
30 - 34	83.4	92.0	103.7	111.5	113.7	116.9	120.1	123.7	128.5	133.1	137.1
35 - 39	71.3	70.3	66.9	66.4	74.9	83.7	92.0	103.2	111.0	113.1	116.4
40 - 44	57.5	61.9	65.0	68.3	70.3	70.7	70.0	66.4	66.0	74.3	83.1
45 - 49	50.0	50.6	52.5	54.3	55.1	56.6	60.9	64.2	67.5	69.6	70.1
50 - 54	40.0	42.2	44.8	46.7	48.0	48.9	49.6	51.4	53.3	54.0	55.5
55 - 59	33.5	34.1	34.4	35.1	36.7	38.5	40.8	43.3	45.1	46.6	47.5
60 - 64	28.8	29.2	29.9	30.6	30.9	31.6	32.2	32.4	33.2	34.8	36.5
65 - 69	24.6	25.2	25.6	25.7	25.9	26.2	26.7	27.3	28.0	28.4	29.0
70 & Over	33.6	35.2	37.1	38.9	40.9	42.8	44.7	46.6	48.2	50.2	51.9

1 Census of Population.

2.4 POPULATION ESTIMATES BY AGE GROUP, ETHNIC GROUP AND SEX, END JUNE 1978

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	2,353.6	1,201.4	1,152.2	344.1	177.6	166.5	1,808.2	910.7	897.5	152.7	87.9	64.8	48.6	25.2	23.4
0 - 4	204.2	105.8	98.4	30.8	16.0	14.8	157.5	81.6	75.9	10.8	5.6	5.2	5.1	2.6	2.5
5 - 9	225.2	116.2	109.0	35.7	18.2	17.5	171.0	88.5	82.5	13.6	7.0	6.6	4.9	2.5	2.4
10 - 14	259.5	133.3	126.2	47.7	24.2	23.5	190.6	98.3	92.3	17.3	8.8	8.5	3.9	2.0	1.9
15 - 19	295.9	153.0	142.9	51.6	27.2	24.4	220.4	113.3	107.1	19.9	10.7	9.2	4.0	1.8	2.2
20 - 24	281.4	144.4	137.0	42.6	22.2	20.4	216.6	110.7	105.9	17.9	9.6	8.3	4.3	1.9	2.4
25 - 29	236.7	120.7	116.0	30.9	15.7	15.2	186.6	95.0	91.6	14.0	7.5	6.5	5.2	2.5	2.7
30 - 34	169.4	86.0	83.4	21.1	10.6	10.5	133.5	67.5	66.0	9.4	5.0	4.4	5.4	2.9	2.5
35 - 39	143.0	71.7	71.3	16.5	7.7	8.8	113.3	56.7	56.6	8.9	4.9	4.0	4.3	2.4	1.9
40 - 44	117.1	59.6	57.5	16.6	8.0	8.6	89.5	45.4	44.1	7.9	4.3	3.6	3.1	1.9	1.2
45 - 49	103.8	53.8	50.0	14.2	7.2	7.0	77.6	38.6	39.0	9.4	6.5	2.9	2.6	1.5	1.1
50 - 54	84.5	44.5	40.0	12.6	7.2	5.4	61.4	29.7	31.7	8.5	6.4	2.1	2.0	1.2	0.8
55 - 59	69.6	36.1	33.5	9.7	5.7	4.0	51.6	24.2	27.4	6.8	5.3	1.5	1.5	0.9	0.6
60 - 64	57.4	28.6	28.8	5.7	3.2	2.5	47.0	21.9	25.1	3.9	3.1	0.8	0.8	0.4	0.4
65 - 69	47.9	23.3	24.6	4.3	2.3	2.0	40.6	18.9	21.7	2.4	1.8	0.6	0.6	0.3	0.3
70 & Over	58.0	24.4	33.6	4.1	2.2	1.9	51.0	20.4	30.6	2.0	1.4	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	41.9	42.3	41.4	48.2	48.2	48.2	40.9	41.9	39.9	40.4	36.5	45.5	36.8	35.3	38.5
20 - 39	35.3	35.2	35.4	32.3	31.7	33.0	35.9	36.2	35.7	32.8	30.7	35.8	39.5	38.5	40.6
40 - 59	15.9	16.1	15.7	15.4	15.8	15.0	15.5	15.2	15.8	21.4	25.6	15.6	18.9	21.8	15.8
60 & Over	6.9	6.4	7.5	4.1	4.3	3.8	7.7	6.7	8.6	5.4	7.2	3.1	4.8	4.4	5.1

2.5 POPULATION ESTIMATES BY AGE GROUP, ETHNIC GROUP AND SEX, END JUNE 1988

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	2,647.1	1,347.4	1,299.7	401.2	206.7	194.5	2,011.3	1,013.8	997.5	171.8	94.9	76.9	62.8	32.0	30.8
0 - 4	209.4	108.5	100.9	40.7	20.9	19.8	143.7	74.8	68.9	16.5	8.5	8.0	8.5	4.3	4.2
5 - 9	200.2	104.4	95.8	33.6	17.4	16.2	146.6	76.6	70.0	13.3	6.9	6.4	6.7	3.5	3.2
10 - 14	202.3	104.8	97.5	31.1	16.1	15.0	156.0	80.8	75.2	10.4	5.4	5.0	4.8	2.5	2.3
15 - 19	225.0	115.9	109.1	35.3	18.0	17.3	171.3	88.5	82.8	13.5	6.9	6.6	4.9	2.5	2.4
20 - 24	258.5	132.6	125.9	46.7	23.7	23.0	190.7	98.2	92.5	17.3	8.8	8.5	3.8	1.9	1.9
25 - 29	296.5	153.1	143.4	51.2	27.2	24.0	221.5	113.6	107.9	19.8	10.6	9.2	4.0	1.7	2.3
30 - 34	280.9	143.8	137.1	42.2	22.1	20.1	216.4	110.2	106.2	17.9	9.7	8.2	4.4	1.8	2.6
35 - 39	236.5	120.1	116.4	30.4	15.5	14.9	186.3	94.5	91.8	14.1	7.5	6.6	5.7	2.6	3.1
40 - 44	168.5	85.4	83.1	20.5	10.3	10.2	132.7	66.9	65.8	9.4	5.0	4.4	5.9	3.2	2.7
45 - 49	140.4	70.3	70.1	15.8	7.4	8.4	111.3	55.6	55.7	8.7	4.7	4.0	4.6	2.6	2.0
50 - 54	111.8	56.3	55.5	15.5	7.5	8.0	85.9	43.1	42.8	7.3	3.9	3.4	3.1	1.8	1.3
55 - 59	96.2	48.7	47.5	12.8	6.4	6.4	72.7	35.3	37.4	8.3	5.6	2.7	2.4	1.4	1.0
60 - 64	73.9	37.4	36.5	10.7	6.0	4.7	54.7	25.4	29.3	6.8	5.0	1.8	1.7	1.0	0.7
65 - 69	56.7	27.7	29.0	7.5	4.3	3.2	43.3	19.1	24.2	4.7	3.6	1.1	1.2	0.7	0.5
70 & Over	90.3	38.4	51.9	7.2	3.9	3.3	78.2	31.2	47.0	3.8	2.8	1.0	1.1	0.5	0.6
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	100.0	100.0	100.0	100.0
0 - 19	31.6	32.2	31.0	35.1	35.0	35.1	30.7	31.6	29.8	31.3	29.2	33.8	39.6	40.0	39.3
20 - 39	40.5	40.8	40.2	42.5	42.8	42.2	40.5	41.1	39.9	40.2	38.6	42.3	28.5	25.0	32.1
40 - 59	19.5	19.3	19.7	16.1	15.3	17.0	20.0	19.8	20.2	19.6	20.2	18.8	25.5	28.1	22.7
60 & Over	8.4	7.7	9.1	6.3	6.9	5.7	8.8	7.5	10.1	8.9	12.0	5.1	6.4	6.9	5.9

2.6 VITAL STATISTICS, 1978-1988

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
1978	39,441	20,364	19,076	12,065	498	27,376	16.8	5.1	11.6	12.6
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*	52,822	27,298	25,523	13,690	368	39,132	20.0	5.2	14.8	7.0

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

**2.7 AGE SPECIFIC AND TOTAL FERTILITY RATES, GROSS AND
NET REPRODUCTION RATES, 1978-1988**

Per Thousand Female Population

Age Group (Years)	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
15 - 19	11.8	11.4	12.2	11.5	11.2	10.3	10.2	9.7	8.5	7.9	7.4
20 - 24	86.8	85.1	79.9	80.3	77.1	70.0	66.9	66.9	59.5	59.2	65.3
25 - 29	140.9	139.3	137.3	136.3	133.9	124.8	124.5	124.7	110.5	125.3	148.6
30 - 34	86.8	88.4	84.5	82.0	83.3	79.5	83.2	86.6	76.4	94.6	121.2
35 - 39	26.7	27.5	27.2	28.6	30.4	29.2	31.9	31.2	29.0	34.0	45.3
40 - 44	5.3	5.5	5.7	5.4	4.9	3.8	4.8	4.5	4.8	6.0	7.2
45 - 49	0.6	1.0	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	-
TOTAL FERTILITY RATE	1,795	1,791	1,737	1,723	1,706	1,589	1,609	1,619	1,445	1,636	1,975
Gross Reproduction Rate	869	853	840	830	816	765	770	780	694	789	954
Net Reproduction Rate	841	825	819	810	796	746	750	760	677	769	929

2.8 LIVE-BIRTHS BY BIRTH ORDER, 1978-1988

Birth Order	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
Total¹ 1st 2nd 3rd 4th 5th 6th & Over	Number										
	39,441	40,779	41,217	42,250	42,654	40,585	41,556	42,484	38,379	43,616	52,822
	16,424	17,253	17,968	18,599	19,105	18,255	18,071	18,638	17,336	17,586	20,449
	12,962	13,645	13,999	14,431	14,593	14,078	15,171	15,498	13,406	16,441	19,451
	6,463	6,630	6,236	6,305	6,228	5,757	5,877	5,900	5,443	6,966	9,746
	2,181	2,002	1,885	1,876	1,777	1,655	1,606	1,525	1,337	1,590	2,040
	674	601	590	522	506	470	436	443	382	398	459
	659	538	422	438	391	302	276	236	205	235	221
	Per Cent										
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	41.6	42.3	43.6	44.0	44.8	45.0	43.5	43.9	45.2	40.3	38.7
	32.9	33.5	34.0	34.2	34.2	34.7	36.5	36.5	34.9	37.7	36.8
	16.4	16.3	15.1	14.9	14.6	14.2	14.1	13.9	14.2	16.0	18.5
	5.5	4.9	4.6	4.4	4.2	4.1	3.9	3.6	3.5	3.6	3.9
	1.7	1.5	1.4	1.2	1.2	1.2	1.0	1.0	1.0	0.9	0.9
	1.7	1.3	1.0	1.0	0.9	0.7	0.7	0.6	0.5	0.5	0.4

1 Include birth order not stated.

2.9 LIVE-BIRTHS BY PLACE OF OCCURRENCE, 1978-1988

Place of Occurrence	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
TOTAL	Number										
	39,441	40,779	41,217	42,250	42,654	40,585	41,556	42,484	38,379	43,616	52,822
	33,242	34,354	33,970	33,872	33,437	30,695	30,500	30,456	25,896	26,212	28,752
	4,008	4,441	5,041	6,576	7,892	8,858	10,337	11,375	12,054	17,004	23,711
	1,162	1,158	1,244	857	412	337	296	259	137	131	114
	1,029	826	962	945	913	695	423	394	292	269	245
	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
Government & Government Restructured Hospitals	84.3	84.3	82.4	80.2	78.4	75.7	73.4	71.7	67.5	60.1	54.4
Private Hospitals	10.2	10.9	12.2	15.6	18.5	21.8	24.9	26.8	31.4	39.0	44.9
Nursing Homes	2.9	2.8	3.0	2.0	1.0	0.8	0.7	0.6	0.3	0.3	0.2
Other Locations	2.6	2.0	2.4	2.2	2.1	1.7	1.0	0.9	0.8	0.6	0.5

2.10 MALE AND FEMALE AGE SPECIFIC DEATH RATES, 1983-1988

Per Thousand Population

Age Group (Years)	Males						Females					
	1983	1984	1985	1986	1987	1988	1983	1984	1985	1986	1987	1988
Total	6.0	5.9	5.8	5.5	5.6	5.6	4.6	4.4	4.6	4.4	4.5	4.7
Under 1 ¹	10.3	9.0	10.2	9.6	8.5	7.1	8.5	8.5	8.3	9.0	6.2	6.8
1 - 4	0.7	0.7	0.4	0.5	0.5	0.4	0.7	0.6	0.4	0.3	0.4	0.5
5 - 9	0.3	0.4	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.3
10 - 14	0.4	0.4	0.3	0.3	0.4	0.2	0.3	0.2	0.2	0.2	0.3	0.2
15 - 19	0.9	0.9	0.9	0.8	0.6	0.6	0.4	0.4	0.5	0.3	0.4	0.3
20 - 24	1.2	1.2	1.0	1.1	0.9	1.1	0.6	0.5	0.4	0.5	0.4	0.5
25 - 29	1.3	1.4	1.2	1.1	1.0	1.0	0.6	0.6	0.7	0.5	0.6	0.6
30 - 34	1.6	1.3	1.4	1.2	1.2	1.2	0.9	0.7	0.8	0.9	0.8	0.7
35 - 39	2.0	2.1	1.9	1.8	1.8	1.8	1.1	1.1	1.2	0.9	1.1	1.2
40 - 44	3.1	3.2	3.0	2.9	2.6	2.7	1.8	1.7	1.5	1.8	1.7	1.5
45 - 49	5.2	5.5	5.1	4.4	4.4	4.2	2.9	3.3	2.8	2.6	2.8	2.6
50 - 54	10.3	10.0	8.8	8.9	8.2	8.0	5.2	5.3	5.0	4.7	5.1	4.9
55 - 59	16.2	16.8	16.9	14.8	14.8	14.0	8.8	8.2	8.2	7.8	8.1	7.5
60 - 64	25.9	25.4	24.7	22.7	23.6	21.5	14.3	13.7	14.8	13.5	13.6	12.7
65 - 69	40.6	41.0	37.0	36.4	32.8	34.2	23.5	22.4	23.2	21.3	20.7	21.3
70 & Over	89.9	83.6	84.4	77.7	79.5	80.4	70.3	64.5	65.3	60.8	61.8	65.4

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

2.11 DEATHS BY BROAD GROUPS OF CAUSES, 1978-1988

Number

Causes of Death	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
All Causes	12,065	12,468	12,505	12,863	12,896	13,321	13,162	13,348	12,821	13,173	13,690
Infective & Parasitic Diseases	502	503	425	432	393	432	390	375	402	432	415
of which : Tuberculosis	318	331	240	221	207	224	163	177	177	186	164
Neoplasms	2,415	2,542	2,623	2,672	2,729	2,903	2,817	2,939	2,921	3,169	3,216
of which : Cancer	2,386	2,488	2,561	2,616	2,668	2,858	2,776	2,893	2,887	3,131	3,179
Endocrine, Nutritional & Metabolic Diseases	403	403	359	404	397	423	512	492	508	521	524
of which : Diabetes	334	347	319	368	361	373	469	464	479	492	500
Diseases of the Blood & Blood-forming Organs	45	41	31	42	33	33	28	29	30	35	32
Diseases of the Nervous System & Sense Organs	114	122	131	114	121	92	97	87	87	102	125
Diseases of the Circulatory System	3,983	4,233	4,305	4,413	4,430	4,436	4,637	4,651	4,482	4,675	4,760
of which : Heart & Hypertensive Diseases	2,518	2,752	2,777	2,892	2,866	2,911	3,156	3,129	3,028	3,251	3,241
Cerebrovascular Disease	1,382	1,409	1,447	1,438	1,469	1,454	1,413	1,418	1,355	1,343	1,407
Diseases of the Respiratory System	1,724	2,024	1,965	2,196	2,257	2,429	2,096	2,241	1,974	1,942	2,003
of which : Pneumonia	942	1,124	1,129	1,284	1,375	1,513	1,204	1,287	1,082	998	1,012
Bronchitis	107	89	75	67	68	77	55	69	53	49	52
Diseases of the Digestive System	359	382	368	385	400	403	369	394	326	329	350
Diseases of the Genito-Urinary System	381	349	366	366	319	375	405	319	343	393	360
Congenital Anomalies	185	184	185	178	182	155	172	189	202	171	200
of which : Congenital Anomalies of Heart	98	105	111	109	101	86	91	84	101	87	94
Certain Causes of Perinatal Mortality	239	261	227	208	215	149	151	147	128	128	120
Accidents, Poisonings & Violence	1,057	876	899	938	966	1,085	1,095	1,082	1,025	931	1,000
of which : Motor Vehicle Accidents	299	236	250	281	326	323	343	292	265	233	na
Other Accidents	256	160	122	157	198	231	194	214	223	198	na
Suicides	266	249	271	191	239	267	211	327	329	302	na
Other Diseases & Causes	658	548	621	515	454	406	393	403	393	345	585
of which : Senility	505	359	403	237	219	208	236	170	140	125	112

Note : Deaths for 1978 are classified according to the Eighth (1965) Revision of the International Classification of Diseases while deaths from 1979 are classified according to the Ninth (1975) Revision.

2.12 POPULATION AGED 60 YEARS AND OVER, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Demographic Characteristics											
Persons Aged 60 Years & Over ('000)	163.3	168.1	173.6	178.5	183.3	188.5	193.9	199.3	205.5	212.9	220.9
Percentage of Total Population	6.9	7.1	7.2	7.3	7.4	7.5	7.7	7.8	7.9	8.1	8.3
Sex Ratios (Males Per 1,000 Females)											
of Persons Aged											
60 - 69 Years	972	971	965	961	967	965	971	982	989	991	994
70 Years & Over	726	730	739	751	751	750	740	738	739	735	740
60 Years & Over	877	876	874	875	876	874	872	875	878	877	882
Literacy Rate of Persons Aged 60 Years & Over (Per 1,000 Population)											
Males	671	683	695	706	716	727	737	750	762	773	784
Females	175	185	194	208	219	230	241	255	270	285	302
Economic Characteristics											
Economically Active Persons											
Aged 60 Years & Over ('000)	34.2	39.2	37.7	40.1	39.7	42.5	42.2	41.1	38.5	38.2	37.8
Percentage of Total Economically Active	3.5	3.7	3.4	3.5	3.4	3.5	3.5	3.4	3.1	3.1	3.0
Employed Persons Aged 15-59 Years ('000)	921.9	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
Self-employed (%)	12.7	12.1	13.6	11.5	12.0	12.4	12.7	12.7	12.8	12.6	12.0
Employees (%)	84.3	84.8	83.9	86.2	85.7	85.5	85.4	85.4	85.4	85.2	86.3
Employed Persons Aged 60 Years & Over ('000)	33.7	38.7	37.7	39.2	39.3	41.8	41.4	40.4	37.0	37.4	37.4
Self-employed (%)	42.8	44.2	44.9	42.0	39.9	42.8	39.8	37.9	43.0	44.3	40.9
Employees (%)	53.8	51.9	52.5	54.2	56.9	53.8	56.3	58.4	52.5	52.0	55.8

2.12 POPULATION AGED 60 YEARS AND OVER, 1978-1988 (continued)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Mortality											
Deaths Aged 60 Years & Over (No.)	7,493	7,866	8,002	8,208	8,286	8,760	8,524	8,819	8,476	8,823	9,312
Percentage of Total	62.1	63.1	64.0	63.8	64.3	65.8	65.0	66.1	66.1	67.0	68.0
Age-specific Death Rates (Per 1,000 Population)											
Males Aged : 60 - 69 Years	35.7	35.9	35.9	35.6	32.4	32.2	32.0	30.0	28.6	27.6	26.9
70 Years & Over	90.3	92.2	86.9	85.1	87.8	89.9	83.6	84.4	77.7	79.5	80.4
60 Years & Over	53.1	54.3	53.2	52.9	52.3	53.3	50.9	50.1	46.8	46.8	46.7
Females Aged : 60 - 69 Years	21.3	20.9	20.1	19.4	18.8	18.5	17.6	18.7	17.1	16.8	16.5
70 Years & Over	68.5	70.0	69.3	69.6	67.1	70.3	64.5	65.3	60.8	61.8	65.4
60 Years & Over	39.5	40.2	39.9	39.9	39.0	40.5	37.9	39.1	36.4	36.7	38.1
Major Causes of Deaths Aged 60 Years & Over (Per 1,000 Population)											
Heart & Hypertensive Diseases	10.7	11.2	11.2	11.0	10.9	11.0	11.7	11.4	10.6	11.3	10.6*
Malignant Neoplasms	8.8	8.8	9.3	9.0	8.6	9.6	8.6	8.9	8.8	8.9	8.9*
Cerebrovascular Diseases	6.8	6.6	6.6	6.3	6.4	6.3	5.7	5.8	5.5	5.1	5.2*
Pneumonia	4.4	5.3	5.2	5.7	6.0	6.6	5.1	5.3	4.5	3.9	3.7*
Tuberculosis (All Forms)	1.4	1.4	1.0	0.9	0.8	0.9	0.6	0.7	0.6	0.6	0.5*

2.12 POPULATION AGED 60 YEARS AND OVER, 1978-1987 (continued)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Health										
Patients Aged 60 Years & Over Discharged from Hospitals (No.)	29,744	36,969	44,097	42,846	46,128	47,087	49,109	49,137	51,004	55,524
Percentage of Total	12.9	14.3	16.6	16.1	16.8	17.3	17.7	17.5	17.5	17.7
Bed-days Taken Up by Patients Aged 60 Years & Over Discharged from Hospitals (No.)	643,493	677,422	711,545	695,022	688,224	741,992	692,658	710,976	730,848	757,633
Percentage of Total	25.5	25.6	26.7	26.3	25.7	28.2	26.8	28.3	28.2	28.7
Average Length of Stay in Hospitals (Days)										
Below 60 Years	9.4	8.9	8.8	8.7	8.7	8.4	8.3	7.8	7.7	7.3
60 Years & Over	21.6	18.3	16.1	16.2	14.9	15.8	14.1	14.5	14.3	13.6
All Ages	11.0	10.2	10.0	9.9	9.7	9.7	9.3	9.0	8.9	8.4
Hospital Morbidity Rates of Persons Aged 60 Years & Over for Selected Disease Conditions (Per 1,000 Population)										
Heart & Hypertensive Diseases	23.2	27.0	29.2	31.9	30.3	28.2	31.9	31.6	34.5	37.7
Cancer	19.0	21.0	22.2	24.3	23.1	23.2	23.0	22.9	25.9	28.5
Cataract	9.3	10.4	12.8	14.9	13.4	13.8	12.9	15.3	20.7	21.3
Chronic Obstructive Lung Diseases	na	na	11.2	11.5	11.7	10.8	11.7	10.9	11.4	12.0
Cerebrovascular Diseases	8.5	10.1	9.1	10.3	8.6	9.3	9.4	10.6	11.5	11.7
Diabetes Mellitus	5.1	6.4	6.9	8.0	7.5	6.9	7.3	6.9	7.4	7.6
Fracture of Lower Limb	4.4	4.8	5.5	6.4	6.0	4.8	5.5	5.8	5.2	5.2
Pneumonia	3.4	5.1	4.5	4.6	4.3	4.5	4.5	4.8	4.5	4.5
Peptic Ulcer	4.7	5.3	5.3	5.9	5.2	4.4	4.7	4.2	4.8	4.6
Tuberculosis	4.8	5.4	4.7	4.2	4.2	3.7	3.5	3.1	2.8	2.9

2.13 MARRIAGES REGISTERED BY ETHNIC GROUP OF COUPLE, 1978-1988

Number

Year	All Marriages Registered	Women's Charter					Muslim Law Act			
		Total	Chinese	Indians	Others	Inter-ethnic Group	Total	Malays	Others	Inter-ethnic Group
1978	21,306	18,197	16,392	1,099	106	600	3,109	2,412	205	492
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

2.14 MARRIAGES BY AGE GROUP OF GROOMS AND BRIDES, 1986-1988

Number

Age Group (Years)	1986				1987				1988			
	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	15,375	4,385	15,375	4,385	18,635	4,465	18,635	4,465	19,782	4,801	19,782	4,801
Under 19	63	50	822	567	64	54	850	487	58	39	802	449
20 - 24	3,277	1,439	6,808	2,225	3,550	1,373	7,801	2,282	3,631	1,254	8,341	2,348
25 - 29	7,064	1,856	5,512	982	8,672	1,888	7,044	1,065	9,306	2,209	7,520	1,279
30 - 34	3,360	571	1,545	313	4,301	636	2,079	322	4,701	731	2,231	376
35 - 39	989	201	481	162	1,318	226	613	175	1,357	256	618	185
40 - 44	315	90	109	60	388	97	150	67	403	136	185	75
45 - 49	163	57	64	39	182	74	66	37	162	60	51	43
50 & Over	144	121	34	37	160	117	32	30	164	116	34	46

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

2.15 AVERAGE AGE AT MARRIAGE OF GROOMS AND BRIDES, 1978-1988

Years

Year	All Marriages		Women's Charter		Muslim Law Act	
	Grooms	Brides	Grooms	Brides	Grooms	Brides
1978	27.8	24.4	27.8	24.5	27.4	23.5
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

2.16 AGE SPECIFIC MARRIAGE RATES, 1970, 1980-1988

Per Thousand Unmarried Population

Age Group (Years)	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
Males										
15 - 19	1.6	1.7	1.7	1.7	1.6	1.5	1.2	1.0	1.0	0.8
20 - 24	52.4	49.9	52.2	46.1	42.6	43.3	42.3	34.9	37.5	38.6
25 - 29	173.0	140.1	134.5	119.2	109.5	123.7	110.6	87.8	104.2	112.0
30 - 34	171.7	138.0	140.9	126.4	117.3	137.3	115.0	97.2	113.7	115.0
35 - 39	113.1	106.3	116.4	119.0	88.2	110.2	87.0	74.0	93.7	84.3
40 - 44	59.5	62.8	92.2	87.5	61.9	70.8	61.7	67.6	67.5	66.6
General Marriage Rate (15-44)	51.6	55.0	58.7	54.4	51.1	58.4	54.7	46.3	54.3	57.4
Females										
15 - 19	19.1	18.4	19.5	18.5	17.7	16.1	15.7	12.7	12.4	11.6
20 - 24	123.8	110.5	112.9	101.0	95.0	104.8	98.6	81.6	93.0	100.8
25 - 29	192.3	136.5	136.7	117.3	111.9	131.8	117.1	99.3	130.4	133.6
30 - 34	99.1	74.3	75.9	74.7	67.1	73.2	67.5	62.9	79.7	81.0
35 - 39	46.0	43.6	50.4	48.5	39.5	45.1	35.7	34.8	40.6	41.4
40 - 44	18.1	22.0	27.9	24.9	20.7	19.4	19.7	18.5	21.4	21.9
General Marriage Rate (15-44)	67.3	68.9	73.0	67.1	63.6	71.4	67.0	57.2	67.9	71.1

2.17 DIVORCES BY ETHNIC GROUP OF COUPLE, 1981-1988

Year	Women's Charter					Muslim Law Act				
	Total	Chinese	Indians	Others	Inter-ethnic Group	Total	Malays	Indians	Others	Inter-ethnic Group
Number										
1981	1,441	1,301	84	13	43	614	472	36	5	101
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
Per Cent										
1981	100.0	90.3	5.8	0.9	3.0	100.0	76.9	5.9	0.8	16.4
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

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

2.18 DIVORCEES BY AGE GROUP AND SEX, 1986-1988

Number

Age Group (Years)	1986				1987				1988			
	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	1,822	786	1,822	786	1,912	796	1,912	796	2,023	893	2,023	893
Under 20	-	2	-	20	-	1	2	21	-	2	2	14
20 - 24	14	76	97	176	50	62	175	148	41	52	181	185
25 - 29	214	198	450	218	360	220	593	234	370	241	608	262
30 - 34	455	177	445	157	499	171	488	167	541	215	501	169
35 - 39	415	130	307	99	434	131	311	102	473	153	371	121
40 - 44	188	68	101	37	246	81	137	51	271	83	166	59
45 - 49	127	44	78	36	128	51	80	34	152	59	73	36
50 & Over	114	91	48	43	102	79	33	39	109	88	55	47
Not Stated	295	-	296	-	93	-	93	-	66	-	66	-
Mean Age (Years)	37.3	35.6	33.6	31.7	36.1	35.7	32.6	31.8	36.5	35.9	33.0	31.9

Note : See note to Table 2.17.

CHART 1

POPULATION, 1958-1988

Million Persons

Million Persons

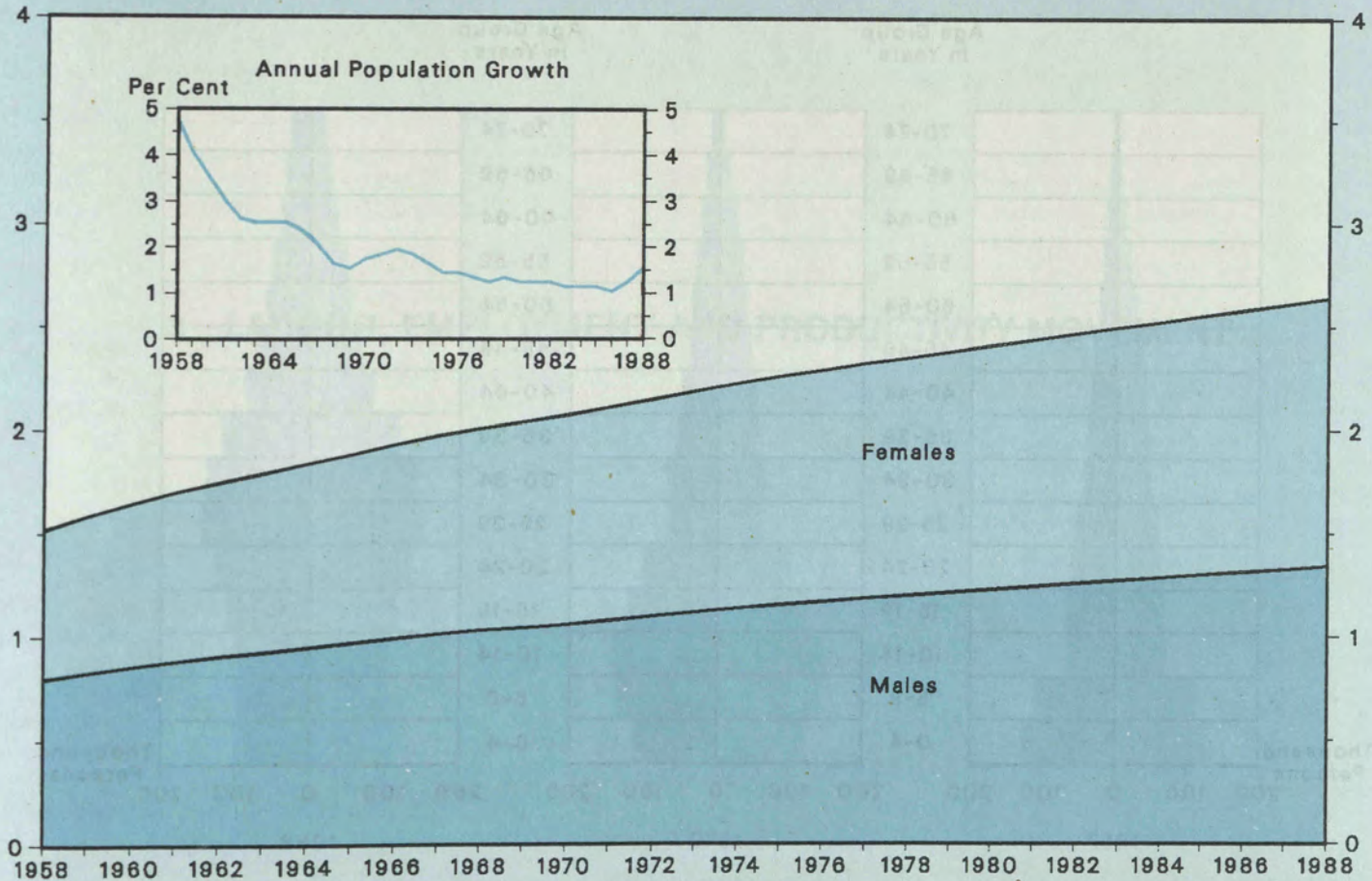
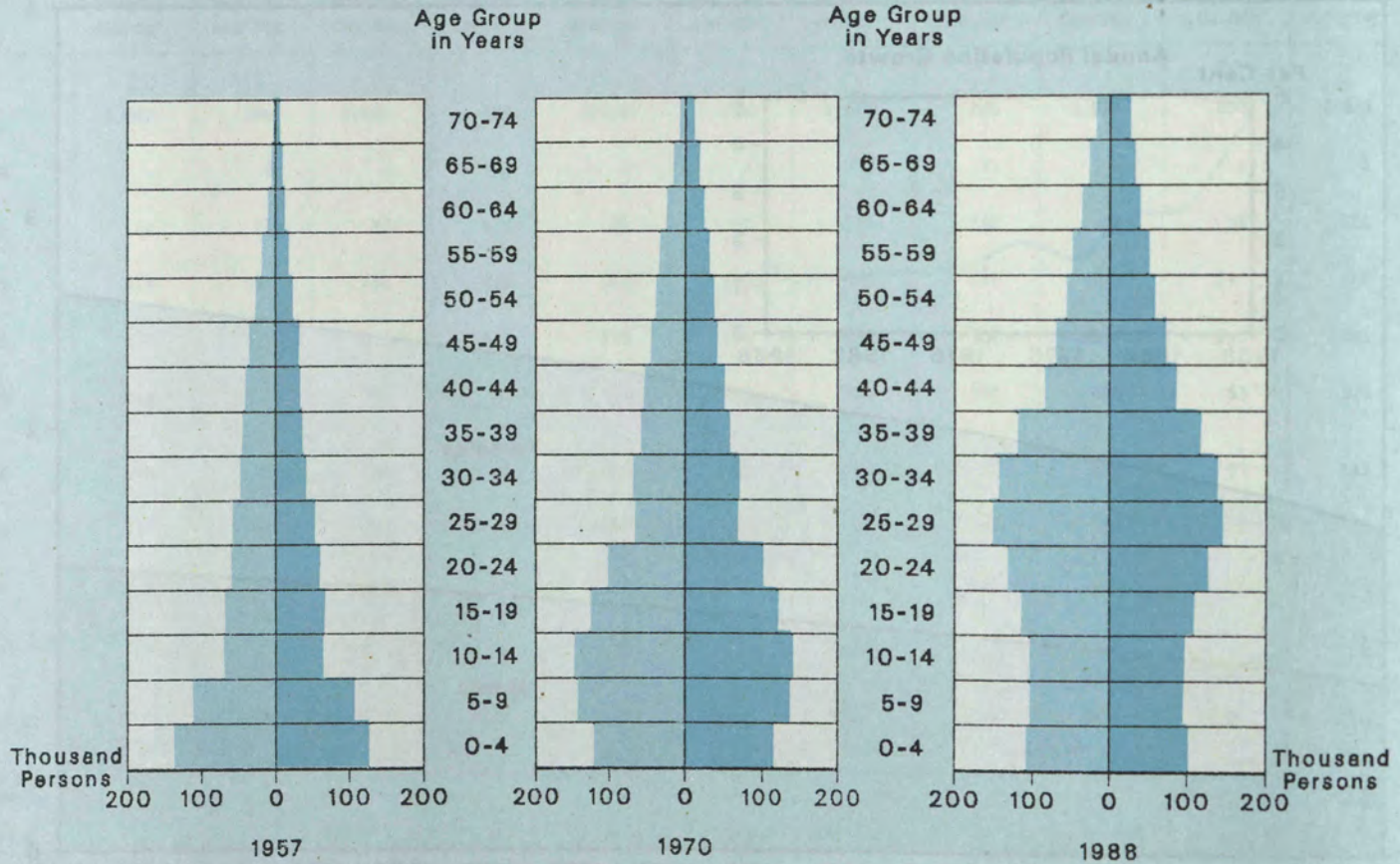


CHART 2

AGE DISTRIBUTION OF POPULATION, 1957, 1970 & 1988

Male Female



3 LABOUR, EMPLOYMENT AND PRODUCTIVITY MOVEMENT

3 LABOUR, EMPLOYMENT AND PRODUCTIVITY MOVEMENT

Labour Force

Data for 1975 to 1979 and 1981 to 1988 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 1988 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, worked for pay or profit or for family gain as well as those who did not work but had a job to return to. The reference week is the full calendar week preceding the date of the interview. Employed persons include employers, employees, own account workers and unpaid family workers.

Unemployed Persons : Persons who during the reference week, did not work and did not have a job to return to but were available for work and actively looking for a job. Persons who were not working but were taking steps to start their own business are also included.

Economically Active Persons : This category of persons comprised employed and unemployed persons.

Economically Inactive Persons : Persons who, during the reference week, did not work, did not have a job to return to and were not actively looking for a job.

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. From 1 July 1988, 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 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 and investments. 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.

CPF Contribution Rates wef 1 July 1988 for Private Sector Employees below age 55 years

Total amount of employee'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 12% 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) 21% of the total amount of employee'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) 9% 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) 36% of the employee's ordinary wages for the month, subject to a maximum of \$2,160; and (b) 36% of the amount of additional wages payable to the employee in the month.	An amount equal to the sum of - (a) 24% of the employee's ordinary wages for the month, subject to a maximum of \$1,440; and (b) 24% of the amount of additional wages payable to the employee in the month.

CPF Contribution Rates wef 1 July 1988 for Older Private Sector Employees

Worker's Age Group (In Years)	Contribution By Employer	Contribution By Employee	Total Contribution
55 - 59	11%	20%	31%
60 - 64	9%	19%	28%
65 and above	8%	18%	26%

The Productivity Movement

In 1988, the National Productivity Board (NPB) continued to adopt the total approach to productivity emphasising on quality, flexible wage system, worker training and assistance to small and medium sized enterprise (SME).

The 1988 promotional theme "Train Up - Be The Best You Can Be" emphasised the need for individual skills upgrading coupled with the need to work with excellence and pride. This message was disseminated through the various media, seminars and conventions. Supplementing this were productivity improvement schemes such as QC circles, suggestion schemes and the Integrated Productivity Improvement (IPI) framework at company level.

To better respond to the training needs of industry, the Institute for Productivity Training (IPT) was established in April 1988. The Skills Development Fund (SDF) also introduced the Increasing Training Opportunities (INTRO) Scheme, Information Technology (IT) Programme, Training Needs Analysis (TNA) Grant and Generic Training Plan (GTP) as added incentives for companies to train their employees. In 1988, enrolment for courses conducted by NPB reached 17,202 while participants in seminars and workshops organised by NPB totalled 13,337.

The main areas of assistance provided by NPB to SMEs were in production management/industrial engineering, management information systems, flexible wage systems, performance appraisal systems and diagnostic services. As part of its sectoral based strategy, NPB provided consultancy

services to the service sector, in particular, the retail industry. A Committee on the Certification of Service Skills was also set up to work on a national certification system for service skills based on industry accepted standards. Companies were assisted in setting up comprehensive and integrated productivity measurement systems which would enable them to determine areas for improvement.

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, 1975-1988

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		
1975	873.0	609.2	263.8	586.5	247.0	22.7	16.8	66.9	29.6	4.5
1976	910.9	624.5	286.4	600.4	270.1	24.1	16.3	66.7	31.1	4.4
1977	940.8	637.9	302.9	616.3	287.7	21.6	15.3	66.7	32.5	3.9
1978	994.7	662.8	331.9	640.9	318.1	21.9	13.8	68.3	34.6	3.6
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

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, 1988

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	2,037.2	1,002.9	1,034.3	1,281.4	787.1	494.3	1,238.5	757.0	481.5	42.9	30.1	12.8	755.8	215.8	540.0
15 - 19	246.6	126.0	120.6	64.5	31.7	32.8	60.1	29.8	30.3	4.5	2.0	2.5	182.1	94.3	87.8
20 - 24	272.0	132.7	139.2	225.0	112.3	112.7	213.3	105.7	107.6	11.7	6.6	5.1	47.0	20.4	26.6
25 - 29	282.9	140.0	142.9	240.8	135.4	105.4	233.3	129.7	103.7	7.5	5.7	1.8	42.1	4.6	37.4
30 - 34	275.2	134.2	141.0	214.1	131.7	82.4	208.2	127.2	81.0	5.8	4.5	1.4	61.2	2.5	58.6
35 - 39	236.3	115.5	120.7	175.1	114.0	61.0	171.4	111.1	60.3	3.7	2.9	0.8	61.2	1.5	59.7
40 - 44	172.0	85.1	86.9	124.2	83.7	40.5	120.8	80.8	39.9	3.4	2.8	0.6	47.8	1.4	46.4
45 - 49	140.1	72.2	67.9	96.0	69.3	26.7	93.3	66.9	26.4	2.7	2.4	0.3	44.1	2.9	41.2
50 - 54	114.6	56.3	58.2	66.8	50.1	16.8	64.6	48.1	16.5	2.3	2.0	0.3	47.8	6.3	41.5
55 - 59	91.4	44.3	47.1	37.1	28.8	8.2	36.1	28.0	8.2	0.9	0.9	0.1	54.4	15.5	38.9
60 & Over	206.0	96.3	109.7	37.8	30.0	7.8	37.4	29.6	7.8	0.4	0.4	-	168.2	66.3	101.9

Source : Ministry of Labour

3.3 AGE-SEX SPECIFIC LABOUR FORCE PARTICIPATION RATES, 1970, 1980 AND 1986-1988

Per Cent

Age Group (Years)	1970 ¹			1980 ¹			1986			1987			1988		
	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	62.3	79.4	45.6	62.7	78.6	47.0	62.9	78.5	47.8
15 - 19	49.5	55.7	43.0	49.1	47.5	50.7	29.1	29.3	28.8	26.7	26.3	27.0	26.2	25.2	27.2
20 - 24	73.5	92.9	53.6	86.1	93.4	78.4	84.3	88.5	80.0	83.0	86.0	79.9	82.7	84.6	80.9
25 - 29	64.5	98.0	30.8	78.3	97.2	58.7	83.5	97.2	69.8	83.6	96.7	71.2	85.1	96.7	73.8
30 - 34	60.6	98.3	22.7	71.5	97.9	44.2	74.9	98.3	52.3	77.0	98.3	56.3	77.8	98.1	58.4
35 - 39	60.2	98.4	19.3	68.0	98.0	37.1	72.2	98.6	46.8	74.6	98.6	50.2	74.1	98.7	50.6
40 - 44	60.8	98.1	17.8	65.8	97.6	33.2	70.3	98.0	44.6	71.7	98.7	45.5	72.2	98.3	46.6
45 - 49	60.0	96.2	17.5	61.8	95.7	26.5	65.6	96.6	36.6	67.9	96.3	39.3	68.5	96.0	39.3
50 - 54	55.0	88.1	17.5	56.3	89.6	20.4	58.9	90.5	28.0	58.3	89.6	28.1	58.3	88.9	28.8
55 - 59	46.2	73.9	16.2	43.6	70.7	14.5	43.7	68.7	17.4	40.6	63.8	17.1	40.5	65.1	17.4
60 - 64	35.0	55.6	13.4	31.9	52.5	11.3	28.7	47.3	10.3	28.9	45.7	12.2	29.5	47.3	11.9
65 - 69	25.3	41.2	9.8	23.5	38.6	9.5	20.0	32.1	9.0	19.8	31.8	8.4	18.8	30.6	8.1
70 - 74	14.5	25.8	5.7	15.0	25.1	6.2	13.3	21.4	6.5	12.4	20.5	5.6	10.6	18.6	3.6
75 & Over	6.3	14.4	2.1	6.6	13.3	2.5	6.5	12.9	2.2	5.5	10.3	2.4	5.4	10.5	1.9

1 Census of Population.

Source : Ministry of Labour

3.4 EMPLOYED PERSONS BY INDUSTRY, 1970, 1980-1988

Thousand

Industry ¹	1970 ²	1980 ²	1981	1982	1983	1984	1985	1986	1987	1988
Total	650.9	1,077.1	1,112.7	1,140.6	1,167.6	1,174.8	1,154.3	1,149.0	1,192.9	1,238.5
Agriculture & Fishing	22.5	17.0	12.7	11.6	11.8	8.8	8.1	9.6	10.4	5.4
Quarrying	2.2	1.1	1.2	2.5	2.3	1.9	2.4	1.3	0.6	0.8
Manufacturing	143.1	324.1	326.1	336.0	324.4	322.2	293.8	290.1	318.9	352.6
Utilities	7.6	8.5	9.2	7.9	8.5	9.2	7.7	7.8	7.2	7.8
Construction	43.1	72.3	66.4	71.9	84.0	99.8	102.8	99.5	91.5	83.3
Commerce	152.6	229.8	252.6	253.6	265.0	264.6	271.1	265.6	279.4	283.6
Transport & Communications	79.0	119.9	127.6	129.8	131.9	122.4	117.0	114.1	121.0	120.2
Financial & Business Services	25.8	79.4	84.4	89.8	95.0	100.9	100.7	99.9	105.7	111.4
Other Services	174.6	224.6	229.7	235.5	243.1	242.2	248.3	259.2	256.7	271.6
Activities Not Adequately Defined	0.4	0.4	2.8	2.0	1.6	2.8	2.4	1.8	1.6	1.8

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

Source : Ministry of Labour

From 1981, 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 1980-1988 were classified according to SSIC 1978.

² Census of Population.

3.5 EMPLOYED PERSONS BY OCCUPATION, 1970, 1980-1988

Thousand

Occupation ¹	1970 ²	1980 ²	1981	1982	1983	1984	1985	1986	1987	1988
Total	650.9	1,077.1	1,112.7	1,140.6	1,167.6	1,174.8	1,154.3	1,149.0	1,192.9	1,238.5
Professional & Technical Workers	56.1	95.1	98.6	106.3	111.4	119.1	120.5	126.4	133.6	142.8
Administrative, Managerial & Executive Workers	15.5	52.2	54.8	58.3	62.3	70.0	65.9	68.1	71.9	86.3
Clerical Workers	82.9	167.5	168.3	186.9	196.1	194.8	184.7	180.6	184.8	190.7
Sales Workers	102.6	132.0	162.3	153.2	161.9	162.0	165.9	155.6	170.5	152.2
Service Workers	88.8	112.2	122.6	124.3	126.1	130.0	131.1	136.5	138.9	163.8
Agricultural Workers & Fishermen	26.9	20.9	16.6	15.4	15.7	12.7	12.5	12.8	14.3	8.9
Production, Transport & Other Manual Workers	255.0	435.0	433.3	439.0	441.0	439.4	419.0	411.0	422.8	437.2
Workers Not Classifiable by Occupation	23.1	62.2	56.2	57.2	53.1	46.7	54.6	57.9	56.2	56.6

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 1980-1988 were classified according to SSOC 1978.

2 Census of Population.

3.6 EMPLOYED PERSONS AGED 15 AND OVER BY INDUSTRY AND OCCUPATION, 1988

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	1,238.5	142.8	86.3	190.7	152.2	163.8	8.9	437.2	56.6
Agriculture & Fishing	5.4	0.1	0.2	0.3	-	-	4.5	0.3	-
Quarrying	0.8	0.1	0.2	0.1	-	-	-	0.3	-
Manufacturing	352.6	30.3	23.5	35.7	5.1	5.6	0.1	252.3	-
Utilities	7.8	1.9	0.2	1.3	-	0.1	0.1	4.2	-
Construction	83.3	5.9	3.8	4.3	0.2	0.6	0.1	67.8	0.7
Commerce	283.6	4.9	21.4	40.2	136.0	60.0	0.1	21.0	-
Transport & Communications	120.2	11.3	8.4	33.5	0.7	7.7	-	58.6	-
Financial & Business Services	111.4	19.6	20.0	44.2	9.0	12.3	1.3	4.9	-
Other Services	271.6	68.6	8.6	31.2	1.2	77.4	2.6	26.2	55.8
Activities Not Adequately Defined	1.8	-	-	-	-	-	-	1.6	0.1

Source : Ministry of Labour

3.7 GOVERNMENT EMPLOYEES BY DIVISIONAL STATUS, 1978-1988

Divisional Status	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total	Number										
	68,569	72,281	71,081	69,866	68,677	69,051	69,298	69,630	70,001	69,494	67,758
	7,159	7,603	7,796	8,068	8,467	8,911	9,547	10,158	11,047	11,433	11,797
	23,122	23,491	23,051	22,724	22,962	23,441	23,101	22,915	22,942	22,611	22,375
	22,517	25,317	24,892	23,947	22,778	22,162	22,251	22,369	21,963	21,794	20,785
	15,771	15,870	15,342	15,127	14,470	14,537	14,399	14,188	14,049	13,656	12,801
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	10.5	11.0	11.5	12.3	12.9	13.8	14.6	15.8	16.4	17.4
	33.7	32.5	32.4	32.5	33.4	33.9	33.3	32.9	32.8	32.5	33.0
	32.8	35.0	35.0	34.3	33.2	32.1	32.1	32.1	31.4	31.4	30.7
	23.0	22.0	21.6	21.7	21.1	21.1	20.8	20.4	20.0	19.7	18.9

Note : Figures exclude daily-rated employees.

Source : Public Service Commission

3.8 EMPLOYED PERSONS BY GROSS MONTHLY INCOME, 1978-1988

Thousand

Gross Monthly Income (\$)	1978	1979	1980 ¹	1981	1982	1983	1984	1985	1986	1987	1988
Total	958.9	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
Under 200	211.6	183.6	105.4	80.3	68.2	64.8	55.3	47.0	50.1	47.1	40.5
200 - 399	415.0	443.2	430.6	416.9	319.0	253.8	195.5	160.0	154.0	153.9	134.8
400 - 599	177.1	200.6	246.0	278.6	303.4	312.6	311.1	304.7	292.1	291.6	296.1
600 - 799	63.0	77.8	101.3	121.7	157.3	173.8	191.7	200.2	201.2	208.0	225.9
800 - 999	29.5	36.0	52.6	56.1	75.1	91.2	108.0	109.0	119.2	122.4	136.3
1,000 - 1,499	37.6	43.6	62.2	72.9	96.1	116.8	135.7	146.9	149.0	161.2	181.6
1,500 & Over	25.1	36.3	74.8	60.9	94.8	128.8	153.9	163.7	161.8	182.3	201.6

Note : See note to Table 3.4.

Source : Ministry of Labour

Figures from 1981 exclude unpaid family workers.

1 Sample Enumeration in the 1980 Census of Population.

3.9 CHANGES IN PRODUCTIVITY BY INDUSTRY, 1979-1988

Per Cent

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
TOTAL	2.7	5.7	5.2	1.6	5.3	6.9	3.6	6.7	4.5	4.4
Total excluding Construction	1.8	5.6	5.8	1.9	5.1	6.7	2.4	7.1	4.2	4.4
Manufacturing	3.9	4.6	9.2	-0.7	9.1	7.2	-1.5	13.6	3.7	2.4
Construction	12.3	6.6	0.5	4.2	10.1	9.0	10.3	0.8	4.7	1.8
Commerce	-0.4	4.9	1.3	1.2	2.1	4.5	0.4	4.8	6.3	11.2
Transport & Communications	3.2	10.0	9.1	8.0	8.8	11.9	5.2	11.1	6.5	6.3
Financial & Business Services	1.3	8.8	4.7	-0.1	4.3	7.7	12.0	7.7	6.8	4.5

Source: Department of Statistics
Ministry of Labour

3.10 AVERAGE MONTHLY EARNINGS BY INDUSTRY AND OCCUPATION, 1978-1988 (As at August)

Dollars

Industry	All Occupations										
	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	563	612	692	789	910	991	1,083	1,191	1,210	1,231	1,295
Manufacturing	469	509	575	670	740	821	907	980	989	1,025	1,095
Construction	551	597	687	851	881	861	891	1,250	1,208	1,240	1,378
Commerce	525	577	674	797	877	946	1,017	1,055	1,072	1,057	1,124
Transport, Storage & Communications	625	696	778	857	998	1,109	1,196	1,309	1,354	1,422	1,422
Financing, Insurance, Real Estate & Business Services	767	830	927	1,022	1,164	1,283	1,422	1,418	1,421	1,458	1,551
Community, Social & Personal Services	647	704	788	845	1,090	1,188	1,337	1,422	1,469	1,483	1,551
Others ¹	652	708	815	907	1,137	1,181	1,345	1,317	1,312	1,339	1,412

Note: The data for 1985-1988 refer to firms with at least 25 CPF contributors, while those for 1978-1984 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, 1978-1988 (continued)
(As at August)

Dollars

Industry	Professional, Administrative, Managerial, Executive and Related Workers										
	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	1,370	1,465	1,619	1,761	2,068	2,228	2,419	2,296	2,322	2,339	2,421
Manufacturing	1,780	1,819	1,919	2,076	2,201	2,360	2,521	2,191	2,215	2,236	2,260
Construction	1,338	1,402	1,529	1,762	2,073	2,250	2,427	2,247	2,219	2,159	2,239
Commerce	1,617	1,784	2,061	2,222	2,405	2,472	2,591	2,409	2,449	2,471	2,606
Transport, Storage & Communications	2,054	2,167	2,199	2,242	2,541	2,793	2,921	2,416	2,480	2,471	2,585
Financing, Insurance, Real Estate & Business Services	1,692	1,734	1,865	2,101	2,354	2,546	2,704	2,690	2,709	2,718	2,837
Community, Social & Personal Services	981	1,077	1,217	1,261	1,675	1,822	2,065	2,121	2,191	2,179	2,256
Others ¹	1,359	1,409	1,582	1,797	2,235	2,291	2,512	2,228	2,226	2,235	2,327

Note: The data for 1985-1988 refer to firms with at least 25 CPF contributors, while those for 1978-1984 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, 1978-1988 (continued)
(As at August)

Dollars

Industry	Clerical, Sales, Service and Related Workers										
	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	465	500	561	617	695	744	808	853	872	890	917
Manufacturing	510	544	601	674	726	786	868	930	962	979	1,021
Construction	430	465	523	657	716	751	811	876	885	890	943
Commerce	397	436	514	592	642	685	735	773	779	774	812
Transport, Storage & Communications	501	554	618	676	791	843	910	1,032	1,065	1,130	1,109
Financing, Insurance, Real Estate & Business Services	517	557	614	637	700	754	834	816	832	861	881
Community, Social & Personal Services	471	485	525	549	672	722	784	822	843	855	893
Others ¹	599	643	739	755	925	954	1,080	1,082	1,096	1,125	1,149

Note: The data for 1985-1988 refer to firms with at least 25 CPF contributors, while those for 1978-1984 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, 1978-1988 (continued)
(As at August)

Dollars

Industry	Production, Transport and Other Manual Workers										
	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	378	414	473	553	613	668	729	790	783	817	866
Manufacturing	359	393	443	523	564	630	691	730	732	773	828
Construction	417	447	519	661	720	710	753	989	910	920	1,029
Commerce	375	426	489	573	630	675	716	794	798	802	868
Transport, Storage & Communications	477	534	631	700	802	867	937	955	965	1,068	1,035
Financing, Insurance, Real Estate & Business Services	360	398	463	553	613	638	709	926	878	847	973
Community, Social & Personal Services	339	358	422	465	556	566	647	841	821	825	853
Others ¹	453	501	575	622	779	782	878	926	885	891	925

Note: The data for 1985-1988 refer to firms with at least 25 CPF contributors, while those for 1978-1984 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, 1978-1988

Hours

Industry	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
	As at August								As at June		As at Sept
All Industries	45.9	45.8	45.9	45.6	45.4	45.6	45.6	44.6	45.1	45.5	45.6
Agriculture & Fishing	44.5	43.6	43.8	43.7	43.9	44.4	44.2	44.1	44.9	44.8	44.9
Quarrying	47.7	46.2	46.9	49.5	49.6	49.2	48.0	46.5	46.6	49.4	52.3
Manufacturing	48.5	48.0	48.0	48.1	47.6	48.1	47.8	46.5	47.7	48.4	47.4
Utilities	48.1	47.9	48.2	48.0	48.0	48.3	47.7	47.3	47.3	46.6	n.a
Construction	47.4	47.1	48.1	49.3	50.5	50.5	52.2	51.0	50.0	49.5	48.2
Commerce	44.2	44.2	44.1	44.1	44.0	43.9	43.5	43.3	42.9	42.8	41.7
Transport & Communications	47.2	46.7	47.1	47.4	46.8	46.5	46.0	45.1	45.8	46.0	45.6
Financial & Business Services	43.8	43.8	43.6	43.8	43.5	43.3	43.3	43.3	43.7	43.6	44.2
Other Services	41.7	42.1	42.0	39.7	39.9	39.9	39.4	39.2	39.8	40.8	41.7

Note: The data for 1988 refer to private sector firms with at least 25 workers, while those for 1978-1987 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, 1978-1988

Number

Year	Number on 'Live' Register ¹	New Registrants			Vacancies Notified			Vacancies Filled		
		Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
1978	15,244	24,208	14,021	10,187	27,904	17,697	10,207	7,888	5,425	2,463
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

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, 1978-1988
(End of Period)

Age Group (Years)	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Thousand											
Total	779.4	832.9	863.6	917.9	927.5	917.9	943.0	889.6	912.0	935.3	963.8
Under 15	2.4	2.3	1.8	1.3	0.8	0.8	0.6	0.3	0.3	0.4	0.5
15 - 19	97.4	100.2	96.0	91.2	80.3	71.3	68.5	47.3	44.1	43.1	39.7
20 - 24	192.4	204.2	209.1	219.1	212.7	203.3	202.2	181.0	177.3	168.7	159.3
25 - 29	154.6	165.6	173.5	189.0	197.0	197.0	203.0	198.1	203.8	206.1	208.8
30 - 34	94.9	110.2	123.9	133.1	139.1	142.4	149.5	149.8	159.8	168.9	178.3
35 - 39	64.9	65.5	63.5	71.3	83.4	91.8	104.9	113.2	119.6	126.6	135.3
40 - 44	52.7	57.3	59.4	63.7	64.1	63.9	63.5	59.4	65.2	77.6	89.3
45 - 49	41.4	42.8	44.7	47.0	48.2	50.5	54.0	54.3	56.5	57.5	59.8
50 - 54	31.7	33.8	34.8	36.3	37.3	37.6	38.4	38.8	39.2	40.3	44.0
55 - 59	18.9	19.6	20.2	21.5	22.9	23.1	24.2	23.4	22.9	23.5	25.0
60 & Over	19.7	20.3	22.8	23.2	22.0	21.4	21.6	20.5	19.7	20.1	21.5
Not specified	8.4	11.1	13.9	21.2	19.7	14.8	12.6	3.5	3.6	2.5	2.3
Per Cent											
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 15	0.3	0.3	0.2	0.1	0.1	0.1	0.1	-	-	0.1	0.1
15 - 19	12.5	12.0	11.1	9.9	8.7	7.8	7.3	5.3	4.8	4.6	4.1
20 - 24	24.7	24.5	24.2	23.9	22.9	22.1	21.4	20.4	19.4	18.0	16.5
25 - 29	19.8	19.9	20.1	20.6	21.2	21.5	21.5	22.3	22.4	22.0	21.7
30 - 34	12.2	13.2	14.4	14.5	15.0	15.5	15.9	16.8	17.5	18.1	18.5
35 - 39	8.3	7.9	7.4	7.8	9.0	10.0	11.1	12.7	13.1	13.5	14.0
40 - 44	6.8	6.9	6.9	6.9	6.9	7.0	6.7	6.7	7.2	8.3	9.3
45 - 49	5.3	5.1	5.2	5.1	5.2	5.5	5.7	6.1	6.2	6.2	6.2
50 - 54	4.1	4.1	4.0	4.0	4.0	4.1	4.1	4.4	4.3	4.3	4.6
55 - 59	2.4	2.4	2.3	2.4	2.5	2.5	2.6	2.6	2.5	2.5	2.6
60 & Over	2.5	2.4	2.6	2.5	2.4	2.3	2.3	2.3	2.2	2.1	2.2
Not specified	1.1	1.3	1.6	2.3	2.1	1.6	1.3	0.4	0.4	0.3	0.2

Source : Central Provident Fund Board

3.14 CENTRAL PROVIDENT FUND CONTRIBUTORS BY WAGE LEVEL, 1978-1988
(End of Period)

Monthly Wage Level (\$)	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Thousand											
Total	779.4	832.9	863.6	917.9	927.5	917.9	943.0	889.6	912.0	935.3	963.8
Below 100	23.9	20.4	12.4	9.6	7.9	6.5	7.6	5.5	5.6	5.6	4.3
100 - 199	86.1	66.9	51.3	39.9	60.8	27.8	27.9	19.1	18.2	17.4	15.1
200 - 299	203.8	184.1	135.9	115.4	81.7	77.4	73.1	57.4	55.1	51.4	42.9
300 - 399	117.1	138.3	165.8	134.2	108.2	85.0	64.8	56.6	60.6	55.4	40.4
400 - 499	82.6	96.0	100.2	129.7	119.1	110.7	91.6	81.3	82.0	76.4	60.2
500 - 599	60.6	73.5	85.8	88.6	91.8	102.5	105.6	101.1	101.7	100.4	87.6
600 - 799	77.9	93.9	107.7	127.4	129.4	140.0	153.5	150.7	157.2	156.7	172.0
800 - 999	40.8	51.6	64.2	79.0	89.2	97.3	102.0	101.2	105.3	111.0	126.7
1,000 - 1,199	22.9	29.4	37.8	51.4	56.7	67.0	75.8	74.9	75.6	79.3	92.9
1,200 - 1,499	21.0	25.2	31.0	43.8	56.8	62.1	71.5	70.0	73.2	78.8	94.0
1,500 - 1,999	16.6	22.6	30.4	40.4	47.0	55.6	66.3	65.2	67.5	74.4	89.9
2,000 - 2,499	8.1	9.6	10.9	17.7	24.1	29.6	35.7	36.2	36.8	41.2	47.9
2,500 - 2,999	4.0	5.0	6.5	9.1	13.1	17.0	19.6	20.7	21.5	24.4	26.8
3,000 & Over	6.8	8.7	12.4	18.3	27.3	32.2	43.4	45.9	47.9	59.8	61.5
Not specified	7.2	7.7	11.3	13.4	14.4	7.2	4.6	3.8	3.8	3.1	1.6
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 100	3.1	2.5	1.4	1.0	0.9	0.7	0.8	0.6	0.6	0.6	0.4
100 - 199	11.0	8.0	6.0	4.4	6.6	3.0	3.0	2.1	2.0	1.9	1.6
200 - 299	26.2	22.1	15.7	12.6	8.8	8.4	7.7	6.5	6.0	5.5	4.5
300 - 399	15.0	16.6	19.2	14.6	11.7	9.3	6.9	6.4	6.6	5.9	4.2
400 - 499	10.6	11.5	11.6	14.1	12.8	12.1	9.7	9.1	9.0	8.2	6.2
500 - 599	7.8	8.8	9.9	9.6	9.9	11.2	11.2	11.4	11.2	10.7	9.1
600 - 799	10.0	11.3	12.5	13.9	13.9	15.2	16.3	16.9	17.2	16.7	17.8
800 - 999	5.2	6.2	7.4	8.6	9.6	10.6	10.8	11.4	11.6	11.9	13.1
1,000 - 1,199	2.9	3.5	4.4	5.6	6.1	7.3	8.0	8.4	8.3	8.5	9.6
1,200 - 1,499	2.7	3.0	3.6	4.8	6.1	6.8	7.6	7.9	8.0	8.4	9.8
1,500 - 1,999	2.1	2.7	3.5	4.4	5.1	6.1	7.0	7.3	7.4	8.0	9.3
2,000 - 2,499	1.1	1.2	1.3	1.9	2.6	3.2	3.8	4.1	4.0	4.4	5.0
2,500 - 2,999	0.5	0.6	0.8	1.0	1.4	1.8	2.1	2.3	2.4	2.6	2.8
3,000 & Over	0.9	1.1	1.4	2.0	2.9	3.5	4.6	5.2	5.3	6.4	6.4
Not specified	0.9	0.9	1.3	1.5	1.6	0.8	0.5	0.4	0.4	0.3	0.2

Source : Central Provident Fund Board

3.15 CENTRAL PROVIDENT FUND CONTRIBUTORS BY INDUSTRY, 1978-1988
(End of Period)

Industry	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Thousand											
All Industries	779.4	832.9	863.6	917.9	927.5	917.9	943.0	889.6	912.0	935.3	963.8
Agriculture & Fishing	1.8	2.0	2.0	2.2	2.3	2.3	2.4	2.4	2.6	2.4	2.3
Quarrying	1.1	1.0	1.2	1.6	1.6	1.7	0.9	0.7	0.7	0.6	0.6
Manufacturing	259.1	280.7	284.2	292.2	274.6	261.0	283.0	251.4	271.1	287.5	297.6
Utilities	8.9	8.8	8.2	7.9	7.8	7.7	7.7	7.8	7.7	7.3	7.0
Construction	26.7	27.5	29.3	37.6	43.0	47.9	58.6	54.2	51.6	44.2	41.3
Commerce	166.3	179.1	187.9	203.5	212.7	210.6	208.3	194.1	195.4	204.1	215.0
Transport & Communications	87.5	92.2	95.2	98.6	98.0	95.1	93.3	90.3	90.0	91.9	98.0
Financial & Business Services	69.9	77.4	84.3	95.1	102.1	107.0	111.6	108.9	109.0	111.8	117.4
Other Services	157.0	162.5	165.8	170.3	175.3	174.3	176.7	179.8	183.9	185.5	184.5
Activities Not Adequately Defined	1.1	1.7	5.5	8.9	10.1	10.3	0.5	-	-	-	0.1
Per Cent											
All Industries	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Agriculture & Fishing	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2
Quarrying	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Manufacturing	33.3	33.7	32.9	31.8	29.6	28.4	30.0	28.3	29.7	30.7	30.9
Utilities	1.2	1.1	1.0	0.9	0.8	0.8	0.8	0.9	0.8	0.8	0.7
Construction	3.4	3.3	3.4	4.1	4.6	5.2	6.2	6.1	5.6	4.7	4.3
Commerce	21.3	21.5	21.8	22.2	22.9	22.9	22.1	21.8	21.4	21.8	22.3
Transport & Communications	11.2	11.1	11.0	10.7	10.6	10.4	9.9	10.1	9.9	9.8	10.2
Financial & Business Services	9.0	9.3	9.8	10.4	11.0	11.7	11.8	12.2	12.0	12.0	12.2
Other Services	20.2	19.5	19.2	18.5	18.9	19.0	18.8	20.2	20.2	19.8	19.1
Activities Not Adequately Defined	0.1	0.2	0.6	1.0	1.1	1.1	-	-	-	-	-

Source: Central Provident Fund Board

3.16 CENTRAL PROVIDENT FUND MEMBERS BY AGE GROUP, 1978-1988
(End of Period)

Age Group (Years)	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Thousand											
Total	1,340.8	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
Under 20	166.8	175.8	177.0	179.0	166.1	152.2	142.3	118.9	98.3	95.4	95.8
20 - 24	308.4	322.5	333.5	357.2	367.5	368.6	369.9	355.0	337.6	316.4	290.2
25 - 29	264.5	286.7	305.0	334.9	353.2	362.8	374.7	383.3	389.3	393.3	395.3
30 - 34	168.5	197.2	227.3	252.1	271.4	290.6	310.4	327.0	345.7	359.2	370.0
35 - 39	121.4	123.1	121.3	138.3	163.2	184.4	212.3	242.2	261.2	278.4	297.2
40 - 44	94.9	105.2	112.2	123.8	128.0	131.8	132.3	130.2	144.5	169.1	190.6
45 - 49	72.8	77.1	82.4	88.7	92.9	101.2	111.1	118.4	128.0	132.0	135.8
50 - 54	56.0	60.6	64.0	68.3	71.4	74.2	78.0	84.0	88.8	92.2	99.8
55 & Over	66.3	69.6	77.3	82.0	86.6	88.3	94.7	105.5	112.6	122.0	157.2
Not specified	21.2	17.8	18.7	25.4	25.0	24.8	26.8	27.2	27.8	30.5	31.5
Per Cent											
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 20	12.4	12.2	11.6	10.8	9.7	8.6	7.7	6.2	5.1	4.8	4.7
20 - 24	23.0	22.5	22.0	21.7	21.3	20.7	20.0	18.8	17.5	15.9	14.1
25 - 29	19.7	20.0	20.1	20.3	20.5	20.4	20.2	20.3	20.1	19.8	19.2
30 - 34	12.6	13.7	15.0	15.3	15.7	16.3	16.8	17.3	17.9	18.1	17.9
35 - 39	9.1	8.6	8.0	8.4	9.5	10.4	11.5	12.8	13.5	14.0	14.4
40 - 44	7.1	7.3	7.4	7.5	7.4	7.4	7.1	6.9	7.5	8.5	9.2
45 - 49	5.4	5.4	5.4	5.4	5.4	5.7	6.0	6.3	6.6	6.7	6.6
50 - 54	4.2	4.2	4.2	4.1	4.1	4.2	4.2	4.4	4.6	4.6	4.8
55 & Over	4.9	4.9	5.1	5.0	5.0	4.9	5.1	5.6	5.8	6.1	7.6
Not specified	1.6	1.2	1.2	1.5	1.4	1.4	1.4	1.4	1.4	1.5	1.5

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

Source : Central Provident Fund Board

3.17 CENTRAL PROVIDENT FUND MEMBERS BY BALANCES, 1978-1988
(End of Period)

Balance (\$)	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Thousand											
Total	1,340.8	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
Below 200	275.8	267.6	259.5	267.9	244.8	241.9	237.1	222.6	226.6	383.2 ¹	391.3 ¹
200 - 399	116.0	110.4	104.0	115.5	112.8	110.9	113.7	110.3	110.9	146.3 ²	149.9 ²
400 - 599	78.2	79.1	72.2	76.0	75.0	73.6	77.0	76.5	77.4		
600 - 799	61.7	63.3	58.1	58.4	58.8	56.9	58.5	58.5	59.9		
800 - 999	51.5	53.2	49.7	48.7	47.6	47.1	48.2	48.3	49.5		
1,000 - 1,999	179.0	188.0	184.6	172.3	168.3	159.3	164.6	162.9	167.4		
2,000 - 2,999	113.8	123.5	131.4	124.6	116.1	106.5	110.5	107.5	106.7	114.5	117.8
3,000 - 3,999	82.1	89.6	100.0	102.5	94.1	84.9	87.6	83.2	83.0	88.4	92.7
4,000 - 5,999	110.3	123.7	139.3	156.5	148.6	136.9	139.6	136.0	131.9	133.3	143.7
6,000 - 7,999	72.4	80.3	93.5	109.1	117.5	109.8	107.8	108.3	104.9	106.5	113.8
8,000 - 9,999	46.3	57.6	65.8	79.4	91.7	92.0	88.6	87.6	86.5	86.1	90.3
10,000 - 19,999	97.0	122.2	154.4	193.9	242.5	276.8	284.5	289.3	285.2	286.6	294.0
20,000 - 29,999	27.4	37.0	50.7	67.0	94.4	121.4	134.2	149.9	159.5	164.5	166.0
30,000 & Over	29.3	40.1	55.5	77.9	113.1	160.9	200.6	250.8	284.4	304.4	326.9
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	20.6	18.6	17.1	16.2	14.2	13.6	12.8	11.8	11.7	19.3 ¹	19.0 ¹
200 - 399	8.7	7.7	6.8	7.0	6.5	6.2	6.1	5.8	5.7	7.4 ²	7.3 ²
400 - 599	5.8	5.5	4.8	4.6	4.3	4.1	4.2	4.0	4.0		
600 - 799	4.6	4.4	3.8	3.5	3.4	3.2	3.2	3.1	3.1		
800 - 999	3.8	3.7	3.3	3.0	2.8	2.6	2.6	2.6	2.6		
1,000 - 1,999	13.3	13.1	12.2	10.4	9.8	9.0	8.9	8.6	8.7		
2,000 - 2,999	8.5	8.6	8.7	7.6	6.7	6.0	6.0	5.7	5.5	8.8	8.6
3,000 - 3,999	6.1	6.3	6.6	6.2	5.4	4.8	4.7	4.4	4.3	5.8	5.7
4,000 - 5,999	8.2	8.6	9.2	9.5	8.6	7.7	7.5	7.2	6.8	8.8	8.6
6,000 - 7,999	5.4	5.6	6.1	6.6	6.8	6.2	5.8	5.7	5.4	8.3	8.0
8,000 - 9,999	3.5	4.0	4.3	4.8	5.3	5.2	4.8	4.6	4.5	15.3	15.8
10,000 - 19,999	7.2	8.5	10.2	11.8	14.1	15.6	15.4	15.3	14.8	14.4	14.2
20,000 - 29,999	2.0	2.6	3.3	4.1	5.5	6.8	7.2	7.9	8.2	8.3	8.0
30,000 & Over	2.3	2.8	3.6	4.7	6.6	9.0	10.8	13.3	14.7	15.3	15.8

¹ Refer to below \$500

² Refer to \$500-\$999

Source : Central Provident Fund Board

3.18 ENROLMENT IN NATIONAL PRODUCTIVITY BOARD COURSES, 1983-1988

Number

	1983	1984	1985	1986	1987	1988
TOTAL	9,254	10,600	8,690	9,567	9,640	17,202
Management & Supervisory Development	6,952	7,215	6,410	4,956	4,503	5,050
Diploma Programmes	869	1,075	924	1,138	618	790
Management Development	869	1,075	924	1,138	618	790
Certificate Programmes	825	1,597	1,698	1,103	1,399	2,044
Functional Management	78	169	542	-	449	444
People Management	89	162	185	1,103	96	-
Supervisory Management	658	1,266	971	-	854	1,600
Management Skills Programmes	5,258	4,543	3,788	2,715	2,486	2,216
People Management	811	661	877	-	64	-
Functional Management	1,471	1,231	327	2,715	752	819
Supervisory Development	2,976	2,423	388	-	1,222	705
Productivity Training	-	228	2,196	-	448	692
Labour-Management Relations	2,195	3,131	2,238	4,586	3,610	3,705
Quality Control Circles	1,548	2,060	1,503	4,062	2,902	3,429
Work Excellence	240	479	163	126	148	-
Joint NPB-NTUC Union Leaders Training	376	436	210	211	185	120
Teambuilding for Higher Productivity	31	156	272	95	173	-
Labour-Management Relations Practices	-	-	20	82	161	156
Total Quality Control	-	-	28	-	41	-
Joint Consultation	-	-	42	10	-	-
Core Skills for Effectiveness & Change	-	-	-	-	1,413	2,023
Others	107	254	42	25	114	6,424
National Productivity Association	107	181	-	-	-	-
Productivity Education Programme	-	73	42	25	114	6,424

Source : National Productivity Board

3.19 PARTICIPANTS IN SEMINARS AND WORKSHOPS, 1982-1988

Number

	1982	1983	1984	1985	1986	1987	1988
Total	6,280	18,264	23,172	17,906	13,491	18,240	13,337
Management & Supervisory Development	987	3,087	3,075	2,198	3,250	3,099	2,280
Quality Control Circles	4,933	11,234	15,430	10,914	9,294	10,565	10,820
Labour Management Co-operation	167	2,881	2,463	3,216	409	189	-
Worker Training	-	-	-	-	-	-	117
Others	193	1,062	2,204	1,578	538	4,387	120

Source : National Productivity Board

3.20 QUALITY CONTROL CIRCLES, 1982-1988 (End of Period)

Number

	1982	1983	1984	1985	1986	1987	1988
Registered Quality Control Circles	354	1,460	2,534	3,519	4,670	5,750	7,493
Organisations (Companies, Government Bodies & Statutory Boards)	44	98	128	143	156	168	186
Membership	2,682	10,861	18,723	25,670	33,971	41,164	53,935

Source : National Productivity Board

3.21 TRADE UNIONS AND MEMBERSHIP, 1978-1988

Number

End of Year	Employee Class		Employer Class	
	Unions	Members	Unions	Members
1978	89	236,907	50	6,775
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

Source : Ministry of Labour

3.22 INDUSTRIAL STOPPAGES AND TRADE DISPUTES, 1978-1988

Year	Industrial Stoppages			Trade Disputes ¹
	Number	Workers Involved	Man-days Lost	Number
1978	-	-	-	548
1979	-	-	-	577
1980	-	-	-	484
1981	-	-	-	392
1982	-	-	-	311
1983	-	-	-	353
1984	-	-	-	338
1985	-	-	-	340
1986	1	61	122	317
1987	-	-	-	275
1988	-	-	-	366

¹ From 1979, figures 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, 1978-1988
(Aged 15 Years and Over)

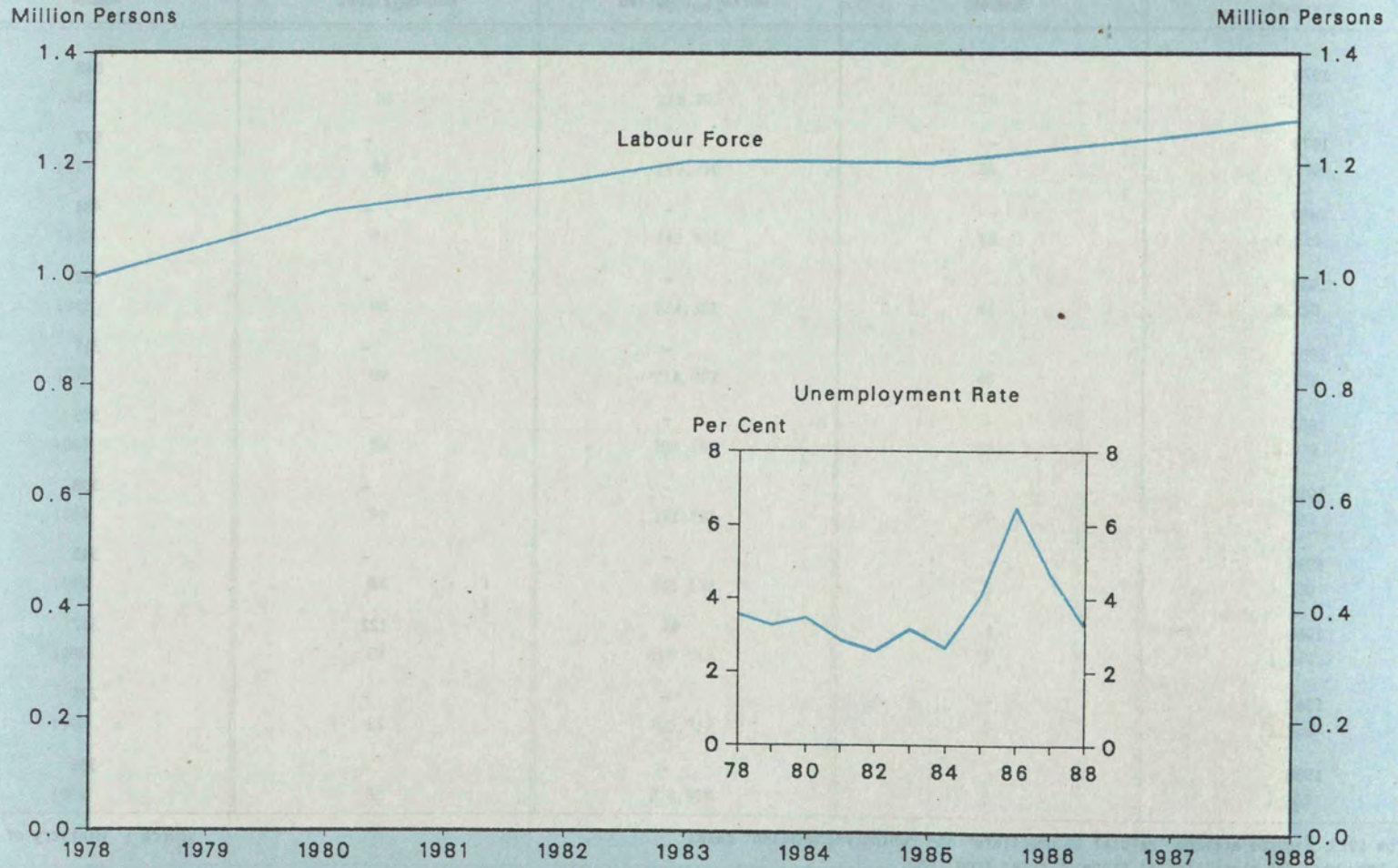


CHART 4

AGE-SEX SPECIFIC LABOUR FORCE PARTICIPATION RATES, 1970 & 1988

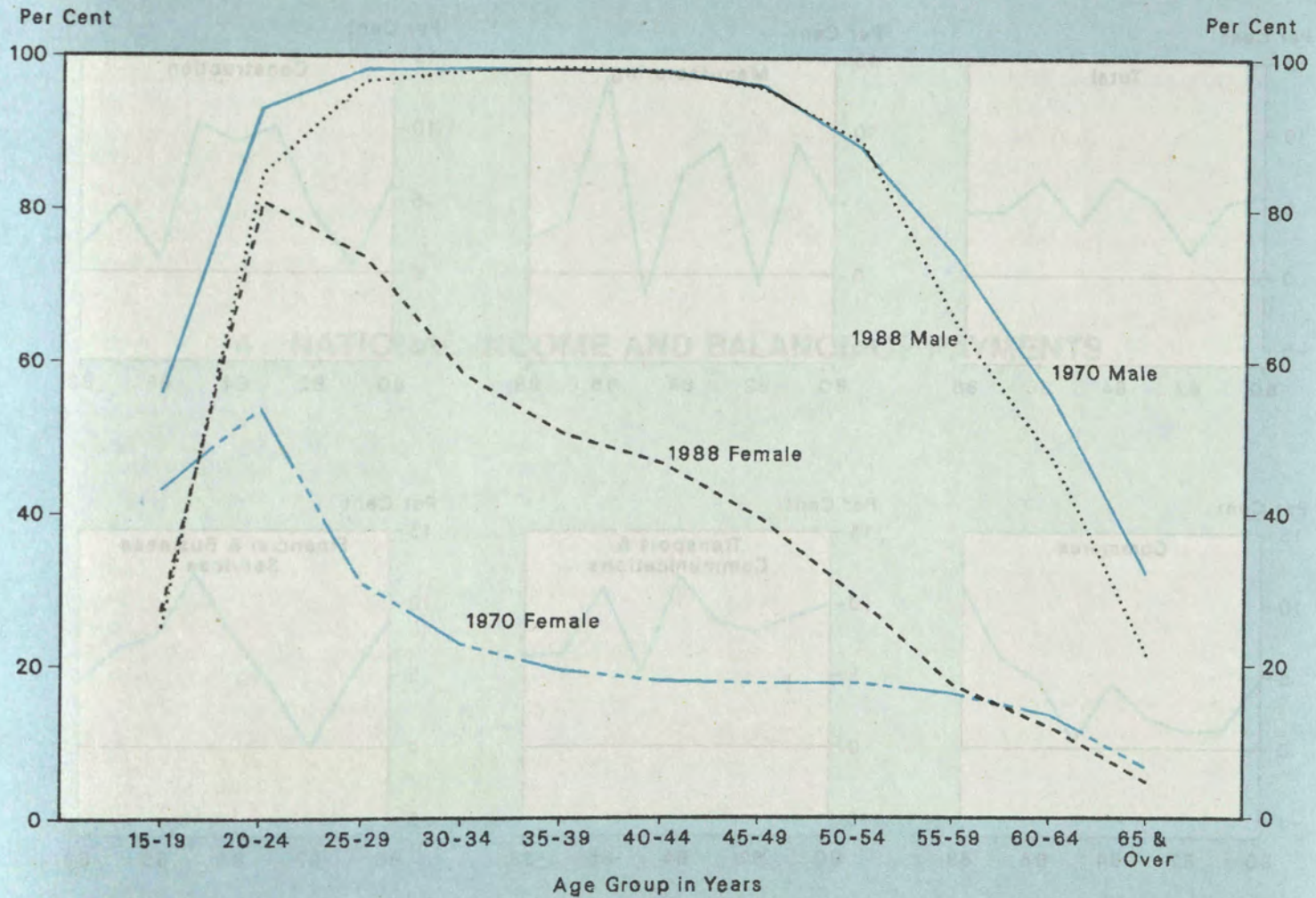
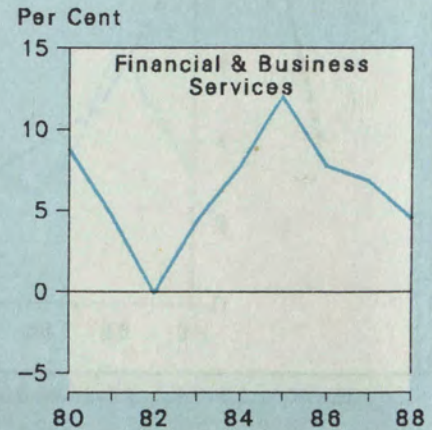
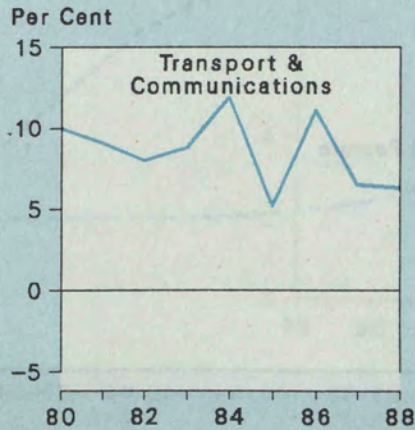
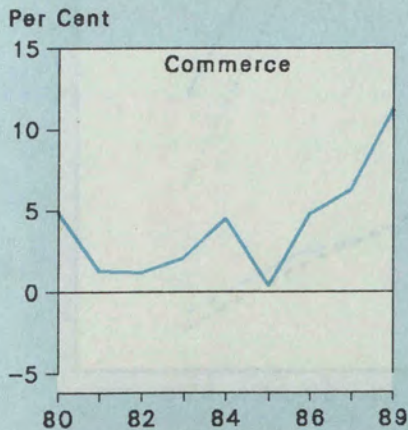
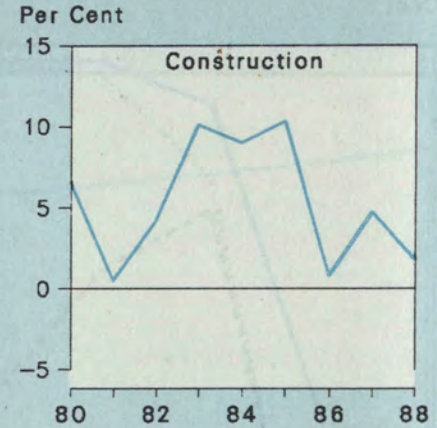
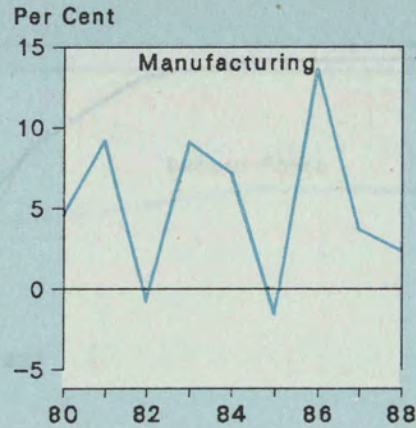
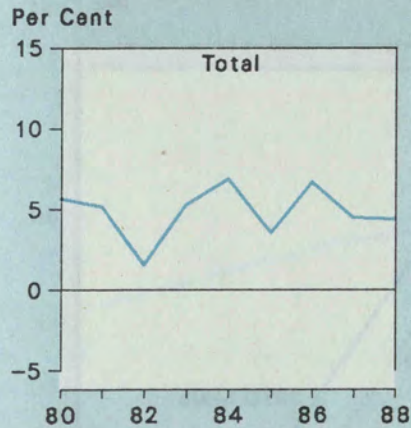


CHART 5

CHANGES IN PRODUCTIVITY BY INDUSTRY, 1980-1988



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, accrues 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

Merchandised 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, 1978-1988
(At Current Market Prices)

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
Total Gross Domestic Product	17,830	20,523	25,091	29,339	32,670	36,733	40,048	38,924	38,217	42,038	48,046
Share of Resident Foreigners & Resident Foreign Companies in GDP	4,616	6,220	7,537	8,161	8,457	8,771	9,575	8,807	9,382	10,387	12,092
Indigenous GDP	13,214	14,303	17,554	21,179	24,213	27,962	30,473	30,117	28,835	31,651	35,954
Factor Receipts of Singaporeans from Rest of the World	911	1,287	1,485	1,726	2,014	2,198	2,762	3,297	3,815	4,434	5,226
Indigenous GNP	14,126	15,590	19,039	22,904	26,227	30,160	33,235	33,414	32,650	36,085	41,180
Per Capita Indigenous GNP (S\$)	6,303	6,892	8,343	9,869	11,120	12,584	13,671	13,547	13,061	14,253	15,999

4.2 OUTPUT, SAVING AND INVESTMENT, 1978-1988
(At Current Market Prices)

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
Gross National Product											
Gross National Product at Market Prices	17,787.4	20,444.1	24,188.5	28,191.2	31,775.7	36,561.1	40,815.1	40,330.4	39,612.8	43,682.5	49,864.5
Gross Domestic Product at Factor Cost	16,554.7	18,975.6	23,271.9	27,166.7	30,190.4	33,718.8	36,551.7	35,619.4	35,622.6	39,254.5	44,779.2
Indirect Taxes	1,275.7	1,547.4	1,818.8	2,172.7	2,479.5	3,014.0	3,496.2	3,304.1	2,594.4	2,783.5	3,266.6
Net Factor Income from Abroad	-43.0	-78.9	-902.2	-1,148.2	-894.2	-171.7	767.2	1,406.9	1,395.8	1,644.5	1,818.7
Generation of Gross National Saving											
Gross National Saving	5,928.4	7,299.8	8,282.0	10,482.5	12,885.2	16,306.1	18,596.4	16,543.4	15,767.9	17,605.6	20,926.7
Gross Domestic Saving	6,059.8	7,454.8	9,411.8	11,953.5	14,218.2	16,932.0	18,304.3	15,605.5	14,787.5	16,364.5	19,573.6
Gross Domestic Product at Market Prices	17,830.4	20,523.0	25,090.7	29,339.4	32,669.9	36,732.8	40,047.9	38,923.5	38,217.0	42,038.0	48,045.8
Less : Private & Government Consumption Expenditure	12,113.8	13,278.8	15,358.7	17,117.9	18,852.9	20,197.4	21,902.5	23,101.4	23,337.7	25,297.6	28,476.7
Statistical Discrepancy	343.2	210.6	-320.2	-268.0	401.2	396.6	158.9	-216.6	-91.8	-375.9	4.5
Net Factor Income from Abroad	-43.0	-78.9	-902.2	-1,148.2	-894.2	-171.7	767.2	1,406.9	1,395.8	1,644.5	1,818.7
Net Transfers from Abroad	-88.4	-76.1	-227.6	-322.8	-438.8	-454.2	-475.1	-469.0	-415.4	-403.4	-465.6
Finance of Gross Capital Formation											
Gross Capital Formation	6,957.4	8,899.9	11,627.6	13,587.0	15,658.8	17,595.8	19,417.3	16,551.2	14,587.4	16,441.9	17,586.3
Gross National Saving	5,928.4	7,299.8	8,282.0	10,482.5	12,885.2	16,306.1	18,596.4	16,543.4	15,767.9	17,605.6	20,926.7
Net Borrowing from/Lending (-) to Abroad	1,029.0	1,600.1	3,345.6	3,104.5	2,773.6	1,289.7	820.9	7.8	-1,180.5	-1,163.7	-3,340.4

4.3 GROSS DOMESTIC PRODUCT BY INDUSTRY, 1978-1988

Million Dollars

Industry	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
At Current Market Prices											
Total	17,830.4	20,523.0	25,090.7	29,339.4	32,669.9	36,732.8	40,047.9	38,923.5	38,217.0	42,038.0	48,045.8
Agriculture & Fishing	273.7	295.2	322.0	356.2	349.1	330.9	339.7	292.3	244.5	221.5	203.3
Quarrying	37.5	42.1	82.2	104.7	128.1	140.6	132.2	111.3	75.6	57.3	51.2
Manufacturing	4,575.9	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	14,509.7
Utilities	351.1	422.1	555.0	477.5	600.9	702.7	773.0	796.0	1,056.9	943.1	1,135.2
Construction	1,118.8	1,236.6	1,613.2	2,163.7	3,146.1	4,202.5	4,943.7	4,167.9	3,149.1	2,868.7	2,755.9
Commerce	4,283.3	4,844.8	5,435.1	5,840.0	6,387.5	6,667.4	6,885.5	6,636.3	6,516.3	7,354.9	8,826.8
Transport & Communications	2,554.7	2,852.5	3,522.2	4,063.0	4,435.8	4,891.9	5,222.3	5,234.5	5,297.0	5,769.8	6,625.0
Financial & Business Services	3,165.6	3,708.1	4,906.1	6,608.4	7,697.6	8,803.9	9,879.6	10,552.7	10,573.9	12,001.4	13,111.4
Other Services	1,867.2	2,088.6	2,326.3	2,715.1	3,399.7	3,880.8	4,321.8	4,676.6	4,594.1	4,721.4	5,221.0
Less : Imputed Bank Service Charge	737.6	1,039.2	1,410.9	1,778.6	2,109.9	2,306.8	2,827.4	3,196.5	3,869.5	4,444.5	4,990.0
Add : Import Duties	340.2	369.7	426.8	427.9	481.5	511.0	514.1	468.1	393.6	453.8	596.3
At 1985 Market Prices											
Total	24,046.0	26,284.7	28,832.5	31,603.1	33,772.3	36,537.2	39,572.5	38,923.5	39,641.4	43,141.4	47,908.4
Agriculture & Fishing	314.9	321.2	325.1	319.4	303.4	311.0	326.5	292.3	260.8	234.0	206.7
Quarrying	52.5	60.0	65.0	83.5	104.0	122.0	120.2	111.3	94.3	93.4	88.1
Manufacturing	6,790.3	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	13,821.1
Utilities	491.4	536.5	578.0	620.4	650.2	707.8	762.1	796.0	839.9	926.6	1,012.1
Construction	1,730.6	1,852.8	2,055.8	2,418.4	3,299.0	4,266.7	4,927.2	4,167.9	3,234.2	2,897.7	2,742.4
Commerce	4,767.6	5,095.6	5,452.8	5,755.0	6,091.9	6,374.2	6,738.9	6,636.3	6,593.7	7,325.6	8,566.1
Transport & Communications	2,663.1	3,046.4	3,448.5	3,896.8	4,351.7	4,678.1	5,131.8	5,234.5	5,679.5	6,173.5	6,806.2
Financial & Business Services	4,465.2	4,972.0	5,862.6	6,811.5	7,495.3	8,324.0	9,354.2	10,552.7	11,082.4	12,108.1	13,151.2
Other Services	3,057.2	3,217.6	3,389.4	3,578.2	3,908.3	4,218.7	4,459.1	4,676.6	4,837.2	5,033.3	5,280.8
Less : Imputed Bank Service Charge	707.1	991.6	1,340.8	1,653.8	1,925.4	2,191.7	2,666.6	3,196.5	3,330.0	3,722.0	4,277.4
Add : Import Duties	420.3	446.9	496.0	483.1	528.5	510.0	511.5	468.1	393.6	398.0	511.1

4.4 QUARTERLY GROSS DOMESTIC PRODUCT BY INDUSTRY, 1983-1988
(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
1983												
1st Qtr	8,590.9	78.1	30.0	2,057.3	160.8	925.9	1,522.6	1,109.1	2,035.7	1,057.0	518.2	132.6
2nd Qtr	8,982.1	75.5	30.9	2,288.5	181.4	1,050.2	1,523.7	1,161.3	2,068.5	1,022.3	541.5	121.3
3rd Qtr	9,298.7	77.9	29.2	2,384.8	184.1	1,094.1	1,615.6	1,193.0	2,097.7	1,053.2	555.2	124.3
4th Qtr	9,665.5	79.5	31.9	2,485.8	181.5	1,196.5	1,712.3	1,214.7	2,122.1	1,086.2	576.8	131.8
1984												
1st Qtr	9,469.7	76.6	27.9	2,273.6	177.5	1,183.0	1,610.0	1,222.5	2,264.9	1,131.2	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	2,267.9	1,097.4	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	2,366.4	1,117.4	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	2,455.0	1,113.1	690.7	126.2
1985												
1st Qtr	9,733.8	80.6	28.5	2,207.8	193.8	1,181.3	1,678.2	1,269.3	2,519.8	1,206.9	770.2	137.7
2nd Qtr	9,713.0	72.5	28.6	2,364.3	204.0	1,030.8	1,636.3	1,308.6	2,605.4	1,134.5	776.3	104.3
3rd Qtr	9,735.7	69.5	29.5	2,332.3	200.0	1,022.9	1,629.5	1,316.2	2,681.3	1,153.6	813.5	114.4
4th Qtr	9,741.0	69.7	24.6	2,279.9	198.2	932.9	1,692.3	1,340.4	2,746.2	1,181.6	836.5	111.7
1986												
1st Qtr	9,397.7	67.4	21.9	2,074.2	191.4	867.1	1,583.9	1,362.4	2,680.6	1,223.9	800.5	125.4
2nd Qtr	9,827.9	64.8	22.4	2,526.4	210.2	895.3	1,596.8	1,400.3	2,694.9	1,156.4	818.2	78.6
3rd Qtr	10,094.6	63.8	24.6	2,657.7	218.1	762.3	1,655.9	1,460.2	2,794.4	1,204.4	837.0	90.2
4th Qtr	10,321.2	64.8	25.4	2,697.5	220.2	709.5	1,757.1	1,456.6	2,912.5	1,252.5	874.3	99.4
1987												
1st Qtr	10,052.2	60.1	23.8	2,423.4	211.8	725.8	1,626.8	1,467.0	2,918.6	1,275.1	773.5	93.3
2nd Qtr	10,606.1	59.5	23.7	2,917.6	228.5	739.5	1,792.6	1,509.2	3,944.8	1,202.0	894.9	83.6
3rd Qtr	11,043.5	56.9	23.6	3,079.3	239.6	732.6	1,896.7	1,591.5	3,045.5	1,238.1	964.2	103.9
4th Qtr	11,439.6	57.5	22.3	3,252.9	246.7	699.8	2,009.5	1,605.8	3,199.2	1,318.1	1,089.4	117.2
1988*												
1st Qtr	11,213.6	51.2	21.4	2,945.6	237.5	668.5	1,944.5	1,633.7	3,162.4	1,338.5	910.5	120.8
2nd Qtr	11,788.1	51.3	21.9	3,558.0	251.7	691.4	2,076.7	1,668.4	3,169.7	1,254.2	1,062.8	107.6
3rd Qtr	12,352.0	49.8	23.6	3,653.4	262.5	696.7	2,205.8	1,740.0	3,335.8	1,294.1	1,039.5	129.8
4th Qtr	12,554.7	54.4	21.2	3,664.1	260.4	685.8	2,339.1	1,764.1	3,483.3	1,394.0	1,264.6	152.9

4.5 GROSS DOMESTIC PRODUCT DEFLATORS BY INDUSTRY, 1978-1988
(1985 = 100)

Industry	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
Total	74.2	78.1	87.0	92.8	96.7	100.5	101.2	100.0	96.4	97.4	100.3
Agriculture & Fishing	86.9	91.9	99.0	111.5	115.1	106.4	104.0	100.0	93.8	94.7	98.4
Quarrying	71.4	70.2	126.5	125.4	123.2	115.2	110.0	100.0	80.2	61.3	58.1
Manufacturing	67.4	73.8	86.0	90.0	90.9	96.7	99.6	100.0	102.3	103.6	105.0
Utilities	71.4	78.7	96.0	77.0	92.4	99.3	101.4	100.0	125.8	101.8	112.2
Construction	64.6	66.7	78.5	89.5	95.4	98.5	100.3	100.0	97.4	99.0	100.5
Commerce	89.8	95.1	99.7	101.5	104.9	104.6	102.2	100.0	98.8	100.4	103.0
Transport & Communications	95.9	93.6	102.1	104.3	101.9	104.6	101.8	100.0	93.3	93.5	97.3
Financial & Business Services	70.9	74.6	83.7	97.0	102.7	105.8	105.6	100.0	95.4	99.1	99.7
Other Services	61.1	64.9	68.6	75.9	87.0	92.0	96.9	100.0	95.0	93.8	98.9

Note : Refer to gross domestic product at market prices.

4.6 EXPENDITURE ON GROSS DOMESTIC PRODUCT, 1978-1988

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
Total Private Consumption Expenditure Government Consumption Expenditure Gross Fixed Capital Formation Increase in Stocks Net Exports of Goods & Services Statistical Discrepancy	At Current Market Prices										
	17,830.4	20,523.0	25,090.7	29,339.4	32,669.9	36,732.8	40,047.9	38,923.5	38,217.0	42,038.0	48,045.8
	10,149.1	11,245.2	12,911.3	14,329.3	15,282.5	16,202.1	17,569.5	17,552.9	18,067.5	20,019.6	23,140.8
	1,964.7	2,033.6	2,447.4	2,788.6	3,570.4	3,995.3	4,333.0	5,548.5	5,270.2	5,278.0	5,335.9
	6,365.1	7,519.6	10,203.1	12,784.7	15,505.7	17,464.2	19,122.2	16,424.8	14,274.6	15,143.3	17,218.7
	592.3	1,380.3	1,424.5	802.3	153.1	131.6	295.1	126.4	312.8	1,298.6	367.6
	-897.6	-1,445.1	-2,215.8	-1,633.5	-1,440.6	-663.8	-1,113.0	-945.7	200.1	-77.4	1,987.3
	-343.2	-210.6	320.2	268.0	-401.2	-396.6	-158.9	216.6	91.8	375.9	-4.5
	At 1985 Market Prices										
	24,046.0	26,284.7	28,832.5	31,603.1	33,772.3	36,537.2	39,572.5	38,923.5	39,641.4	43,141.4	47,908.4
	13,168.1	13,971.4	14,809.7	15,491.3	16,086.4	16,852.1	17,711.6	17,552.9	18,254.7	20,025.9	22,716.9
	2,976.3	2,961.9	3,241.5	3,411.6	3,863.8	4,235.9	4,457.2	5,548.5	5,606.8	5,618.4	5,446.8
	8,199.9	9,257.7	11,126.6	12,810.3	15,405.7	17,067.7	18,677.4	16,424.8	14,503.1	15,065.1	16,226.2
	931.0	1,596.7	1,516.1	730.7	144.0	242.2	273.0	126.4	655.7	1,308.2	358.9
	-1,119.3	-1,318.5	-1,495.2	-1,088.6	-2,044.9	-1,669.6	-1,431.4	-945.7	359.9	831.4	3,540.8
	-110.0	-184.5	-366.2	247.8	317.3	-191.1	-115.3	216.6	261.2	292.4	-381.2

4.7 DEFLATORS OF EXPENDITURE ON GROSS DOMESTIC PRODUCT, 1978-1988
(1985 = 100)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
Total	74.2	78.1	87.0	92.8	96.7	100.5	101.2	100.0	96.4	97.4	100.3
Private Consumption Expenditure	77.1	80.5	87.2	92.5	95.0	96.1	99.2	100.0	99.0	100.0	101.9
Government Consumption Expenditure	66.0	68.7	75.5	81.7	92.4	94.3	97.2	100.0	94.0	93.9	98.0
Gross Fixed Capital Formation	77.6	81.2	91.7	99.8	100.6	102.3	102.4	100.0	98.4	100.5	106.1
Exports of Goods & Services	94.4	99.5	109.4	113.2	112.9	107.5	101.5	100.0	86.5	93.0	92.9
Imports of Goods & Services	94.0	99.8	110.5	113.8	111.5	105.8	101.1	100.0	86.6	94.1	94.2

4.8 PRIVATE CONSUMPTION EXPENDITURE, 1978-1988

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
At Current Market Prices											
Total	10,149.1	11,245.2	12,911.3	14,329.3	15,282.5	16,202.1	17,569.5	17,552.9	18,067.5	20,019.6	23,140.8
Food & Beverages	3,163.4	3,476.6	3,997.5	4,561.8	4,800.1	4,932.0	5,185.9	5,121.5	5,096.9	5,362.1	5,918.0
Clothing & Footwear	979.9	1,117.0	1,240.7	1,408.4	1,555.2	1,681.8	1,665.1	1,569.4	1,708.4	1,928.9	2,158.3
Rent & Utilities	1,129.9	1,219.7	1,390.4	1,493.1	1,623.4	1,745.3	1,976.6	2,184.9	2,292.8	2,421.2	2,565.3
Furniture & Household Equipment	1,006.6	1,114.5	1,322.9	1,525.8	1,602.1	1,719.3	1,943.2	2,015.3	2,051.6	2,145.1	2,511.9
Medical Services	326.4	350.9	411.7	445.3	502.8	567.4	643.1	702.2	810.0	863.2	992.0
Transport & Communications	1,526.0	1,820.4	2,198.3	2,345.5	2,560.2	2,743.1	2,816.7	2,678.7	2,611.9	2,956.8	3,599.9
Recreation & Education	1,379.4	1,647.7	1,802.7	2,153.8	2,229.1	2,421.0	2,543.0	2,453.5	2,809.6	3,226.4	3,920.1
Other Goods & Services	2,205.5	2,565.0	3,133.1	3,638.4	3,684.4	3,829.6	3,910.1	3,562.4	3,623.8	4,397.7	5,035.4
Add : Residents' Expenditure Abroad	440.1	475.2	585.7	651.2	843.3	973.4	1,049.5	1,103.5	1,145.8	1,362.4	1,523.2
Less : Non-residents' Expenditure Locally	2,008.1	2,541.8	3,171.7	3,894.0	4,118.1	4,410.8	4,163.7	3,838.5	4,083.3	4,644.2	5,083.3
At 1985 Market Prices											
Total	13,168.1	13,971.4	14,809.7	15,491.3	16,086.4	16,852.1	17,711.6	17,552.9	18,254.7	20,025.9	22,716.9
Food & Beverages	4,111.7	4,363.8	4,638.0	4,810.1	4,876.0	4,962.4	5,111.3	5,121.5	5,206.7	5,410.4	5,797.9
Clothing & Footwear	1,068.3	1,171.2	1,281.2	1,457.0	1,580.0	1,642.4	1,647.3	1,569.4	1,715.6	1,917.8	2,079.1
Rent & Utilities	1,476.9	1,528.3	1,576.4	1,630.9	1,694.2	1,794.9	1,984.8	2,184.9	2,364.5	2,551.3	2,694.1
Furniture & Household Equipment	1,211.1	1,291.6	1,451.9	1,609.4	1,641.4	1,747.1	1,953.3	2,015.3	2,011.9	2,090.4	2,413.3
Medical Services	506.2	524.6	550.9	570.0	620.1	633.1	654.6	702.2	804.4	859.5	972.9
Transport & Communications	2,139.6	2,404.4	2,618.4	2,752.8	2,861.2	2,995.0	2,967.3	2,678.7	2,725.7	2,998.1	3,515.1
Recreation & Education	1,424.8	1,612.7	1,735.3	2,047.0	2,168.9	2,480.4	2,534.9	2,453.5	2,792.2	3,175.6	3,821.4
Other Goods & Services	2,787.2	3,089.3	3,378.1	3,523.8	3,633.1	3,779.3	3,884.1	3,562.4	3,663.1	4,420.8	5,041.4
Add : Residents' Expenditure Abroad	612.4	638.6	699.0	729.6	896.0	992.2	1,049.7	1,103.5	1,161.0	1,369.6	1,504.7
Less : Non-residents' Expenditure Locally	2,170.1	2,653.1	3,119.5	3,639.3	3,884.5	4,174.7	4,075.7	3,838.5	4,190.4	4,767.6	5,123.0

4.9 GROSS FIXED CAPITAL FORMATION, 1978-1988

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*	
	At Current Market Prices											
	Total	6,365.1	7,519.6	10,203.1	12,784.7	15,505.7	17,464.2	19,122.2	16,424.8	14,274.6	15,143.3	17,218.7
	Construction & Works	2,495.9	2,943.2	4,309.5	6,107.1	8,280.1	10,876.6	11,954.6	10,007.4	7,873.3	6,955.3	6,439.8
	Residential Buildings	1,045.2	1,017.3	1,438.4	2,060.7	3,395.5	5,516.8	6,591.2	5,265.4	3,567.8	3,011.6	3,101.8
	Non-residential Buildings	963.4	1,405.3	2,069.7	3,149.4	3,912.4	4,336.7	4,200.5	3,284.8	2,133.7	1,743.6	1,906.0
	Other Construction & Works	487.3	520.6	801.4	897.0	972.2	1,023.1	1,162.9	1,457.2	2,171.8	2,200.1	1,432.0
	Transport Equipment	1,525.9	1,955.9	2,300.5	2,207.8	2,595.9	2,435.5	2,376.1	1,908.0	1,674.1	1,991.1	2,103.7
	Machinery & Equipment	2,343.3	2,620.5	3,593.1	4,469.8	4,629.7	4,152.1	4,791.5	4,509.4	4,727.2	6,196.9	8,675.2
	At 1985 Market Prices											
	Total	8,199.9	9,257.7	11,126.6	12,810.3	15,405.7	17,067.7	18,677.4	16,424.8	14,503.1	15,065.1	16,226.2
	Construction & Works	3,454.6	3,827.8	4,601.1	5,815.3	8,106.4	10,647.4	11,780.7	10,007.4	8,195.4	7,244.7	6,447.4
	Residential Buildings	1,530.7	1,416.6	1,573.1	1,960.8	3,403.2	5,551.4	6,549.5	5,265.4	3,720.6	3,129.7	3,095.9
	Non-residential Buildings	1,306.0	1,785.9	2,188.8	3,000.8	3,788.2	4,123.8	4,098.5	3,284.8	2,219.1	1,815.4	1,911.2
	Other Construction & Works	617.9	625.3	839.2	853.7	915.0	972.2	1,132.7	1,457.2	2,255.7	2,299.6	1,440.3
	Transport Equipment	2,058.2	2,465.4	2,785.9	2,574.8	2,857.0	2,344.0	2,207.0	1,908.0	1,708.5	1,926.0	1,926.2
	Machinery & Equipment	2,687.1	2,964.5	3,739.6	4,420.2	4,442.3	4,076.3	4,689.7	4,509.4	4,599.2	5,894.4	7,852.6

4.10 BALANCE OF PAYMENTS, 1978-1988

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
A Current Account Balance	-1,029.0	-1,600.1	-3,345.6	-3,104.5	-2,773.6	-1,289.7	-820.9	-7.8	1,180.5	1,163.7	3,340.4
Goods & Services (Net)	-940.6	-1,524.0	-3,118.0	-2,781.7	-2,334.8	-835.5	-345.8	461.2	1,595.9	1,567.1	3,806.0
Merchandise Trade Balance	-5,694.2	-6,632.0	-8,994.5	-12,936.5	-14,470.1	-12,304.1	-8,684.2	-6,223.5	-4,497.3	-5,552.0	-4,719.9
Exports fob	21,799.6	29,140.0	38,969.6	41,539.3	41,590.6	43,168.0	48,340.9	47,376.3	46,457.7	57,438.5	76,456.7
Imports fob	27,493.8	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	81,176.6
Services Balance	4,753.6	5,108.0	5,876.5	10,154.8	12,135.3	11,468.6	8,338.4	6,684.7	6,093.2	7,119.1	8,525.9
Exports of Services	9,531.6	11,413.0	15,071.2	20,503.1	23,436.9	22,398.2	19,590.9	18,034.3	18,226.2	20,919.7	24,680.0
Shipment	655.5	910.1	1,179.7	1,387.8	1,471.5	1,472.2	1,512.8	1,501.1	1,511.4	1,851.4	2,433.0
Travel	1,843.6	2,439.0	3,068.4	3,786.4	4,034.2	4,214.8	3,965.0	3,653.0	3,847.9	4,397.9	4,828.3
Investment Income	1,199.6	1,751.8	2,041.1	2,307.5	2,658.7	2,747.7	3,418.4	3,990.9	4,563.3	5,234.4	5,947.1
Official Transaction	104.2	108.0	174.1	206.2	223.0	214.0	232.4	217.8	211.8	208.0	217.5
Other Transportation & Services nie	5,728.7	6,204.1	8,607.9	12,815.2	15,049.5	13,749.5	10,462.3	8,671.5	8,091.8	9,228.0	11,254.1
Imports of Services	4,778.0	6,305.0	9,194.7	10,348.3	11,301.6	10,929.6	11,252.5	11,349.6	12,133.0	13,800.6	16,154.1
Shipment	1,429.0	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	5,191.3
Travel	534.4	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
Investment Income	1,259.1	1,847.0	2,960.0	3,473.8	3,570.2	2,937.4	2,670.3	2,602.4	3,185.1	3,606.6	4,146.2
Official Transaction	18.5	26.2	47.3	54.9	66.4	75.3	81.0	91.8	89.7	95.3	124.0
Other Transportation & Services nie	1,537.0	2,009.8	2,825.2	3,125.0	3,362.7	3,650.7	4,017.0	3,988.4	4,010.7	4,440.8	4,820.9
Unrequited Transfers (Net)	-88.4	-76.1	-227.6	-322.8	-438.8	-454.2	-475.1	-469.0	-415.4	-403.4	-465.6
Private	-81.1	-67.3	-222.6	-305.5	-415.5	-436.9	-456.5	-451.2	-374.0	-357.8	-420.3
Official	-7.3	-8.8	-5.0	-17.3	-23.3	-17.3	-18.6	-17.8	-41.4	-45.6	-45.3
B Capital Account Balance	2,303.8	2,169.7	3,388.3	4,578.5	4,940.6	5,204.4	3,369.9	1,536.9	-2,826.8	1,348.2	1,022.8
Non monetary Sector (Net)	1,634.9	2,570.0	3,096.7	3,583.6	4,224.7	2,378.4	1,769.7	2,554.8	961.7	3,158.4	3,018.1
Private	1,622.6	2,605.1	3,129.4	3,616.4	4,256.6	2,558.0	1,794.7	2,594.3	1,137.8	3,201.4	3,058.7
Official	12.3	-35.1	-32.7	-32.8	-31.9	-179.6	-25.0	-39.5	-176.1	-43.0	-40.6
Monetary Sector (Net)	668.9	-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
Commercial Banks : Foreign Assets ¹	-807.6	-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
Foreign Liabilities	1,476.5	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
C Allocation of Special Drawing Rights	-	14.3	14.5	17.6	-	-	-	-	-	-	-
D Balancing Item	236.7	553.4	1,376.6	446.8	350.5	-1,677.0	701.6	1,412.6	2,854.9	-183.4	-1,019.6
E Overall Balance (A+B+C+D)	1,511.5	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
F Official Reserves (Net)¹	-1,511.5	-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
Special Drawing Rights	-	-34.4	-38.8	-32.9	-51.9	-23.4	3.6	-17.6	-31.4	-29.1	-8.2
Reserve Position in the Fund	-10.8	-23.5	-33.8	-46.9	-10.1	-1.8	-1.3	-26.0	-24.8	-11.7	12.2
Foreign Exchange Assets	-1,500.7	-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

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

CHART 6

GROSS NATIONAL PRODUCT (GNP) AND PER CAPITA GNP, 1978-1988

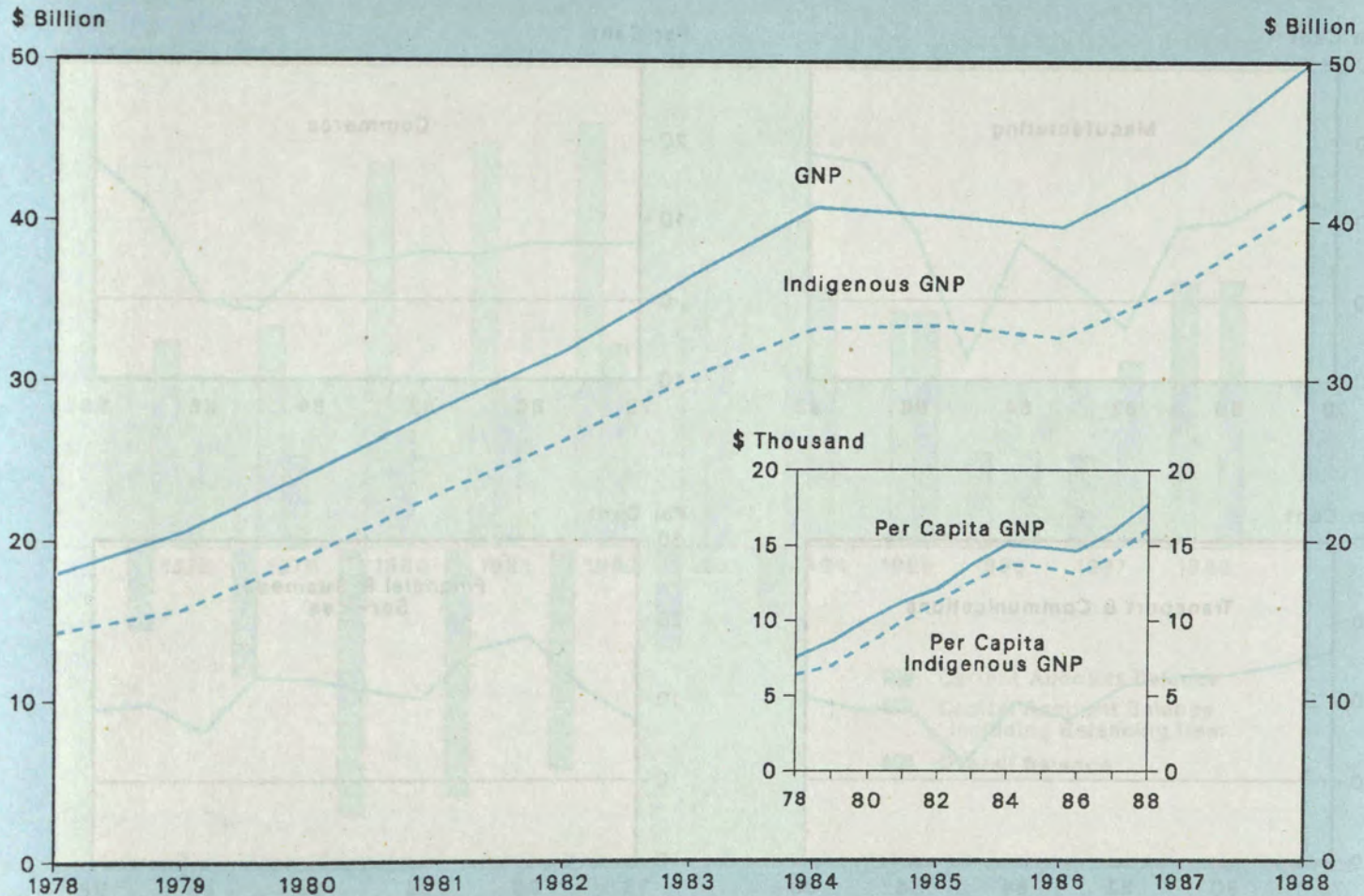


CHART 7

REAL ANNUAL GROWTH RATES OF MAJOR INDUSTRY, 1978-1988
(At 1985 Market Prices)

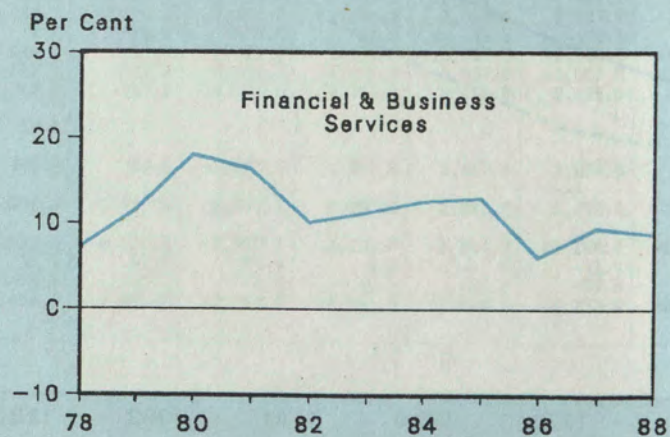
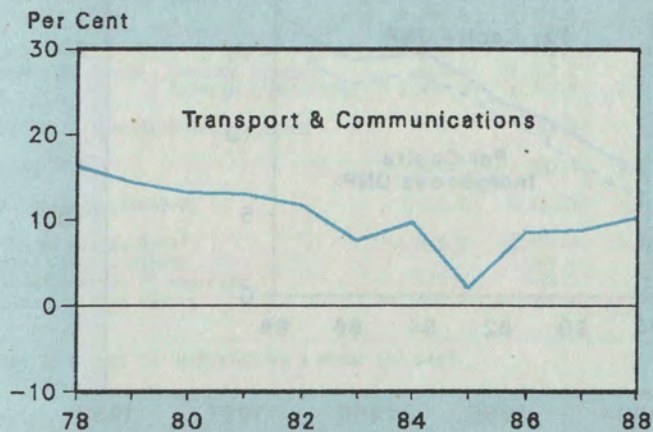
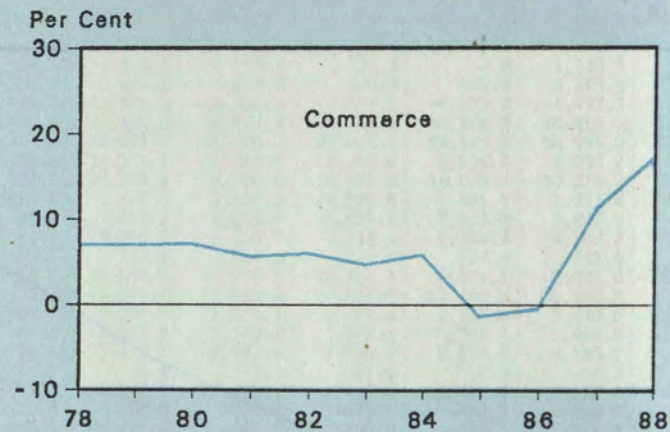
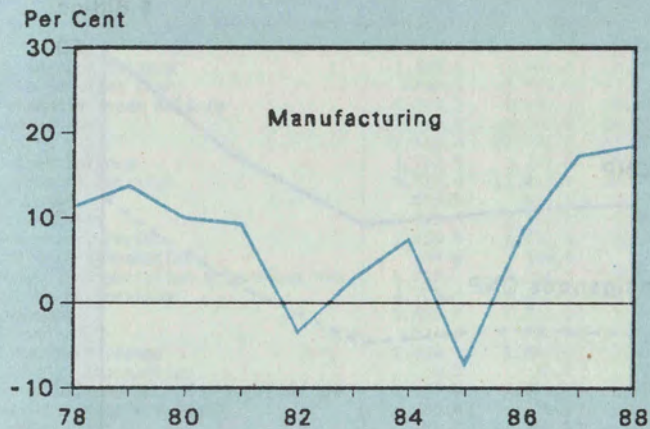
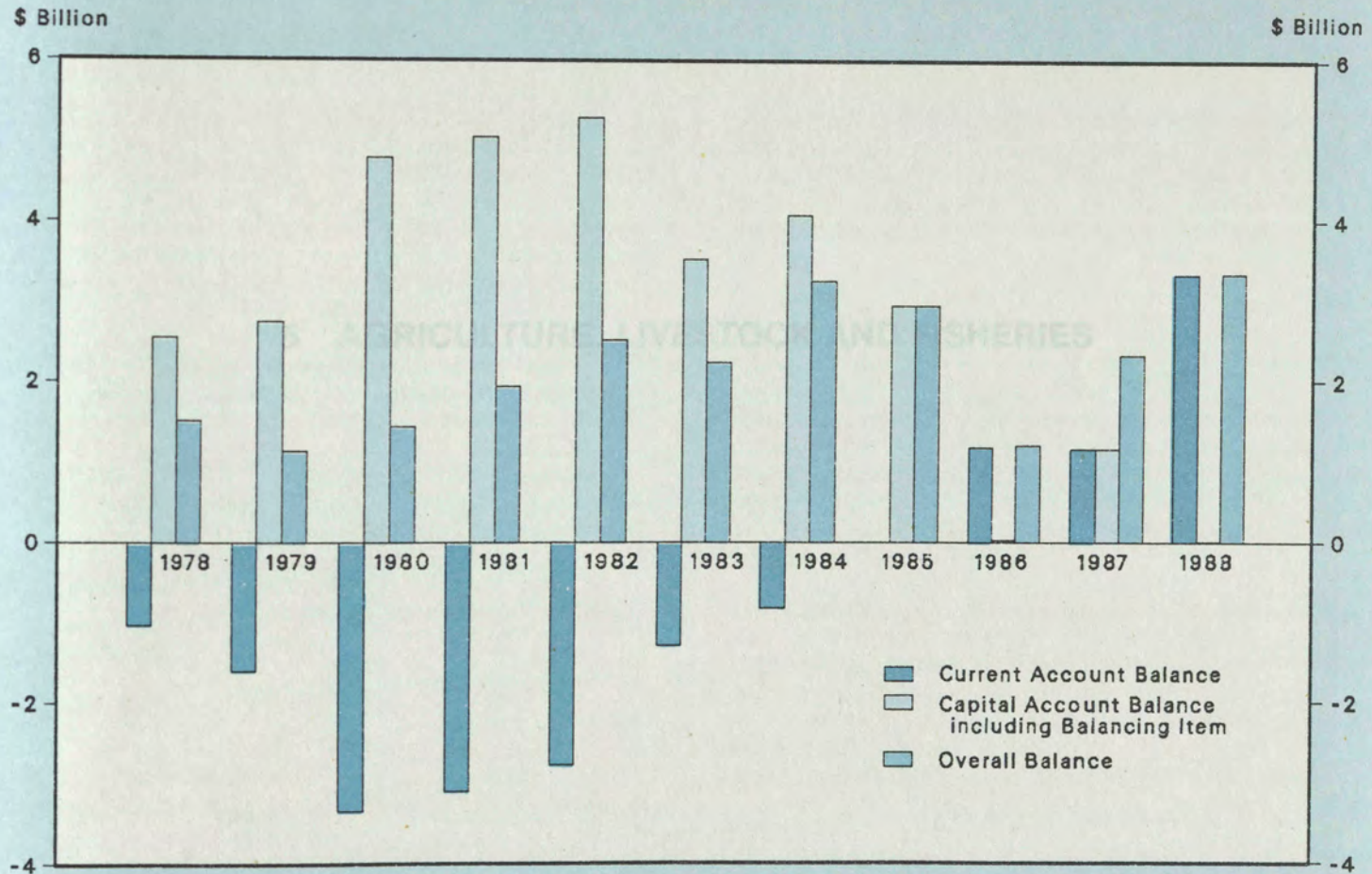


CHART 8
BALANCE OF PAYMENTS, 1978-1988



5 AGRICULTURE, LIVESTOCK AND FISHERIES

General

The agricultural sector of Singapore is engaged mainly in the production of vegetables, pigs, poultry, eggs and fish. About 3.7 per cent of Singapore's land area is used for agricultural purposes. While there are specialised, commercial-scale pig and poultry farms and nurseries, most of the other farms carry out mixed farming.

Horticulture

The more important horticultural crops are vegetables and orchids. Vegetable cultivation is highly intensive, producing leafy vegetables like cai xin, gai lan, weng cai and xian cai. Local vegetable production meets only about 5 per cent of total consumption.

A number of farms and nurseries grow orchids and ornamental foliage plants for domestic sale and export. Singapore is world renowned for her exotic orchids, exporting \$13.8 million worth of cut orchid flowers in 1988. There are few orchards in Singapore. Many farms grow fruit trees as part of their mixed farming, both for production and for shade. Data on production of principal crops were obtained from farm-holders.

Livestock

Rearing pigs and poultry is the most important farming activity in Singapore, accounting for about half of the value of primary production. Domestic production meets about 46 per cent of pork, 20 per cent of poultry meat and 35 per cent of hen eggs consumed in Singapore. However, pig farming is being phased out because of environmental pollution. Eventually domestic demand for pork will be met entirely by imports of live pigs and frozen pork.

Local farms and hatcheries export day-old chicks to countries in the region. In 1988, about \$3.5 million worth of day-old chicks were exported.

Livestock are slaughtered at the Jurong and Kim Chuan Abattoirs under close supervision of the Veterinary Division of the Primary Production Department.

Data on livestock slaughtered are obtained from the Jurong and Kim Chuan Abattoirs.

Fisheries

There were 384 fishing vessels, of which 367 were powered and 17 non-powered. In 1988, 13,152 tonnes of fish

were landed by local fishing vessels which were mainly otter-trawlers based at Punggol and Jurong.

The Jurong Fishing Port and Central Fish Market Complex plays an important role as a major fish landing point in Singapore. In 1988 the complex handled 92,185 tonnes of fresh fish. The Punggol Fishing Port and Wholesale Fish Market Complex handled 17,211 tonnes, landed mainly by local fishing vessels.

There are 74 licensed marine fish farms covering a total of 40 hectares of coastal waters, culturing high-value fish like groupers and seabass.

Singapore is a major exporter of aquarium fish, exporting \$59.7 million worth of aquarium fish and \$8.5 million worth of aquatic plants in 1988.

Data on local production and auction were collected at the Jurong Fishing Port and Punggol Fishing Port.

5.1 PRODUCTION OF PRINCIPAL CROPS, 1978-1988

Year	Vegetables	Fruits	Sugar Cane	Tobacco	Coconuts
	Tonnes				Million Nuts
1978	40,665	11,060	1,900	596	6
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

Source : Primary Production Department

5.2 LIVESTOCK SLAUGHTERED, 1978-1988

Number

Year	Pigs	Sheep	Goats	Oxen	Buffaloes
1978	805,341	88,874	715	2,064	125
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

Source : Primary Production Department

5.3 FISH SUPPLY AND AUCTIONED, 1978-1988

Tonnes

Year	Fish Supply			Fish Auctioned
	Local Production	Imports	Exports	
1978	15,634	68,781	30,398	66,883
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

Note : Exclude dried, salted and fish in brine

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

6 MANUFACTURING

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

Definitions

Section 3 of the Census of India Act, 1947 defines the term 'establishment' as follows:—

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

The census is primarily conducted on a regular basis. The period of reference is the calendar year except for those establishments whose financial year is not the calendar year. The census is conducted on a regular basis. The period of reference is the calendar year except for those establishments whose financial year is not the calendar year.

Census of Industrial Production (CIP) is a statistical survey conducted by the Government of India to collect data on the output of various manufacturing industries. It is a key indicator of the growth of the manufacturing sector in the country.

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. The results are published in the "Report on Quarterly Index of Industrial Production".

Investment Commitments

Investment Commitments refer to investment projects in terms of gross fixed assets which companies commit to invest in Singapore. Projects are only recorded as commitments if their potential for establishment is favourable and the company has made a firm undertaking to implement the project.

Pioneer Manufacturing Establishments

These are establishments which had been granted approval under the Pioneer Industries Programme 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 by the Research and Statistics Unit, Economic Development Board.

6.1 PRINCIPAL MANUFACTURING STATISTICS, 1978-1988

Year	Establishments	Workers	Input	Output	Census Value Added	Employees' Remuneration	Capital Expenditure	Direct Exports
	Number		Million Dollars					
1978	2,979	246,467	14,871.9	20,492.3	5,220.0	1,743.9	824.3	13,087.0
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	3,534	276,954	30,191.7	46,196.2	14,501.8	4,186.9	2,730.8	30,426.3
1988*	3,710	323,119	36,063.6	55,524.1	17,568.1	5,121.4	na	36,570.8

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, 1978-1988

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				
1978	21,179	83,144	25.5	33.4	8.5	64.2	63.9
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	52,362	166,801	31.4	28.9	9.1	65.9	65.9
1988	54,370	171,838	31.6	29.2	9.2	na	65.9

Note: See note to Table 6.1.

Source : Economic Development Board
with effect from April 1987

6.3 MANUFACTURING ESTABLISHMENTS BY INDUSTRY, 1978-1988

Numb

Industrial Code	Industry	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
311/2	Food	254	268	278	274	283	289	301	284	288	284	288
313	Beverage	14	14	16	17	16	16	14	14	15	15	16
314	Tobacco Products	8	8	8	6	6	6	4	4	4	4	4
321	Textiles & Textile Manufactures	79	93	99	94	95	87	80	62	65	63	64
322	Wearing Apparel except Footwear	345	365	374	374	406	391	387	370	371	373	379
323	Leather & Leather Products	44	42	42	40	43	37	38	28	26	25	27
324	Footwear	48	55	55	57	53	51	57	49	50	50	53
331	Sawn Timber & Other Wood Products except Furniture	134	133	131	132	119	110	104	109	100	90	98
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	94	107	117	117	125	127	142	145	155	148	155
341	Paper & Paper Products	86	94	93	95	92	88	86	81	78	78	83
342	Printing & Publishing	261	270	289	295	319	321	326	305	317	320	332
351	Industrial Chemicals & Gases	29	34	45	44	48	50	56	55	57	60	60
352	Paints, Pharmaceuticals & Other Chemical Products	88	85	89	86	84	85	90	90	88	86	85
353/4	Petroleum Refineries & Petroleum Products	11	10	10	11	11	11	12	12	11	11	11
355	Processing of Jelutong & Gum Damar	5	5	5	5	6	7	7	7	7	7	7
356	Rubber Products except Footwear & Toys	24	27	27	30	28	29	31	24	22	26	26
357	Plastic Products	175	184	195	209	214	215	224	221	210	229	249
361/2	Pottery, China, Earthenware & Glass Products	11	12	13	13	11	10	13	12	10	8	8
363	Structural Clay Products	9	9	9	9	11	11	11	10	9	8	8
364	Cement	5	5	5	5	5	5	5	6	6	6	6

6.3 MANUFACTURING ESTABLISHMENTS BY INDUSTRY, 1978-1988 (continued)

Number

Industrial Code	Industry	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
365	Structural Cement & Concrete Products	28	28	34	38	40	49	52	52	51	45	45
369	Non-metallic Mineral Products	23	23	28	24	21	25	28	30	29	25	27
371	Iron & Steel	15	16	17	17	16	15	15	15	14	12	13
372	Non-ferrous Metals	8	10	12	11	16	18	20	18	17	19	19
381	Fabricated Metal Products except Machinery & Equipment	305	310	338	371	413	426	435	435	413	425	441
382	Machinery except Electrical & Electronic	259	274	295	319	314	341	349	349	354	371	405
383	Electrical Machinery, Apparatus, Appliances & Supplies	115	117	119	113	114	112	110	115	104	105	111
384	Electronic Products & Components	101	141	172	185	186	203	214	207	194	236	255
385	Transport Equipment	223	216	253	261	295	291	252	220	197	183	196
386	Instrumentation Equipment, Photographic & Optical Goods	41	47	55	52	48	46	46	41	40	45	49
390	Other Manufacturing Industries	104	120	132	135	148	144	139	134	147	156	169
	Total Manufacturing excluding Rubber Processing	2,946	3,122	3,355	3,439	3,586	3,616	3,648	3,504	3,449	3,513	3,689
	Rubber Processing	16	15	14	12	11	10	8	7	7	5	5
	Total Manufacturing including Rubber Processing	2,962	3,137	3,369	3,451	3,597	3,626	3,656	3,511	3,456	3,518	3,694
	Granite Quarrying	17	19	22	20	20	17	19	18	16	16	16
	TOTAL	2,979	3,156	3,391	3,471	3,617	3,643	3,675	3,529	3,472	3,534	3,710

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, 1978-1988

Million Dollar

Industrial Code	Industry	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
311/2	Food	1,229.8	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	2,035.9
313	Beverage	205.5	219.7	249.1	327.2	317.1	318.1	309.5	319.5	365.3	408.8	464.3
314	Tobacco Products	171.1	166.0	171.3	193.6	219.3	206.6	184.5	188.4	176.1	172.8	234.1
321	Textiles & Textile Manufactures	352.6	425.8	488.8	422.1	323.7	272.1	251.6	193.4	239.2	317.1	364.2
322	Wearing Apparel except Footwear	633.1	737.0	848.4	924.7	929.0	938.9	1,084.9	1,035.4	1,243.7	1,562.3	1,729.3
323	Leather & Leather Products	50.4	51.4	47.0	49.6	47.3	41.2	40.1	35.9	34.3	38.3	46.0
324	Footwear	34.7	51.5	53.6	54.9	45.3	44.2	46.9	34.1	37.9	42.2	49.4
331	Sawn Timber & Other Wood Products except Furniture	550.2	796.1	749.8	641.0	532.1	468.0	399.3	339.2	293.4	314.0	392.2
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	116.9	160.9	227.5	277.1	259.8	282.5	353.1	363.4	350.9	374.2	425.6
341	Paper & Paper Products	158.7	209.2	272.7	302.2	326.1	331.3	372.5	386.0	426.7	570.3	672.7
342	Printing & Publishing	375.5	431.2	550.4	674.3	726.6	833.4	937.7	920.3	970.7	1,126.3	1,293.5
351	Industrial Chemicals & Gases	183.3	255.2	346.1	363.7	383.8	382.9	1,071.5	1,506.1	1,506.1	2,132.0	3,103.6
352	Paints, Pharmaceuticals & Other Chemical Products	411.1	429.9	583.3	663.4	704.4	885.3	1,104.2	1,069.8	1,298.7	1,491.3	1,526.3
353/4	Petroleum Refineries & Petroleum Products	7,498.3	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	7,765.3
355	Processing of Jelutong & Gum Damar	19.3	22.8	25.9	28.2	25.9	25.2	21.2	20.6	19.2	18.9	20.0
356	Rubber Products except Footwear & Toys	66.8	89.9	89.7	76.3	74.4	76.7	83.5	70.1	71.8	95.6	102.6
357	Plastic Products	277.8	380.7	498.1	519.0	504.9	547.5	634.9	589.5	591.2	827.4	1,126.9
361/2	Pottery, China, Earthenware & Glass Products	49.7	60.9	68.0	90.3	81.1	94.3	80.7	29.5	15.6	10.7	10.5
363	Structural Clay Products	14.2	21.3	30.7	34.9	43.3	58.9	67.4	46.8	29.5	33.9	35.7
364	Cement	179.9	225.2	277.1	347.2	405.7	441.4	281.3	164.7	152.6	121.5	128.4

6.4 MANUFACTURING OUTPUT BY INDUSTRY, 1978-1988 (continued)

Million Dollars

Industrial Code	Industry	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
365	Structural Cement & Concrete Products	71.2	95.5	156.5	263.9	379.1	600.9	657.2	585.8	487.4	372.6	338.8
369	Non-metallic Mineral Products	89.4	102.8	115.4	138.2	123.1	137.2	114.1	98.6	98.1	110.7	150.6
371	Iron & Steel	192.9	272.1	338.1	343.1	356.9	332.9	333.0	336.7	376.3	382.6	439.8
372	Non-ferrous Metals	56.1	135.4	190.4	130.5	156.0	153.6	212.0	236.4	261.2	187.9	205.3
381	Fabricated Metal Products except Machinery & Equipment	748.8	965.5	1,234.9	1,492.7	1,673.0	1,814.7	1,952.3	1,752.9	1,843.5	2,229.8	2,832.1
382	Machinery except Electrical & Electronic	844.4	1,183.5	1,662.7	2,484.2	2,322.1	2,050.4	1,943.2	1,805.4	1,683.2	2,069.0	2,425.8
383	Electrical Machinery, Apparatus, Appliances & Supplies	727.4	758.4	974.4	1,050.3	995.2	1,200.2	1,403.4	1,295.9	1,334.3	1,642.7	2,019.9
384	Electronic Products & Components	2,548.4	3,963.0	5,344.0	5,728.5	5,297.6	7,018.6	9,703.4	9,179.0	11,492.7	16,780.7	21,292.4
385	Transport Equipment	1,342.8	1,548.0	2,043.5	2,223.8	2,075.5	1,865.8	1,956.7	1,790.0	1,794.2	1,967.7	2,543.7
386	Instrumentation Equipment, Photographic & Optical Goods	237.6	276.6	382.8	290.6	284.3	268.7	299.6	325.5	364.0	437.6	540.4
390	Other Manufacturing Industries	228.9	337.5	455.6	505.2	408.0	430.3	488.5	433.0	506.8	733.0	889.1
	Total Manufacturing excluding Rubber Processing	19,666.7	25,133.7	31,657.9	36,787.1	36,467.4	37,221.5	41,077.9	38,495.1	37,258.7	45,942.5	55,204.5
	Rubber Processing	801.3	1,170.2	1,052.5	772.6	494.2	428.7	402.4	160.0	126.8	155.8	226.6
	Total Manufacturing including Rubber Processing	20,468.0	26,303.9	32,710.4	37,559.7	36,961.6	37,650.2	41,480.2	38,655.1	37,385.5	46,098.3	55,431.1
	Granite Quarrying	24.3	27.1	95.3	134.3	179.5	238.1	223.8	162.7	117.4	97.9	93.0
	TOTAL	20,492.3	26,331.0	32,805.8	37,694.0	37,141.1	37,888.3	41,704.1	38,817.8	37,502.9	46,196.2	55,524.1

Note : See note to Table 6.3.

Source : Economic Development Board
with effect from April 1987

6.5 CENSUS VALUE ADDED OF MANUFACTURING ESTABLISHMENTS BY INDUSTRY, 1978-1988

Million Dollars

Industrial Code	Industry	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
311/2	Food	206.8	235.2	261.6	355.6	326.0	353.9	380.0	396.3	408.1	454.1	494.8
313	Beverage	81.4	91.9	109.0	140.0	140.8	147.9	152.1	166.9	190.4	205.7	237.0
314	Tobacco Products	41.0	42.8	52.6	68.2	91.0	89.4	79.4	77.7	78.4	87.0	136.9
321	Textiles & Textile Manufactures	115.3	137.0	157.6	134.9	105.9	93.6	82.7	62.4	77.7	101.2	108.9
322	Wearing Apparel except Footwear	206.5	230.2	266.4	308.3	326.0	333.0	364.5	345.7	362.3	464.8	516.7
323	Leather & Leather Products	13.3	13.2	13.4	13.6	14.0	12.7	13.6	11.4	10.6	12.1	14.4
324	Footwear	12.6	16.8	19.2	19.0	17.0	18.1	19.2	12.1	12.0	13.0	16.3
331	Sawn Timber & Other Wood Products except Furniture	180.6	220.9	180.7	175.5	136.4	138.7	115.9	94.7	82.3	80.1	89.7
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	43.4	59.3	84.3	102.4	102.3	110.8	130.8	134.3	130.6	133.1	146.0
341	Paper & Paper Products	54.3	73.2	94.5	103.6	122.8	146.2	163.7	179.4	188.2	235.1	277.4
342	Printing & Publishing	190.8	217.1	277.9	341.8	380.0	459.3	530.7	518.2	536.3	606.2	681.0
351	Industrial Chemicals & Gases	65.3	85.8	109.4	119.3	140.4	142.2	256.6	304.2	503.8	821.8	1,194.5
352	Paints, Pharmaceuticals & Other Chemical Products	226.0	224.6	304.2	340.7	360.8	495.9	644.0	587.8	764.5	891.7	875.6
353/4	Petroleum Refineries & Petroleum Products	787.0	916.0	1,470.4	1,707.2	1,617.7	1,382.6	955.6	873.7	779.9	728.2	743.5
355	Processing of Jelutong & Gum Damar	1.8	2.7	2.9	3.7	3.1	3.8	3.8	3.6	3.7	3.6	3.8
356	Rubber Products except Footwear & Toys	28.2	38.1	39.2	34.2	35.6	36.1	40.3	34.8	37.0	45.2	46.1
357	Plastic Products	97.0	134.2	173.8	184.6	181.1	195.4	228.0	225.3	227.2	290.1	399.8
361/2	Pottery, China, Earthenware & Glass Products	25.1	27.3	24.6	36.8	27.5	33.9	35.0	10.9	6.1	5.8	5.7
363	Structural Clay Products	9.4	13.1	18.8	20.9	21.3	29.5	36.6	25.0	19.0	21.4	23.0
364	Cement	36.5	47.0	48.8	78.5	88.5	105.4	46.1	34.1	34.5	27.8	27.9

6.5 CENSUS VALUE ADDED OF MANUFACTURING ESTABLISHMENTS BY INDUSTRY, 1978-1988 (continued)

Million Dollars

Industrial Code	Industry	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
365	Structural Cement & Concrete Products	28.3	31.2	53.7	78.1	118.2	192.1	235.0	213.6	150.7	110.4	103.4
369	Non-metallic Mineral Products	40.3	46.0	53.1	62.1	57.4	56.4	45.9	35.5	39.5	51.3	62.0
371	Iron & Steel	92.0	111.9	131.9	138.4	136.1	123.3	121.8	106.2	119.2	139.9	156.1
372	Non-ferrous Metals	13.5	19.0	21.8	25.3	25.4	33.0	44.0	38.0	40.0	54.5	62.4
381	Fabricated Metal Products except Machinery & Equipment	258.2	325.5	416.3	537.8	657.2	692.0	753.1	656.2	694.6	813.2	1,007.5
382	Machinery except Electrical & Electronic	414.7	526.7	744.8	1,140.9	1,012.4	870.2	888.9	813.8	754.3	764.9	902.1
383	Electrical Machinery, Apparatus, Appliances & Supplies	245.5	287.2	356.8	388.6	387.7	445.3	522.9	489.3	480.5	567.6	681.7
384	Electronic Products & Components	820.2	1,200.4	1,668.8	1,625.7	1,484.4	1,911.5	2,917.5	2,894.3	3,781.0	5,156.2	6,547.9
385	Transport Equipment	636.3	802.4	1,060.2	1,181.3	1,006.0	929.1	1,009.5	1,033.7	1,007.7	1,074.3	1,365.4
386	Instrumentation Equipment, Photographic & Optical Goods	123.6	130.0	172.4	110.4	119.0	120.2	163.6	195.5	222.2	255.3	320.0
390	Other Manufacturing Industries	68.2	106.5	132.5	143.0	113.6	120.8	125.3	127.7	157.8	217.5	250.4
	Total Manufacturing excluding Rubber Processing	5,162.9	6,412.9	8,521.9	9,720.5	9,355.9	9,822.1	11,106.3	10,702.3	11,900.0	14,433.0	17,497.8
	Rubber Processing	36.7	87.7	51.5	37.0	27.5	33.5	16.2	7.3	8.0	9.9	14.4
	Total Manufacturing including Rubber Processing	5,199.6	6,500.6	8,573.4	9,757.5	9,383.4	9,855.6	11,122.4	10,709.6	11,908.0	14,442.9	17,512.2
	Granite Quarrying	20.4	23.3	79.4	109.4	122.3	156.9	146.4	103.2	70.3	58.8	55.9
	TOTAL	5,220.0	6,523.9	8,652.8	9,866.9	9,505.8	10,012.4	11,268.9	10,812.8	11,978.3	14,501.8	17,568.1

Note : See note to Table 6.3.

Source : Economic Development Board
with effect from April 1987

6.6 WORKERS IN MANUFACTURING BY INDUSTRY, 1978-1988

Number

Industrial Code	Industry	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
311/2	Food	9,636	10,181	10,053	10,075	10,208	10,309	10,281	9,686	9,622	10,181	10,672
313	Beverage	2,596	2,739	2,650	2,744	2,594	2,494	2,398	2,273	2,264	2,258	2,367
314	Tobacco Products	1,263	1,239	1,277	976	882	865	809	753	752	709	564
321	Textiles & Textile Manufactures	9,792	10,087	9,710	7,906	6,360	4,616	3,957	2,744	2,662	2,918	2,956
322	Wearing Apparel except Footwear	28,983	29,274	27,188	27,870	28,608	27,234	25,710	24,782	24,842	27,718	29,081
323	Leather & Leather Products	1,351	1,284	1,244	1,186	1,152	971	950	646	577	623	761
324	Footwear	1,546	1,633	1,524	1,428	1,408	1,248	1,225	865	922	921	990
331	Sawn Timber & Other Wood Products except Furniture	10,056	11,418	10,376	8,291	7,188	5,950	4,947	4,120	3,274	2,971	3,214
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	4,697	5,678	6,145	6,561	6,707	6,856	7,476	7,079	7,374	7,457	7,991
341	Paper & Paper Products	3,801	4,035	4,294	4,495	4,450	3,786	3,593	3,363	3,232	3,496	3,796
342	Printing & Publishing	11,105	11,514	12,101	12,487	13,452	13,808	14,213	13,217	13,145	13,122	14,249
351	Industrial Chemicals & Gases	1,688	1,906	2,138	2,058	2,265	2,278	3,216	3,144	3,054	3,126	3,230
352	Paints, Pharmaceuticals & Other Chemical Products	3,800	3,822	4,300	4,291	4,511	4,570	4,602	4,624	4,344	4,493	4,532
353/4	Petroleum Refineries & Petroleum Products	3,082	3,212	3,342	3,511	3,784	3,755	3,605	3,494	3,367	3,245	3,103
355	Processing of Jelutong & Gum Damar	135	148	145	157	160	173	145	126	143	139	120
356	Rubber Products except Footwear & Toys	1,562	1,828	1,941	1,359	1,287	1,283	1,307	1,055	1,015	1,171	1,318
357	Plastic Products	7,770	8,374	9,225	9,121	8,889	8,560	8,563	8,471	7,836	9,687	11,264
361/2	Pottery, China, Earthenware & Glass Products	824	893	955	1,133	1,054	993	1,010	347	233	144	134
363	Structural Clay Products	477	482	474	461	688	679	641	549	436	383	369
364	Cement	551	538	461	474	538	579	552	547	424	408	393

6.6 WORKERS IN MANUFACTURING BY INDUSTRY, 1978-1988 (continued)

Number

Industrial Code	Industry	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
365	Structural Cement & Concrete Products	1,284	1,298	1,458	1,730	2,135	3,697	4,559	4,367	4,367	2,777	2,266
369	Non-metallic Mineral Products	1,427	1,205	1,315	1,261	1,254	1,600	1,425	1,389	1,376	1,470	1,811
371	Iron & Steel	1,518	1,802	1,878	1,920	1,720	1,647	1,613	1,510	1,349	1,329	1,397
372	Non-ferrous Metals	620	489	459	449	656	643	726	686	661	897	951
381	Fabricated Metal Products except Machinery & Equipment	14,619	16,062	17,669	19,481	21,554	21,156	20,752	19,453	18,307	20,568	24,334
382	Machinery except Electrical & Electronic	17,344	18,910	20,274	23,963	23,802	22,433	21,406	19,693	17,730	19,148	22,003
383	Electrical Machinery, Apparatus, Appliances & Supplies	15,206	14,728	15,933	16,141	14,405	15,341	15,778	15,983	14,843	16,942	21,096
384	Electronic Products & Components	47,455	63,201	71,727	69,358	60,760	65,954	73,271	66,646	70,863	87,676	114,479
385	Transport Equipment	26,312	26,039	27,420	28,491	30,749	27,043	24,794	21,768	16,930	17,294	18,159
386	Instrumentation Equipment, Photographic & Optical Goods	8,214	9,256	10,456	5,419	5,767	5,197	5,359	5,071	5,197	6,090	7,330
390	Other Manufacturing Industries	5,010	6,059	7,118	6,878	6,463	5,388	5,508	5,059	5,541	6,871	7,435
	Total Manufacturing excluding Rubber Processing	243,724	269,334	285,250	281,675	275,450	271,106	274,391	253,510	246,682	276,232	322,365
	Rubber Processing	2,092	2,044	1,977	1,826	1,303	980	689	516	425	216	230
	Total Manufacturing including Rubber Processing	245,816	271,378	287,227	283,501	276,753	272,086	275,080	254,026	247,107	276,448	322,595
	Granite Quarrying	651	439	938	1,008	1,050	1,142	1,145	776	625	506	524
	TOTAL	246,467	271,917	288,165	284,509	277,803	273,228	276,225	254,802	247,732	276,954	323,119

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, 1978-1988

Million Dollars

Industrial Code	Industry	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
311/2	Food	65.8	79.1	87.8	103.4	115.2	129.7	148.3	156.8	147.3	152.0	167.3
313	Beverage	26.5	29.9	34.6	40.0	35.3	36.5	40.6	44.1	40.7	39.6	42.3
314	Tobacco Products	11.6	13.2	15.3	15.6	17.3	19.2	21.1	20.8	18.8	17.9	18.8
321	Textiles & Textile Manufactures	54.6	63.0	71.7	68.8	60.5	49.9	47.1	34.6	32.7	39.0	44.2
322	Wearing Apparel except Footwear	118.0	136.3	150.7	179.3	203.4	216.1	236.9	227.3	222.9	255.6	275.8
323	Leather & Leather Products	6.1	6.8	7.4	8.0	8.5	8.2	8.7	6.9	6.0	6.4	8.6
324	Footwear	6.8	7.9	9.7	10.1	10.7	10.3	10.9	7.0	6.6	6.8	7.7
331	Sawn Timber & Other Wood Products except Furniture	67.5	81.8	80.1	77.4	69.0	64.8	56.4	48.2	37.5	36.9	42.1
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	24.4	34.0	44.4	54.8	58.3	63.7	73.5	74.3	74.9	76.9	83.4
341	Paper & Paper Products	21.3	27.0	34.7	44.2	51.4	51.5	52.0	53.2	52.7	62.0	69.7
342	Printing & Publishing	86.6	97.5	118.6	140.5	171.9	248.2	234.7	236.2	237.0	244.4	284.2
351	Industrial Chemicals & Gases	17.8	22.3	28.9	33.4	41.1	43.2	85.7	93.9	86.4	89.1	97.2
352	Paints, Pharmaceuticals & Other Chemical Products	37.7	43.2	53.4	62.4	76.4	90.5	99.4	107.4	102.0	108.9	119.0
353/4	Petroleum Refineries & Petroleum Products	73.5	87.1	99.7	114.7	138.6	148.0	151.4	154.6	148.8	148.4	155.5
355	Processing of Jelutong & Gum Damar	1.0	1.2	1.3	1.5	1.6	1.9	1.9	1.9	1.7	1.5	1.4
356	Rubber Products except Footwear & Toys	11.8	15.6	17.2	13.3	14.7	17.0	19.6	17.3	16.0	19.9	23.4
357	Plastic Products	39.0	48.5	63.9	71.8	79.9	86.5	98.5	103.0	99.9	119.0	144.5
361/2	Pottery, China, Earthenware & Glass Products	8.5	9.9	12.4	13.5	14.4	16.3	17.8	5.9	3.1	1.9	1.9
363	Structural Clay Products	4.1	4.7	5.2	6.0	9.7	11.2	11.7	9.3	6.5	5.6	5.4
364	Cement	5.8	6.5	7.0	8.9	10.5	12.3	12.4	12.2	9.2	8.4	8.9

6.7 REMUNERATION OF EMPLOYEES IN MANUFACTURING BY INDUSTRY, 1978-1988 (continued)

Million Dollars

Industrial Code	Industry	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
365	Structural Cement & Concrete Products	9.6	11.1	15.6	21.8	30.4	57.2	72.6	74.9	69.3	40.5	35.5
369	Non-metallic Mineral Products	11.7	12.4	14.6	18.9	19.5	24.3	20.5	21.4	20.9	21.6	27.9
371	Iron & Steel	17.7	22.4	27.4	30.2	32.5	36.3	38.8	38.8	33.7	33.1	36.1
372	Non-ferrous Metals	5.6	5.9	7.9	7.4	10.1	10.7	12.9	12.2	13.3	16.4	19.2
381	Fabricated Metal Products except Machinery & Equipment	116.9	126.7	157.3	202.0	259.1	276.5	303.1	307.4	280.5	320.0	387.1
382	Machinery except Electrical & Electronic	152.6	186.5	228.7	323.8	346.5	365.3	393.5	399.3	327.4	346.7	423.9
383	Electrical Machinery, Apparatus, Appliances & Supplies	99.1	110.1	133.6	154.5	172.2	193.4	224.7	240.5	205.3	219.2	280.3
384	Electronic Products & Components	264.3	393.3	510.7	557.0	616.7	752.1	943.1	970.2	1,004.4	1,230.0	1,685.4
385	Transport Equipment	282.7	304.3	363.5	433.2	486.9	467.7	476.7	443.2	332.8	346.2	414.5
386	Instrumentation Equipment, Photographic & Optical Goods	48.3	59.9	76.0	47.3	53.9	59.9	68.7	68.9	66.7	81.5	108.4
390	Other Manufacturing Industries	27.5	37.7	47.6	54.3	54.6	55.1	61.7	62.2	64.0	77.4	87.2
	Total Manufacturing excluding Rubber Processing	1,724.2	2,085.9	2,526.9	2,938.1	3,270.6	3,623.7	4,045.0	4,053.7	3,769.1	4,172.9	5,106.7
	Rubber Processing	13.8	16.6	18.5	18.3	16.1	15.0	9.3	7.9	4.7	4.5	4.9
	Total Manufacturing including Rubber Processing	1,738.0	2,102.5	2,545.4	2,956.4	3,286.8	3,638.7	4,054.3	4,061.6	3,773.8	4,177.4	5,111.7
	Granite Quarrying	5.9	5.5	10.8	15.3	15.7	17.7	19.3	14.3	10.8	9.4	9.8
	TOTAL	1,743.9	2,108.0	2,556.2	2,971.7	3,302.5	3,656.4	4,073.6	4,075.9	3,784.6	4,186.9	5,121.4

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, 1978-1987

Commodity	Unit	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Animal Feed	Thousand Tonnes	300	306	334	255	238	210	223	167	112	117
Soft Drinks	Million Litres	175	170	175	185	180	197	155	152	188	231
Refined Cooking Oil	Tonnes	50,780	43,829	59,685	84,228	117,545	95,921	84,334	96,008	94,294	92,854
Sawn timber	Thousand Cubic Metres	364	371	282	188	136	114	99	70	76	67
Plywood	Million Square Metres	143	165	123	112	93	90	62	51	35	31
Newspapers	Million Copies	197	216	225	228	255	277	267	259	257	253
Paints	Kilolitres	19,972	20,258	22,310	26,698	26,502	29,907	36,564	35,381	35,053	38,003
Soap & Detergents	Tonnes	21,613	23,532	29,141	29,568	27,882	30,723	25,623	22,753	26,756	38,332
Aviation Kerosene ¹	Thousand Tonnes	4,708	5,033	3,709	4,003	4,099	4,290	4,929	3,878	4,451	5,063
Diesel Oil ¹	Thousand Tonnes	6,780	6,566	4,619	6,490	7,074	6,569	6,044	5,999	5,680	3,999
Fuel Oil ¹	Thousand Tonnes	10,154	10,340	6,457	7,560	8,259	8,155	9,294	8,025	8,423	7,925
Bricks	Thousand Pieces	72,628	91,191	92,122	93,327	129,862	176,960	184,861	162,895	100,756	103,859
Cement	Thousand Tonnes	1,628	1,808	1,952	2,253	2,695	3,153	2,511	1,897	1,875	1,550
Ready-mixed Concrete	Thousand Cubic Metres	430	660	758	1,376	2,116	2,955	3,565	3,463	3,438	3,168
Radios	Thousand	11,717	16,748	17,070	16,028	13,461	15,165	18,246	12,824	16,583	19,868
Television Receivers	Thousand Sets	725	1,390	1,889	2,231	1,502	1,312	1,375	1,691	1,686	2,047

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, 1978-1987

Million Dollars

Commodity	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Animal Feed	148.4	160.6	201.8	167.6	148.6	128.3	134.0	94.7	58.7	50.3
Soft Drinks	112.1	120.1	126.4	172.2	164.8	171.1	157.5	159.2	201.5	236.9
Refined Cooking Oil	94.3	80.4	120.4	175.5	161.0	139.9	189.2	184.5	156.2	153.6
Fabrics	158.6	190.7	195.9	200.1	156.8	107.9	108.6	88.4	123.8	111.2
Sawn timber	95.9	125.3	103.1	59.8	40.1	36.5	33.2	26.9	23.6	22.2
Plywood	296.8	466.6	411.9	361.6	270.5	266.8	205.1	168.6	125.4	117.9
Newspapers	35.6	39.0	45.8	55.7	68.1	67.5	68.9	68.9	76.9	79.0
Paints	65.5	72.5	87.8	119.4	117.2	119.1	137.8	135.1	136.9	142.2
Pharmaceutical Products	201.0	179.5	258.4	269.6	283.1	370.0	504.3	475.7	691.1	811.2
Soap & Detergents	32.1	37.9	62.2	66.4	56.4	60.4	53.6	50.0	48.7	63.7
Aviation Kerosene ¹	1,406.4	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
Diesel Oil ¹	1,784.5	2,518.6	2,990.0	4,202.1	4,295.6	3,510.4	2,937.2	2,918.6	1,565.7	1,214.4
Fuel Oil ¹	1,899.4	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
Bricks	12.1	19.5	28.5	32.5	40.5	55.9	66.0	46.0	29.0	33.5
Cement	179.9	225.2	277.1	347.2	405.7	441.4	280.0	164.4	151.8	120.8
Ready-mixed Concrete	37.4	58.7	87.9	186.1	281.3	361.3	359.9	305.2	257.9	215.5
Oil Rigs & Oilfield Equipment	344.1	556.5	806.7	1,437.5	1,341.1	938.3	706.9	609.1	490.5	467.2
Electronic Products excluding Television Receivers & Radios	1,935.3	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
Radios	337.4	651.6	882.6	877.4	732.4	776.6	991.7	837.6	905.9	1,423.8
Television Receivers	234.6	399.5	512.7	667.8	495.7	470.3	469.1	566.0	578.4	860.4
Shipbuilding & Repairing	1,002.3	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
Marine Engines & Parts	64.9	84.5	109.6	137.2	151.4	110.5	106.1	89.0	99.0	100.9
Photographic Equipment & Optical Goods	90.1	107.9	125.3	52.7	56.2	59.9	68.7	75.2	75.6	87.1

1 See note to Table 6.8.

Source : Economic Development Board
with effect from April 1987

6.10 QUARTERLY INDEX OF INDUSTRIAL PRODUCTION, 1987 AND 1988
(1986 = 100)

Industrial Code	Major Industry Group	1987				1988			
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
	Total Manufacturing excluding Rubber Processing	102.0	114.1	122.1	131.5	123.9	139.1	144.8	148.1
311/2	Food	96.5	100.9	105.2	102.9	106.7	112.2	107.8	113.5
313	Beverage	110.0	123.6	128.6	115.6	129.3	138.0	142.9	124.6
314	Cigarettes & Other Tobacco Products	93.3	63.9	95.2	87.5	113.1	152.1	143.3	203.3
321	Textiles & Textile Manufactures	93.7	111.6	127.7	125.5	104.8	123.8	136.8	126.1
322	Wearing Apparel except Footwear	108.0	114.8	113.1	135.3	112.5	123.2	123.0	140.5
323	Leather & Leather Products	111.1	93.2	112.0	133.6	90.6	89.7	122.9	116.4
324	Footwear	115.2	110.6	122.6	126.0	152.2	127.7	147.1	138.8
331	Sawn Timber & Other Wood Products except Furniture	131.8	102.5	106.9	86.8	93.1	122.2	96.7	115.7
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	94.3	94.4	95.9	103.6	99.8	98.6	101.8	112.0
341	Paper & Paper Products	115.6	135.2	142.6	138.7	135.4	151.1	152.0	146.6
342	Printing & Publishing	92.3	103.5	118.3	123.7	104.4	112.2	130.4	137.1
351	Industrial Chemicals & Gases	113.4	119.1	120.8	122.1	122.4	130.5	131.6	123.1
352	Paints & Pharmaceutical & Other Chemical Products	73.3	100.5	107.5	122.6	88.6	127.4	102.3	94.1
353/4	Petroleum Refineries & Petroleum Products	84.4	82.3	103.4	101.6	85.3	97.7	103.3	103.6
356	Rubber Products except Footwear & Toys	103.1	103.0	104.8	108.0	100.8	101.2	100.2	102.4
357	Plastic Products	104.0	123.9	133.4	134.4	132.0	138.4	151.0	147.7
361/2	Pottery, China, Earthenware & Glass Products	111.3	93.5	127.3	94.5	99.0	126.3	117.5	123.3

6.10 QUARTERLY INDEX OF INDUSTRIAL PRODUCTION, 1987 AND 1988 (continued)
(1986 = 100)

Industrial Code	Major Industry Group	1987				1988			
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr*
363	Bricks, Tiles & Other Structural Clay Products	93.9	111.0	122.9	125.7	113.3	121.8	104.1	115.7
364	Cement	83.7	84.3	83.4	87.2	76.6	83.9	93.6	99.7
365	Structural Cement & Concrete Products	75.6	83.4	78.9	71.7	65.2	69.4	70.7	78.8
369	Non-metallic Mineral Products	113.0	115.6	123.5	214.8	164.6	143.7	138.0	165.5
371	Iron & Steel	90.4	101.6	116.5	108.0	102.0	105.3	117.9	115.1
372	Non-ferrous Metals	110.0	99.9	95.0	127.4	119.0	109.7	110.1	99.8
381	Fabricated Metal Products except Machinery & Equipment	100.4	107.3	120.4	129.0	120.1	134.8	140.1	141.7
382	Machinery except Electrical & Electronic	99.6	117.1	114.7	134.5	124.2	126.3	149.4	160.4
383	Electrical Machinery, Apparatus, Appliances & Supplies	110.2	124.4	145.0	148.9	135.6	156.1	163.8	177.9
384	Electronic Products & Components	111.3	129.8	133.1	152.2	150.2	171.5	174.1	178.7
385	Transport Equipment	103.7	107.0	112.7	108.7	110.9	121.2	144.1	147.1
386	Instrumentation Equipment, Photographic & Optical Goods	101.5	103.6	126.6	133.6	138.2	142.3	148.1	145.1
390	Other Manufacturing Industries	101.5	135.7	204.4	213.1	170.3	186.4	205.2	153.6

Source : Economic Development Board
with effect from 2nd Qtr 1987

6.11 ANNUAL INDEX OF INDUSTRIAL PRODUCTION, 1983-1988
(1986 = 100)

Industrial Code	Major Industry Group	1983	1984	1985	1986	1987	1988*
	Total Manufacturing excluding Rubber Processing	91.2	99.4	92.1	100.0	117.4	139.0
311/2	Food	92.2	91.6	91.2	100.0	101.4	110.0
313	Beverage	103.9	92.7	95.1	100.0	119.5	133.7
314	Cigarettes & Other Tobacco Products	110.2	105.9	128.5	100.0	85.0	153.0
321	Textiles & Textile Manufactures	166.2	139.4	99.5	100.0	114.6	122.9
322	Wearing Apparel except Footwear	81.3	91.5	87.0	100.0	117.8	124.8
323	Leather & Leather Products	97.9	138.7	98.2	100.0	112.5	104.9
324	Footwear	142.6	142.5	91.2	100.0	118.6	141.5
331	Sawn Timber & Other Wood Products except Furniture	199.6	163.9	131.1	100.0	107.0	106.9
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	95.0	98.5	90.9	100.0	97.0	103.0
341	Paper & Paper Products	110.5	99.8	90.3	100.0	133.0	146.3
342	Printing & Publishing	83.6	94.1	95.5	100.0	109.4	121.0
351	Industrial Chemicals & Gases	35.9	72.6	98.2	100.0	118.8	126.9
352	Paints & Pharmaceutical & Other Chemical Products	82.8	84.4	95.0	100.0	101.0	103.1
353/4	Petroleum Refineries & Petroleum Products	94.9	101.9	91.9	100.0	92.9	97.5
356	Rubber Products except Footwear & Toys	103.6	116.2	111.2	100.0	104.7	101.1
357	Plastic Products	132.0	135.4	111.0	100.0	123.9	142.3
361/2	Pottery, China, Earthenware & Glass Products	525.1	549.5	167.1	100.0	106.7	116.5

6.11 ANNUAL INDEX OF INDUSTRIAL PRODUCTION, 1983-1988 (continued)
(1986 = 100)

Industrial Code	Major Industry Group	1983	1984	1985	1986	1987	1988*
363	Bricks, Tiles & Other Structural Clay Products	198.4	198.0	142.7	100.0	113.4	113.7
364	Cement	173.4	156.6	113.5	100.0	84.7	88.5
365	Structural Cement & Concrete Products	93.8	110.0	103.0	100.0	77.4	71.0
369	Non-metallic Mineral Products	355.7	134.8	104.5	100.0	141.7	152.9
371	Iron & Steel	102.8	99.3	98.6	100.0	104.1	110.1
372	Non-ferrous Metals	99.5	123.7	111.7	100.0	108.1	109.7
381	Fabricated Metal Products except Machinery & Equipment	83.0	96.8	90.7	100.0	114.3	134.2
382	Machinery except Electrical & Electronic	142.1	136.1	114.9	100.0	116.5	140.1
383	Electrical Machinery, Apparatus, Appliances & Supplies	89.3	104.7	91.1	100.0	132.1	158.4
384	Electronic Products & Components	68.9	83.1	78.4	100.0	131.6	168.6
385	Transport Equipment	101.9	109.4	90.9	100.0	108.0	130.9
386	Instrumentation Equipment, Photographic & Optical Goods	79.9	93.1	96.6	100.0	116.3	143.4
390	Other Manufacturing Industries	75.2	91.6	83.8	100.0	163.7	178.9

Source : Economic Development Board
with effect from April 1987

6.12 NET INVESTMENT COMMITMENTS IN MANUFACTURING BY INDUSTRY, 1978-1988

(Excluding Petrochemicals)

Million Dollars

Industry	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Food & Beverages	8.5	40.8	99.4	90.7	101.5	185.9	154.4	55.5	83.3	156.6	168.4
Textiles	11.0	14.2	32.6	18.1	8.9	7.3	0.3	3.2	5.6	3.0	10.6
Wearing Apparel	2.7	1.4	8.0	8.3	10.4	2.8	6.7	0.7	-	6.8	0.9
Leather & Rubber	7.3	1.5	15.8	3.6	5.3	22.9	8.1	4.9	0.4	8.5	5.6
Wood Products	9.8	33.2	30.8	16.8	8.8	8.0	15.8	21.3	11.4	14.7	-
Paper Products & Printing	-	8.0	27.2	161.8	109.2	22.1	111.3	32.3	36.2	25.1	72.0
Industrial Chemicals	13.9	5.4	76.8	63.8	16.9	52.1	8.1	34.5	37.7	32.9	106.2
Plastic Products	13.4	34.0	66.8	41.9	47.5	27.7	33.4	19.4	42.6	115.9	53.5
Other Chemical Products	14.5	31.0	101.1	95.7	47.4	106.2	30.7	18.2	144.9	11.0	44.2
Petroleum	330.0	224.5	200.0	162.0	387.7	367.1	358.8	190.0	116.0	122.4	-
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	2.5	-	-	16.3	53.5	36.8	18.1	2.9	8.3	5.2	15.3
Fabricated Metal Products	13.8	56.2	75.6	96.1	121.0	167.4	71.5	39.5	82.0	104.3	109.9
Machinery except Electrical	45.5	151.9	121.3	300.9	162.2	84.5	225.9	125.0	205.6	93.5	180.5
Electrical Machinery & Appliances	292.4	253.9	392.2	406.8	321.8	351.6	655.8	376.1	522.0	838.4	943.6
Transport Equipment	-	18.5	58.4	273.3	162.5	92.7	72.5	88.3	64.0	61.7	110.4
Precision Equipment	33.9	31.5	29.0	24.3	66.6	65.8	17.0	2.0	53.8	116.6	44.0
Other Products	13.2	30.5	10.3	0.2	5.5	-	1.6	3.5	-	11.8	0.7
Servicing/Engineering	-	-	2.5	26.8	27.8	38.9	13.8	14.7	19.9	8.4	15.9
TOTAL	812.4	943.6	1,413.5	1,863.0	1,705.0	1,775.8	1,828.4	1,120.4	1,443.0	1,743.0	2,015.5
Foreign	765.7	823.4	1,189.1	1,221.4	1,163.0	1,269.8	1,334.7	888.0	1,189.6	1,448.0	1,667.7
Local	46.7	120.2	224.4	641.6	542.0	506.0	493.7	232.4	253.4	295.0	347.8

Note: Net investment commitments refer to gross commitments less projects withdrawn or uncertain as at 31 December 1988.

Source : Economic Development Board

6.13 NET INVESTMENT COMMITMENTS IN MANUFACTURING BY COUNTRY OF ORIGIN, 1978-1988
(Excluding Petrochemicals)

Million Dollars

Country	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	812.4	943.6	1,413.5	1,863.0	1,705.0	1,775.8	1,828.4	1,120.4	1,443.0	1,743.0	2,015.5
Local	46.7	120.2	224.4	641.6	542.0	506.0	493.7	232.4	253.4	295.0	347.8
Foreign	765.7	823.4	1,189.1	1,221.4	1,163.0	1,269.8	1,334.7	888.0	1,189.6	1,448.0	1,667.7
United States	146.9	259.9	505.7	674.4	533.3	571.7	805.9	427.3	443.4	543.5	594.7
Japan	158.4	319.4	135.3	212.1	73.7	166.6	166.6	244.1	492.8	601.1	693.2
Europe	418.6	161.3	360.4	228.7	421.9	394.1	325.1	201.0	218.8	285.8	358.1
European Community (EC)	408.1	132.3	269.9	166.3	386.9	338.8	318.9	180.9	204.8	241.0	345.1
United Kingdom	156.2	91.9	129.5	83.1	283.1	207.5	186.6	69.4	93.4	42.4	56.6
Netherlands	200.0	4.5	1.0	1.2	62.8	99.2	70.3	75.2	57.1	70.9	82.9
Germany	38.3	25.3	69.2	11.5	31.4	12.8	14.3	20.1	16.7	90.3	46.7
France	11.1	4.9	18.8	1.7	1.3	6.8	-	15.1	27.8	15.2	18.6
Italy	1.1	2.5	45.4	62.5	2.4	5.1	44.8	-	5.1	22.0	135.4
Other EC Countries	1.4	3.2	6.0	6.3	5.9	7.4	2.9	1.1	4.7	0.2	4.9
Switzerland	8.4	12.1	35.8	17.0	22.0	15.4	2.7	4.7	7.7	27.8	10.1
Other European Countries	2.1	16.9	1.1	7.2	1.8	27.4	3.3	0.5	0.9	8.3	2.9
Others	41.8	82.8	187.7	106.2	134.1	137.4	37.1	15.6	34.6	17.6	21.7

Source : Economic Development Board

6.14 PRINCIPAL STATISTICS OF PIONEER MANUFACTURING ESTABLISHMENTS, 1977-1987

End of Year	Establishments	Workers	Input	Output	Census Value Added	Employees' Remuneration	Paid-up Capital	Gross Fixed Assets	Direct Exports
	Number		Million Dollars						
1977	289	91,313	9,220	11,686	2,421	617	1,465	3,768	8,386
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

Source : Economic Development Board
with effect from April 1987

**6.15 PRINCIPAL STATISTICS OF PIONEER MANUFACTURING ESTABLISHMENTS BY INDUSTRY GROUP,
DECEMBER 1987**

Industry Group	Estab- lishments	Workers	Input	Output	Census Value Added	Employees' Remunera- tion	Paid-up Capital	Gross Fixed Assets	Direct Exports
	Number		Million Dollars						
Total	430	131,791	19,432	29,426	9,647	2,124	4,506	14,413	23,027
Food & Beverages	10	1,199	189	279	89	24	142	185	143
Textiles & Garments	13	4,610	142	244	83	47	49	113	220
Wood Products	3	128	16	20	4	2	23	13	15
Paper & Paper Products	5	789	113	245	131	20	14	160	198
Leather & Rubber Products	5	655	24	54	29	12	20	52	43
Basic Industrial Chemicals	24	1,847	1,064	1,792	725	60	1,219	1,893	1,119
Other Chemical Products except Plastics	20	2,055	402	1,178	776	57	211	499	1,054
Petroleum & Petroleum Products	5	2,493	4,794	5,419	625	123	266	4,121	3,464
Non-metallic Mineral Products	9	1,059	65	119	52	17	44	104	63
Basic Metal Industries	10	1,394	296	464	160	37	79	294	151
Metal Products & Mechanical Engineering	139	22,232	1,205	2,334	1,086	369	570	1,887	1,690
Electrical & Electronic Products	144	85,267	10,726	16,089	5,190	1,210	1,684	4,415	13,892
Transport Equipment	18	4,811	181	787	553	107	138	494	734
Plastic Products	19	2,021	91	182	76	26	30	146	42
Miscellaneous	6	1,231	124	219	69	13	16	37	198

Source : Economic Development Board
with effect from April 1987

CHART 9

QUARTERLY INDEX OF INDUSTRIAL PRODUCTION, 1981-1988
(1986=100)

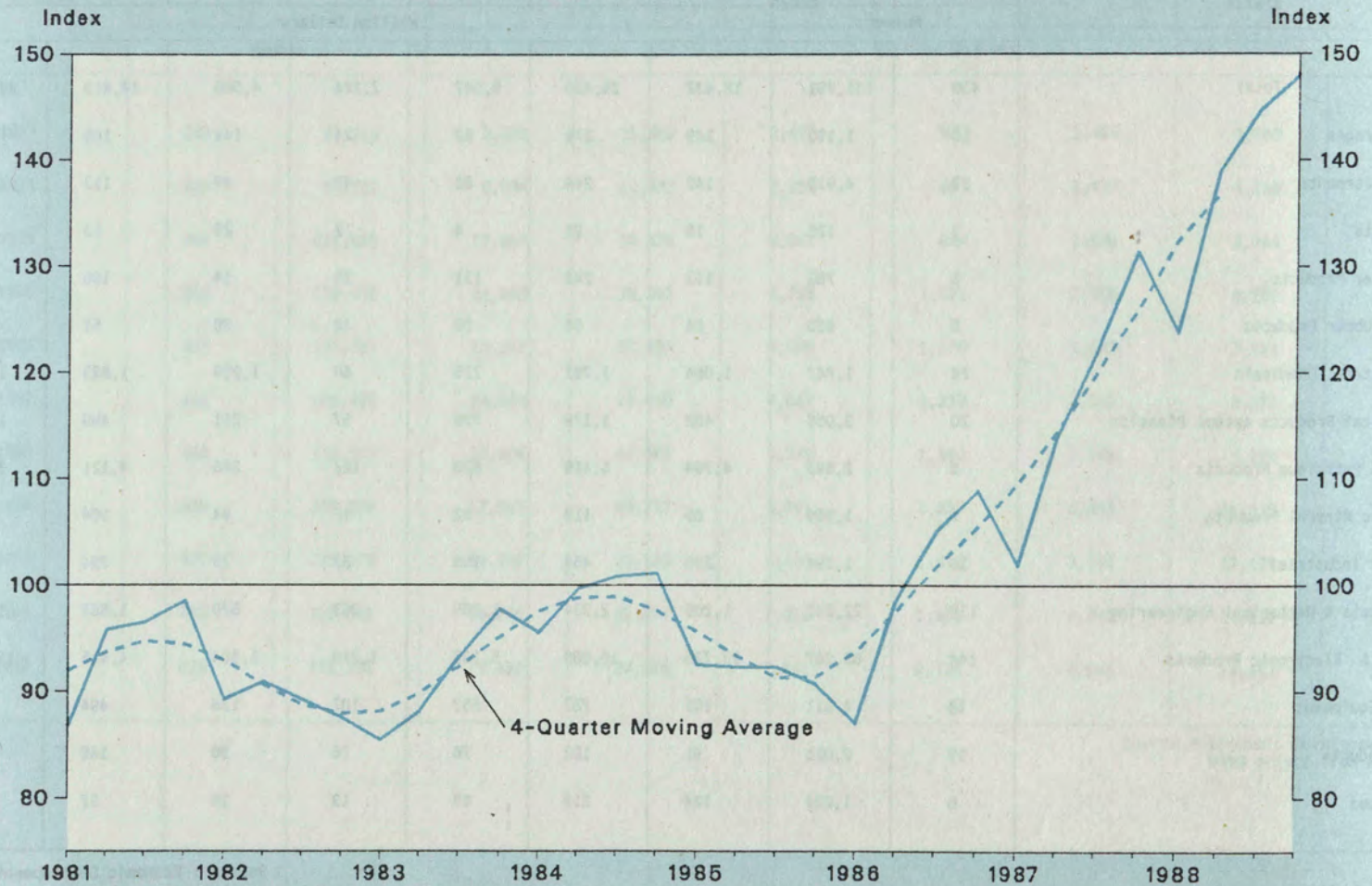
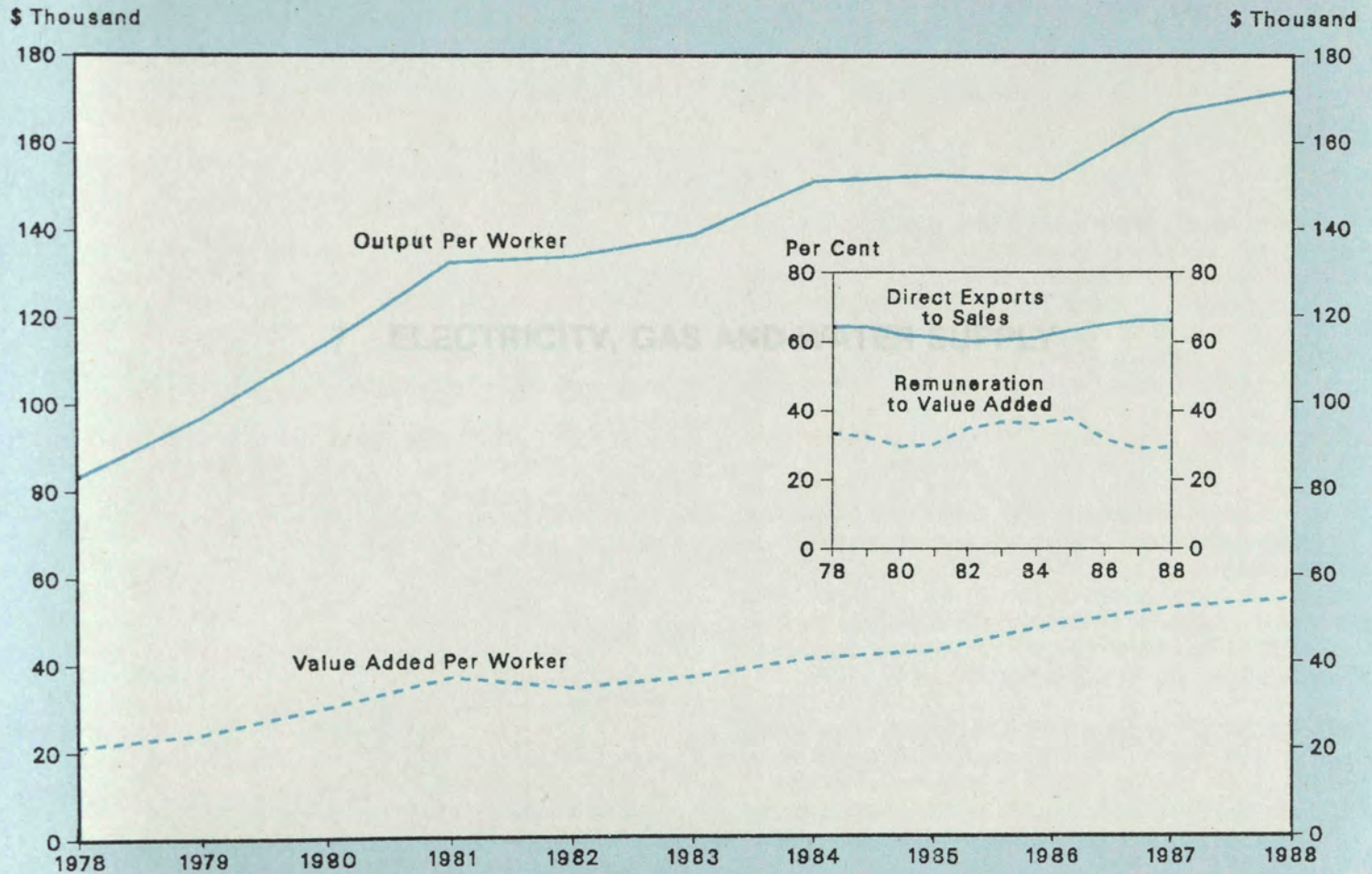


CHART 10

SELECTED RATIOS IN MANUFACTURING, 1978-1988



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 1905. Today electricity is generated by power stations at Pulau Senang, Sentek, Jurong and Pasir Panjang. The Pulau Senang Power Station began operation in early 1987. In 1987, the total installed capacity remained at 8,370 megawatts (MW). Some electricity is also generated by the various incineration plants of the Ministry of the Environment (EMV). In 1988 PUB purchased 1.5 per cent of the total electricity production from this plant.

A network of 250 kilovolt (kV), 66kV, 33kV, 22kV, 11kV and 0.4kV cables, interfaced 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 more than 22,000 kilometres of cables, 82,000 megawatt-hours of transformer capacity and 4,300 substations and 19 substation blocks.

The total number of electricity accounts increased to more than 750,000 in 1988, of which 88 per cent were domestic accounts. However, domestic consumption constituted only 18 per cent of the total consumption. For

per capita consumption of electricity in Singapore was 4,025 kilowatt hours (kWh) in 1987 to 4,452 kWh in 1988. The total electricity consumption increased from 6,534 kWh in 1987 to 7,014 kWh in 1988.

Gas

Gas, introduced by the Singapore Gas Company, Ltd. (SGC) in 1957, has a production capacity of 0.75 million cubic metres per day. Gas introduced during the peak period is stored in the Gas Storage and Distribution Plant. There is a total of 1,125 kilometres of gas mains in use.

There are 4,025 kilowatt-hour (kWh) per annum of gas used in domestic while the rest are used for industrial, commercial, transport, etc. In 1988, the total gas consumption was 1,125 million cubic metres. In 1988, the gas consumption was 1,125 million cubic metres, of which 84.5 per cent was used for domestic and non-domestic consumption respectively.

Water

Water supply in Singapore is mainly from 14 reservoirs. The total capacity of the reservoirs is 1,125 million cubic metres. The water is pumped to the reservoirs in London. After purification and treatment, the water is distributed to the public. The total number of water supply accounts in Singapore is 750,000. The total number of water supply accounts in Singapore is 750,000. The total number of water supply accounts in Singapore is 750,000.

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 1988, 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 1988 PUB purchased 1.5 per cent of the total electricity production from this plant.

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 more than 23,000 kilometres of mains cables, 22,000 megavolt-amperes of transformer capacity and 4,900 substations and 19 substation kiosks.

The total number of electricity accounts increased to more than 778,000 in 1988, of which 86 per cent were domestic accounts. However, domestic consumption constituted only 16 per cent of the total consumption. Per

capita consumption of electricity in Singapore rose from 4,063 kilowatt-hours (kWh) in 1987 to 4,433 kWh in 1988 while per capita domestic consumption increased from 662 kWh in 1987 to 704 kWh in 1988.

Gas

Gas is produced by six 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 1,738 kilometres of gas mains in use.

There are 205,930 gas consumers. Of these, 97 per cent are domestic while the rest are non-domestic (mainly commercial) consumers. Of the 668.7 millions units of gas sold in 1988, 45.7 per cent and 54.3 per cent went to domestic and non-domestic consumers respectively.

Water

Water supplies are drawn mainly from 14 impounding reservoirs in Singapore and 4 in Johore. Water is also tapped from rivers in Johore. After purification and treatment at the 9 treatment works, water is pumped into 13 service reservoirs for distribution to customers. The total number of customer accounts in Singapore and Johore was 748,036 in 1988 and the total consumption based on sales was 344 million cubic

metres, an increase of 2.8 per cent over 1987. This includes consumption of 47.1 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".

Year		1987		1988		1989		1990		1991		1992		1993		1994		1995		1996		1997		1998		1999		2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027		2028		2029		2030		2031		2032		2033		2034		2035		2036		2037		2038		2039		2040		2041		2042		2043		2044		2045		2046		2047		2048		2049		2050		2051		2052		2053		2054		2055		2056		2057		2058		2059		2060		2061		2062		2063		2064		2065		2066		2067		2068		2069		2070		2071		2072		2073		2074		2075		2076		2077		2078		2079		2080		2081		2082		2083		2084		2085		2086		2087		2088		2089		2090		2091		2092		2093		2094		2095		2096		2097		2098		2099		2100		2101		2102		2103		2104		2105		2106		2107		2108		2109		2110		2111		2112		2113		2114		2115		2116		2117		2118		2119		2120		2121		2122		2123		2124		2125		2126		2127		2128		2129		2130		2131		2132		2133		2134		2135		2136		2137		2138		2139		2140		2141		2142		2143		2144		2145		2146		2147		2148		2149		2150		2151		2152		2153		2154		2155		2156		2157		2158		2159		2160		2161		2162		2163		2164		2165		2166		2167		2168		2169		2170		2171		2172		2173		2174		2175		2176		2177		2178		2179		2180		2181		2182		2183		2184		2185		2186		2187		2188		2189		2190		2191		2192		2193		2194		2195		2196		2197		2198		2199		2200		2201		2202		2203		2204		2205		2206		2207		2208		2209		2210		2211		2212		2213		2214		2215		2216		2217		2218		2219		2220		2221		2222		2223		2224		2225		2226		2227		2228		2229		2230		2231		2232		2233		2234		2235		2236		2237		2238		2239		2240		2241		2242		2243		2244		2245		2246		2247		2248		2249		2250		2251		2252		2253		2254		2255		2256		2257		2258		2259		2260		2261		2262		2263		2264		2265		2266		2267		2268		2269		2270		2271		2272		2273		2274		2275		2276		2277		2278		2279		2280		2281		2282		2283		2284		2285		2286		2287		2288		2289		2290		2291		2292		2293		2294		2295		2296		2297		2298		2299		2300		2301		2302		2303		2304		2305		2306		2307		2308		2309		2310		2311		2312		2313		2314		2315		2316		2317		2318		2319		2320		2321		2322		2323		2324		2325		2326		2327		2328		2329		2330		2331		2332		2333		2334		2335		2336		2337		2338		2339		2340		2341		2342		2343		2344		2345		2346		2347		2348		2349		2350		2351		2352		2353		2354		2355		2356		2357		2358		2359		2360		2361		2362		2363		2364		2365		2366		2367		2368		2369		2370		2371		2372		2373		2374		2375		2376		2377		2378		2379		2380		2381		2382		2383		2384		2385		2386		2387		2388		2389		2390		2391		2392		2393		2394		2395		2396		2397		2398		2399		2400		2401		2402		2403		2404		2405		2406		2407		2408		2409		2410		2411		2412		2413		2414		2415		2416		2417		2418		2419		2420		2421		2422		2423		2424		2425		2426		2427		2428		2429		2430		2431		2432		2433		2434		2435		2436		2437		2438		2439		2440		2441		2442		2443		2444		2445		2446		2447		2448		2449		2450		2451		2452		2453		2454		2455		2456		2457		2458		2459		2460		2461		2462		2463		2464		2465		2466		2467		2468		2469		2470		2471		2472		2473		2474		2475		2476		2477		2478		2479		2480		2481		2482		2483		2484		2485		2486		2487		2488		2489		2490		2491		2492		2493		2494		2495		2496		2497		2498		2499		2500		2501		2502		2503		2504		2505		2506		2507		2508		2509		2510		2511		2512		2513		2514		2515		2516		2517		2518		2519		2520		2521		2522		2523		2524		2525		2526		2527		2528		2529		2530		2531		2532		2533		2534		2535		2536		2537		2538		2539		2540		2541		2542		2543		2544		2545		2546		2547		2548		2549		2550		2551		2552		2553		2554		2555		2556		2557		2558		2559		2560		2561		2562		2563		2564		2565		2566		2567		2568		2569		2570		2571		2572		2573		2574		2575		2576		2577		2578		2579		2580		2581		2582		2583		2584		2585		2586		2587		2588		2589		2590		2591		2592		2593		2594		2595		2596		2597		2598		2599		2600		2601		2602		2603		2604		2605		2606		2607		2608		2609		2610		2611		2612		2613		2614		2615		2616		2617		2618		2619		2620		2621		2622		2623		2624		2625		2626		2627		2628		2629		2630		2631		2632		2633		2634		2635		2636		2637		2638		2639		2640		2641		2642		2643		2644		2645		2646		2647		2648		2649		2650		2651		2652		2653		2654		2655		2656		2657		2658		2659		2660		2661		2662		2663		2664		2665		2666		2667		2668		2669		2670		2671		2672		2673		2674		2675		2676		2677		2678		2679		2680		2681		2682		2683		2684		2685		2686		2687		2688		2689		2690		2691		2692		2693		2694		2695		2696		2697		2698		2699		2700		2701		2702		2703		2704		2705		2706		2707		2708		2709		2710		2711		2712		2713		2714		2715		2716		2717		2718		2719		2720		2721		2722		2723		2724		2725		2726		2727		2728		2729		2730		2731		2732		2733		2734		2735		2736		2737		2738		2739		2740		2741		2742		2743		2744		2745		2746		2747		2748		2749		2750		2751		2752		2753		2754		2755		2756		2757		2758		2759		2760		2761		2762		2763		2764		2765		2766		2767		2768		2769		2770		2771		2772		2773		2774		2775		2776		2777		2778		2779		2780		2781		2782		2783		2784		2785		2786		2787		2788		2789		2790		2791		2792		2793		2794		2795		2796		2797		2798		2799		2800		2801		2802		2803		2804		2805		2806		2807		2808		2809		2810		2811		2812		2813		2814		2815		2816		2817		2818		28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7.1 ELECTRICITY PRODUCTION AND SALES, 1978-1988

Year	Production	Sales					Customer Accounts (End of Period)
		Total	Domestic	Manufacturing	Other Industries	Export	
	Million Kilowatt Hours						Number
1978	5,898.0	5,213.7	887.5	2,606.8	1,671.0	48.4	498,994
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

Source : Public Utilities Board

7.2 GAS PRODUCTION AND SALES, 1978-1988

Year	Production	Sales				Customer Accounts (End of Period)
		Total	Domestic		Non-domestic	
			Public Housing	Others		
	Million Kilowatt Hours					Number
1978	539.0	490.2	213.2	73.1	203.9	166,011
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

Source : Public Utilities Board

7.3 WATER PRODUCTION AND SALES, 1978-1988

Year	Production	Sales						Customer Accounts (End of Period)
		Total	Domestic	Shipping	Commerce & Industry	Government & Statutory Boards	Johore	
	Thousand Cubic Metres							Number
1978	247,256.1	223,891.2	101,640.6	2,812.9	63,215.9	23,975.7	32,246.1	470,073
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

Source : Public Utilities Board

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.

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, 1978-1988

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)
1978	1,166	6,398.6	1,827.9	202	4,491.3	1,014.2	964	1,907.3	813.7
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

Source : Ministry of National Development

8.2 COMMENCEMENT OF BUILDING CONSTRUCTION, 1978-1988

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)
1978	1,519	5,218.5	1,694.6	477	3,438.7	914.6	1,042	1,779.8	780.0
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

Source : Ministry of National Development

8.3 CONSTRUCTION PROJECTS COMPLETED, 1978-1988

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)
1978	1,322	5,938.5	1,315.2	370	4,612.1	809.9	952	1,326.4	505.3
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

Source : Ministry of National Development

8.4 PLANNING APPROVALS BY TYPE OF DEVELOPMENT, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
All Types Residential Commercial Industrial Institutional Others	Number										
	1,166	1,385	1,560	1,712	1,555	1,769	1,780	1,361	1,481	1,830	2,000
	358	495	679	777	706	983	986	646	773	1,076	1,009
	159	182	205	145	158	137	137	116	139	135	200
	463	496	426	531	457	378	384	290	273	381	455
	180	199	228	230	197	237	254	295	275	206	297
	6	13	22	29	37	34	19	14	21	32	39
	Gross Floor Area (Thousand Square Metres)										
	6,398.6	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
	4,326.3	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
	430.3	695.7	1,403.7	1,533.5	3,282.9	698.7	787.3	409.7	279.7	195.9	270.0
	1,281.7	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
	354.4	256.8	552.0	577.7	416.0	828.4	785.1	530.3	1,132.4	454.8	428.4
	5.9	6.3	26.8	47.6	239.3	215.5	46.6	6.5	47.0	111.7	292.1
All Types Residential Commercial Industrial Institutional Others	Estimated Cost of Construction (Million Dollars)										
	1,827.9	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
	915.5	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
	236.7	479.7	1,327.2	1,473.4	4,317.0	981.8	722.0	579.7	219.1	165.2	327.9
	464.9	562.0	1,411.7	1,969.5	1,355.0	880.6	627.9	526.1	361.5	545.7	489.2
	208.7	182.1	483.2	603.7	592.9	834.3	919.3	631.7	1,087.4	355.8	610.6
	2.1	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

8.5 PLANNING APPROVALS BY TYPE OF DEVELOPMENT IN THE PUBLIC SECTOR, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
All Types	Number										
	202	259	290	251	226	251	233	272	262	207	292
Residential	29	42	33	25	37	40	30	22	38	27	23
Commercial	16	37	59	25	19	14	13	9	17	17	16
Industrial	16	22	18	18	14	9	3	1	-	5	8
Institutional	137	158	174	178	155	186	186	234	199	148	232
Others	4	-	6	5	1	2	1	6	8	10	13
All Types	Gross Floor Area (Thousand Square Metres)										
	4,491.3	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
Residential	3,915.3	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
Commercial	16.8	121.3	283.7	516.7	599.9	39.2	245.6	131.2	178.3	76.5	30.2
Industrial	293.9	765.6	676.2	928.8	745.0	281.8	123.5	308.5	-	33.5	141.0
Institutional	264.6	209.8	482.0	498.2	368.8	759.5	706.1	433.4	1,054.1	313.7	380.0
Others	0.7	-	21.9	0.3	0.1	66.8	1.9	2.3	43.8	10.8	148.5
All Types	Estimated Cost of Construction (Million Dollars)										
	1,014.2	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
Residential	759.8	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
Commercial	7.1	64.1	147.4	319.2	964.6	44.8	156.9	82.6	126.2	42.0	56.0
Industrial	82.6	218.3	317.5	493.1	391.9	195.8	48.5	106.0	-	20.5	105.1
Institutional	162.8	151.1	418.2	513.1	534.7	753.3	833.8	524.0	1,021.6	273.7	557.5
Others	1.9	-	5.5	3.5	0.3	52.0	2.0	1.0	18.2	7.4	201.9

Source : Ministry of National Development

8.6 PLANNING APPROVALS BY TYPE OF DEVELOPMENT IN THE PRIVATE SECTOR, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
	Number										
All Types	964	1,126	1,270	1,461	1,329	1,518	1,547	1,089	1,219	1,623	1,708
Residential	329	453	646	752	669	943	956	624	735	1,049	986
Commercial	143	145	146	120	139	123	124	107	122	118	184
Industrial	447	474	408	513	443	369	381	289	273	376	447
Institutional	43	41	54	52	42	51	68	61	76	58	65
Others	2	13	16	24	36	32	18	8	13	22	26
	Gross Floor Area (Thousand Square Metres)										
All Types	1,907.3	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
Residential	411.0	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	413.5	574.4	1,120.0	1,016.7	2,683.0	659.5	541.7	278.5	101.4	119.4	239.8
Industrial	987.8	921.1	1,150.7	1,575.3	1,327.2	899.0	757.5	625.4	558.6	834.7	552.8
Institutional	89.8	47.0	70.0	79.5	47.2	68.9	79.0	96.9	78.3	141.1	48.4
Others	5.2	6.3	4.9	47.3	239.2	148.7	44.7	4.2	3.2	100.9	143.6
	Estimated Cost of Construction (Million Dollars)										
All Types	813.7	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
Residential	155.7	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	229.6	415.6	1,179.8	1,154.2	3,352.4	937.0	565.1	497.1	92.9	123.2	271.9
Industrial	382.3	343.7	1,094.2	1,476.4	963.1	684.8	579.4	420.1	361.5	525.2	384.1
Institutional	45.9	31.0	65.0	90.6	58.2	81.0	85.5	107.7	65.8	82.1	53.1
Others	0.2	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

8.7 COMMENCEMENT OF BUILDING CONSTRUCTION BY TYPE OF DEVELOPMENT, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
All Types	Number										
	1,519	1,635	1,582	1,970	1,840	2,042	1,996	1,606	1,596	1,936	2,247
Residential	472	561	577	777	746	999	904	693	661	891	1,054
Commercial	236	247	270	209	226	210	274	228	294	331	291
Industrial	500	479	459	559	485	400	405	286	296	367	535
Institutional	292	329	254	395	353	405	387	382	319	324	328
Others	19	19	22	30	30	28	26	17	26	23	39
All Types	Gross Floor Area (Thousand Square Metres)										
	5,218.5	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
Residential	2,953.1	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
Commercial	633.8	610.9	1,122.7	1,024.5	2,321.9	940.0	657.0	350.1	141.4	120.6	196.5
Industrial	1,118.0	1,322.3	1,636.3	1,748.3	1,884.7	943.7	664.2	277.4	282.5	644.5	800.4
Institutional	502.6	494.3	278.8	602.8	667.0	1,059.0	722.6	493.1	640.6	560.7	408.6
Others	11.0	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)										
	1,694.6	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
Residential	597.8	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
Commercial	378.7	406.6	1,130.4	1,257.7	3,510.0	1,208.8	860.2	384.4	150.7	164.4	241.3
Industrial	353.2	471.5	849.9	1,558.2	1,176.9	783.4	517.0	216.1	228.7	494.4	600.3
Institutional	359.3	388.2	268.2	717.2	1,001.9	1,537.6	1,165.7	512.9	541.3	645.0	534.5
Others	5.6	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

8.8 COMMENCEMENT OF BUILDING CONSTRUCTION BY TYPE OF DEVELOPMENT IN THE PUBLIC SECTOR, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
All Types	Number										
	477	630	535	586	593	654	562	542	507	453	435
	Residential	148	214	162	151	205	206	179	158	183	139
	Commercial	40	73	104	43	41	52	49	34	37	29
	Industrial	39	39	40	45	43	32	17	14	29	24
	Institutional	231	294	220	340	300	359	315	326	244	252
	Others	19	10	9	7	4	5	2	10	14	9
	Gross Floor Area (Thousand Square Metres)										
	3,438.7	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
	Residential	2,582.3	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
Commercial	111.6	253.2	428.8	300.1	392.6	289.2	219.5	129.8	75.1	1.8	21.0
Industrial	338.6	582.0	631.9	525.4	821.2	120.4	43.9	-	-	35.5	167.5
Institutional	395.2	464.9	245.9	541.1	613.0	1,005.2	650.2	443.7	595.5	408.2	355.6
Others	11.0	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)										
	914.6	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
	Residential	458.6	767.4	993.4	1,647.5	2,626.2	3,024.1	2,002.8	1,639.3	1,471.5	886.7
	Commercial	61.6	134.0	309.0	231.0	573.9	218.5	217.5	73.2	81.3	13.5
	Industrial	88.6	176.2	308.0	282.3	408.1	102.2	30.2	7.0	18.3	30.2
	Institutional	300.2	366.0	238.5	653.9	932.6	1,463.5	1,079.2	460.9	495.3	557.4
	Others	5.6	2.4	1.6	4.4	4.9	52.0	166.4	25.2	51.3	13.4
	Residential	458.6	767.4	993.4	1,647.5	2,626.2	3,024.1	2,002.8	1,639.3	1,471.5	886.7
	Commercial	61.6	134.0	309.0	231.0	573.9	218.5	217.5	73.2	81.3	13.5
	Industrial	88.6	176.2	308.0	282.3	408.1	102.2	30.2	7.0	18.3	30.2
	Institutional	300.2	366.0	238.5	653.9	932.6	1,463.5	1,079.2	460.9	495.3	557.4
	Others	5.6	2.4	1.6	4.4	4.9	52.0	166.4	25.2	51.3	13.4

Source : Ministry of National Development

**8.9 COMMENCEMENT OF BUILDING CONSTRUCTION BY TYPE OF DEVELOPMENT
IN THE PRIVATE SECTOR, 1978-1988**

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
	Number										
All Types	1,042	1,005	1,047	1,384	1,247	1,388	1,434	1,064	1,089	1,483	1,812
Residential	324	347	415	626	541	793	725	535	478	752	937
Commercial	196	174	166	166	185	158	225	194	257	302	255
Industrial	461	440	419	514	442	368	388	272	267	343	505
Institutional	61	35	34	55	53	46	72	56	75	72	88
Others	-	9	13	23	26	23	24	7	12	14	27
	Gross Floor Area (Thousand Square Metres)										
All Types	1,779.8	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
Residential	370.8	739.8	939.7	1,409.0	1,646.1	1,826.2	741.2	507.1	260.8	782.2	1,120.1
Commercial	522.2	357.7	693.9	724.4	1,929.3	650.8	437.5	220.3	66.3	118.8	175.5
Industrial	779.4	740.3	1,004.4	1,222.9	1,063.5	823.3	620.3	277.4	282.5	609.0	632.9
Institutional	107.4	29.4	32.9	61.7	54.0	53.8	72.4	49.4	45.1	152.5	53.0
Others	-	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	780.0	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
Residential	139.2	313.5	600.2	1,300.5	1,811.7	1,948.6	727.2	462.2	208.4	656.2	886.7
Commercial	317.1	272.6	821.4	1,026.7	2,936.1	990.3	642.7	311.2	69.4	150.9	201.1
Industrial	264.6	295.3	541.9	1,275.9	768.8	681.2	486.8	209.1	210.4	464.2	478.5
Institutional	59.1	22.2	29.7	63.3	69.3	74.1	86.5	52.0	46.0	87.6	67.0
Others	-	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

8.10 CONSTRUCTION PROJECTS COMPLETED BY TYPE OF DEVELOPMENT, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	
All Types	Number											
	1,322	1,366	1,287	1,477	1,621	1,641	2,006	1,925	1,661	1,822	1,761	
	Residential	507	420	424	500	578	700	877	933	752	814	822
	Commercial	172	221	227	211	193	182	289	218	279	342	250
	Industrial	410	417	376	435	489	396	437	361	257	329	389
	Institutional	217	284	243	311	346	344	388	395	355	311	280
	Others	16	24	17	20	15	19	15	18	18	26	20
All Types	Gross Floor Area (Thousand Square Metres)											
	5,938.5	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	
	Residential	4,650.3	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	323.5	446.7	452.0	973.2	928.5	850.8	1,506.3	728.2	1,448.6	821.4	359.9
	Industrial	802.5	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	141.3	356.7	280.0	688.7	532.4	505.3	673.2	460.9	852.7	744.0	441.8
	Others	20.9	104.0	19.0	3.7	11.7	65.0	61.7	28.4	15.5	141.3	80.6
All Types	Cost of Construction (Million Dollars)											
	1,315.2	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	
	Residential	788.9	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	149.5	214.3	230.5	420.3	718.1	801.6	1,856.5	892.3	2,256.9	1,103.0	403.4
	Industrial	287.9	240.1	381.4	506.9	1,465.4	1,144.8	1,035.9	699.5	333.9	264.5	529.8
	Institutional	85.9	307.3	204.3	638.3	713.5	689.1	902.4	526.5	1,003.8	762.4	453.9
	Others	3.0	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

8.11 PUBLIC SECTOR CONSTRUCTION PROJECTS COMPLETED BY TYPE OF DEVELOPMENT, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
	Number										
All Types	370	496	499	499	499	518	675	614	518	486	421
Residential	143	147	161	136	130	137	235	227	171	189	166
Commercial	27	65	76	58	37	40	60	28	31	32	29
Industrial	18	31	38	28	34	47	39	29	19	22	22
Institutional	169	242	216	268	296	293	336	328	291	228	200
Others	13	11	8	9	2	1	5	2	6	15	4
	Gross Floor Area (Thousand Square Metres)										
All Types	4,612.1	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
Residential	3,996.6	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
Commercial	172.5	99.2	149.9	369.9	266.2	259.5	464.5	272.6	274.0	212.5	121.0
Industrial	309.7	267.2	465.1	236.7	507.4	623.8	583.1	349.0	44.0	-	59.7
Institutional	121.0	306.2	222.3	586.9	484.4	446.1	604.6	411.5	812.9	671.8	395.5
Others	12.3	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)										
All Types	809.9	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
Residential	596.9	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
Commercial	54.5	36.1	47.1	54.9	146.4	211.7	434.6	235.8	307.3	203.1	66.0
Industrial	83.9	67.6	125.8	77.7	194.9	300.5	272.9	165.5	32.4	9.7	38.4
Institutional	73.8	275.3	167.8	570.2	661.9	608.4	802.7	472.5	962.1	675.1	403.7
Others	0.8	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

8.12 PRIVATE SECTOR CONSTRUCTION PROJECTS COMPLETED BY TYPE OF DEVELOPMENT, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
All Types	Number										
	952	870	788	978	1,122	1,123	1,331	1,311	1,143	1,336	1,340
	Residential	364	273	263	364	448	563	642	706	581	625
	Commercial	145	156	151	153	156	142	229	190	248	310
	Industrial	392	386	338	407	455	349	398	332	238	307
	Institutional	48	42	27	43	50	51	52	67	64	83
	Others	3	13	9	11	13	18	10	16	12	11
All Types	Gross Floor Area (Thousand Square Metres)										
	1,326.4	1,700.7	1,576.9	2,220.6	2,524.3	2,831.2	3,327.4	2,878.4	2,809.9	1,655.6	1,338.1
	Residential	653.7	632.1	559.7	695.4	556.2	1,193.5	1,257.1	1,709.9	1,151.2	611.7
	Commercial	151.0	347.5	302.1	603.3	662.3	591.3	1,041.8	455.6	1,174.6	608.9
	Industrial	492.8	569.5	640.7	816.7	1,249.0	925.5	948.0	635.9	429.2	360.7
	Institutional	20.3	50.5	57.7	101.8	48.0	59.2	68.6	49.4	39.8	72.2
	Others	8.6	101.1	16.7	3.4	8.8	61.7	11.9	27.6	15.1	2.1
All Types	Cost of Construction (Million Dollars)										
	505.3	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
	Residential	192.0	254.1	212.0	331.1	410.9	1,027.6	1,240.6	1,698.9	1,029.1	539.3
	Commercial	95.0	178.2	183.4	365.4	571.7	589.9	1,421.9	656.5	1,949.6	899.9
	Industrial	204.0	172.5	255.6	429.2	1,270.5	844.3	763.0	534.0	301.5	254.8
	Institutional	12.1	32.0	36.5	68.1	51.6	80.7	99.7	54.0	41.7	87.3
	Others	2.2	7.2	1.5	3.1	4.6	13.9	9.2	5.0	1.6	0.7

Source : Ministry of National Development

8.13 BUILDING PLAN APPROVALS BY TYPE OF DEVELOPMENT IN THE PRIVATE SECTOR, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
	Number										
All Types	1,099	1,067	1,244	1,444	1,306	1,533	1,669	1,322	1,207	1,457	1,894
Residential	345	364	523	668	595	825	862	652	556	687	985
Commercial	196	188	205	179	176	198	260	243	270	337	298
Industrial	495	474	458	521	456	422	444	350	296	346	497
Institutional	60	33	43	54	55	54	77	67	78	74	93
Others	3	8	15	22	24	34	26	10	7	13	21
	Gross Floor Area (Thousand Square Metres)										
All Types	1,900.6	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
Residential	415.8	551.6	942.6	1,244.2	1,159.3	2,083.1	1,132.7	880.0	483.6	535.4	988.3
Commercial	521.9	466.4	750.3	971.5	1,012.9	2,144.6	802.0	581.4	70.6	119.7	149.6
Industrial	854.2	806.6	1,038.4	1,174.2	1,073.5	1,015.9	680.5	422.4	260.5	396.7	635.5
Institutional	108.2	27.9	38.6	69.1	51.4	55.7	64.0	68.3	71.7	124.1	73.2
Others	0.5	9.8	7.6	27.8	109.3	239.3	143.0	6.6	2.7	2.8	54.3
	Estimated Cost of Construction (Million Dollars)										
All Types	791.7	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
Residential	145.0	237.2	569.4	1,109.6	1,179.5	2,186.4	1,195.4	762.5	441.6	434.6	801.7
Commercial	303.5	375.2	890.3	1,197.8	1,296.2	3,216.8	1,087.3	771.1	122.1	141.9	174.7
Industrial	283.2	322.4	556.4	1,229.1	767.2	890.0	505.8	345.3	194.3	286.6	578.1
Institutional	59.8	20.9	32.4	62.4	61.3	77.4	72.7	72.7	76.1	52.2	83.1
Others	0.2	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

**8.14 RESIDENTIAL UNITS IN THE PUBLIC SECTOR BY TYPE OF BUILDING
AND STAGE OF DEVELOPMENT, 1978-1988**

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Planning Approval Stage											
All Types	36,445	36,365	29,371	27,468	40,793	54,709	39,018	33,339	38,536	30,283	10,623
Detached	-	-	-	-	16	-	-	-	-	-	-
Terrace	-	-	-	-	12	-	-	-	1	-	-
Flats	36,423	36,362	29,307	27,468	40,755	54,709	38,922	33,319	37,705	29,982	10,623
Others	22	3	64	-	10	-	96	20	830	301	-
Building of Commencement Stage											
All Types	24,661	27,913	24,950	30,255	46,721	59,201	39,676	31,854	26,584	13,083	10,631
Detached	-	-	-	-	16	-	-	-	-	-	-
Terrace	-	-	-	-	12	-	-	-	-	-	-
Flats	24,641	27,909	24,950	30,255	46,683	59,105	39,676	31,834	26,584	13,083	10,631
Others	20	4	-	-	10	96	-	20	-	-	-
Building Completion Stage											
All Types	37,715	27,174	23,886	12,464	19,512	19,275	78,288	59,633	38,519	32,859	29,149
Detached	-	-	-	-	-	-	16	-	-	-	-
Terrace	-	-	-	-	-	-	12	-	-	-	-
Flats	37,290	26,707	23,872	12,401	19,510	19,275	78,244	59,633	38,403	32,859	28,319
Others	425	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

**8.15 RESIDENTIAL UNITS IN THE PRIVATE SECTOR BY TYPE OF BUILDING
AND STAGE OF DEVELOPMENT, 1978-1988**

Number

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Planning Approval Stage											
All Types	1,996	3,587	8,037	8,174	6,535	8,933	6,484	2,535	2,848	3,984	6,676
Detached	69	103	177	247	213	291	289	174	137	202	234
Semi-detached	106	250	297	232	275	566	912	192	290	457	396
Terrace	123	312	507	396	227	1,030	1,396	384	765	1,562	2,119
Flats	1,590	2,883	6,993	7,291	5,820	7,035	3,883	1,785	1,649	1,752	3,926
Others	108	39	63	8	-	11	4	-	7	11	1
Building Plan Approval Stage											
All Types	2,018	2,584	3,716	5,532	4,817	9,436	4,461	3,777	2,074	2,051	3,988
Detached	62	75	144	196	149	239	273	165	75	126	173
Semi-detached	143	215	329	208	166	418	477	528	235	336	382
Terrace	99	131	402	410	233	639	663	824	504	655	1,802
Flats	1,679	2,096	2,840	4,654	4,264	8,132	3,045	2,259	1,253	934	1,629
Others	35	67	1	64	5	8	3	1	7	-	2
Building of Commencement Stage											
All Types	1,864	3,517	3,968	6,270	7,829	7,465	2,929	2,107	991	3,246	4,720
Detached	59	65	109	195	149	223	211	107	53	108	217
Semi-detached	66	144	273	206	170	487	430	420	183	461	350
Terrace	109	126	351	395	270	836	504	544	422	1,225	1,654
Flats	1,598	3,133	3,203	5,410	7,239	5,906	1,781	1,035	326	1,451	2,498
Others	32	49	32	64	1	13	3	1	7	1	1
Building Completion Stage											
All Types	2,939	2,780	2,212	3,186	2,476	4,919	5,441	7,388	5,173	2,295	1,705
Detached	90	86	96	110	124	161	144	179	109	157	85
Semi-detached	276	225	214	328	229	357	290	377	385	275	345
Terrace	323	291	442	231	183	481	365	674	365	457	625
Flats	2,245	2,146	1,453	2,510	1,880	3,902	4,595	6,150	4,312	1,393	650
Others	5	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

8.16 PROPERTIES UNDER THE MANAGEMENT OF HOUSING AND DEVELOPMENT BOARD, 1978-1988

Number

End of Year	Residential								Shops ¹
	Total	1-room	2-room	3-room	4-room	5-room	Executive	HUDC	
1978	330,495	76,072	45,658	147,579	43,607	15,469	-	2,110	10,295
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

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.

8.17 RESIDENTIAL UNITS CONSTRUCTED AND SOLD BY HOUSING AND DEVELOPMENT BOARD, 1978-1988

Year	Flats Constructed ¹	Flats Sold Under 'Home Ownership Scheme' ¹	Percentage of Population Living in Public Flats (End of Period)
	Number		
1978	29,742	25,600	68
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

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.

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

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9 COMMERCE AND SERVICES

The first statistical inquiry on the Services Sector was conducted by the Department of Statistics for the reference year 1967 and that on the Commerce Sector for the reference year 1968. The next inquiries on these two sectors were for reference years 1972 and 1973 respectively. Since then they were conducted biennially until 1985 and subsequently on an annual basis.

Scope and Coverage

The Survey of Services covers all establishments including statutory boards and non-profit organisations engaged in transport, storage and communications, financing, insurance, real estate, business services and community, social and personal services as classified under Major Divisions 7, 8 and 9 of the "Singapore Standard Industrial Classification (SSIC)". Government ministries and departments, foreign missions, political parties, taxi and trishaw operators, independent artistes and domestic servants are, however, 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 respective years 1983 and 1984, where censuses were 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 impossible 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 organisation, 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. And for insurance companies, value added refers to the sum of operating surplus, remuneration, and imputed amount of commissions paid, interest payments and indirect taxes less interest and dividends received and net gains from foreign exchange, stocks and share transactions as well as gold trading.

Further information on the concepts and methodology and detailed statistics may be obtained from the "Report on the Survey of Services", and the "Report on the Survey of Wholesale Trade, Retail Trade, Restaurants and Hotels".

9.1 PRINCIPAL STATISTICS OF THE COMMERCE SECTOR BY INDUSTRY, 1979-1986

Year	Establishments	Employment	Remuneration	Turnover	Operating Expenditure ¹	Operating Surplus ¹	Value Added ¹	
	Number		Million Dollars					
	Total							
	1979	34,441	200,471	1,441	50,782	47,684	3,273	4,817
	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
	Wholesale Trade							
	1979	15,783	97,319	954	42,943	40,553	2,508	3,512
	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
	Retail Trade							
	1979	15,742	66,048	270	6,659	6,166	521	807
	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
	Restaurants and Hotels							
1979	2,916	37,104	217	1,181	965	245	498	
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	

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, 1979-1986

Year	Turnover	Operating Surplus ¹	Value Added ¹	Value Added ¹	Operating Surplus ¹	Remuneration	Remuneration
	Per Establishment			Per Person	to	to Operating	to
				Engaged	Turnover	Expenditure ¹	Value Added ¹
	Thousand Dollars				Per Cent		
Total							
1979	1,474	95	140	24	6.4	3.0	29.9
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
Wholesale Trade							
1979	2,721	159	223	36	5.8	2.4	27.2
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
Retail Trade							
1979	423	33	51	12	7.8	4.4	33.4
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
Restaurants & Hotels							
1979	405	84	171	13	20.7	22.4	43.5
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

¹ See note to Table 9.1

9.3 PRINCIPAL STATISTICS OF THE SERVICES SECTOR BY INDUSTRY, 1980-1986

Year	Establishments	Employment	Remuneration	Operating Receipts	Operating Expenditure ¹	Operating Surplus ¹	Value Added ¹
	Number		Million Dollars				
Transport, Storage and Communications							
1980	5,703	89,429	1,123	8,362	6,883	1,836	3,093
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
Financial and Insurance Services							
1980	2,330	28,117	542	19,346	16,521	2,892	2,128
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
Real Estate and Business Services							
1980	6,273	59,290	730	4,429	3,802	1,222	2,143
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
Community, Social and Personal Services							
1980	8,405	40,585	224	1,073	827	267	518
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
Non-profit Organisations							
1980	4,372	25,918	348	151	575	14	368
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

1 See note to Table 9.1.

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

9.4 SELECTED AVERAGES AND RATIOS IN THE SERVICES SECTOR, 1980-1986
(Excluding Non-Profit Organisations)

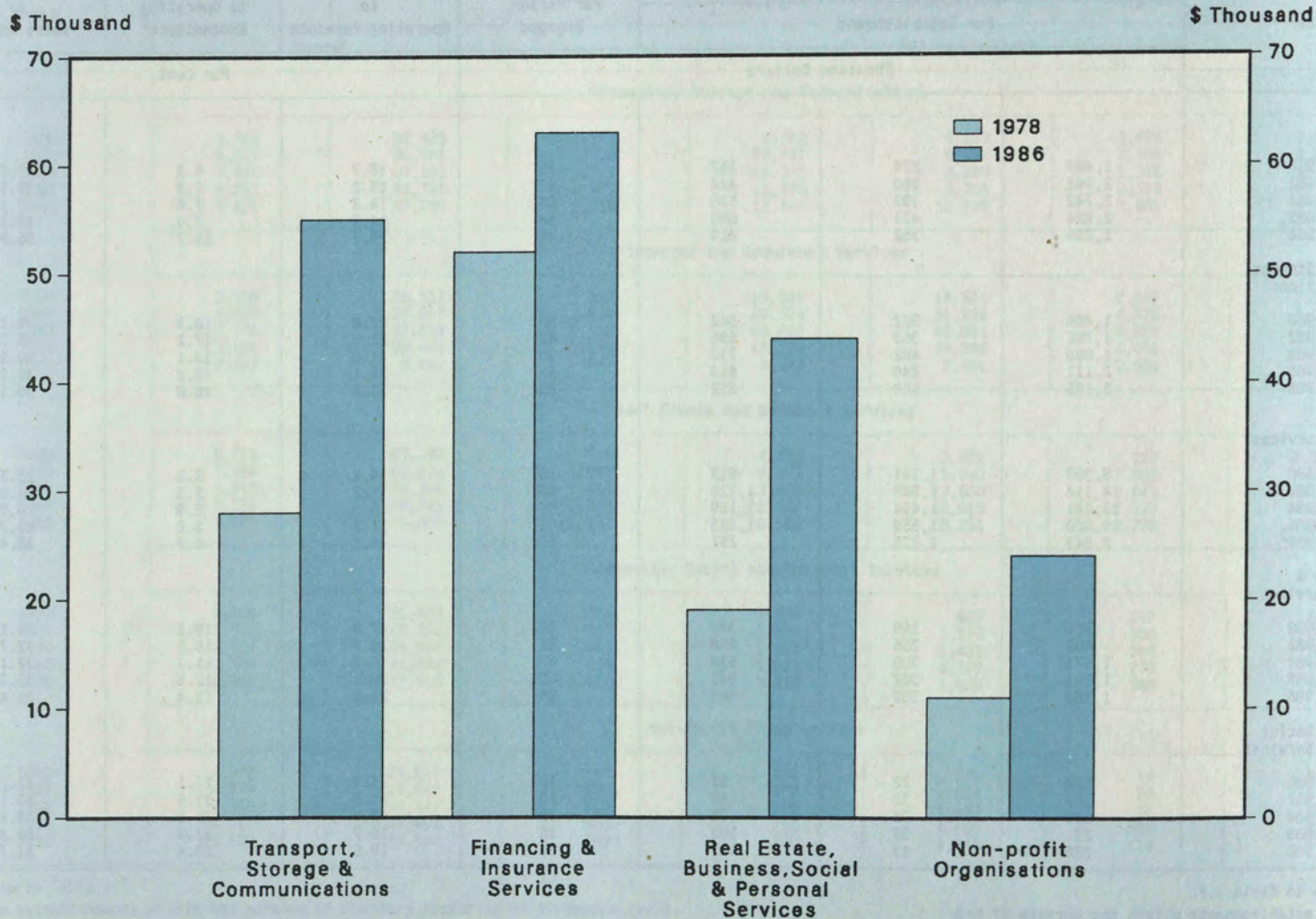
Year	Operating Receipts	Operating Surplus ¹	Value Added ¹	Value Added ¹ Per Person Engaged	Operating Surplus ¹ to Operating Receipts	Remuneration to Operating Expenditure ¹	Remuneration to Value Added ¹
	Per Establishment						
	Thousand Dollars				Per Cent		
Total							
1980	1,462	274	347	36	18.7	9.3	33.2
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
Transport, Storage & Communications							
1980	1,466	322	542	35	22.0	16.3	36.3
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
Financial & Insurance Services							
1980	8,303	1,241	913	76	14.9	3.3	25.5
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
Real Estate & Business Services							
1980	706	195	342	36	27.6	19.2	34.1
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
Community, Social & Personal Services							
1980	128	32	62	13	24.9	27.1	43.2
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

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 & 1986



10 EXTERNAL TRADE

Statistics on external trade are published by the Singapore External Trade Statistics Board (SETSB) in its annual External Trade Statistics Report. The report provides a comprehensive overview of Singapore's external trade performance, including details on imports and exports by commodity, country of origin/destination, and mode of transport. The report also includes information on trade agreements and policies.

From April 1987, Singapore's external trade statistics are compiled by the Trade Development Board (TDB) from import and export declarations submitted to the Customs and Excise Department. The TDB also collects data on trade in services and investment goods.

(i) Postal packages which are based on parcels registered by the Singapore External Trade Statistics Board (SETSB) and which are subject to the same procedures as other parcels. (ii) Goods which are imported or exported by air or sea, but which are not subject to the same procedures as other goods. (iii) Goods which are imported or exported by land, but which are not subject to the same procedures as other goods.

Statistics on external trade are published by the Singapore External Trade Statistics Board (SETSB) in its annual External Trade Statistics Report. The report provides a comprehensive overview of Singapore's external trade performance, including details on imports and exports by commodity, country of origin/destination, and mode of transport. The report also includes information on trade agreements and policies.

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 Department of Statistics.

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 new 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 1985, the trade classification adopted for documenting Singapore external trade is the revised 1985 Singapore Trade Classification and Customs Duties, which is based on Customs Co-operation Council Nomenclature (CCCN). However, for the publication of external trade statistics, a classification based on the Standard International Trade Classification (Revision 2) 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, 1978-1988

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
At Current Prices											
Total Trade	52,586.8	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
Exports	22,985.5	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
Oil	6,502.2	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
Non-oil	16,483.3	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
Domestic Exports	13,226.2	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
Oil	6,397.9	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
Non-oil	6,828.3	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
Re-exports	9,759.3	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
Imports	29,601.3	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
Oil	7,083.3	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
Non-oil	22,517.9	28,661.7	36,455.6	38,416.9	39,765.0	40,892.5	44,172.3	40,786.5	44,550.9	55,889.5	75,804.5
At 1985 Prices											
Total Trade	69,496.3	78,323.8	86,901.8	91,840.2	96,693.1	102,440.4	110,500.6	107,996.5	123,013.9	136,631.5	177,496.3
Exports	29,429.0	33,890.9	37,959.4	39,130.0	40,282.9	43,988.3	50,303.5	50,179.1	58,661.7	65,997.3	87,088.5
Oil	11,792.3	12,176.2	12,382.9	13,267.3	14,417.8	14,640.2	15,863.8	16,452.3	21,815.4	18,853.2	22,967.7
Non-oil	17,636.8	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	64,120.7
Domestic Exports	19,358.2	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	60,299.0
Oil	11,559.7	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
Non-oil	7,798.4	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	39,266.7
Re-exports	10,070.9	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	26,789.5
Imports	40,067.2	44,432.9	48,942.5	52,710.2	56,410.2	58,452.1	60,197.1	57,817.4	64,352.2	70,634.3	90,407.8
Oil	15,832.1	15,579.0	14,485.9	16,410.5	18,204.8	18,531.0	17,481.0	17,031.1	21,051.3	18,995.9	24,107.5
Non-oil	24,235.2	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	66,300.4

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 REGION AND SELECTED COUNTRY, 1978-1988

Million Dollars

Region/Country	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	52,586.8	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
South East Asia	10,103.1	14,169.1	18,485.2	19,709.8	21,454.3	22,666.8	23,774.6	22,222.4	20,752.3	25,909.3	34,272.8
Malaysia	6,987.1	9,820.8	13,333.6	14,116.2	15,924.5	16,760.1	17,503.9	16,087.7	14,647.2	18,037.0	23,649.8
Thailand	1,708.8	2,406.8	2,828.3	2,862.2	2,839.8	3,062.9	3,809.0	3,288.7	3,394.5	4,690.0	6,697.5
Philippines	484.3	676.1	746.3	807.4	911.0	1,161.0	836.0	916.1	940.9	1,252.9	1,573.5
Brunei	585.2	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
North East Asia	13,080.4	16,150.2	21,959.9	25,679.9	26,429.3	25,770.4	28,375.3	28,987.5	29,529.8	37,350.5	49,934.6
Japan	7,894.2	9,498.2	12,500.7	15,445.0	15,634.9	14,968.4	16,024.6	14,591.9	15,256.6	19,478.5	26,192.3
Hong Kong	2,361.8	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
Taiwan	1,081.8	1,434.8	1,918.3	1,881.7	1,885.7	2,289.0	2,827.4	2,777.3	3,341.4	4,780.2	6,231.6
China, People's Rep	906.2	1,263.7	1,990.0	2,007.1	2,397.7	2,197.0	3,400.4	5,701.8	4,353.4	4,522.6	5,754.2
Rep of Korea	734.7	924.3	1,206.6	1,282.8	1,422.2	1,868.6	1,598.2	1,549.9	1,991.6	2,832.2	4,093.9
South Asia	1,484.9	1,785.7	2,804.3	3,085.6	3,313.5	3,346.1	3,579.8	3,599.2	2,880.1	3,384.8	4,035.9
India	809.7	708.9	1,208.1	1,474.3	1,559.8	1,656.9	1,883.7	1,557.9	1,376.3	1,695.7	2,014.2
Sri Lanka	218.8	316.3	371.8	412.3	678.5	658.1	405.1	519.6	414.4	460.2	555.0
Bangladesh	234.8	284.6	576.7	625.9	589.7	538.3	617.0	716.7	535.6	550.4	659.1
Pakistan	181.8	413.7	534.2	373.9	311.8	306.4	516.2	593.3	308.2	359.0	413.9
West Asia	7,689.9	10,265.8	14,207.1	18,554.8	17,450.1	15,216.7	14,601.8	10,672.1	9,211.8	10,048.4	10,285.5
Saudi Arabia	4,282.4	4,722.8	7,236.9	11,836.1	10,683.8	7,482.3	7,051.0	2,622.8	1,852.5	3,414.3	4,428.8
Iran	1,001.5	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
United Arab Emirates	353.2	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
Kuwait	458.5	1,870.5	3,026.3	2,248.9	1,169.0	1,687.5	2,192.5	1,252.0	2,183.0	1,680.4	1,095.1
Bahrain	308.2	490.8	735.7	746.5	981.1	577.3	528.3	276.4	459.1	579.3	553.2

10.2 TOTAL TRADE BY REGION AND SELECTED COUNTRY, 1978-1988 (continued)

Million Dollars

Region/Country	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
European Economic Community	6,590.1	8,852.9	10,973.1	10,610.7	10,592.6	10,678.9	11,510.2	11,858.2	11,923.5	15,590.9	20,865.1
United Kingdom	1,841.6	2,311.1	2,840.4	2,793.5	2,613.1	2,697.9	2,968.9	3,067.5	3,170.3	3,888.2	4,863.5
Germany, Fed Rep	1,877.3	2,473.2	2,924.1	2,736.6	2,887.0	2,691.4	2,894.2	2,700.4	3,367.8	4,311.9	6,012.7
France	889.9	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	2,898.4
Italy	575.9	840.7	1,017.2	957.4	951.1	1,210.6	1,437.0	1,378.7	1,239.2	1,616.9	2,459.9
Netherlands	694.2	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
European Free Trade Association	808.6	1,133.3	1,615.7	1,484.3	1,532.6	1,336.4	1,512.2	1,603.4	1,896.4	2,197.3	3,054.5
Switzerland	344.2	406.9	554.1	496.7	515.0	555.4	555.2	516.3	641.7	852.4	1,188.0
Other Western Europe	53.6	46.2	62.4	44.2	126.8	82.5	70.6	174.0	121.0	226.3	256.5
Socialist Countries of Eastern Europe	631.6	867.3	1,001.6	803.5	911.6	889.6	1,226.7	872.8	667.3	847.8	1,098.5
USSR	311.9	447.2	558.1	440.0	640.3	477.8	846.6	560.6	362.1	477.5	445.9
North America	7,814.6	10,205.3	13,065.1	13,870.2	13,873.8	17,943.6	19,918.3	19,947.7	20,355.5	25,596.5	33,823.1
United States ¹	7,456.3	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	32,544.5
Canada	358.2	449.9	555.9	665.1	505.1	564.3	703.6	553.3	590.5	839.3	1,252.4
Latin American Free Trade Association	542.1	771.0	762.0	639.1	649.8	573.6	669.3	571.5	608.7	807.3	1,407.2
Brazil	285.6	381.4	330.2	250.7	306.5	250.5	331.5	301.7	288.5	382.7	690.7
Oceania	2,336.7	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	5,094.8
Australia including Christmas Island	1,556.1	2,014.7	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
New Zealand	328.5	560.8	939.1	794.8	891.8	607.1	621.9	857.7	543.5	460.1	576.3
Rest of the World	1,451.2	1,871.3	3,193.0	3,298.4	3,405.7	3,191.7	2,507.6	2,586.7	2,861.1	2,624.4	3,148.9

¹ Prior to 1986, USA includes Puerto Rico.Source : Trade Development Board
with effect from April 1987

10.3 IMPORTS BY REGION AND SELECTED COUNTRY, 1978-1988

Million Dollars

Region/Country	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	29,601.3	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
South East Asia	5,112.3	7,199.9	8,914.7	9,290.7	10,070.9	10,606.4	11,593.4	10,764.4	10,099.0	12,664.4	16,465.1
Malaysia	3,793.6	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
Thailand	814.7	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
Philippines	148.9	160.6	160.2	226.7	218.9	271.3	395.0	437.5	401.6	375.6	528.9
Brunei	226.8	379.2	424.2	691.1	477.6	404.4	415.4	536.6	298.1	276.6	225.1
North East Asia	8,265.1	9,690.2	13,372.4	15,630.9	16,011.9	16,257.4	18,175.9	18,794.7	19,029.9	23,845.3	31,854.2
Japan	5,668.2	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
Hong Kong	731.4	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
Taiwan	732.6	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
China, People's Rep	775.5	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
Rep of Korea	334.6	423.9	584.7	661.3	743.8	904.0	784.0	930.3	1,288.6	1,837.2	2,542.1
South Asia	292.1	307.3	440.2	515.5	791.4	1,039.2	610.0	703.8	497.7	767.1	809.5
India	188.1	218.7	246.4	280.7	408.2	733.5	470.4	488.8	348.5	525.5	534.1
Sri Lanka	35.1	32.8	37.6	53.2	254.4	155.9	28.9	94.8	35.8	61.3	71.7
Bangladesh	18.5	8.7	42.8	30.4	21.4	17.1	43.1	52.1	29.3	90.0	92.9
Pakistan	43.0	36.5	91.5	125.3	94.2	120.8	60.9	60.3	78.1	82.9	89.3
West Asia	6,390.2	8,281.6	11,731.3	15,658.5	14,466.3	12,315.8	11,179.3	7,925.2	7,027.3	8,115.3	8,115.0
Saudi Arabia	3,908.6	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
Iran	862.2	561.2	473.7	753.4	1,931.1	1,208.3	733.0	2,474.5	2,062.6	973.2	803.7
United Arab Emirates	35.8	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
Kuwait	355.9	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	922.0
Bahrain	251.5	390.7	667.3	675.3	900.4	499.5	455.4	197.4	410.7	520.3	487.2

10.3 IMPORTS BY REGION AND SELECTED COUNTRY, 1978-1988 (continued)

Million Dollars

Region/Country	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
European Economic Community	3,525.2	4,387.8	5,667.6	5,772.6	6,305.6	6,282.4	6,336.2	6,546.0	6,468.2	8,237.7	10,612.9
United Kingdom	1,116.8	1,347.3	1,771.2	1,742.9	1,708.4	1,644.2	1,596.0	1,691.9	1,886.4	2,174.8	2,561.8
Germany, Fed Rep	1,117.6	1,419.0	1,677.1	1,610.4	1,912.4	1,619.7	1,667.0	1,574.4	1,829.0	2,359.4	3,265.0
France	441.4	484.3	699.0	967.6	1,124.6	1,050.1	1,022.7	1,327.7	971.6	1,415.9	1,586.2
Italy	318.6	423.7	484.2	543.0	589.5	766.6	905.5	832.9	740.3	921.4	1,317.2
Netherlands	280.8	373.9	520.8	462.6	452.1	507.2	492.7	550.9	499.8	513.2	687.3
European Free Trade Association	590.0	826.6	1,171.0	1,091.4	1,165.8	944.6	1,110.0	1,159.9	1,443.0	1,612.1	1,842.9
Switzerland	276.3	337.7	428.4	378.3	418.1	433.5	433.7	397.8	506.1	649.2	928.1
Other Western Europe	15.4	8.6	4.7	3.1	72.1	10.8	13.0	81.6	25.7	51.0	112.0
Socialist Countries of Eastern Europe	154.0	234.6	176.8	222.1	278.5	364.7	308.6	169.0	189.6	234.5	514.6
USSR	52.9	52.0	51.2	96.7	175.6	98.3	86.4	28.9	78.4	84.0	185.6
North America	3,915.4	5,666.4	7,510.1	7,633.1	7,995.6	9,224.7	9,241.1	8,970.8	8,542.3	10,417.4	14,258.7
United States ¹	3,771.8	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
Canada	143.6	176.9	272.9	276.7	220.2	219.2	318.2	195.4	225.0	355.3	536.1
Latin American Free Trade Association	201.2	219.5	254.3	225.0	373.0	278.4	302.4	247.3	256.3	379.3	851.9
Brazil	137.0	129.7	168.2	131.4	212.8	147.8	186.4	163.6	143.2	225.3	464.0
Oceania	782.9	1,028.8	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
Australia including Christmas Island	603.2	845.4	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
New Zealand	123.7	150.4	188.8	225.1	221.4	180.7	221.7	264.1	202.3	221.6	305.1
Rest of the World	357.5	483.1	715.0	698.0	1,046.1	775.2	476.6	616.0	737.1	518.9	722.0

1 Prior to 1986, USA includes Puerto Rico.

Source : Trade Development Board
with effect from April 1987

10.4 EXPORTS BY REGION AND SELECTED COUNTRY, 1978-1988

Million Dollars

Region/Country	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	22,985.5	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
South East Asia	4,990.8	6,969.2	9,570.5	10,419.1	11,383.4	12,060.4	12,181.2	11,458.0	10,653.3	13,244.9	17,807.7
Malaysia	3,193.5	4,427.4	6,218.0	6,906.7	7,858.9	8,121.3	8,324.2	7,786.7	7,244.6	8,559.6	10,721.1
Thailand	894.1	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
Philippines	335.4	515.5	586.1	580.7	692.1	889.7	441.0	478.6	539.3	877.2	1,044.5
Brunei	358.4	455.7	591.8	682.6	769.1	746.0	627.1	638.1	683.6	707.5	833.1
North East Asia	4,815.3	6,460.0	8,587.5	10,049.0	10,417.4	9,513.0	10,199.4	10,192.8	10,499.8	13,505.2	18,080.3
Japan	2,226.0	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
Hong Kong	1,630.4	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
Taiwan	349.2	450.6	702.0	606.6	575.8	687.5	829.6	855.2	1,097.2	1,636.7	2,234.9
China, People's Rep	130.7	369.6	657.9	377.3	516.7	449.8	519.3	730.2	1,243.8	1,546.8	2,368.6
Rep of Korea	400.1	500.4	621.9	621.5	678.4	964.6	814.2	619.5	703.0	995.1	1,551.8
South Asia	1,192.8	1,478.4	2,364.1	2,570.1	2,522.1	2,306.9	2,969.8	2,895.4	2,382.4	2,617.7	3,226.3
India	621.6	490.2	961.7	1,193.6	1,151.6	923.4	1,413.3	1,069.0	1,027.8	1,170.2	1,480.1
Sri Lanka	183.7	283.5	334.2	359.1	424.1	502.2	376.2	424.8	378.6	398.9	483.3
Bangladesh	216.3	275.8	533.9	595.5	568.3	521.2	573.9	664.6	506.3	460.4	566.3
Pakistan	138.8	377.2	442.7	248.6	217.6	185.6	455.3	533.0	230.1	276.1	324.6
West Asia	1,299.7	1,984.2	2,475.8	2,896.3	2,983.8	2,900.9	3,422.5	2,746.9	2,184.5	1,933.1	2,170.5
Saudi Arabia	373.8	702.9	824.6	1,064.6	1,275.5	974.7	1,363.5	588.5	483.5	578.7	555.6
Iran	139.3	59.6	200.9	208.4	549.8	821.6	724.8	873.7	763.8	152.7	216.2
United Arab Emirates	317.4	481.9	606.2	723.6	355.6	426.9	446.4	437.2	391.0	437.9	523.3
Kuwait	102.6	172.1	187.7	253.5	220.7	142.0	309.8	268.4	84.9	122.7	173.1
Bahrain	56.7	100.1	68.4	71.2	80.7	77.8	72.9	79.1	48.4	59.0	66.0

10.4 EXPORTS BY REGION AND SELECTED COUNTRY, 1978-1988 (continued)

Million Dollar

Region/Country	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
European Economic Community	3,064.9	4,465.1	5,305.5	4,838.1	4,287.0	4,396.5	5,174.0	5,312.2	5,445.3	7,353.2	10,252.2
United Kingdom	724.8	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
Germany, Fed Rep	759.7	1,054.2	1,247.0	1,126.2	974.6	1,071.7	1,227.0	1,126.0	1,538.8	1,952.5	2,747.7
France	448.5	671.7	906.1	796.4	671.2	662.0	637.6	764.0	713.6	920.4	1,312.3
Italy	257.3	417.0	533.0	414.4	361.6	444.0	531.5	545.8	498.9	695.5	1,142.6
Netherlands	413.4	719.4	784.0	732.3	759.2	536.7	628.6	638.5	747.8	1,114.4	1,357.4
European Free Trade Association	218.6	306.7	444.7	392.9	366.8	391.8	402.2	443.5	453.4	585.2	1,211.7
Switzerland	67.9	69.2	125.7	118.4	96.9	121.9	121.5	118.5	135.6	203.2	259.9
Other Western Europe	38.2	37.6	57.7	41.1	54.7	71.7	57.6	92.4	95.3	175.3	144.4
Socialist Countries of Eastern Europe	477.6	632.7	824.8	581.4	633.1	524.9	918.1	703.8	477.7	613.3	583.9
USSR	259.0	395.2	506.9	343.3	464.7	379.5	760.2	531.7	283.7	393.5	260.3
North America	3,899.2	4,538.9	5,555.0	6,237.1	5,878.2	8,718.9	10,677.2	10,976.9	11,813.2	15,179.0	19,564.3
United States ¹	3,684.5	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
Canada	214.6	273.0	283.0	388.4	284.9	345.1	385.4	357.9	365.5	484.0	716.3
Latin American Free Trade Association	340.9	551.5	507.7	414.1	276.8	295.2	366.9	324.2	352.4	428.0	555.2
Brazil	148.6	251.7	162.0	119.3	93.7	102.7	145.1	138.1	143.3	157.4	226.7
Oceania	1,553.8	2,127.6	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
Australia including Christmas Island	952.9	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
New Zealand	204.8	410.4	750.3	569.7	670.4	426.4	400.2	593.6	341.2	238.5	271.1
Rest of the World	1,093.7	1,388.2	2,478.0	2,600.4	2,359.6	2,416.5	2,031.0	1,970.7	2,134.1	2,105.6	2,427.4

¹ Prior to 1986, USA includes Puerto Rico.Source: Trade Development Board
with effect from April 1987

10.5 DOMESTIC EXPORTS BY REGION AND SELECTED COUNTRY, 1978-1988

Million Dollars

Region/Country	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	13,226.2	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
South East Asia	1,868.4	2,794.8	4,382.9	5,094.2	5,637.9	5,883.9	5,804.6	5,947.1	5,174.9	6,139.3	7,862.0
Malaysia	896.7	1,365.0	2,254.3	2,915.8	3,618.4	3,605.3	3,533.3	3,773.3	3,266.1	3,407.0	3,986.1
Thailand	479.0	812.3	1,307.6	1,393.4	1,154.6	1,279.8	1,726.1	1,424.1	1,197.1	1,759.0	2,753.1
Philippines	195.8	288.0	340.8	292.4	411.6	609.9	217.4	268.7	316.0	492.5	492.1
Brunei	151.1	190.0	268.5	283.3	315.0	281.7	215.9	226.7	235.4	237.0	261.7
North East Asia	3,513.2	4,715.2	6,476.6	8,033.1	7,902.4	6,923.4	7,495.2	7,218.4	7,378.4	9,387.0	11,651.2
Japan	1,884.8	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
Hong Kong	1,258.8	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
Taiwan	171.0	179.0	387.2	324.2	293.6	330.5	462.6	513.4	655.6	976.9	1,224.2
China, People's Rep	35.9	151.4	238.2	114.1	117.6	117.6	194.4	398.8	858.4	1,058.7	1,350.8
Rep of Korea	118.3	168.6	292.1	343.3	449.5	711.2	547.2	371.7	427.4	641.7	939.7
South Asia	643.0	704.9	1,395.6	1,680.0	1,658.0	1,218.9	1,753.0	1,465.1	1,104.8	1,190.1	1,271.5
India	349.4	224.2	676.3	881.3	840.5	573.6	1,042.8	667.6	527.9	580.9	652.2
Sri Lanka	115.8	164.6	193.1	180.6	251.0	290.4	145.4	183.5	107.0	138.6	158.2
Bangladesh	112.3	181.0	356.6	446.1	454.7	226.1	416.4	485.7	311.0	273.3	229.1
Pakistan	55.2	111.4	126.8	81.7	64.2	63.7	86.4	82.4	89.5	114.1	117.6
West Asia	771.6	1,265.2	1,449.4	1,725.3	1,611.2	1,803.5	1,643.8	1,634.3	1,444.1	1,015.9	1,182.6
Saudi Arabia	251.7	462.7	467.7	532.6	510.0	560.0	408.5	300.7	257.6	302.4	268.4
Iran	59.0	20.8	60.7	93.6	505.0	719.5	614.0	742.1	696.7	82.0	134.7
United Arab Emirates	209.9	355.9	438.4	539.0	179.4	175.7	211.3	222.9	184.2	240.8	265.6
Kuwait	71.7	126.0	100.4	188.2	123.0	87.8	99.4	62.6	51.3	73.9	112.0
Bahrain	39.0	80.5	49.0	40.8	43.3	39.1	34.1	44.3	25.7	39.0	42.7

10.5 DOMESTIC EXPORTS BY REGION AND SELECTED COUNTRY, 1978-1988 (continued)

Million Dollars

Region/Country	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
European Economic Community	1,688.0	2,508.4	3,312.9	3,250.4	3,019.4	2,912.2	3,451.3	3,385.1	3,454.2	4,892.2	7,010.4
United Kingdom	442.5	666.1	690.1	752.8	648.1	750.8	1,057.5	1,026.7	853.6	1,147.1	1,661.2
Germany, Fed Rep	501.6	672.1	942.0	827.2	721.9	767.0	880.6	798.2	1,073.3	1,329.7	1,848.3
France	208.4	343.4	489.6	540.3	501.9	466.8	418.8	387.0	447.3	624.9	952.7
Italy	118.4	199.5	320.8	269.2	254.4	344.3	444.8	456.1	371.8	516.1	914.0
Netherlands	220.9	328.6	454.3	410.5	516.8	239.1	253.8	370.7	346.2	698.1	812.7
European Free Trade Association	182.0	244.6	350.6	313.4	298.0	308.6	315.4	299.9	324.0	394.4	561.6
Switzerland	59.1	50.4	87.1	78.1	70.8	86.6	76.3	73.5	80.8	93.8	145.6
Other Western Europe	3.1	6.3	13.4	7.5	8.8	17.4	9.6	31.4	39.2	76.0	73.1
Socialist Countries of Eastern Europe	108.5	131.3	211.1	208.1	241.3	255.0	587.3	428.7	255.3	254.2	334.0
USSR	53.4	62.1	101.8	92.6	143.2	180.2	514.6	328.2	153.9	147.4	180.3
North America	2,600.4	3,148.1	4,028.4	4,561.1	4,330.7	6,206.7	8,127.6	8,367.9	9,751.1	12,590.0	16,166.9
United States ¹	2,513.7	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
Canada	86.7	121.9	134.3	164.1	134.6	187.9	207.3	208.6	246.6	339.2	545.7
Latin American Free Trade Association	29.2	126.5	468.5	100.2	84.5	73.1	105.1	132.0	113.1	130.8	150.9
Brazil	12.1	79.6	26.4	21.0	40.1	39.8	60.6	65.2	49.7	39.2	36.6
Oceania	1,198.3	1,734.7	2,831.4	2,760.3	2,695.7	2,005.0	2,305.7	2,475.8	1,922.9	1,825.9	1,951.4
Australia including Christmas Island	683.4	884.0	1,360.9	1,445.1	1,313.8	993.8	1,297.3	1,259.1	1,105.9	1,197.3	1,366.8
New Zealand	149.7	344.0	683.6	486.0	579.3	337.4	323.4	510.6	268.1	149.6	153.9
Rest of the World	620.5	820.4	884.4	1,718.4	1,669.9	1,598.7	1,452.6	1,189.8	1,100.4	1,174.8	1,339.6

1 Prior to 1986, USA includes Puerto Rico.

Source : Trade Development Board
with effect from April 1987

10.6 IMPORTS BY COMMODITY, 1978-1988

Million Dollars

Commodity	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	29,601.3	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
Food	2,183.0	2,552.6	2,915.5	3,270.5	3,601.9	3,503.9	4,157.6	3,535.4	3,865.7	3,951.8	4,667.0
Cereals & Cereal Preparations	438.3	573.2	694.3	754.0	823.4	636.7	980.5	428.1	384.5	362.4	508.9
Fruits & Vegetables	547.2	599.3	674.1	792.2	805.0	857.8	913.9	899.1	927.8	971.0	1,150.7
Coffee & Spices	384.5	439.8	388.7	464.8	592.4	660.2	808.7	882.6	1,047.7	830.6	791.1
Beverages & Tobacco	176.0	207.3	276.0	282.2	339.5	416.2	460.6	501.0	541.5	595.0	730.1
Crude Materials	2,470.0	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
Rubber	1,577.6	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
Wood	328.3	461.4	423.6	388.0	360.4	353.1	296.1	249.4	272.1	294.6	311.3
Mineral Fuels	7,081.5	9,672.7	14,889.2	19,831.1	20,479.6	18,611.7	16,961.3	17,031.0	10,994.5	12,525.7	12,422.2
Petroleum & Petroleum Products	7,074.5	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
Animal & Vegetable Oils	491.1	829.4	1,001.0	721.8	671.5	632.1	1,435.9	1,380.5	720.3	791.8	941.0
Unprocessed Vegetable Oils	190.0	414.0	239.6	226.9	114.2	202.0	440.9	293.9	166.9	299.0	351.4
Chemicals	1,597.6	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
Chemical Compounds	355.1	571.4	715.7	753.0	723.5	821.2	859.1	772.0	879.7	1,079.4	1,545.9
Plastic Materials	400.1	591.3	648.2	643.3	687.0	808.1	829.3	721.3	846.0	1,275.9	1,999.9
Medicinal Products	161.4	173.2	206.8	203.6	210.7	207.0	222.2	239.0	284.6	314.2	367.2
Manufactured Goods by Material	4,566.5	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
Textile Manufactures	1,401.4	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
Non-metal Mineral Manufactures	532.7	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
Iron & Steel	1,138.8	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
Metal Manufactures	621.6	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
Paper & Paperboard & Related Articles	310.7	377.1	502.9	532.8	501.7	556.4	647.7	575.4	684.9	886.2	1,134.4
Machinery & Transport Equipment	8,607.8	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
Non-electric Machinery	3,050.2	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
Electric Machinery	3,595.2	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
Transport Equipment	1,962.4	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
Miscellaneous Manufactured Articles	2,071.4	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
Scientific & Optical Instruments	439.6	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
Watches & Clocks	385.9	377.7	576.3	541.9	550.4	537.6	475.6	424.7	475.7	596.3	779.2
Miscellaneous Transactions nes	356.4	510.9	667.4	643.2	576.3	651.1	850.2	898.0	991.2	1,077.5	1,367.0

Source : Trade Development Board
with effect from April 1987

10.7 EXPORTS BY COMMODITY, 1978-1988

Million Dollars

Commodity	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	22,985.5	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
Food	1,488.0	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
Cereals & Cereal Preparations	169.4	224.1	357.5	449.5	609.7	274.7	839.1	186.5	142.7	167.4	250.6
Fruits & Vegetables	205.1	223.3	252.8	303.2	320.9	342.9	375.9	366.2	340.8	364.4	411.5
Coffee & Spices	594.0	597.5	627.4	659.2	745.5	720.3	960.7	988.2	1,350.1	1,148.4	1,290.4
Beverages & Tobacco	99.9	131.6	157.2	174.3	217.0	210.0	209.8	240.8	332.1	387.2	552.8
Crude Materials	3,483.1	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
Rubber	2,480.6	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
Wood	408.0	657.7	585.0	426.4	378.4	398.8	365.0	327.9	380.4	510.3	563.4
Mineral Fuels	5,329.0	7,414.5	11,965.7	14,175.6	14,616.6	12,969.5	13,185.0	13,594.2	10,147.1	9,746.7	10,146.9
Petroleum & Petroleum Products	5,279.1	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
Animal & Vegetable Oils	513.5	858.1	1,095.5	820.0	780.3	628.2	1,540.5	1,535.2	880.4	795.9	885.5
Unprocessed Vegetable Oils	347.8	684.6	840.6	581.7	560.9	451.5	1,115.7	1,128.1	362.2	362.5	454.9
Chemicals	870.5	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
Chemical Compounds	152.2	231.7	282.6	346.0	380.5	547.2	882.4	917.6	985.5	1,253.3	1,669.7
Medicinal Products	233.5	267.5	323.3	319.2	342.8	329.8	259.8	298.1	294.1	305.2	349.2
Plastic Materials	155.7	205.8	220.6	220.5	243.4	263.2	486.3	680.1	732.5	1,174.7	1,846.0
Manufactured Goods by Material	2,259.7	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
Wood Manufacture	351.4	482.5	549.2	539.3	495.9	536.4	481.0	484.3	447.3	590.5	750.1
Textile Manufactures	606.3	787.9	793.2	737.0	745.6	810.2	781.1	776.9	929.4	1,330.3	1,386.5
Iron & Steel	400.4	362.4	454.3	586.3	707.5	411.2	461.5	457.8	433.1	471.8	721.0
Metal Manufactures	287.1	389.5	450.7	578.5	516.9	509.6	530.3	570.6	561.1	626.6	857.3
Machinery & Transport Equipment	5,715.1	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
Non-electric Machinery	1,299.5	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
Electric Machinery	3,557.4	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
Transport Equipment	858.3	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
Miscellaneous Manufactured Articles	1,725.0	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
Clothing	672.2	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
Scientific & Optical Instruments	200.0	344.8	410.0	481.7	414.6	510.0	594.1	660.4	755.1	1,045.1	1,558.3
Watches & Clocks	223.6	189.8	221.8	250.9	232.9	246.2	230.2	200.9	206.8	226.5	317.4
Miscellaneous Transactions nes	1,501.7	2,144.1	3,003.7	3,406.2	3,751.0	3,532.6	3,737.6	3,655.5	3,126.2	3,501.3	3,356.8

Source : Trade Development Board
with effect from April 1987

10.8 DOMESTIC EXPORTS BY COMMODITY, 1978-1988

Million Dollars

Commodity	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	13,226.2	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
Food	343.9	450.1	600.6	536.7	449.5	469.1	483.9	478.1	602.3	731.3	904.7
Animal Feeding Stuffs	64.6	74.8	83.6	57.6	42.6	38.6	46.9	36.3	40.5	36.6	48.9
Beverages & Tobacco	74.4	88.0	102.7	116.2	134.1	114.7	102.4	103.4	121.6	177.2	249.1
Crude Materials ¹	85.3	129.3	152.3	140.0	125.3	179.6	172.3	189.7	246.6	343.7	468.5
Mineral Fuels	5,224.7	7,214.8	11,612.2	13,829.6	13,846.5	12,192.7	12,749.5	12,982.1	9,766.2	9,302.2	9,135.1
Animal & Vegetable Oils	170.7	229.8	393.7	470.3	482.6	401.9	670.1	629.7	666.7	605.4	610.6
Chemicals	389.2	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
Medicinal Products	183.4	205.5	258.2	237.4	260.3	241.3	172.1	207.0	192.9	199.4	222.9
Plastic Materials	95.1	92.7	99.6	100.6	108.5	106.5	325.9	522.4	549.5	864.2	1,305.9
Manufactured Goods by Material	1,024.5	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
Wood Products excluding Furniture	252.9	366.7	414.3	363.6	289.5	286.5	251.7	228.8	169.3	190.3	242.6
Textile Yarn Thread	101.7	152.8	137.9	96.7	76.1	68.4	58.0	43.0	50.7	69.8	73.8
Woven Textile Fabrics	97.4	115.0	124.2	119.1	104.6	68.5	48.9	31.0	31.6	40.4	49.7
Lime, Cement & Fabricated Construction Materials	47.4	61.2	75.7	79.8	71.0	48.9	84.2	62.7	14.7	21.9	21.6
Iron & Steel Pipes & Fittings	117.9	31.5	35.8	47.8	67.7	32.8	38.7	59.4	71.6	58.5	84.9
Machinery & Transport Equipment	3,436.6	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
Office Machines	156.0	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
Other Non-electric Machines	205.2	220.4	158.8	357.1	434.5	490.7	579.6	581.6	680.6	803.7	1,122.0
Electric Generators	193.9	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
Telecommunications Apparatus	939.2	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
Other Electric Machinery	1,448.1	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
Ships, Boats & Oil Rigs	290.7	455.7	587.7	965.9	764.7	982.7	633.5	102.8	109.0	194.8	375.7
Miscellaneous Manufactured Articles	1,284.0	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
Clothing	558.9	670.3	757.3	800.3	752.8	765.2	891.3	876.9	1,072.3	1,487.1	1,780.9
Scientific & Optical Instruments	115.6	198.0	236.6	238.6	166.2	209.3	256.0	291.1	359.9	522.6	738.6
Watches & Clocks	136.3	109.9	143.5	175.2	150.1	157.2	131.7	103.4	103.5	93.4	131.3
Printed Matters	75.0	77.3	90.5	115.2	110.6	112.0	120.2	136.9	188.1	256.7	314.0
Toys & Games	84.7	97.3	147.9	175.4	151.5	138.7	185.5	200.5	258.5	440.4	446.5
Miscellaneous Transactions nes	1,192.9	1,797.6	2,595.1	2,981.6	3,346.5	3,079.4	3,143.9	3,022.8	2,455.3	2,716.4	2,494.3
Oil Bunkers	1,173.2	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

1 Exclude processed rubber and sawn timber.

Source : Trade Development Board
with effect from April 1987

10.9 IMPORTS OF SPECIFIC COMMODITIES, 1978-1988

Million Dollars

Year	Meat	Rice	Unmilled Cereals	Fruits & Nuts	Spices	Animal Feed	Crude Rubber	Sawn Timber	Crude Petroleum
1978	142.6	151.7	221.9	189.8	225.1	195.8	1,568.1	267.7	6,258.3
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	132.3	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

10.9 IMPORTS OF SPECIFIC COMMODITIES, 1978-1988 (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
1978	816.2	190.0	161.4	253.3	137.8	979.3	650.8	357.9	1,169.3
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

10.9 IMPORTS OF SPECIFIC COMMODITIES, 1978-1988 (continued)

Million Dollars

Year	Industrial Machinery	Telecommunications Apparatus	Office Machines	Motor Vehicles	Ships, Boats & Oil Rigs	Clothing	Scientific & Optical Instruments	Watches & Clocks	Toys & Games
1978	785.9	586.4	207.0	741.4	782.0	256.3	439.6	385.9	145.5
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	887.9	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	954.9	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

Source : Trade Development Board
with effect from April 1987

10.10 EXPORTS OF SPECIFIC COMMODITIES, 1978-1988

Million Dollars

Year	Spices	Coffee	Animal Feed	Crude Rubber	Sawn Timber	Petroleum Products	Fixed Vegetable Oils	Medicinal Products	Manufactured Fertilizers
1978	296.8	212.5	181.3	2,460.2	390.7	5,256.4	347.8	233.5	129.4
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	486.5	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

10.10 EXPORTS OF SPECIFIC COMMODITIES, 1978-1988 (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
1978	133.4	336.0	132.3	379.8	152.2	229.4	453.8	187.6	352.2
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	446.2	143.6	673.0	188.5	219.7	2,156.8	4,410.6	673.8
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

10.10 EXPORTS OF SPECIFIC COMMODITIES, 1978-1988 (continued)

Million Dollars

Year	Telecommunica- tions Apparatus	Household Equipment	Motor Vehicles	Ships, Boats & Oil Rigs	Furniture	Clothing	Scientific & Optical Instruments	Watches & Clocks	Printed Matters
1978	1,061.6	115.5	329.6	410.6	70.5	672.2	200.0	223.6	106.7
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	3,224.8	429.0	298.2	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

Source : Trade Development Board
with effect from April 1987

CHART 12

EXTERNAL TRADE AND TRADE BALANCE, 1978-1988

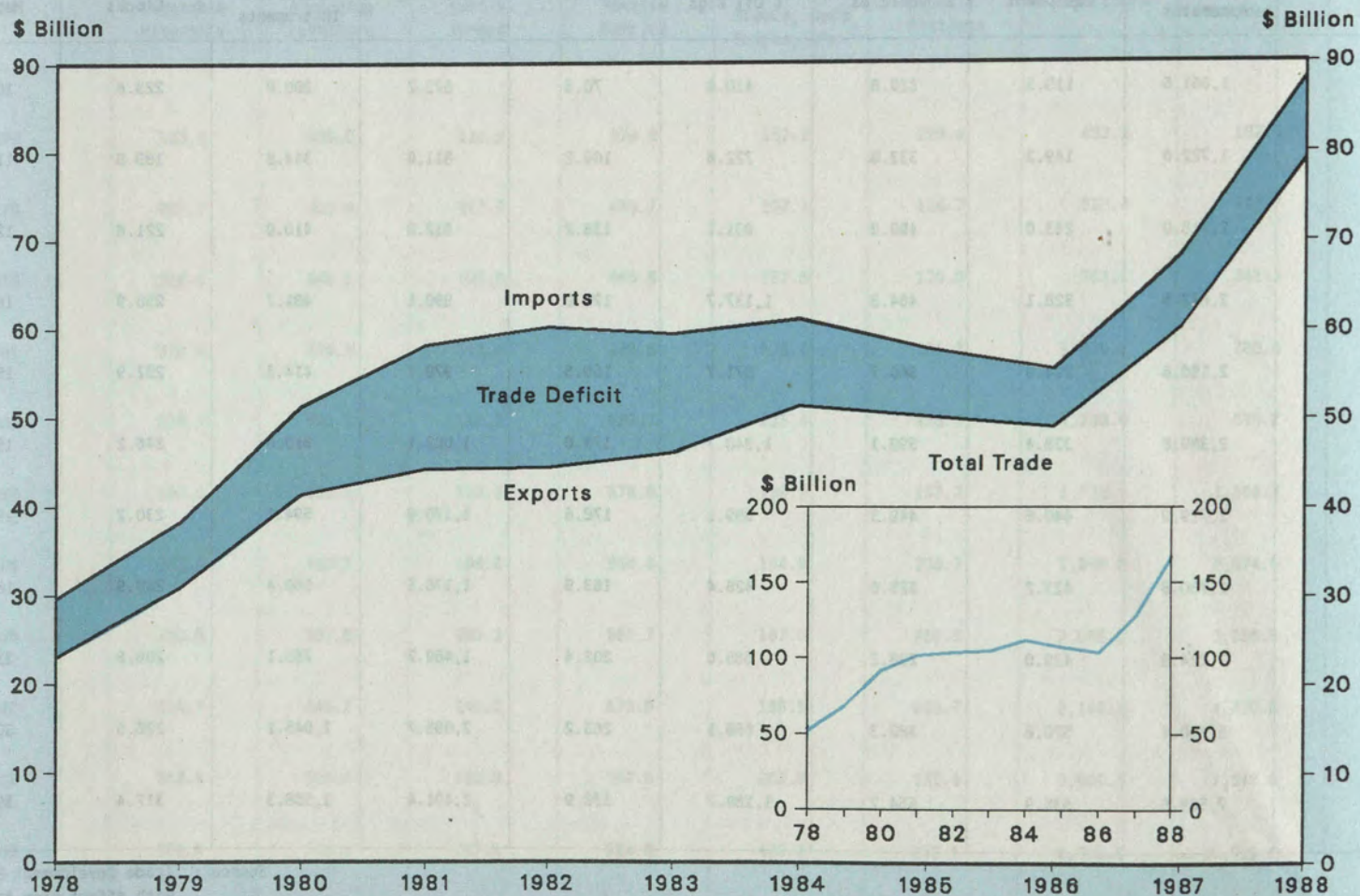


CHART 13

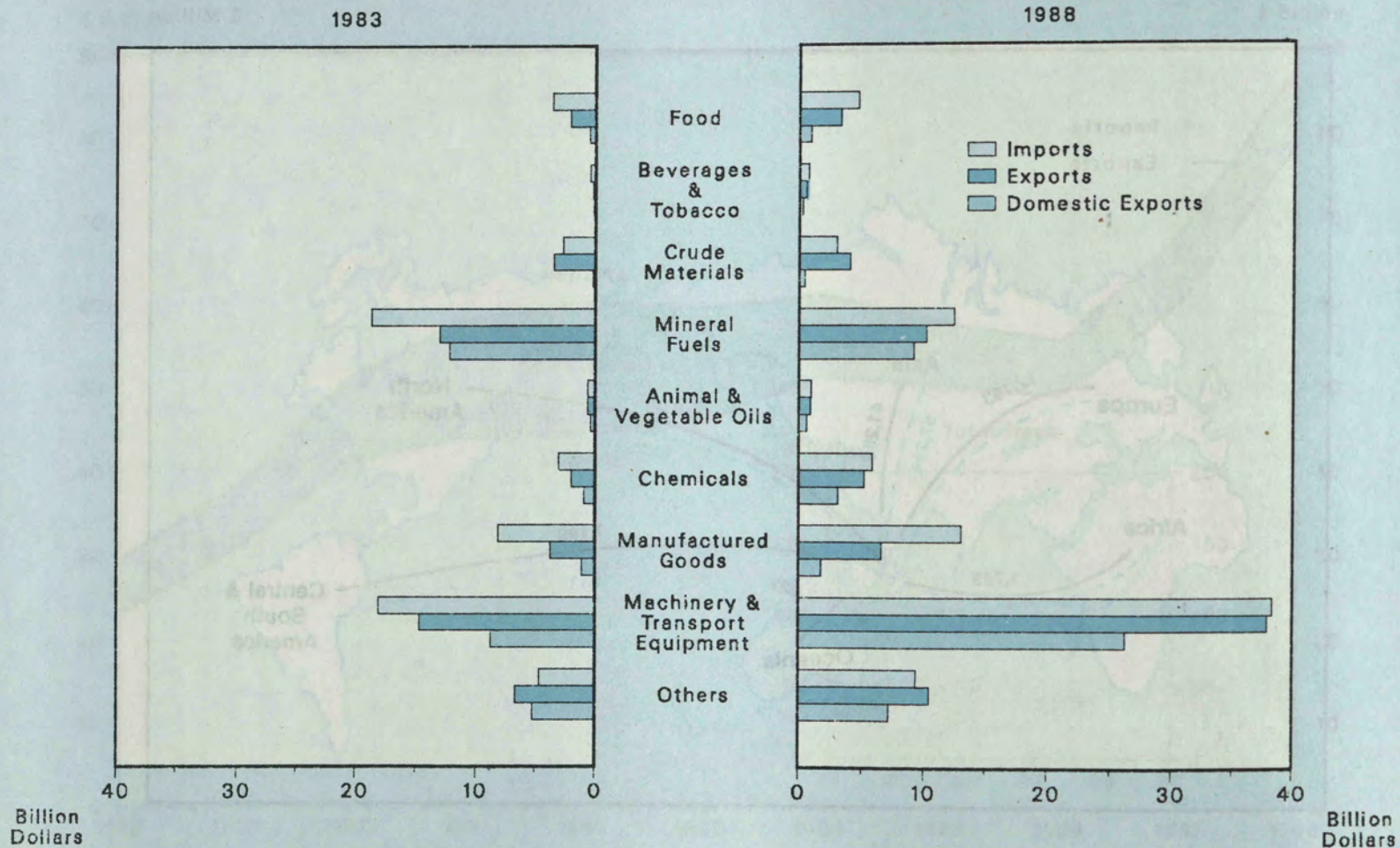
TRADE WITH MAJOR REGIONS, 1988

\$ Million



CHART 14

TRADE BY COMMODITY, 1983 & 1988



11 TRANSPORT, COMMUNICATIONS AND TOURISM

about 400000 people are served by the airport. The airport is the main gateway to the island and is the largest and busiest airport in the region. It is the only airport in the region with a runway of 3000 metres. The airport is the main gateway to the island and is the largest and busiest airport in the region. It is the only airport in the region with a runway of 3000 metres.

Data on the movement of vessels are compiled from declarations submitted to the Port Master by all merchant ships arriving or leaving Singapore waters. The data are given in number and net registered tonnage which is the cargo space for cargo and passenger accommodation.

to assess the movement of vessels are compiled from declarations submitted to the Port Master by all merchant ships arriving or leaving Singapore waters. The data are given in number and net registered tonnage which is the cargo space for cargo and passenger accommodation.

Volume of cargo handled: Refers to those discharged and loaded at all ports of Singapore and is based on cargo summaries submitted to the Manifest Section of the Import and Export Office. Data include transshipment cargo but exclude stores. Data on imports and exports are given in number and net registered tonnage or in bulk, but not in weight. All other cargo including passengers and animals are shown as General Cargo and Other Bulk Cargo.

Civil Air Traffic
The Civil Aviation Authority of Singapore is responsible for the regulation and control of civil aviation in Singapore.

Monthly statistics on passenger aircraft landings and mail carried through Changi Airport and Seletar Airfield are available in the "Air Transport Statistics" published by the Civil Aviation Authority of Singapore.

Monthly statistics on passenger aircraft landings and mail carried through Changi Airport and Seletar Airfield are available in the "Air Transport Statistics" published by the Civil Aviation Authority of Singapore.

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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 net registered tonnage which is the close-in space for cargo and passenger accommodation.

Sea Cargo Discharged and Loaded

Volume of cargo handled : Refers to those discharged and loaded at all parts of Singapore and is based on cargo summaries submitted to the Manifest Section of the Imports and Exports Office. Data include transshipment cargo but exclude ship's stores. Data on "mineral oil-in-bulk" cover crude and refined petroleum discharged or loaded by tankers at the oil refineries, but exclude bunker fuel supplied to vessels. All other cargo, including vegetable oil-in-bulk, bulk cement, bulk wheat, bulk latex and live animals, are shown as "General Cargo and Other Bulk Cargo".

Civil Air Traffic

The Civil Aviation Authority of Singapore 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 Civil Aviation Authority of Singapore.

Visitors and Returning Singapore Residents

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

Data on returning Singapore residents by air and sea are compiled from Disembarkation Forms (Form 23) completed by

all Singapore citizens and permanent residents returning from abroad.

From 1978, data on returning citizens/ residents exclude all residents embarking at ports in Peninsular Malaysia. Before 1978, only Singapore and Malaysian citizens embarking from Peninsular Malaysia were excluded.

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 as well as returning Singapore residents.

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. Data on the number and type of motor vehicles registered are compiled from administrative records. More information on vehicle statistics may be obtained from the ROV's Annual Report.

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, 1983-1988
(End of Period)

Tonnage Class (Gross Registered Tons)	1983		1984		1985		1986		1987		1988	
	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT	No.	'000 GRT
Total	1,743	7,140	1,555	6,864	1,406	6,622	1,265	7,262	1,229	7,247	1,243	7,328
Non-propelled or Below 100	945	582	824	520	727	475	614	407	562	377	588	395
100 & Above	798	6,558	731	6,344	679	6,147	651	6,855	667	6,870	655	6,933

Source : Marine Department

11.2 AGE DISTRIBUTION OF VESSELS REGISTERED IN SINGAPORE, DECEMBER 1988

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	211	1,651	467	1,982	267	2,271	221	1,157	60	236	10	19	7	11
Non-propelled or Below 100	146	105	298	193	77	55	58	36	6	4	2	2	1	-
100 to Below 500	15	3	61	15	39	10	43	12	16	6	2	1	1	-
500 to Below 1,000	5	4	16	11	16	13	24	22	12	10	1	1	1	1
1,000 to Below 5,000	4	8	23	56	39	123	38	104	10	22	4	8	4	10
5,000 to Below 10,000	3	27	11	93	31	235	23	191	7	56	1	7	-	-
10,000 & Above	38	1,504	58	1,614	65	1,835	35	792	9	138	-	-	-	-

Source : Marine Department

11.3 VESSELS LICENSED IN SINGAPORE, 1978-1988

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
1978	3,004	28	1,938	477	561	719	546	173
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

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

Source : Marine Department
Primary Production Department
Port of Singapore Authority

11.4 VESSELS ENTERED AND CLEARED, 1978-1988

Year	Total				Vessels of Over 75 NRT				Vessels of 75 NRT & Under & Native Crafts of All Types ¹			
	Entered		Cleared		Entered		Cleared		Entered		Cleared	
	No.	'000 NRT	No.	'000 NRT	No.	'000 NRT	No.	'000 NRT	No.	'000 NRT	No.	'000 NRT
1978	44,306	138,208	44,549	138,405	21,787	135,433	21,829	135,588	22,519	2,775	22,720	2,817
1979	47,729	153,581	47,925	153,424	23,704	149,846	23,721	149,655	24,025	3,735	24,204	3,769
1980	47,732	158,253	48,038	158,688	24,877	155,167	24,820	155,369	22,855	3,086	23,218	3,319
1981	50,837	177,247	50,967	176,073	26,134	173,272	26,097	171,951	24,703	3,975	24,870	4,122
1982	54,379	186,289	54,444	186,607	27,957	181,392	27,892	181,723	26,422	4,897	26,552	4,884
1983	56,224	188,332	56,309	188,868	27,861	182,951	27,909	183,441	28,363	5,381	28,400	5,427
1984	55,283	175,523	55,357	175,011	26,458	170,334	26,429	169,613	28,825	5,189	28,928	5,398
1985	55,284	171,367	54,628	170,507	27,817	165,294	27,566	165,593	27,467	6,073	27,062	4,914
1986	60,863	206,366	60,519	204,392	30,911	201,005	30,717	199,863	29,952	5,361	29,802	4,529
1987	61,611	212,993	61,234	211,691	30,477	209,046	30,260	208,205	31,134	3,947	30,974	3,487
1988	69,236	248,200	69,095	245,852	32,618	238,057	32,569	236,833	36,618	10,143	36,526	9,019

Note : Figures include vessels with cargo and in ballast, and exclude fishing vessels.

1 Include non-motorised vessels of all tonnages.

Source : Port of Singapore Authority
with effect from July 1986

11.5 VESSELS ENTERED AND CLEARED BY REGION AND SELECTED COUNTRY OF ORIGIN AND DESTINATION, 1988

Region/Country of Origin or Destination	Total				With Cargo				In Ballast			
	Entered		Cleared		Entered		Cleared		Entered		Cleared	
	Number	'000 NRT	Number	'000 NRT	Number	'000 NRT	Number	'000 NRT	Number	'000 NRT	Number	'000 NRT
ALL COUNTRIES	69,236	248,200	69,095	245,852	39,451	99,871	26,193	129,072	29,785	148,330	42,902	116,780
South East Asia	38,722	47,158	39,116	49,258	28,669	23,236	13,520	31,058	10,053	23,922	25,596	18,200
North East Asia	5,770	81,252	4,322	50,916	2,861	25,476	3,490	41,146	2,909	55,776	832	9,770
China	956	9,989	647	4,946	353	3,162	491	3,576	603	6,827	156	1,371
Hong Kong	2,034	19,682	1,523	17,809	1,703	16,500	1,425	17,012	331	3,182	98	797
Japan	1,782	34,509	1,408	20,587	320	1,932	963	14,188	1,462	32,578	445	6,399
Taiwan	724	9,338	629	6,222	424	3,275	538	5,460	300	6,063	91	762
South Asia	1,620	11,455	1,692	11,391	673	4,268	1,258	7,812	947	7,187	434	3,578
Middle East	910	17,034	1,014	16,914	524	12,380	612	6,356	386	4,654	402	10,558
Bahrain	62	1,279	62	2,238	51	1,170	7	1,049	11	109	55	1,189
Iran	79	8,975	57	831	26	1,881	43	378	53	7,093	14	453
Kuwait	77	1,319	28	708	44	1,061	12	145	33	258	16	563
Saudi Arabia	400	8,776	379	8,248	302	6,782	228	3,297	98	1,994	151	4,951
Africa	1,528	14,491	971	11,403	570	5,784	687	6,560	958	8,707	284	4,843
EEC	219	3,672	484	6,403	138	2,280	386	5,073	81	1,393	98	1,330
France	46	907	125	1,883	42	792	119	1,814	4	115	6	69
West Germany	62	867	90	1,262	54	809	79	1,139	8	58	11	123
Netherlands	15	416	104	1,588	6	84	76	1,017	9	332	28	571
United Kingdom	50	932	38	469	10	196	19	181	40	736	19	289
Other Europe	181	883	311	1,531	17	93	163	1,155	164	790	148	376
Oceania	477	4,980	671	7,550	206	1,577	305	2,337	271	3,403	366	5,213
Australia	336	3,794	543	6,604	171	1,423	211	1,672	165	2,370	332	4,932
New Zealand	33	367	34	589	13	39	21	185	20	328	13	404
North America	252	5,550	142	2,979	77	1,698	93	2,032	175	3,852	49	948
USA	159	3,708	110	2,621	20	428	72	1,767	139	3,280	38	854
Central & South America	195	3,532	63	1,117	81	597	27	369	114	2,935	36	748

Note : See note to Table 11.4.

Source: Port of Singapore Authority
with effect from July 1986

11.6 SEA CARGO DISCHARGED AND LOADED, 1978-1988

Thousand Freight Tonnes

Year	Discharged			Loaded		
	Total	General Cargo & Other Bulk Cargo	Mineral Oil-in-Bulk	Total	General Cargo & Other Bulk Cargo	Mineral Oil-in-Bulk
1978	44,832.5	13,237.8	31,594.7	28,506.7	9,082.0	19,424.7
1979	48,424.4	15,745.2	32,679.2	31,388.4	10,762.1	20,626.3
1980	48,550.0	16,917.3	31,632.7	32,412.5	11,553.4	20,859.1
1981	53,598.7	18,419.5	35,179.2	33,745.1	12,120.6	21,624.5
1982	59,995.9	21,088.6	38,907.3	35,665.0	12,610.2	23,054.8
1983	63,848.9	23,579.0	40,269.9	36,277.6	12,987.0	23,290.6
1984	63,849.0	24,649.6	39,199.4	40,344.4	16,368.2	23,976.2
1985	59,236.5	20,806.5	38,430.0	40,308.7	15,128.1	25,180.6
1986	67,121.2	23,227.5	43,893.7	45,707.5	16,892.6	28,814.9
1987	71,297.8	25,099.0	46,198.9	46,997.6	19,599.1	27,398.5
1988	84,172.9	31,338.5	52,834.5	57,791.8	27,124.7	30,667.1

Note : Data on sea cargo loaded exclude ship's stores and mineral oil supplied as bunker fuel to vessels.

Source : Port of Singapore Authority
with effect from July 1986

**11.7 SEA CARGO DISCHARGED AND LOADED BY REGION AND SELECTED COUNTRY OF ORIGIN
AND DESTINATION, 1988**

Thousand Freight Tonnes

Region /Country of Origin or Destination	Discharged			Loaded		
	Total	General & Other Bulk Cargo	Mineral Oil-in-bulk	Total	General & Other Bulk Cargo	Mineral Oil-in-bulk
All Countries	84,172.9	31,338.5	52,834.5	57,791.8	27,124.7	30,667.1
South East Asia	15,354.3	7,692.8	7,661.5	17,167.3	6,363.2	10,804.1
North East Asia	15,768.0	9,542.6	6,225.4	20,603.1	6,328.1	14,275.0
China	6,622.9	1,087.1	5,535.8	2,108.1	714.1	1,394.0
Hong Kong	1,735.2	1,698.7	36.5	6,834.3	2,024.9	4,809.4
Japan	4,144.6	4,049.2	95.4	9,329.5	2,082.5	7,247.0
Taiwan	2,153.9	1,881.2	272.7	1,495.2	1,022.4	472.8
South Asia	1,804.7	1,401.3	403.4	2,793.9	2,195.6	598.3
Middle East	35,226.0	790.0	34,436.0	2,782.0	1,971.3	810.7
Bahrain	2,246.8	22.5	2,224.3	123.1	63.8	59.3
Iran	3,179.0	0.6	3,178.3	364.1	34.4	329.7
Kuwait	6,364.5	142.6	6,222.0	176.2	176.2	-
Saudi Arabia	16,405.9	308.7	16,097.2	858.5	649.8	208.7
Africa	1,067.7	839.2	228.5	1,287.1	1,190.5	96.6
EEC	5,050.0	4,857.2	192.8	4,324.6	4,249.3	75.3
France	574.5	524.1	50.4	609.9	608.4	1.5
West Germany	1,324.9	1,320.4	4.5	997.2	996.7	0.5
Netherlands	918.1	914.6	3.6	942.3	942.3	-
United Kingdom	1,005.5	887.2	118.3	878.8	847.4	31.4
Other Europe	1,994.2	539.8	1,454.4	515.7	367.4	148.3
Oceania	3,055.9	1,553.7	1,502.2	3,866.0	1,431.5	2,434.5
Australia	2,753.7	1,301.8	1,451.9	2,617.0	1,065.3	1,551.7
New Zealand	212.2	212.2	-	185.3	161.2	24.0
North America	4,008.2	3,291.6	716.6	4,129.3	2,705.0	1,424.3
USA	3,444.7	2,728.1	716.6	3,523.3	2,576.1	947.2
Central & South America	843.9	830.2	13.6	322.8	322.8	-

Note : See note to Table 11.6.

Source : Port of Singapore Authority
with effect from July 1986

11.8 CIVIL AIRCRAFT LANDINGS, PASSENGERS AND MAIL, 1978-1988

Year	Aircraft Landings	Passengers			Mail	
		Arrival	Departure	In Transit	In-coming	Out-going
	Number	Persons			Tonnes	
1978	35,376	2,410,255	2,404,128	935,415	2,746	3,267
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	1,188,854	4,359	5,102

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

**11.9 AIR CARGO DISCHARGED AND LOADED BY REGION AND SELECTED COUNTRY
OF ORIGIN AND DESTINATION, 1983-1988**

Tonnes

Region/Country of Origin or Destination	1983		1984		1985		1986		1987		1988	
	Discharged	Loaded	Discharged	Loaded	Discharged	Loaded	Discharged	Loaded	Discharged	Loaded	Discharged	Loaded
TOTAL	144,722	116,203	163,726	134,211	167,388	132,631	192,624	160,184	222,160	196,937	263,639	248,868
South East Asia	36,231	38,255	42,102	41,771	41,142	40,161	47,888	38,587	61,838	43,027	77,668	59,149
Malaysia	6,538	11,488	8,174	14,619	7,499	14,252	10,004	12,566	12,617	13,655	15,917	15,125
Philippines	3,041	2,730	3,884	3,648	3,476	3,686	3,248	3,810	4,055	4,990	4,423	5,419
Thailand	11,332	5,531	13,770	6,161	15,506	6,057	17,664	7,015	21,093	9,402	22,599	16,070
North East Asia	42,480	22,534	46,269	29,168	46,021	29,290	57,603	38,663	66,112	51,859	79,912	69,529
Hong Kong	11,584	8,668	11,235	9,135	11,152	8,901	13,992	10,481	14,603	14,527	15,566	18,827
Japan	20,207	9,599	18,214	12,970	19,078	12,442	22,205	17,168	27,763	22,920	35,934	32,423
Taiwan	8,526	1,658	12,645	2,493	11,353	2,660	15,270	4,229	15,770	5,956	18,274	7,109
South Asia	5,127	6,488	6,466	8,087	6,572	8,161	9,160	9,049	12,879	11,447	14,256	13,816
India	3,104	3,226	3,748	4,041	4,220	4,590	5,457	4,698	8,749	6,223	9,359	7,545
West Asia	3,263	4,148	2,859	4,281	1,483	3,791	1,632	4,444	1,345	5,526	2,060	6,014
Oceania	18,950	10,596	21,894	12,397	27,678	12,363	31,402	16,509	29,882	19,185	28,893	23,597
Australia	16,135	8,018	18,321	9,397	23,459	9,448	27,760	13,201	26,828	15,044	26,082	19,174
New Zealand	2,773	2,211	3,470	2,662	4,098	2,494	3,508	2,857	2,871	3,598	2,541	3,264
Europe	25,405	24,767	30,643	26,697	29,925	27,455	30,323	37,710	34,794	46,918	41,315	52,945
France	1,658	2,130	2,022	2,446	1,986	2,529	2,124	2,888	2,904	3,816	2,424	3,449
Germany, Fed Rep	2,347	3,618	2,721	3,243	2,905	3,040	2,929	4,332	2,938	4,479	3,114	4,026
Netherlands	4,994	4,778	6,360	5,633	6,105	5,452	4,946	7,243	5,588	9,718	7,716	10,077
Scandinavia	2,815	1,558	2,669	1,400	2,756	1,224	2,564	1,973	2,467	2,603	3,554	2,460
Switzerland	2,871	2,877	2,729	3,219	3,193	3,463	3,379	3,625	3,993	3,403	3,338	3,913
United Kingdom	2,774	5,327	3,010	6,123	2,796	6,670	3,059	8,851	4,614	9,826	7,074	11,771
North America	13,266	9,411	13,493	11,782	14,432	11,084	14,238	14,620	14,811	17,595	18,880	20,912
United States	13,266	9,411	13,493	11,782	14,294	11,017	14,067	14,463	14,737	17,354	18,259	19,942
Other Regions	-	4	-	28	135	326	378	602	500	1,379	653	2,906

Note : Data exclude passenger baggage, diplomatic cargo and aircraft stores.

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

**11.10 AIR PASSENGERS BY REGION AND SELECTED COUNTRY OF EMBARKATION
AND DISEMBARKATION, 1983-1988**

Number

Region/Country of Embarkation or Disembarkation	1983		1984		1985		1986		1987		1988	
	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures
TOTAL	3,830,720	3,855,604	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
South East Asia	2,075,747	2,040,960	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
ASEAN	2,073,973	2,038,462	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
North East Asia	711,901	711,627	788,661	792,226	849,960	843,982	879,376	855,315	1,018,718	999,732	1,136,032	1,130,118
Hong Kong	360,774	339,837	402,072	382,020	417,847	395,063	436,638	402,003	465,033	434,589	449,992	427,977
Japan	249,100	267,158	260,915	275,998	292,770	305,176	293,489	304,056	375,224	382,762	476,344	485,896
Taiwan	80,472	88,052	97,709	105,825	95,990	96,324	100,420	96,586	120,014	118,127	134,804	141,812
South Asia	178,852	200,359	216,909	233,580	226,473	254,058	290,639	315,477	339,243	350,837	340,938	345,091
India	102,436	117,198	129,582	143,329	154,722	171,218	186,261	203,145	223,527	235,864	216,257	222,044
Pakistan	10,410	12,573	12,129	14,201	16,545	19,278	22,420	24,022	29,256	27,273	26,965	27,160
Sri Lanka	60,589	64,305	61,033	61,606	31,491	33,750	58,683	61,159	51,281	50,852	55,830	51,392
West Asia	69,468	72,951	91,745	99,333	90,734	97,260	75,607	69,357	66,731	66,683	68,966	68,715
Oceania	359,772	371,072	391,175	421,294	425,402	465,093	489,188	546,796	557,430	610,595	675,654	723,307
Australia	301,923	308,378	329,238	352,676	354,005	390,631	411,567	467,707	467,769	515,890	571,726	615,899
New Zealand	47,586	52,535	51,286	57,825	57,103	60,836	62,922	65,411	74,880	79,557	84,752	88,220
Europe	364,518	375,233	398,917	406,010	447,414	452,053	478,139	476,907	526,400	523,982	616,325	659,868
France	29,215	31,153	27,706	31,644	31,499	34,833	31,136	34,220	30,263	35,061	32,824	38,441
Germany, Fed Rep	37,521	37,486	43,485	44,407	41,537	47,545	46,150	53,684	47,704	57,926	68,653	74,119
Netherlands	55,227	47,370	59,683	54,620	63,592	56,072	60,768	53,945	62,062	54,148	74,364	68,851
Scandinavia	19,338	20,241	20,736	23,869	24,381	28,357	26,192	29,318	29,175	29,679	33,153	34,249
Switzerland	28,149	34,550	32,005	38,882	31,380	41,409	31,360	38,065	36,796	42,829	46,081	52,570
United Kingdom	130,719	136,848	146,884	131,267	177,613	156,220	193,465	170,504	211,118	185,586	228,418	237,541
North America	70,462	83,402	72,864	83,666	67,704	77,340	74,552	79,453	93,012	94,722	112,017	115,461
United States	70,462	83,402	72,864	83,666	66,111	75,505	72,337	77,365	91,022	92,919	105,053	107,205
Other Regions	-	-	637	1,103	12,556	14,469	20,664	20,309	36,643	33,894	44,357	41,961

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

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

11.11 VISITOR ARRIVALS BY CITIZENSHIP, 1978-1988
(By Air, Sea and Land)

Thousand

Citizenship	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	2,047.2	2,247.1	2,562.1	2,828.9	2,956.7	2,853.6	2,991.4	3,031.0	3,191.1	3,678.8	4,186.1
South East Asia	729.7	777.7	883.1	971.9	1,043.2	935.1	934.9	898.1	891.2	969.0	1,056.0
ASEAN	727.8	775.0	879.4	966.8	1,036.5	928.3	927.5	890.4	882.8	959.6	1,045.5
North East Asia	297.5	375.0	433.8	507.0	559.2	555.8	574.8	582.4	633.5	845.0	1,014.7
Hong Kong (UK Dependency)	33.8	41.0	54.2	58.3	64.1	60.1	62.2	61.0	64.7	77.2	76.2
Japan	218.7	261.0	298.6	365.2	389.1	381.4	383.3	390.2	417.9	556.6	700.3
Taiwan	34.8	59.0	63.0	58.5	67.6	69.9	84.2	87.0	104.0	152.8	155.7
South Asia	127.6	161.8	194.2	227.0	218.8	255.9	298.4	320.2	349.2	367.3	342.2
India	97.8	124.5	149.6	173.8	168.4	202.7	237.7	259.0	279.1	284.0	242.1
Pakistan	9.8	12.9	17.1	17.7	16.8	18.0	21.5	23.0	28.3	36.0	36.6
Sri Lanka	14.5	16.9	18.8	24.3	24.1	25.8	28.4	28.3	32.0	32.7	43.0
West Asia	21.2	24.1	30.4	29.9	29.5	27.4	36.1	51.9	48.8	52.0	65.8
Oceania	249.7	240.7	275.5	287.5	305.8	284.2	310.9	319.4	335.5	359.0	386.6
Australia	204.8	187.8	216.9	231.8	246.5	227.1	252.2	261.9	273.3	283.4	306.7
New Zealand	43.2	50.9	56.1	52.9	56.7	54.4	56.2	54.2	58.8	71.8	74.7
Europe	420.0	472.5	517.0	552.2	537.2	526.2	555.7	577.0	634.3	742.1	941.9
France	45.0	50.5	49.3	53.2	49.5	44.8	50.2	49.5	53.4	60.5	79.1
Germany, Fed Rep	60.3	68.7	78.7	85.1	73.3	72.7	78.6	79.3	84.8	99.9	125.7
Netherlands	45.9	51.3	56.6	59.0	50.9	50.7	50.0	50.0	52.1	58.0	74.6
Scandinavia	25.6	30.4	36.5	40.9	41.1	42.9	46.1	50.7	59.5	74.1	93.2
Switzerland	19.1	19.2	21.9	25.1	25.8	24.7	26.9	30.8	34.3	38.9	53.3
United Kingdom	168.0	182.3	197.6	215.8	227.2	222.8	223.6	229.9	243.6	272.0	334.2
America	186.2	180.0	206.1	221.9	226.4	241.8	247.2	248.8	260.3	286.6	307.8
United States	153.8	144.6	163.5	172.4	181.1	196.2	201.1	197.8	208.3	228.5	243.5
Canada	21.9	22.5	26.5	30.6	32.3	35.3	34.1	38.0	39.7	43.8	49.5
Africa	6.0	6.9	8.5	10.3	10.6	10.8	11.3	10.9	13.7	27.1	40.1
Other Regions	9.3	8.4	13.5	21.2	26.0	16.4	22.1	22.3	24.6	30.7	31.0

Note : Figures exclude Malaysian arrivals by land.

Source : Singapore Tourist Promotion Board

11.12 VISITOR ARRIVALS BY REGION AND SELECTED COUNTRY OF RESIDENCE, 1978-1988
(By Air, Sea and Land)

Thousand

Region/Country of Residence	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	2,047.2	2,247.1	2,562.1	2,828.9	2,956.7	2,853.6	2,991.4	3,031.0	3,191.1	3,678.8	4,186.1
South East Asia	857.2	912.2	1,032.0	1,122.1	1,189.8	1,069.2	1,064.0	1,015.9	1,009.3	1,083.3	1,168.5
ASEAN	855.3	909.3	1,028.1	1,116.7	1,182.8	1,062.6	1,057.0	1,008.5	1,001.3	1,074.0	1,158.0
North East Asia	300.1	377.3	442.7	519.3	572.5	572.7	590.9	600.4	654.2	870.2	1,037.2
Hong Kong	52.1	62.7	82.5	85.8	92.9	92.9	98.5	97.7	104.8	125.1	124.1
Japan	209.3	250.3	287.4	354.8	378.5	370.6	369.5	377.7	404.3	541.4	682.4
Taiwan	30.4	51.7	56.3	55.3	65.1	68.0	80.3	82.8	100.4	148.4	152.1
South Asia	83.7	104.3	127.3	168.2	169.7	204.6	252.2	280.4	307.0	328.0	307.6
India	55.8	70.4	85.5	116.9	121.5	154.4	192.7	218.5	236.6	243.5	203.7
Pakistan	8.2	11.0	15.1	15.4	14.4	15.7	19.1	20.9	26.1	33.5	33.8
Sri Lanka	11.1	13.5	15.5	21.0	21.2	23.1	25.7	25.2	28.1	28.4	38.2
West Asia	28.9	36.0	44.3	44.2	47.0	46.5	52.1	64.0	60.6	62.8	73.4
Oceania	287.0	275.5	311.8	326.0	351.2	325.4	359.1	368.8	390.4	421.2	458.0
Australia	228.9	206.4	239.2	258.6	282.0	259.4	291.1	300.8	315.9	330.2	361.5
New Zealand	51.7	60.8	63.0	58.0	59.9	57.0	58.9	57.5	62.3	76.5	79.1
Europe	320.6	375.9	413.5	447.5	424.5	418.1	445.0	468.5	520.1	619.3	810.7
France	37.0	42.0	40.2	44.7	41.1	37.1	42.2	41.4	43.6	47.5	63.1
Germany, Fed Rep	55.0	63.5	73.0	79.8	68.1	67.3	72.8	73.9	78.4	93.3	118.5
Netherlands	36.7	42.2	47.1	49.6	41.4	40.6	40.2	40.5	42.7	48.2	63.9
Scandinavia	21.9	26.6	32.1	36.1	36.0	37.2	40.8	45.4	53.6	67.9	86.9
Switzerland	19.0	19.3	22.0	25.5	26.2	25.4	27.9	32.2	35.6	40.4	56.3
United Kingdom	99.8	117.3	128.4	145.0	149.9	150.4	150.2	158.4	170.1	195.2	253.6
America	154.1	148.5	172.0	185.3	186.7	204.1	213.9	219.0	231.7	260.6	281.8
United States	126.3	118.7	135.8	143.6	150.7	167.4	176.9	176.3	188.2	211.4	226.8
Canada	18.1	17.9	20.9	24.2	24.9	27.8	26.9	31.0	32.6	36.6	42.6
Africa	7.6	8.7	10.5	12.6	12.6	12.5	13.5	13.0	15.9	31.5	46.6
Other Regions	8.0	8.7	8.0	3.7	2.7	0.5	0.7	1.0	1.9	1.9	2.3

Note : See note to Table 11.11.

Source : Singapore Tourist Promotion Board

11.13 VISITOR ARRIVALS BY REGION AND SELECTED COUNTRY OF EMBARKATION, 1978-1988
(By Air, Sea and Land)

Thousand

Region/Country of Embarkation	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	2,047.2	2,247.1	2,562.1	2,828.9	2,956.7	2,853.6	2,991.4	3,031.0	3,191.1	3,678.8	4,186.1
South East Asia	1,331.4	1,422.5	1,617.1	1,760.6	1,820.3	1,696.8	1,707.5	1,669.5	1,697.2	1,930.5	2,172.0
ASEAN	1,330.4	1,420.1	1,613.9	1,757.9	1,818.0	1,695.1	1,706.0	1,668.0	1,695.5	1,928.9	2,170.8
North East Asia	249.0	307.9	366.0	432.9	458.0	452.1	479.0	505.6	535.3	665.9	799.3
Hong Kong	118.1	125.6	153.4	166.9	171.2	178.3	196.5	196.7	206.4	233.0	246.6
Japan	106.3	148.3	173.8	224.4	238.2	218.6	216.8	230.9	243.2	327.5	420.3
Taiwan	22.1	29.1	32.5	34.0	36.8	40.7	46.3	46.9	49.3	61.6	69.5
South Asia	67.8	80.7	88.7	108.3	114.8	132.3	161.2	168.8	216.3	245.2	230.7
India	40.9	45.7	46.0	58.3	59.5	78.2	102.4	126.1	148.5	172.3	159.4
Pakistan	5.4	6.7	8.5	7.4	8.3	8.4	10.8	13.4	18.7	23.2	20.1
Sri Lanka	19.9	25.6	30.6	39.1	44.5	43.1	44.8	25.3	44.3	37.5	36.6
West Asia	27.0	35.4	35.7	38.2	39.1	40.5	48.1	47.9	48.1	48.0	55.7
Oceania	161.9	165.3	194.9	214.9	240.2	235.3	273.1	289.2	315.2	357.2	425.3
Australia	131.3	128.1	153.9	176.6	199.9	192.6	228.3	240.3	265.8	297.7	354.7
New Zealand	27.7	32.5	35.4	31.7	32.5	34.2	36.5	38.8	38.6	48.2	56.9
Europe	179.4	200.8	222.7	230.8	240.3	245.4	272.7	295.5	312.8	345.1	396.1
France	14.1	15.5	15.2	18.6	19.0	19.6	21.6	22.0	22.0	21.7	24.5
Germany, Fed Rep	19.8	24.0	29.7	31.6	24.1	25.7	30.2	30.5	34.7	38.5	49.4
Netherlands	25.4	28.7	33.3	33.2	32.0	33.4	36.4	40.0	38.7	40.2	47.9
Scandinavia	6.9	7.9	10.1	11.7	11.7	12.4	13.1	15.0	18.1	20.8	23.7
Switzerland	7.3	8.0	10.4	14.2	15.3	16.8	19.4	18.5	19.3	22.3	28.3
United Kingdom	78.3	83.5	88.7	87.8	101.9	103.6	113.8	126.5	133.3	143.7	154.6
America	7.0	15.2	25.0	30.0	30.9	33.1	33.1	32.3	36.1	43.8	53.3
United States	6.6	14.6	24.3	29.3	30.1	32.5	32.5	31.1	34.6	42.8	49.7
Canada	0.3	0.2	0.3	0.3	0.3	0.3	0.3	1.0	1.2	0.7	3.1
Africa	0.5	0.9	1.2	1.7	1.5	1.2	1.1	7.1	14.4	27.2	34.9
Other Regions	23.2	18.4	10.8	11.5	11.6	16.9	15.6	15.1	15.7	15.9	18.8

Note : See note to Table 11.11.

Source : Singapore Tourist Promotion Board

11.14 VISITOR ARRIVALS BY PURPOSE OF VISIT, 1978-1988
(By Air, Sea and Land)

Number

Year	Total	Holiday	Business	Business & Holiday	Others
1978	2,047,224	1,295,450	230,447	154,759	366,568
1979	2,247,091	1,427,034	265,088	157,143	397,826
1980	2,562,085	1,644,209	300,901	166,093	450,882
1981	2,828,899	1,863,560	334,211	170,129	460,999
1982	2,956,690	1,942,726	365,365	166,835	481,764
1983	2,853,577	1,793,034	377,582	160,334	522,627
1984	2,991,430	1,855,708	407,206	175,678	552,838
1985	3,030,970	1,904,345	395,655	162,441	568,529
1986	3,191,058	2,039,015	403,474	159,941	588,628
1987	3,678,809	2,443,464	456,357	172,253	606,735
1988	4,186,091	2,786,192	531,931	187,227	680,741

Note : See note to Table 11.11.

Source : Singapore Tourist Promotion Board

**11.15 AVERAGE LENGTH OF STAY OF VISITORS BY PURPOSE OF VISIT AND
TYPE OF ACCOMMODATION, 1978-1988**

Days

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	4.5	4.8	4.8	4.7	4.5	4.4	4.8	4.5	4.3	4.0	4.0
Purpose of Visit											
Holiday	4.4	4.8	4.9	4.8	4.7	4.7	4.8	4.6	4.4	4.1	4.1
Business	4.4	4.6	4.5	4.4	4.2	4.2	4.4	4.2	4.1	4.1	4.0
Business & Holiday	5.2	5.6	5.7	5.6	5.3	5.4	5.7	5.3	5.1	4.9	4.9
In Transit	1.1	1.1	1.0	0.9	0.8	0.9	0.9	0.8	0.8	0.8	0.8
Convention	5.3	5.2	4.9	5.2	5.1	5.6	5.0	4.9	5.3	5.2	4.7
Others	11.1	10.9	8.8	8.6	6.4	6.8	9.6	7.4	6.9	6.4	6.1
Type of Accommodation											
Hotel	3.4	3.6	3.7	3.7	3.7	3.6	3.6	3.5	3.4	3.4	3.4
Residence of Friends/Relatives	9.1	10.0	10.3	9.9	8.9	8.9	9.9	9.7	9.2	8.8	9.2
Own Residence	23.7	20.4	17.5	14.6	11.4	11.9	18.4	13.5	15.0	13.4	12.8
Others	5.1	6.0	6.1	5.9	5.3	5.6	7.7	6.4	4.1	5.6	5.3

Source : Singapore Tourist Promotion Board

11.16 VISITOR ARRIVALS, HOTELS AND CESS COLLECTION, 1978-1988

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	
1978	2,047.2	72	10,652	86.5	5,758.4	12,574.3
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	2,828.9	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

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

Source : Singapore Tourist Promotion Board
Customs & Excise Department

11.17 RETURNING SINGAPORE RESIDENTS BY REGION AND SELECTED COUNTRY OF EMBARKATION, 1978-1988
(By Air and Sea)

Number

Region/Country of Embarkation	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	230,167	265,283	299,876	330,118	385,728	433,849	481,855	526,016	581,131	723,791	844,491
South East Asia	117,531	139,747	159,673	174,626	201,567	219,382	243,839	263,401	302,552	402,924	517,244
ASEAN	117,449	139,599	159,560	174,505	201,410	219,244	243,691	263,233	302,334	402,734	517,080
North East Asia	44,854	56,921	71,069	81,202	100,079	120,070	136,834	155,227	155,827	176,159	170,492
Hong Kong	32,255	40,177	50,458	55,890	70,663	86,774	99,284	112,441	110,847	121,939	104,877
Japan	3,288	4,765	6,936	9,853	12,614	15,668	16,891	17,898	15,059	16,676	21,227
Taiwan	7,511	9,672	11,174	12,931	14,256	15,155	17,544	16,153	16,148	18,621	20,928
South Asia	14,319	17,913	22,328	23,336	23,600	24,503	25,223	24,463	27,433	26,463	27,139
India	12,314	14,591	16,887	17,102	17,678	19,034	20,452	20,073	22,025	21,442	21,979
Pakistan	348	463	760	858	716	647	654	1,451	984	947	897
Sri Lanka	1,575	2,778	4,557	5,167	4,927	4,627	3,822	2,597	3,878	3,535	3,759
West Asia	4,411	4,502	4,704	4,630	4,932	6,658	6,598	7,154	6,690	7,419	7,438
Oceania	8,253	9,669	13,135	15,289	19,377	24,997	27,133	30,948	42,578	54,151	60,224
Australia	6,807	8,117	11,314	13,376	17,251	22,156	23,605	25,916	34,009	44,451	49,077
New Zealand	1,352	1,360	1,705	1,779	1,977	2,431	3,199	4,584	7,913	9,013	10,122
Europe	16,838	18,656	20,299	20,791	24,182	26,081	30,137	32,900	31,580	37,154	38,475
France	1,077	1,205	1,366	1,562	1,840	2,328	2,654	2,702	2,474	2,607	2,823
Germany, Fed Rep	889	1,124	1,444	1,403	1,716	2,108	2,108	2,003	2,460	2,821	3,637
Netherlands	1,456	1,824	2,105	2,064	2,374	2,512	2,762	2,814	2,760	2,701	2,938
Scandinavia	487	555	825	896	881	1,154	1,282	1,376	1,332	1,793	1,695
Switzerland	490	593	777	1,241	1,479	1,777	2,324	1,868	1,688	2,571	2,786
United Kingdom	10,907	11,652	11,889	11,498	13,160	14,023	16,282	19,020	17,445	20,510	20,290
America	1,114	4,018	6,683	8,659	9,962	10,479	10,454	10,424	12,325	16,163	19,837
United States	1,046	3,860	6,485	8,428	9,662	10,277	10,178	10,038	11,803	15,614	18,733
Canada	47	98	186	211	269	188	248	368	498	531	1,074
Africa	27	76	30	39	52	59	88	472	908	895	1,046
Other Regions	22,820	13,781	1,955	1,546	1,977	1,620	1,549	1,027	1,238	2,463	2,596

Note : Figures exclude returning residents embarking at ports in Peninsular Malaysia.

Source : Singapore Tourist Promotion Board

**11.18 RETURNING SINGAPORE RESIDENTS BY PURPOSE OF TRAVEL
AND LENGTH OF STAY OVERSEAS, 1978-1988
(By Air and Sea)**

Number

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	230,167	265,283	299,876	330,118	385,728	433,849	481,855	526,016	581,131	723,791	844,491
Purpose of Travel Overseas											
Holiday	132,446	155,884	171,960	189,706	216,489	240,591	263,006	295,404	333,097	439,954	515,290
Business & Holiday	63,757	58,068	62,129	71,183	82,376	102,034	125,761	135,558	146,890	158,051	182,473
Education	5,578	14,738	18,042	18,947	20,346	15,935	10,089	10,899	10,876	12,263	13,401
Employment	14,041	10,857	8,133	8,474	9,129	14,615	21,808	19,142	21,675	23,850	26,802
Others	14,345	25,736	39,612	41,808	57,388	60,674	61,191	65,013	68,593	89,673	106,525
Length of Stay Overseas											
Under 1 Week	58,220	72,044	82,000	91,585	110,711	131,067	158,313	188,990	231,328	322,039	410,802
1 - Under 2 Weeks	46,595	56,025	62,107	69,751	85,202	99,495	115,358	124,357	138,641	170,324	174,152
2 - Under 4 Weeks	41,041	50,456	58,051	63,393	74,486	83,781	87,994	94,291	95,071	109,027	105,440
1 - Under 4 Months	31,329	35,433	40,646	40,353	48,779	53,472	57,794	60,584	61,591	66,515	66,639
4 - Under 6 Months	7,375	7,556	7,732	7,659	8,280	7,976	8,933	9,108	9,652	10,823	12,385
6 Months & Over	8,950	8,752	8,204	7,491	9,921	13,230	13,508	10,314	12,148	12,711	14,174
Not Stated	36,657	35,017	41,136	49,886	48,349	44,828	39,955	38,372	32,700	32,352	60,899
Median Length of Stay Overseas (Days)	12.8	12.4	12.3	11.9	11.8	11.5	10.8	10.1	9.2	8.0	7.5

Source : Singapore Tourist Promotion Board

11.19 PUBLIC ROADS, 1978-1988

Kilometres

End of Year	Total Public Roads	Paved Roads					Local Roads Unimproved
		Total	Expressways	Major Arterial Roads	Collector Roads	Local Roads Improved	
1978	2,263	1,908	28	265	142	1,473	355
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

Source : Public Works Department

11.20 MOTOR VEHICLES REGISTERED, 1978-1988

Number

End of Year	Total	Motor Cars		Buses	Goods Vehicles	Motor-cycles & Scooters	Others ²
		Private	Public ¹				
1978	309,384	137,240	9,124	5,874	55,608	98,248	3,290
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

¹ Include taxis, school taxis and private hire cars.

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

Source : Registry of Vehicles

11.21 ROAD CASUALTIES, 1978-1988

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
1978	278	12,509	103	2,555	27	931	87	4,435	61	4,509	-	79
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

Source : Police Department

11.22 POSTAL ARTICLES HANDLED, 1978-1988

Thousand

Year	Total	Ordinary Mail			Registered Mail	Parcel Mail	Local Urgent Mail	Express Mail	Speedpost Mail ¹
		Domestic	Surface	Air					
1978	393,439	240,250	37,584	100,784	12,686	1,588	75	469	3
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

1 Speedpost Service was introduced in April 1978.

Source : Singapore Telecom

11.23 TELECOMMUNICATIONS, 1978-1988

Thousand

Year	Outgoing Telegrams		Outgoing Telex Calls		International Telephone Calls ¹	Total Number of Telephones Installed ²
	Peninsular Malaysia	Other Countries	Peninsular Malaysia	Other Countries		
1978	45	739	304	3,673	1,760	540
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

1 Exclude calls to Peninsular Malaysia.

Source : Singapore Telecom

2 End of Period.

CHART 15

SEA CARGO HANDLED, 1978-1988

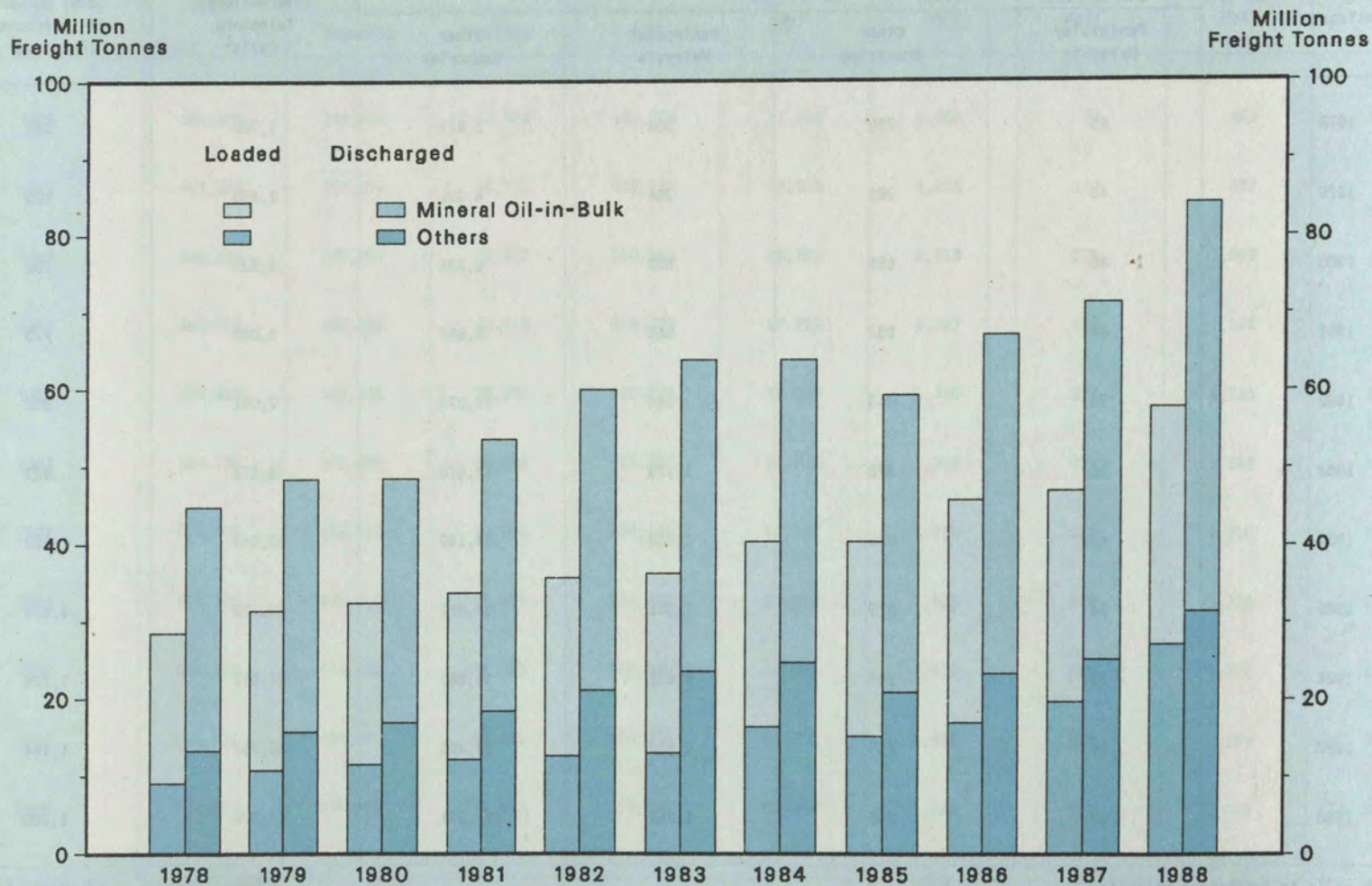


CHART 16

AIR CARGO HANDLED, 1978-1988

Thousand Tonnes

Thousand Tonnes

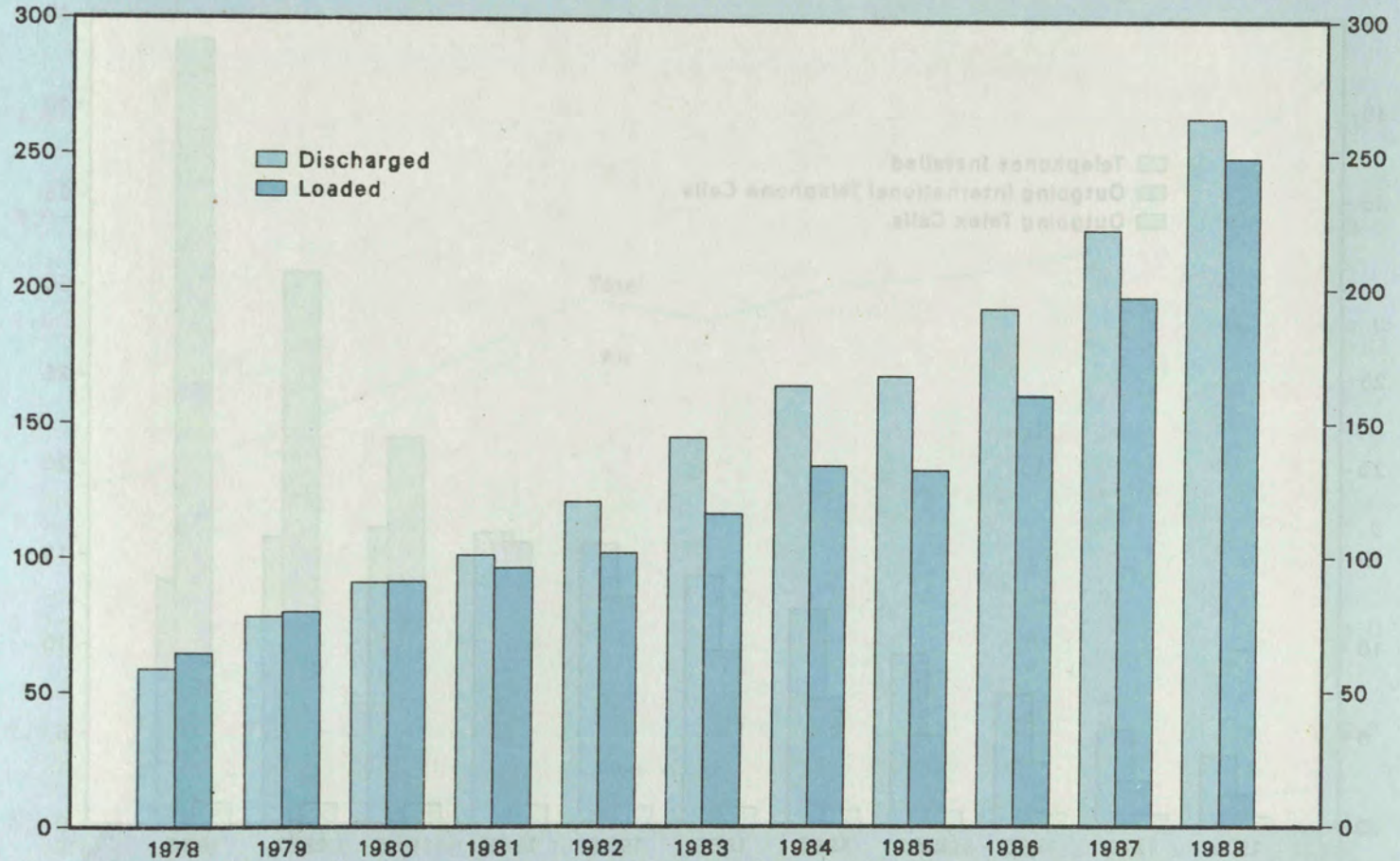


CHART 17

TELECOMMUNICATIONS, 1978-1988

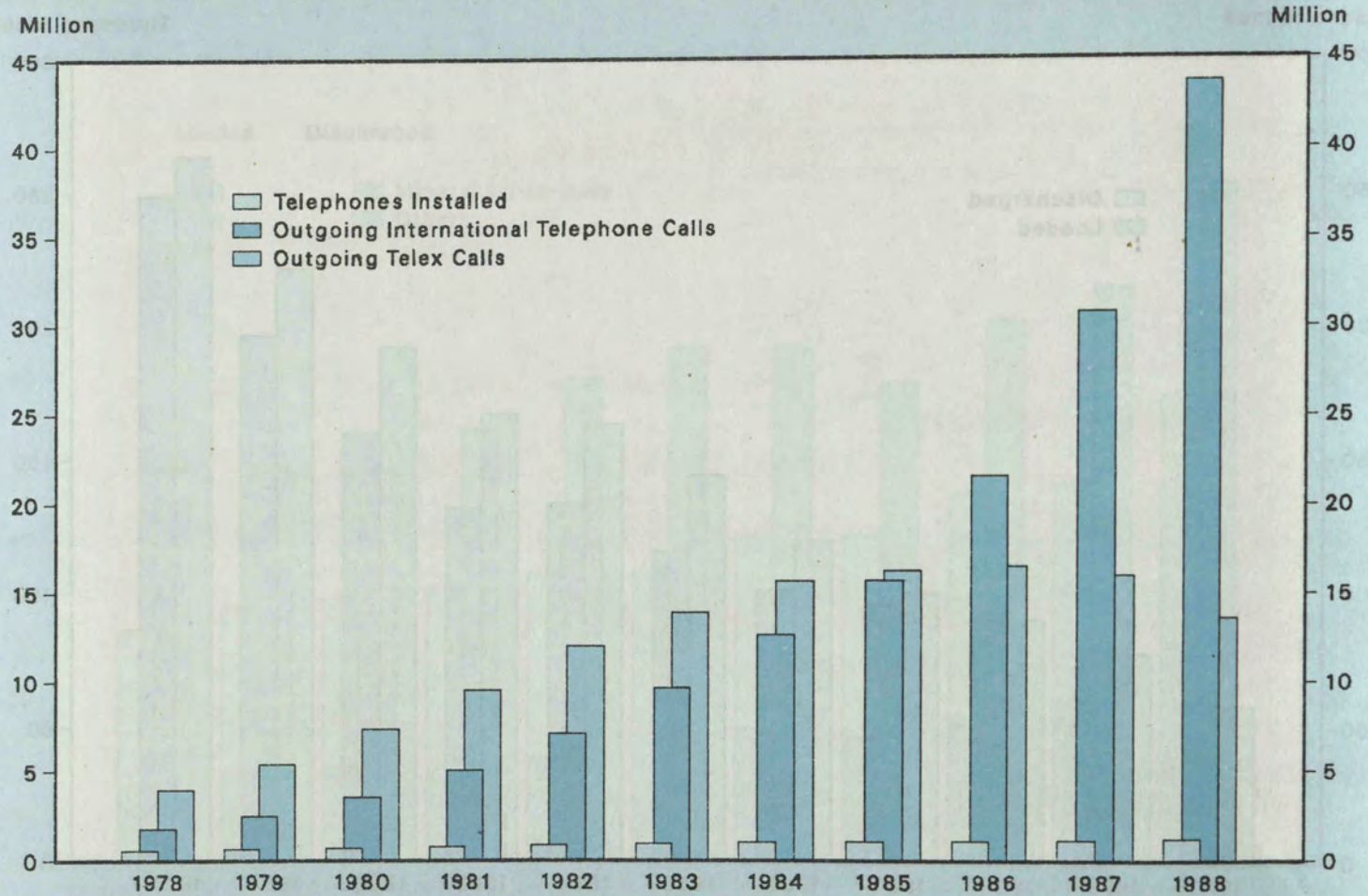


CHART 18

VISITOR ARRIVALS BY AIR AND SEA, 1978-1988

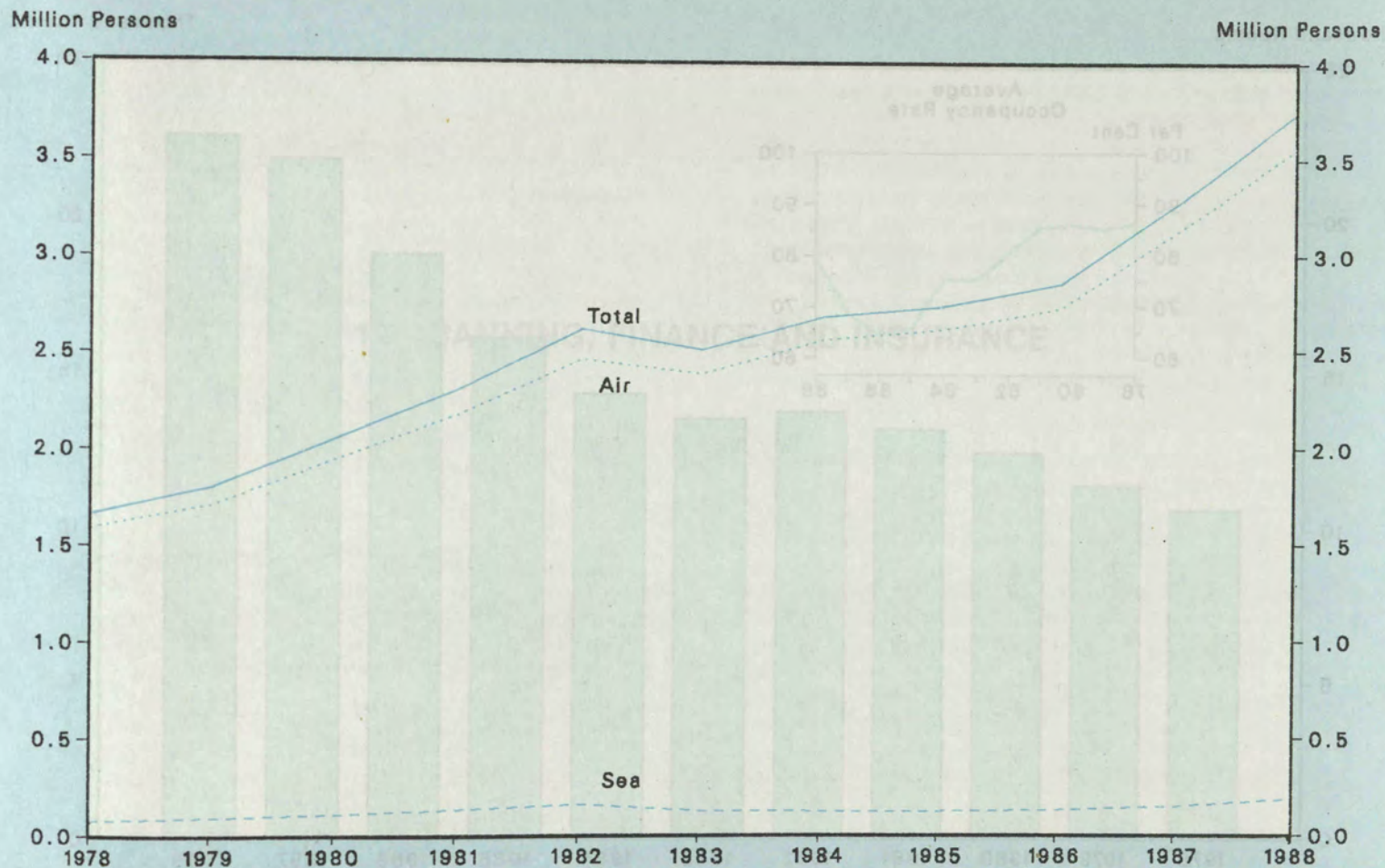
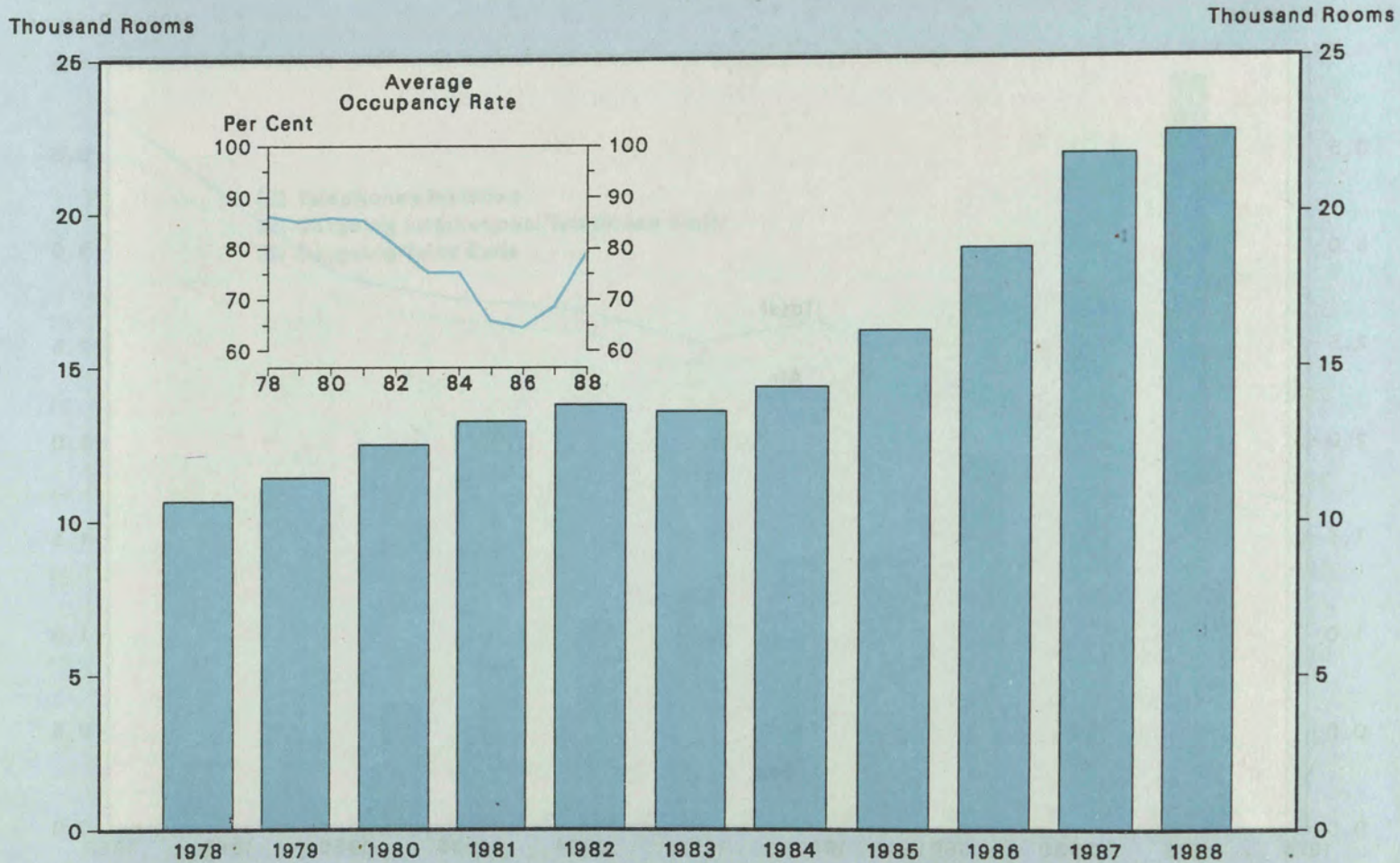


CHART 19

HOTEL ROOMS AND OCCUPANCY RATE, 1978-1988



The Post Office Savings Bank (POSB) was established in 1962 under the Post Office Savings Bank Act (Chapter 247). The principal business of the POSB is to provide savings facilities for the public.

The POSB is a statutory corporation established by the POSB Act. It is responsible for the management and development of the insurance business in Singapore. It is also responsible for the management and development of the insurance business in Singapore.

The POSB is a statutory corporation established by the POSB Act. It is responsible for the management and development of the insurance business in Singapore. It is also responsible for the management and development of the insurance business in Singapore.

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 Commission, which contains information on the performance of the insurance industry in Singapore.

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

Before 1971, the various monetary functions formerly associated with a central bank were performed by several government departments and agencies. To centralise these functions, the Monetary Authority of Singapore (MAS) was established in 1971 to exercise the central bank's functions for the currency, banking, finance and insurance.

The MAS is a statutory corporation established by the MAS Act. It is responsible for the management and development of the insurance business in Singapore. It is also responsible for the management and development of the insurance business in Singapore.

Banking and finance company statistics are compiled from information submitted to the MAS by banks and finance companies. The MAS also publishes the Annual Report of the Insurance Commission, which contains information on the performance of the insurance industry in Singapore.

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 186 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. Money supply (M2), a broad definition, consists of 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, 1978-1988

End of Year	Gross Circulation			Active Circulation ¹	Ratio of Active to Gross Circulation
	Total	Notes	Coins		
	Million Dollars				Per Cent
1978	2,822.0	2,675.8	146.2	2,582.8	91.5
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

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, 1978-1988

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)
1978	13,830.1	1,189.6	1,778.2	10,862.3	5,936.4	4,533.2	195.2	1,208.0	4,925.9	2,582.8	2,343.1
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	52,858.2	5,092.9	5,677.7	42,087.5	30,129.8	20,898.1	846.8	8,385.0	11,957.7	5,996.7	5,961.0

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, 1978-1988
(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	
1978	513.8	1,505.4	542.2	963.2	120.8	1,868.1	-1,747.3	1,365.2	-668.9	601.6
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

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, 1978-1988

Million Dollars

End of Year	Total Foreign Reserves	Special Drawing Rights ¹	Reserve Position in the International Monetary Fund	Gold & Foreign Exchange
1978	11,473.8	-	38.3	11,435.5
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

¹ Singapore received its first allocation of Special Drawing Rights in January 1979.

Source : The Monetary Authority of Singapore

12.5 EXCHANGE RATES, 1978-1988

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
1978	0.9821	2.2740	4.3613	1.1332	0.5042	1.0885	0.4698	6.1374	0.4858	2.6027
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

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

Source : The Monetary Authority of Singapore

12.6 ASSETS OF BANKS, 1978-1988
(End of Period)

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total	21,218.3	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
Cash	154.6	161.1	272.4	222.4	247.9	275.4	291.4	303.5	334.2	328.4	568.3
Amounts Due from Banks	4,331.5	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
In Singapore	1,616.2	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
Outside Singapore ¹	2,715.3	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
Balances with The Monetary Authority of Singapore	633.1	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
Money at Call with Discount Houses ²	623.3	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	198.4	166.2	127.8	89.0	76.9	136.5	133.1	105.0	134.2	135.5	145.8
Investments in Securities & Equities	2,010.1	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
In Singapore	1,944.8	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
Outside Singapore	65.3	51.0	69.2	72.7	123.6	140.4	142.2	192.6	360.4	254.7	247.2
Loans & Advances including Bills Financing	12,226.4	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
Bills Discounted or Purchased	2,827.5	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
Payable outside Singapore	1,424.1	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	1,403.8
Payable in Singapore	1,403.4	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
Loans & Advances	9,398.9	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
All Other Assets	1,040.9	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

¹ Include Asian Currency Units.

² Discount houses ceased operations in May 1987.

Source : The Monetary Authority of Singapore

12.7 LIABILITIES OF BANKS, 1978-1988
(End of Period)

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total	21,218.3	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
Deposits of Non-bank Customers	10,045.7	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
Demand Deposits	2,732.1	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
Fixed Deposits	6,045.3	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
Savings Deposits	1,211.2	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
Other Deposits	57.1	66.3	70.1	83.4	90.2	103.3	108.0	120.7	154.0	244.6	306.9
S\$ Negotiable Certificates of Deposit Issued	455.3	515.0	331.9	404.5	428.0	471.6	300.7	263.6	696.4	896.8	992.6
Amounts Due to Banks	6,624.7	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
In Singapore	1,718.7	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
Outside Singapore ¹	4,906.0	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
All Other Liabilities	4,092.6	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

¹ Include Asian Currency Units.

Source : The Monetary Authority of Singapore

12.8 BANKS' LOANS AND ADVANCES TO NON-BANK CUSTOMERS BY INDUSTRY, 1978-1988
(End of Period)

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total Loans and Advances including Bills Financing	12,226.4	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
Agriculture, Mining & Quarrying	66.6	79.7	83.6	144.2	151.2	132.0	155.0	147.4	101.5	111.2	81.4
Manufacturing	2,941.0	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
Building & Construction ¹	1,395.0	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
General Commerce	5,109.7	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
Transport, Storage & Communications	392.6	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
Financial Institutions	1,015.7	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
Professional & Private Individuals	717.3	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
Others	588.5	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

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, 1978-1988
(End of Period)

Million US Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total Assets	27,040.1	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
Loans to Non-bank Customers	6,376.8	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
Inter-bank Funds	19,829.7	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
In Singapore	866.6	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
Inter-Asian Currency Units	3,718.9	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
Outside Singapore	15,244.2	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
Other Assets	833.5	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
Total Liabilities	27,040.1	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
Deposits of Non-bank Customers	3,599.9	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
Inter-bank Funds	21,987.3	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
In Singapore	1,442.6	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
Inter-Asian Currency Units	3,719.1	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
Outside Singapore	16,825.6	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
Other Liabilities	1,452.9	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

Source : The Monetary Authority of Singapore

12.10 ASSETS AND LIABILITIES OF FINANCE COMPANIES, 1978-1988
(End of Period)

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total Assets	2,017.3	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
Cash	2.5	3.2	4.5	5.0	6.8	8.5	8.3	10.3	9.0	10.8	11.0
Balances with The Monetary Authority of Singapore	86.6	105.7	126.0	170.9	217.2	267.5	313.9	288.4	286.7	271.1	307.2
Deposits with Banks & Other Institutions	373.8	368.7	405.0	707.2	751.6	678.7	862.9	1,002.6	1,520.4	1,592.4	1,527.9
Investments	95.2	111.3	100.5	114.6	120.4	139.8	165.2	151.7	153.2	455.8	518.4
Loans & Advances	1,397.1	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
Hire Purchase Finance	354.3	532.3	754.3	891.7	887.1	904.3	833.2	583.7	420.8	563.0	1,039.7
Housing Loans	446.4	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
Other Loans & Advances	596.4	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
Other Assets	62.1	56.0	72.0	90.1	131.7	152.0	162.0	169.1	235.4	216.1	205.5
Total Liabilities	2,017.3	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
Capital & Reserves	308.1	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
Deposits from Individuals & Institutions	1,510.0	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
Savings Deposits	55.5	62.8	65.2	75.9	112.3	171.8	209.2	278.8	332.4	325.9	315.0
Fixed Deposits	1,419.2	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
Other Deposits	35.3	58.4	94.4	137.9	294.5	412.7	413.8	428.5	315.9	427.3	478.1
Other Liabilities	199.2	297.3	477.8	661.1	830.2	917.0	844.8	789.9	910.8	1,166.7	1,404.1

Source : The Monetary Authority of Singapore

12.11 FINANCE COMPANIES' LOANS AND ADVANCES BY INDUSTRY, 1978-1988
(End of Period)

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total	528.6	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
Agriculture, Mining & Quarrying	-	-	-	-	-	0.6	0.9	1.1	0.9	0.8	0.5
Manufacturing	20.9	29.5	92.6	164.6	167.7	228.7	217.6	223.9	231.1	249.4	236.5
Building & Construction	123.8	148.8	118.9	174.1	451.4	790.8	923.7	898.3	810.1	808.7	852.5
General Commerce	123.0	166.4	190.1	217.1	260.3	274.0	269.6	286.6	276.8	273.5	245.4
Transport, Storage & Communications	52.6	38.3	45.9	74.7	94.1	91.8	82.6	58.2	44.1	39.2	49.9
Financial Institutions	-	-	-	-	197.4	231.5	377.7	330.4	262.4	229.9	293.2
Professional & Private Individuals	134.4	163.5	230.3	390.5	458.6	622.4	682.4	715.2	648.4	646.5	669.8
Others	73.9	88.3	146.5	289.7	133.9	192.0	186.7	186.0	176.0	224.0	262.2

Source : The Monetary Authority of Singapore

12.12 ASSETS AND LIABILITIES OF MERCHANT BANKS, 1978-1988
(End of Period)

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total Assets	3,746.7	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
Amounts Due from Banks	1,826.7	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
In Singapore	41.0	42.8	61.8	201.3	260.4	218.5	189.4	332.1	370.7	472.6	491.4
Outside Singapore ¹	1,785.7	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
Loans & Advances to Non-bank Customers	1,785.8	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
Securities & Equities	86.2	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
Other Assets	48.0	144.7	301.8	529.2	574.2	518.5	773.6	727.7	857.9	1,276.5	1,499.7
Total Liabilities	3,746.7	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
Capital & Reserves	195.1	309.3	452.1	909.8	1,395.3	1,620.4	2,412.6	2,956.8	3,868.0	4,574.2	4,812.0
Amounts Due to Banks	2,963.5	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
In Singapore	195.2	839.8	178.1	347.8	317.1	581.5	750.2	709.3	483.6	678.4	710.6
Outside Singapore ¹	2,768.3	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
Borrowings from Non-bank Customers	516.8	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
Other Liabilities	71.3	172.4	462.8	475.1	611.6	569.4	839.3	811.0	1,179.9	1,861.5	3,065.5

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

Source : The Monetary Authority of Singapore

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

1 Include Asian Currency Units.

12.13 DOMESTIC INTEREST RATES, 1978-1988
(End of Period)

Per Cent Per Annum

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Banks¹											
Prime Lending Rate	7.65	9.48	13.60	11.83	9.33	8.98	9.40	7.20	6.10	6.10	6.13
Deposit Rates											
3 Months	5.29	7.15	11.22	7.43	6.16	6.53	6.00	4.58	2.88	2.90	2.95
6 Months	5.55	7.40	10.92	8.40	6.55	6.55	6.35	4.70	3.03	3.11	3.33
12 Months	6.01	7.65	10.55	8.95	7.08	6.75	6.80	4.88	3.30	3.56	4.03
Savings Deposit Rate	4.20	6.38	9.52	7.90	6.43	6.30	6.53	5.18	3.08	3.03	2.83
Finance Companies											
Deposit Rates ²											
Up to 3 Months	6.40	8.10	12.20	12.40 ³	6.60	6.90	6.48	4.88	3.19	3.20	3.41
12 Months	6.80	7.60	9.90	11.50 ³	7.58	7.38	7.18	5.30	3.60	3.98	4.48
POSB Savings Deposit Rate for Amounts											
Up to \$100,000	5.25	6.00	8.50	9.50	7.00	6.50	6.75	5.25	3.25	3.25	3.00
Exceeding \$100,000	3.50	4.25	6.00	7.00	5.50	5.50	5.75	4.00	2.25	2.25	2.00

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

Source : The Monetary Authority of Singapore
Post Office Savings Bank

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.

12.14 DEPOSITS AND WITHDRAWALS OF POST OFFICE SAVINGS BANK, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Number of Savings Accounts (End of Period)	1,523,969	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
Amount (\$ Million)											
Deposited	2,256.0	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
Withdrawn	1,900.6	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
Due to Account Holders (End of Period)	2,029.0	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*

Source : Post Office Savings Bank

12.15 CONTRIBUTIONS AND WITHDRAWALS OF CENTRAL PROVIDENT FUND, 1978-1988

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
Amount											
Contributed	1,352.0	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
Withdrawn	657.8	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
Due to Members (End of Period)	5,981.4	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

Source : Central Provident Fund Board

12.16 WITHDRAWALS OF CENTRAL PROVIDENT FUND BY TYPE, 1978-1988

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									
	\$M11111on	No. ³	\$M11111on ⁴	No. ³	\$M11111on ⁴	No.	\$M11111on	No.	\$M11111on	No.	\$M11111on		
1978	657.8	48,680	488.4	-	-	14,291	123.1	1,382	15.7	2,207	13.8	-	16.8
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

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, 1978-1988

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
1978	1,492.1	3,387.2	886.7	1,944.5	152.4	637.1	116.8	163.9	142.9	216.4	61.4	129.6	128.9	291.4	3.0	4.3
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

Source : Stock Exchange of Singapore

12.18 STOCK EXCHANGE OF SINGAPORE INDICES, 1978-1988
(1975 = 100)

Year	Industrial	Finance	Hotels	Properties	Mining	Plantation
1978	137.5	121.9	138.2	146.8	201.3	220.5
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

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

Source : Stock Exchange of Singapore

12.19 PLEDGES AT PAWNSHOPS, 1978-1988

Year	Pledges		Amount of Loans	
	Received	Redeemed	Given Out	Redeemed including Interest
	Number		Million Dollars	
1978	1,901,068	1,774,697	236.1	229.6
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

Source : Registry of Moneylenders and Pawnbrokers

12.20 LIFE INSURANCE POLICIES, 1978-1987

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
	Number									
Policies in Force (End of Period)	214,316	246,657	248,077	271,214	314,375	359,902	379,880	405,452	463,139	565,032
New Policies	50,632	61,707	59,174	49,539	70,374	78,212	57,013	63,712	92,819	138,821
Policies Matured or Discontinued	19,415	29,366	25,245	26,409	27,213	32,685	37,193	38,140	35,132	36,928
	Million Dollars									
Policies in Force										
Amount Insured (End of Period)	4,081.9	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
Premiums	117.4	143.2	170.0	198.0	250.4	305.3	332.5	363.5	424.3	538.5
New Policies										
Amount Insured	1,124.8	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
Premiums	29.1	36.7	40.1	43.5	70.3	79.0	60.6	67.6	97.7	150.9
Policies Matured or Discontinued										
Amount Insured	366.4	374.1	491.9	450.9	360.2	1,111.9	1,381.6	1,741.1	2,097.3	2,049.9
Premiums	10.2	10.9	14.2	15.5	17.9	28.0	33.5	36.6	36.8	36.7

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, 1978-1987

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total Revenue	552.2	639.3	771.6	933.2	1,116.3	1,314.4	1,528.4	1,759.3	2,068.5	2,510.7
Balance of Revenue Account at Beginning of Year	394.2	461.0	537.1	649.2	776.6	926.9	1,087.7	1,282.6	1,462.9	1,720.7
Premiums	113.7	139.7	164.0	191.8	237.0	282.5	299.0	341.4	398.3	515.2
Net Interest, Dividends & Rents	32.9	36.6	47.1	61.3	69.8	79.2	91.3	101.8	109.9	116.0
Miscellaneous	11.4	2.0	23.4	30.9	32.9	25.8	50.4	33.5	97.4	158.8
Total Expenditure	552.2	639.3	771.6	933.2	1,116.3	1,314.4	1,528.4	1,759.3	2,068.5	2,510.7
Claims on Death, Disability & Maturity	20.9	23.2	28.4	36.9	41.4	50.0	57.3	71.0	85.5	99.2
Surrenders	12.3	13.2	15.9	20.0	23.0	26.3	33.2	49.9	64.3	63.4
Cash Bonuses & Annuities	3.5	4.4	7.7	6.0	4.8	5.7	5.0	6.0	7.0	7.4
Management Expenses										
Commission	25.2	31.7	36.0	40.6	64.8	72.4	59.2	63.9	92.4	137.0
Salaries	5.7	6.6	7.9	8.9	11.9	12.8	15.5	18.9	18.7	21.9
Others	14.1	15.9	23.8	34.7	24.2	28.3	29.2	31.7	26.2	30.0
Miscellaneous	9.5	7.3	2.7	9.5	19.2	20.4	46.4	55.0	53.7	89.3
Balance of Revenue Account at End of Year	461.0	537.0	649.2	776.6	927.0	1,098.5	1,282.6	1,462.9	1,720.7	2,062.5

Source : The Monetary Authority of Singapore

12.22 ASSETS OF LIFE INSURANCE FUNDS, 1978-1987
(End of Period)

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	505.0	585.1	705.1	834.7	998.8	1,196.5	1,384.0	1,576.3	1,851.5	2,238.9
Land & Buildings	32.0	31.8	35.4	37.7	52.5	57.7	54.2	51.9	59.6	83.6
Loans	69.2	105.5	124.5	186.9	205.9	232.3	268.9	314.2	442.9	518.5
On Mortgages	22.2	42.0	48.7	93.1	100.6	108.4	110.7	127.3	240.1	291.9
On Policies	40.7	48.2	59.3	76.6	87.0	99.1	123.4	153.6	178.9	201.1
Others	6.3	15.3	16.5	17.2	18.3	24.8	34.8	33.3	23.9	25.5
Investments	308.9	339.0	378.2	424.2	513.0	620.0	701.7	741.6	935.1	1,139.1
Government & Statutory Authorities	149.5	170.8	180.0	198.2	236.1	283.1	354.7	380.0	457.0	518.5
Debentures & Shares ¹	159.4	168.2	198.2	226.0	276.9	336.9	347.0	361.6	478.1	620.6
Cash & Deposits	66.5	75.7	108.9	154.9	180.5	234.8	305.7	403.5	354.5	424.9
Miscellaneous (including Outstanding Premiums) ²	28.4	33.1	58.1	31.0	46.9	51.7	53.5	65.1	59.4	72.8

¹ Include other investments.

² Include furniture.

Source : The Monetary Authority of Singapore

12.23 PREMIUMS AND CLAIMS OF GENERAL INSURANCE FUNDS, 1978-1987

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total Net Premiums¹	236.9	274.5	340.7	397.7	431.0	441.0	440.9	433.6	421.4	442.9
Marine, Aviation or Transit	52.1	58.1	70.7	74.2	70.5	70.7	68.0	65.9	62.9	64.3
Others	184.8	216.4	270.0	323.5	360.5	370.3	372.9	367.7	358.5	378.6
Fire	40.7	45.4	51.2	61.2	68.1	69.7	71.3	76.4	72.1	69.4
Motor Vehicles	59.7	74.0	102.6	117.4	135.5	147.4	158.9	152.1	148.2	165.6
Miscellaneous	84.4	97.0	116.2	144.9	156.9	153.2	142.7	139.2	138.2	143.6
Total Net Claims²	94.2	113.9	141.6	146.7	165.6	186.7	195.4	220.6	230.1	218.1
Marine, Aviation or Transit	25.4	30.3	35.7	35.7	38.6	36.1	27.5	27.9	25.7	25.6
Others	68.8	83.6	105.9	111.0	127.0	150.6	167.9	192.7	204.5	192.5
Fire	11.8	20.0	29.4	18.8	17.1	21.7	20.4	20.9	30.1	18.6
Motor Vehicles	29.4	36.1	45.7	52.6	58.9	71.1	87.2	99.2	99.8	107.6
Miscellaneous	27.6	27.5	30.8	39.6	51.0	57.8	60.3	72.6	74.6	66.3

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

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

Source : The Monetary Authority of Singapore

12.24 REVENUE AND EXPENDITURE ACCOUNTS OF GENERAL INSURANCE FUNDS, 1978-1987

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total Revenue	527.3	603.7	742.8	896.7	958.0	1,077.5	1,126.4	1,166.7	1,236.5	1,361.5
Balance of Revenue Account at Beginning of Year	31.1	34.7	31.0	39.5	74.1	88.4	93.0	69.6	95.7	125.3
Reserves for Unexpired Risks at Beginning of Year	92.6	101.6	119.9	146.7	178.3	197.6	205.3	207.5	199.9	192.3
Loss Reserves at Beginning of Year	98.7	119.8	149.7	178.2	217.1	265.0	305.2	369.5	420.5	433.9
Net Premiums Written	236.9	274.5	340.7	397.7	431.0	441.0	440.9	433.6	421.3	442.9
Net Interest, Dividends & Rents	14.8	20.9	26.8	40.4	46.9	49.6	55.3	54.0	47.4	46.9
Miscellaneous	53.2	52.2	74.7	94.2	10.6	35.9	26.7	32.5	51.7	120.2
Total Expenditure	527.3	603.7	742.8	896.7	958.0	1,077.5	1,126.4	1,166.7	1,236.5	1,361.5
Net Claims Settled, Loss Reserves at End of Year	215.4	263.6	317.5	366.0	429.8	489.7	567.1	637.6	677.0	695.6
Management Expenses										
Commission	62.2	71.5	85.5	91.3	76.4	72.5	68.2	71.7	69.4	69.8
Others	53.3	57.2	71.6	88.1	87.6	98.1	102.9	102.3	110.3	106.9
Miscellaneous	59.5	59.7	81.6	97.3	76.8	110.8	109.5	57.9	58.1	71.0
Balance of Revenue Account at End of Year	33.7	31.0	39.9	75.4	90.1	101.3	70.1	97.3	125.3	216.5
Reserves for Unexpired Risks at End of Year	103.2	120.7	146.7	178.6	197.3	205.1	208.6	199.9	196.4	201.7

Source : The Monetary Authority of Singapore

12.25 ASSETS OF GENERAL INSURANCE FUNDS, 1978-1987
(End of Period)

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	392.1	437.8	527.8	684.4	797.7	873.3	907.1	943.3	985.3	1,123.4
Land & Buildings	31.8	31.4	35.5	42.8	42.6	42.9	40.7	39.6	35.5	39.4
Loans	3.7	5.1	5.2	5.3	7.6	11.4	12.1	12.5	13.5	16.3
Investments	145.1	159.9	188.6	229.6	256.4	290.7	302.4	305.2	369.4	468.5
Government & Statutory Authorities	75.6	82.5	89.5	108.6	128.5	147.6	166.5	172.2	186.5	214.7
Debentures & Shares	69.5	77.4	99.1	121.0	127.9	143.1	135.9	133.0	182.9	253.8
Cash & Deposits	147.4	162.9	207.5	294.6	361.9	394.3	412.7	443.8	429.7	457.6
Miscellaneous	64.1	78.5	91.0	112.1	129.2	134.0	139.2	142.2	137.2	141.6

Source : The Monetary Authority of Singapore

CHART 20

MONEY SUPPLY, 1978-1988 (At End of Period)

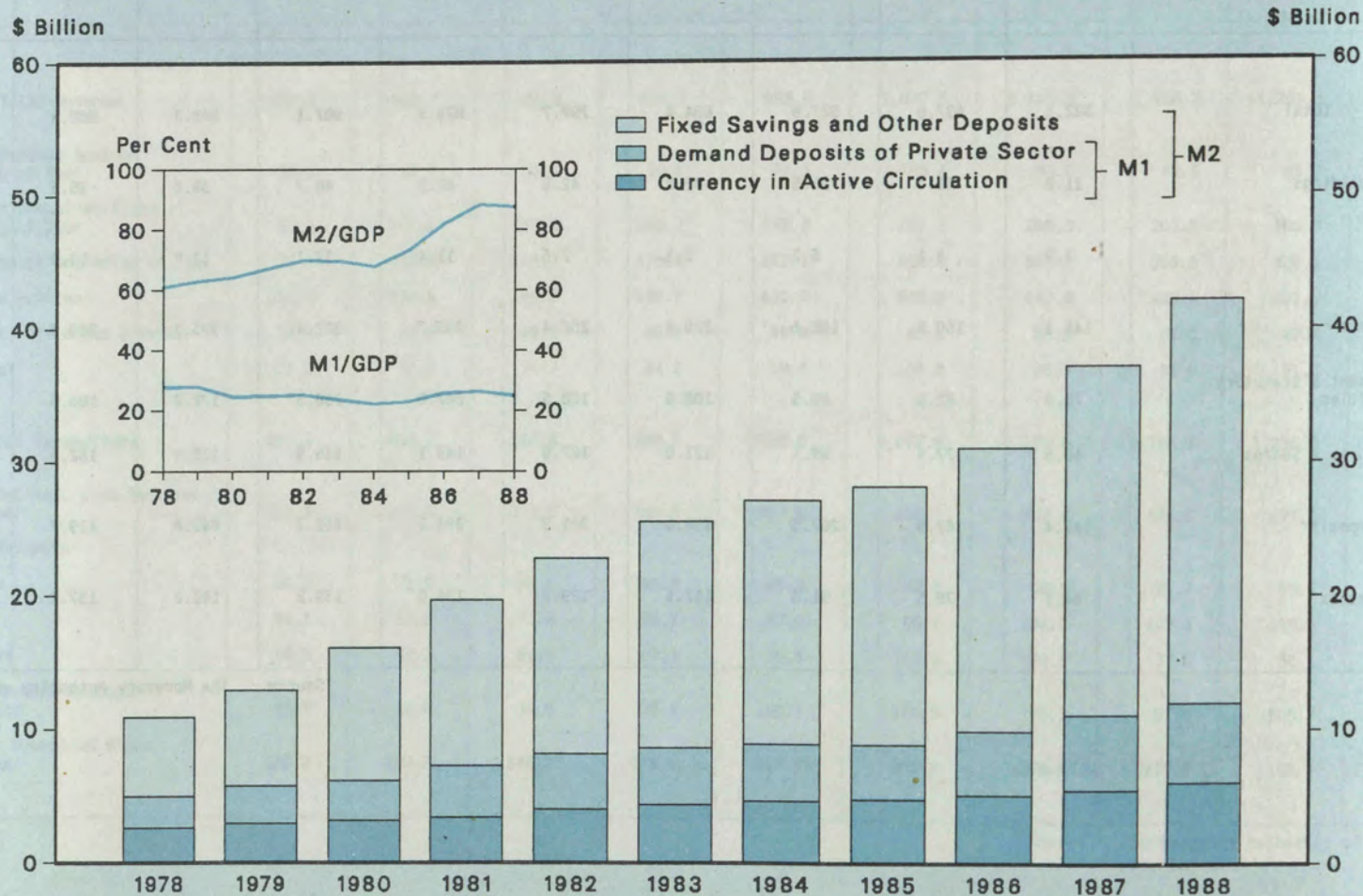


CHART 21

TYPE OF BANK DEPOSITS AND LOANS AND ADVANCES TO INDUSTRIES, 1978-1988 (At End of Period)

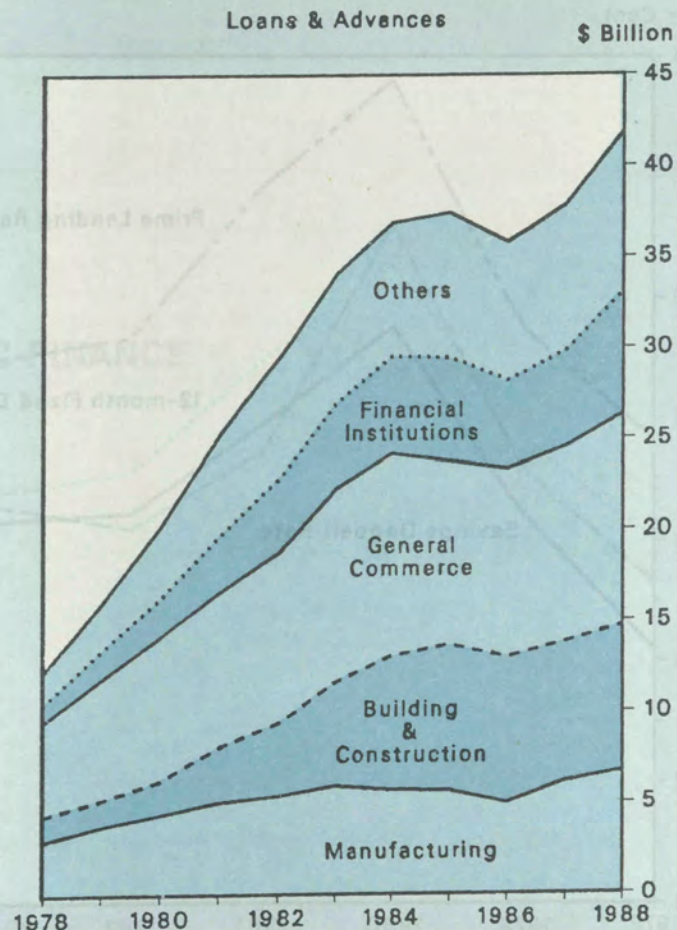
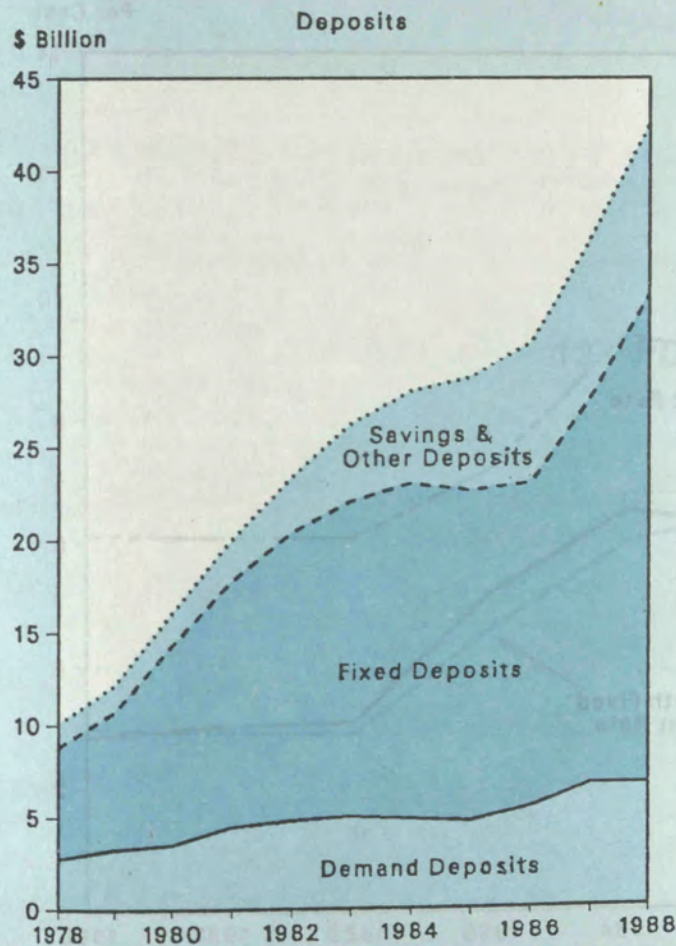
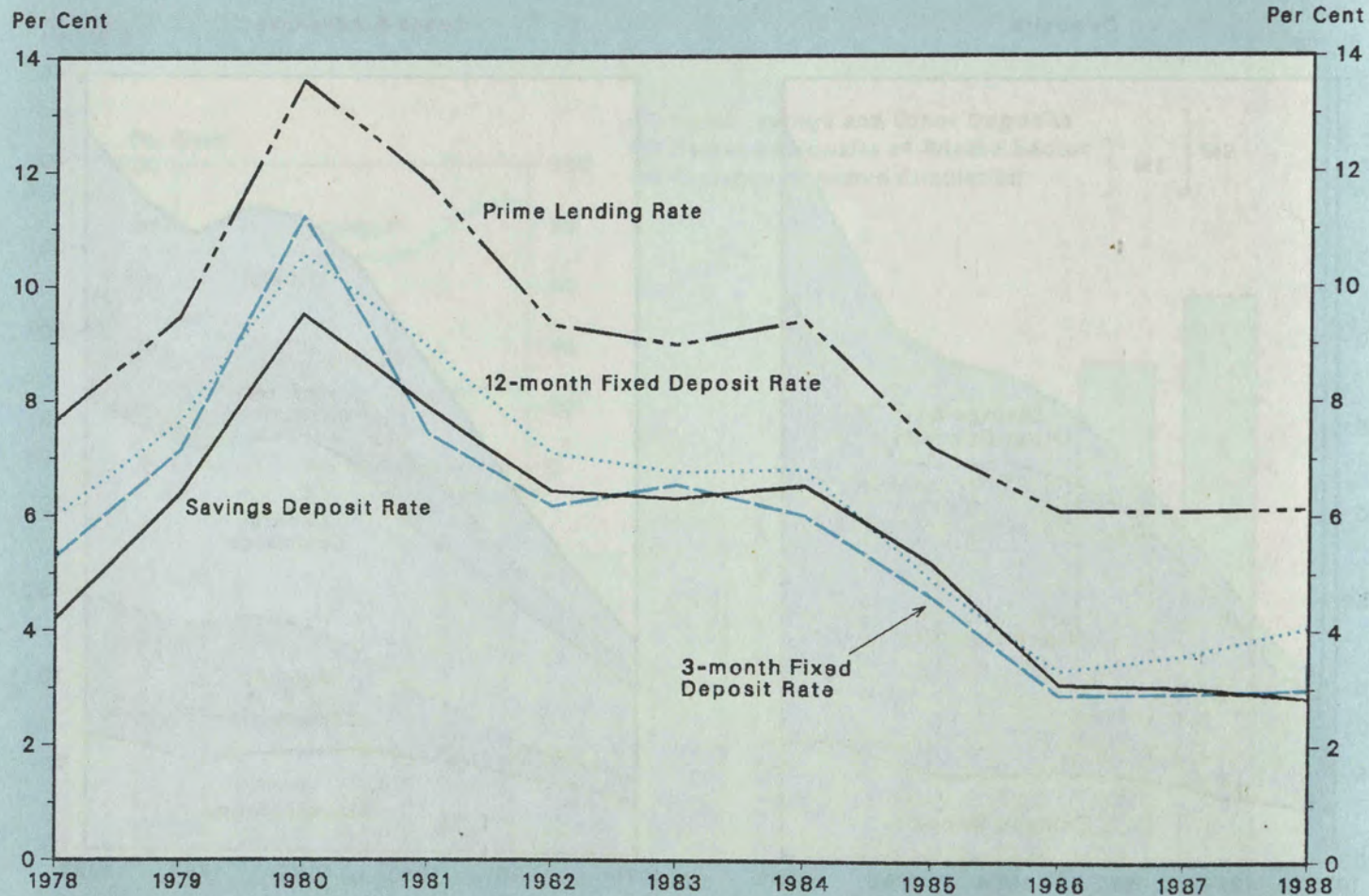


CHART 22

BANK INTEREST RATES, 1978-1988 (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 child and enhanced child relief for the fourth child.

Company taxes are based on a flat rate of 33 per cent of income with the usual allowances from the Year of Assessment 1987. 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 the Consolidated Revenue Account and current expenditure is paid out of this 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, 1978-1988

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
TOTAL ¹	4,094.8	4,694.2	5,936.6	7,344.6	8,989.5	10,613.6	11,273.2	10,829.4	10,970.4	10,470.9	13,775.9
Tax	2,840.6	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	6,763.1
Direct Tax	1,696.5	1,924.8	2,454.4	3,325.5	4,097.6	4,528.0	4,827.1	4,192.2	3,021.6	3,068.6	3,663.7
Income Tax	1,283.0	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	2,839.7
Property Tax	385.6	491.0	531.2	640.4	806.4	943.6	1,209.6	1,152.7	763.8	686.2	808.4
Estate Duty	27.9	35.7	24.8	50.8	43.2	61.1	49.2	32.8	26.0	25.8	15.6
Indirect Tax	1,144.1	1,296.4	1,632.9	1,888.5	2,083.9	2,552.5	2,763.9	2,582.2	2,166.5	2,456.8	3,099.4
Customs and Excise Duties	544.2	586.3	670.2	694.8	763.1	856.9	992.9	985.3	847.3	939.7	1,112.2
Motor Vehicle Taxes ²	300.9	354.5	487.3	525.5	613.2	672.1	699.1	682.1	522.6	634.6	1,041.9
Stamp Duty	79.9	105.8	163.2	280.3	250.6	315.4	282.0	312.6	412.2	412.2	347.7
Betting & Sweepstake Duties	28.4	32.2	35.8	62.2	78.7	88.8	123.5	124.5	165.2	266.2	300.1
Payroll Tax ³	75.1	89.0	105.9	131.0	158.9	179.9	202.3	99.7	1.2	0.5	0.2
Others	115.6	128.6	170.5	194.7	219.4	439.4	464.1	378.0	218.0	203.6	297.3
Non-tax	1,254.2	1,473.0	1,849.3	2,130.6	2,808.0	3,533.1	3,682.2	4,055.0	5,782.3	4,945.5	7,012.8
Regulatory Charges, Sales of Goods and Services and Fines	455.5	499.8	618.7	919.5	1,018.7	1,023.5	981.9	864.7	807.7	804.0	870.6
Interest from Loans	347.9	373.5	447.3	518.9	663.9	820.0	1,035.3	1,048.4	1,349.1	1,217.7	923.5
Investment Income	343.8	461.7	580.8	558.1	1,067.1	1,240.8	1,333.2	1,684.4	2,356.4	2,186.2	2,717.5
Financial Claims & Other Receipts ⁴	110.2	141.2	206.0	137.3	61.5	452.0	335.0	460.7	1,272.5	749.2	2,579.6
Adjustment in Repayment of Direct Loans and Advances	-3.2	-3.2	-3.5	-3.2	-3.2	-3.2	-3.2	-3.2	-3.4	-11.6	-78.4

1 Government 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 road tax, special tax on heavy-oil engine, ad valorem registration fees, passenger vehicle seating fees and non-motor vehicle licences, but exclude import duties on imported motor vehicles.

3 Suspended on 1 April 1985.

4 Include the one-time transfer of \$1.5 billion in 1988 from the accumulated reserves of four statutory boards.

13.2 FUNCTIONAL CLASSIFICATION OF GOVERNMENT RECURRENT EXPENDITURE, 1978-1988

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
TOTAL¹	2,816.7	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
General Services	130.9	137.1	211.5	181.9	258.6	316.5	330.2	350.3	276.1	316.8	320.4
Defence, Justice & Police	1,068.0	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
Social & Community Services	867.4	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
Education	399.6	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
Health	171.2	193.1	223.0	257.3	313.3	342.0	376.3	419.1	400.7	397.4	432.1
Environment	85.0	98.7	120.1	132.8	158.8	164.3	177.5	188.4	169.5	159.2	176.3
Others	211.6	148.8	122.3	126.0	103.5	183.5	275.7	191.4	140.0	135.5	161.6
Economic Services	174.6	192.7	228.1	288.0	383.9	346.5	300.1	249.5	230.4	240.4	239.8
Debt Servicing	524.4	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
Pensions	51.4	73.7	74.0	59.1	79.4	89.2	100.4	141.8	160.6	169.6	193.9

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, 1978/79-1988/89

Million Dollar

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
1978/79	5,872.0	3,946.8	664.0	2,022.5	1,260.3	2,148.9	790.6	1,358.3	-
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	10,092.8	-	4,218.1	5,874.7	6,143.2	4,319.0	1,824.2	-

Source : Accountant-General's Department

13.4 GOVERNMENT DEBT, 1978-1988

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
1978	10,692.6	9,674.4	7,872.3	135.0	942.1	725.0	1,018.2	260.7	131.3	13.4	514.5	98.3
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	41,200.7	40,959.9	36,342.5	-	2,360.0	2,257.4	240.8	51.3	59.6	48.3	51.6	30.0

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, 1978-1988

Million Dollar

Year	Total	Import & Excise Duties					Entertainment Duties	Film Hire Duty	Licence Fees	Miscellaneous Receipts
		Liquors	Tobacco	Petroleum	Motor Vehicles	Others				
1978	586.5	129.5	126.7	143.4	77.4	67.8	29.6	3.8	3.3	5.0
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

Source : Customs and Excise Department

13.6 REVENUE COLLECTED BY INLAND REVENUE DEPARTMENT, 1978-1988

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
1978	1,899.5	1,279.9	388.4	28.0	80.4	32.4	-	90.4
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

¹ Include compounding fees.

² Include compounding fees and surcharges on property taxes.

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 was collected by the Singapore Broadcasting Corporation wef 1 Feb 1980.

Source : Inland Revenue Department

13.7 TAXPAYERS, ASSESSED INCOME AND TAX ASSESSED, 1986 AND 1987

	Taxpayers			Assessed Income			Tax Assessed			
	Total	Resident	Non-resident	Total	Resident	Non-resident	Total	Resident	Non-resident	
	Number			Million Dollars						
	1986									
	Total	631,165	614,968	16,197	16,679.3	16,246.0	433.3	2,578.9	2,485.7	93.2
	Individuals	621,154	605,240	15,914	12,672.5	12,565.4	107.1	1,064.8	1,043.5	21.3
	Employees	507,895	493,642	14,253	10,306.3	10,224.2	82.1	813.0	798.3	14.7
	Sole Proprietors	77,568	76,142	1,426	1,417.1	1,398.9	18.2	133.5	129.6	3.9
	Partners	35,691	35,456	235	949.1	942.3	6.8	118.3	115.6	2.7
	Companies	8,826	8,552	274	3,942.2	3,616.0	326.2	1,483.6	1,411.7	71.9
	Trusts ¹	641	632	9	12.4	12.4	-	3.4	3.4	-
	Clubs & Associations	544	544	-	52.2	52.2	-	27.1	27.1	-
		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	-

Note : Figures for 1986 refer to assessments made during the period 1.1.86 to 31.12.86 (12 months).
 Figures for 1987 refer to assessments made during the period 1.1.87 to 31.12.87 (12 months).

Source : Inland Revenue Department

1 Include Hindu Joint Families.

**13.8 ASSESSED INCOME AND TAX ASSESSED ON INDIVIDUALS
BY ASSESSED INCOME GROUP, 1986 AND 1987**

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	1986									
	621,154	605,240	15,914	12,672.6	12,565.5	107.1	1,064.8	1,043.6	21.2	
	66,951	55,239	11,712	303.4	275.5	27.9	7.2	2.7	4.5	
	81,801	80,521	1,280	577.8	568.9	8.9	8.6	7.2	1.4	
	80,002	79,130	872	718.1	710.3	7.8	12.2	10.9	1.3	
	137,859	137,196	663	1,692.3	1,684.3	8.0	37.1	35.6	1.5	
	79,087	78,763	324	1,365.9	1,360.3	5.6	44.3	43.2	1.1	
	76,420	75,988	432	1,862.2	1,851.6	10.6	88.9	86.7	2.2	
	58,408	58,054	354	2,229.5	2,215.8	13.7	163.2	160.4	2.8	
	29,950	29,719	231	2,027.4	2,012.1	15.3	250.7	247.4	3.3	
	8,559	8,529	30	1,139.4	1,135.3	4.1	228.0	226.9	1.1	
	2,117	2,101	16	756.6	751.4	5.2	224.6	222.6	2.0	
	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	

Note : See note to Table 13.7.

Source : Inland Revenue Department

**13.9 INCOME TAX ASSESSED ON COMPANIES BY ASSESSED INCOME GROUP,
1986 AND 1987**

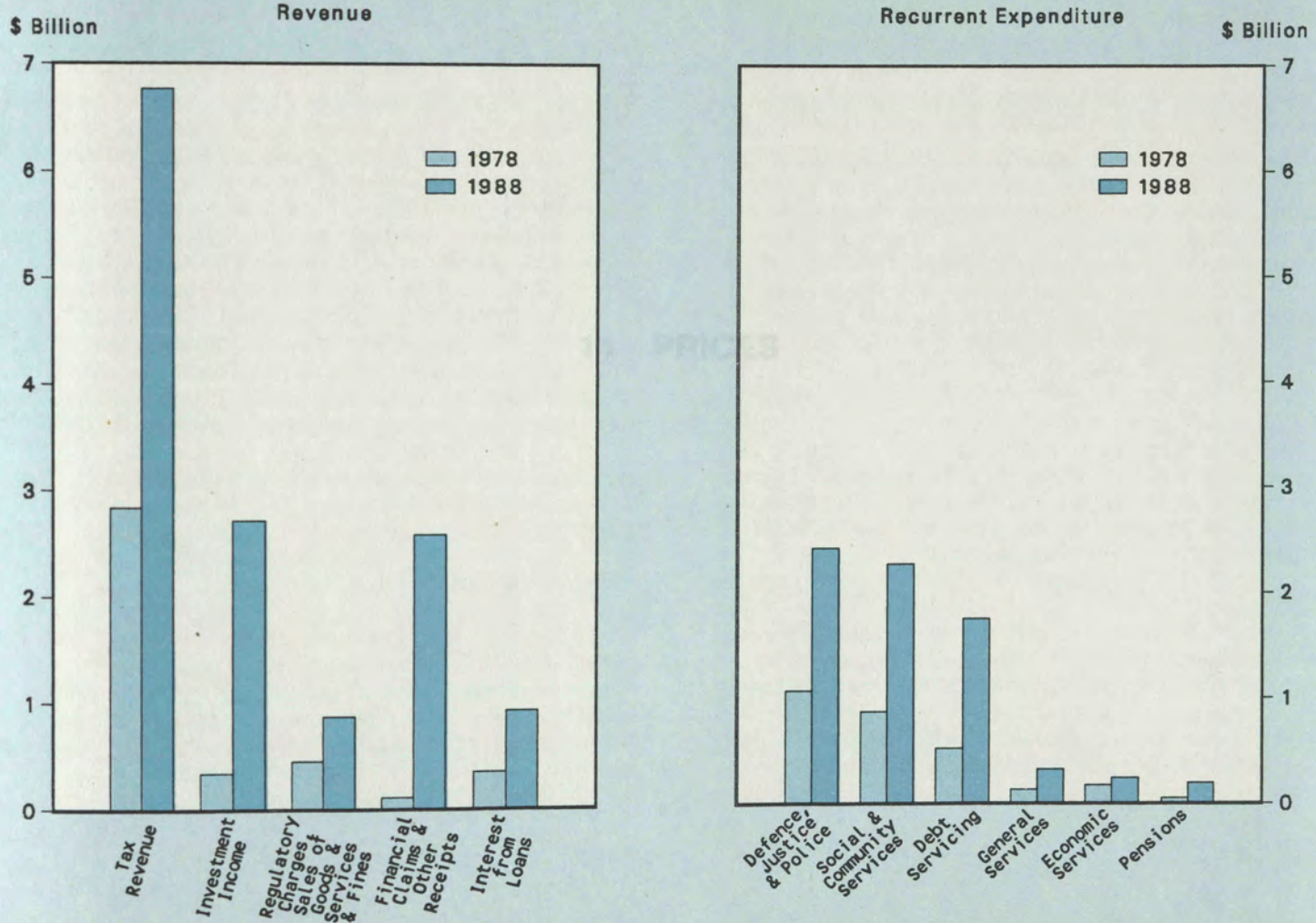
Assessed Income Group (\$)	Taxpayers			Assessed Income			Tax Assessed		
	Total	Resident	Non-resident	Total	Resident	Non-resident	Total	Resident	Non-resident
	Number			Million Dollars					
	1986								
Total	8,826	8,552	274	3,942.2	3,616.0	326.2	1,483.6	1,411.7	71.9
10,000 & Below	2,642	2,571	71	10.6	10.3	0.3	4.3	4.2	0.1
10,001 - 20,000	1,044	1,012	32	15.8	15.3	0.5	6.3	6.1	0.2
20,001 - 30,000	699	679	20	17.9	17.4	0.5	7.1	6.9	0.2
30,001 - 50,000	897	874	23	36.2	35.3	0.9	14.5	14.1	0.4
50,001 - 100,000	1,053	1,020	33	78.3	75.8	2.5	31.3	30.3	1.0
100,001 - 300,000	1,200	1,160	40	210.7	203.9	6.8	84.2	81.5	2.7
300,001 - 500,000	362	354	8	145.0	141.9	3.1	58.0	56.7	1.3
500,001 - 1,000,000	353	339	14	254.1	244.1	10.0	100.7	96.9	3.8
Over 1,000,000	576	543	33	3,173.6	2,872.0	301.6	1,177.2	1,115.0	62.2
	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

Note : See note to Table 13.7.

Source : Inland Revenue Department

CHART 23

GOVERNMENT REVENUE AND RECURRENT EXPENDITURE, 1978 & 1988



14 PRICES

Consumer Price Index (CPI)

The Consumer Price Index (June 1982-May 1983=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 June 1982 to May 1983. The expenditure records of 4,573 households with monthly expenditure of \$100 - \$2,999 were used as the weighting pattern. These households constituted 91 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, 1982/83".

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 1,450.

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 proportionate to the consumption of materials of the building and construction industries.

Data are collected monthly by mail from importers, exporters and manufacturers. Indices at commodity group level are published in the Department's "Monthly Digest of Statistics". Details on methodology, commodity coverage, weighting pattern and methods of computation can be found in these publications: A Technical Note on Import Price Index, Export Price Index, Singapore Manufactured Products Price Index and the Domestic Supply Price Index.

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, 1978-1988

Section	All Items	Food	Clothing	Housing	Transport & Communications	Miscellaneous
Weights ¹	10,000	4,404	570	1,693	1,395	1,938
Period	June 1982 - May 1983 = 100					
1978	78.4	78.6	92.7	80.0	72.3	77.6
1979	81.5	80.8	96.0	83.8	78.8	80.2
1980	88.4	87.0	97.8	93.2	89.0	85.8
1981	95.7	95.3	99.6	97.3	97.4	93.2
1982	99.4	100.1	100.0	99.4	99.8	97.3
1983	100.6	100.4	100.1	99.7	100.6	102.0
1984	103.2	101.9	99.7	101.8	104.4	107.7
1985	103.7	100.7	97.1	104.3	107.9	109.0
1986	102.3	99.3	94.9	102.4	103.8	110.3
1987	102.8	99.1	95.2	101.3	104.9	113.4
1988	104.4	100.4	98.5	101.6	105.8	116.4
Percentage Change Over Previous Year						
1978	4.8	5.9	2.9	1.2	4.4	5.4
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

1 The weights refer to the consumption pattern of 1982/83 and are used in the computation of the indices for the period 1983-1988. Indices for the period 1978-1982 relate to the consumption pattern of 1977/78.

14.2 RETAIL PRICES OF SELECTED FOODSTUFFS, 1978-1988

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						397g Tin	Per 10
1978	1.07	.63	.40	.70	1.50	5.87	4.88	7.29	7.08	3.80	.85	1.26
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

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

14.2 RETAIL PRICES OF SELECTED FOODSTUFFS, 1978-1988 (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									
1978	5.42	na	5.42	3.26	6.35	11.67	17.25	9.51	1.17	.86	1.34	2.73
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

14.2 RETAIL PRICES OF SELECTED FOODSTUFFS, 1978-1988 (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
1978	.66	1.03	.88	.41	.28	.31	.76	.60	1.22	11.61	4.08	2.98
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

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

14.3 DOMESTIC SUPPLY PRICE INDEX, 1978-1988

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										
1978	78.5	93.6	66.7	100.1	46.6	104.3	77.4	94.7	87.8	88.9
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
Percentage Change Over Previous Year										
1978	1.6	-1.7	4.4	7.5	-5.4	1.1	-1.7	5.2	2.3	3.2
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	4.6	1.1	7.4	-21.4	21.0	11.7	8.2	1.7	2.8

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, 1978-1988

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									
1978	77.2	90.2	63.5	112.0	52.9	96.0	68.7	95.8	86.1	83.5
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
	Percentage Change Over Previous Year									
1978	-1.7	-8.1	3.9	9.4	-5.8	3.0	-3.7	3.5	-9.9	2.2
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

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, 1978-1988

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									
1978	82.9	93.0	76.4	113.9	44.8	108.3	85.3	95.4	88.1	94.7
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
	Percentage Change Over Previous Year									
1978	3.8	0.2	5.2	9.6	-4.6	-1.7	0.3	6.3	5.6	3.0
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	-46.5	-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	-22.1	21.7	10.4	10.1	3.1	2.7

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, 1978-1988

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										
	1978	76.9	93.4	82.7	116.3	55.4	126.6	72.1	95.6	84.1	91.7
	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
	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	

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, 1978-1988

Section	All Items	Timber & Wood Products	Concrete Ingredients (Granite)	Paints	Cement	Bricks & Concrete Blocks	Tiles	Iron & Steel Products	Cables	Sanitary & Plumbing Fixtures	Others
Period \ Weights ¹	10,000	585	872	292	1,338	2,076	952	1,764	646	69	1,406
	1985 = 100										
1978	91.4	81.4	65.7	78.9	127.0	56.7	91.0	98.7	109.2	71.3	81.5
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	108.0
	Percentage Change Over Previous Year										
1978	4.5	0.9	-6.6	-	3.8	-1.2	12.6	8.4	-0.7	1.9	3.5
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

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, 1978-1988

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									
1978	84.4	92.4	99.0	83.4	85.9	49.4	58.2	51.3	72.4
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
Percentage Change Over Previous Year									
1978	-3.0	-4.9	-0.5	-7.8	-16.3	14.1	-4.5	-0.9	4.8
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

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, 1978-1988

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)											
1978	226.07	220.14	217.13	214.14	213.70	211.63	200.90	448.38	624.61	626.99	156.07	28.84
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

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, 1978-1987
(1985 = 100)

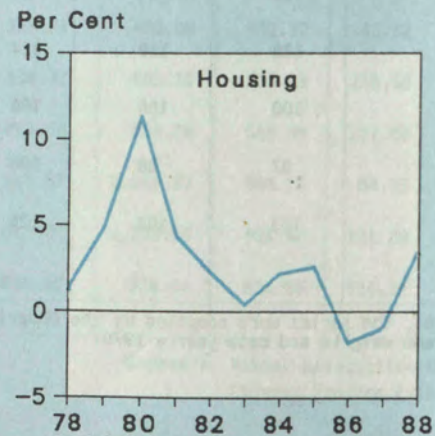
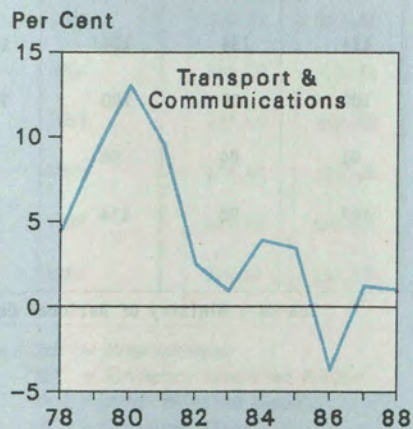
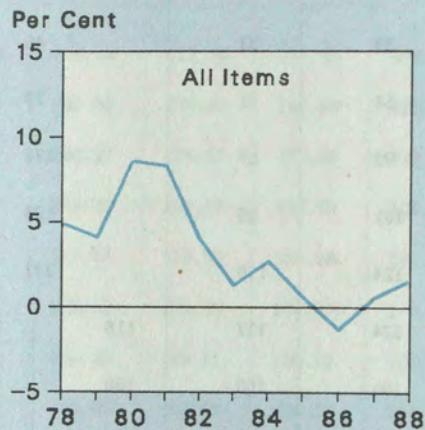
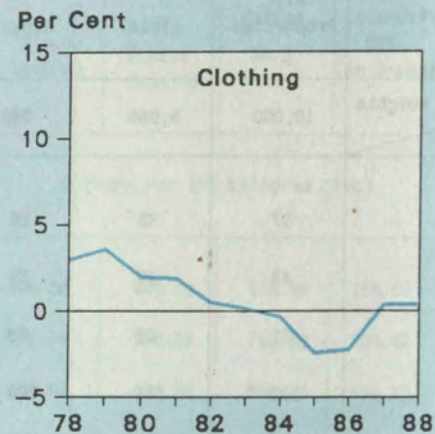
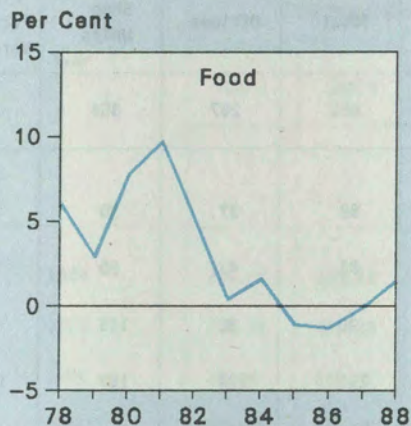
Property Type	All Properties	Residential						Commercial			Industrial
		Total	Bungalows	Semi – detached Bungalows	Terrace Houses	Flats Apartments	Condomin- ium Units	Total	Offices	Shop Units	Flatted Factories/ Warehouses
Period Weights	10,000	9,066	990	1,694	1,932	1,701	2,749	621	267	354	313
1978	37	32	26	28	29	38		52	37	70	58
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

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

CHART 24

ANNUAL CHANGES IN CONSUMER PRICE INDEX, 1978-1988



15 EDUCATION

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) which was established in April 1979 offers training courses in applied arts, commercial, industrial and service skills. The VITB runs 15 training institutes and offer full-time and part-time training programmes and about 50 courses at the following levels: Diploma in Applied Arts, the Industrial Technician Certificate, the Certificate in Business Studies, Preliminary Certificate in Business Studies, the National Trade Certificate Grade 2 and 3, Pre-vocational Training and the Certificate of Competency. In addition, part-time continuing education programmes in commercial, skill development, academic and language courses were also conducted.

The VITB also administers the Basic Education for Skills Training (BEST) programme and the Worker Improvement

Through Secondary Education (WISE) programme. Both programmes offer literacy and numeracy programmes to workers to enable them to upgrade to the Continuing Education and Training (CET) skill development courses and secondary academic education programmes and sit for the GCE 'N' level examination.

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. The Institute offers courses in Civil and Structural Engineering, Electrical and Electronic Engineering, Mechanical and Production Engineering and Accountancy at the bachelors degree level. The engineering courses are carefully designed to give emphasis on engineering practice, aimed at producing practice-oriented engineers. By special arrangements with the Senate of the National University of Singapore, all engineering students attend a common first-year course at the University's Faculty of Engineering. The Institute produced its first batch of 557 engineering graduates in April 1985. The student enrolment for the 1988/89 academic session is 4,400 including 1,861 accountancy students. Plans are underway to offer new courses in Commerce and Computer Technology in 1989.

The Singapore Polytechnic conducts a Certificate Course in Aeronautical Maintenance Engineering, Diploma courses in Architectural Technology, Building, Business Administration, Chemical Process Technology, 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 and Control, Building Maintenance Management, 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. 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 the 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, Shipbuilding and Offshore Engineering, Business Studies, Accountancy and Computer Studies. Part-time courses equivalent to the full-time courses in all departments are also conducted except in Shipbuilding and Offshore Engineering.

Part-time Advanced Diploma courses in Accounting and Finance, Automation and Control Technology, Building Services Engineering, Building Surveying and Inspection, Computer Application in Power Engineering, Computer Studies. A new diploma course in Biotechnology, recently introduced will commence in the 1989-1990 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 and Malay Studies are

also offered by the Institute to raise the level of knowledge of the content and teaching skills of Tamil 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 secondary schools and junior colleges. Students undergo a comprehensive and balanced theoretical and practical physical education programme.

Two 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. Two in-service programmes: The Diploma in Physical Education for Primary School and the Diploma in Physical Education for Secondary School for serving teachers on a full-time basis stretches over four terms in one year.

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

In July 1989 the College will be introducing a new pre-service Diploma Programme for Primary Schools which is designed for 'A' level applicants.

The college also conducts research programme on the effectiveness of school physical education programmes and teaching.

Expenditure on Education

Education has been a major item of public expenditure. The total budgeted recurrent expenditure in the fiscal year 1988/89 was \$1,518 million or 20.0 per cent of the total government recurrent expenditure.

15.1 ENROLMENT IN EDUCATIONAL INSTITUTIONS, 1978-1988

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		
1978	507,472	297,102	161,994	140,289	17,496	4,209	17,817	14,205	1,232	2,380	10,459	20,100
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	46,904

Source: Ministry of Education

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

² Include enrolment from Institutes run by Economic Development Board.

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

15.2 STUDENTS AND TEACHERS IN EDUCATIONAL INSTITUTIONS, END JUNE 1988

Number

	Institutions ¹	Student			Teachers		
		Total	Males	Females	Total	Males	Females
Total	435	537,533	288,032	249,501	25,235	10,875	14,360
Primary Schools	221	259,270	136,294	122,976	10,192	2,928	7,264
Secondary Schools	145	168,587	85,916	82,671	) 7,668	) 2,982	) 4,686
Pre-U Centres ² and Centralised Institutes	26	8,200	2,965	5,235	)	)	)
Junior Colleges	14	24,968	11,706	13,262	1,372	493	879
Technical & Vocational Institutes & Economic Development Board Institutes	23	29,604	22,548	7,056	1,985	1,517	468
Polytechnics	2	25,311	17,545	7,766	1,778	1,329	449
Institute of Education & College of Physical Education	2	1,078	215	863	194	106	88
National University of Singapore & Nanyang Technological Institute	2	20,515	10,843	9,672	2,046	1,520	526

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

Source : Ministry of Education

2 Teachers teaching in Pre-U Centres are included under Secondary Schools.

15.3 PRIMARY SCHOOLS, STUDENTS AND TEACHERS BY TYPE OF SCHOOL, 1978-1988

Number

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total Schools	364	351	338	328	320	305	275	252	236	230	221
Government	196	193	199	200	211	207	193	180	172	169	166
Government-aided	165	156	137	126	107	96	81	71	63	60	54
Private	3	2	2	2	2	2	1	1	1	1	1
Total Students	297,102	290,859	291,722	285,179	286,780	290,800	288,623	278,060	268,820	261,603	259,270
Government	212,488	211,453	214,187	210,245	217,885	219,742	219,930	211,855	205,281	199,174	198,429
Government-aided	84,434	79,223	77,323	74,756	68,734	70,862	68,564	66,020	63,387	62,225	60,688
Private	180	183	212	178	161	196	129	185	152	204	153
Total Teachers¹	10,347	10,492	10,090	9,465	9,452	9,921	10,420	10,363	10,264	10,199	10,192
Government	7,242	7,276	7,244	7,260	7,437	7,854	7,958	7,917	7,921	7,893	7,958
Government-aided	3,097	3,200	2,837	2,194	2,007	2,061	2,458	2,434	2,335	2,297	2,234
Private	8	16	9	11	8	6	4	12	8	9	na ²

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

Source: Ministry of Education

² Included as Secondary School Teachers.

15.4 ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED PRIMARY SCHOOLS BY LEVEL AND AGE, END JUNE 1988

a) Males

Number

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	15 & Over
TOTAL	136,209	21,270	20,902	20,906	20,174	19,971	22,364	5,795	4,524	222	81
Primary 1	21,409	21,263	114	27	5	-	-	-	-	-	-
Primary 2	20,977	7	20,780	145	39	3	3	-	-	-	-
Primary 3	20,921	-	8	20,721	131	50	9	2	-	-	-
Primary 4											
Normal	18,028	-	-	13	17,738	167	83	21	5	1	-
Extended	1,482	-	-	-	1,439	35	8	-	-	-	-
Monolingual	829	-	-	-	813	10	5	1	-	-	-
Primary 5											
Normal	16,694	-	-	-	8	16,207	323	123	27	6	-
Extended	2,633	-	-	-	-	2,535	78	16	2	2	-
Monolingual	987	-	-	-	-	955	23	9	-	-	-
Primary 6											
Normal	18,366	-	-	-	1	9	16,868	1,122	321	38	7
Extended	2,201	-	-	-	-	-	2,101	81	16	2	1
Monolingual	1,410	-	-	-	-	-	1,376	25	8	1	-
Primary 7											
Extended	3,415	-	-	-	-	-	1,487	1,779	114	32	3
Monolingual	1,467	-	-	-	-	-	-	1,431	33	2	1
Primary 8											
Extended	3,721	-	-	-	-	-	-	1,185	2,387	90	59
Monolingual	1,669	-	-	-	-	-	-	-	1,611	48	10

Source: Ministry of Education

15.4 ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED PRIMARY SCHOOLS BY LEVEL AND AGE, END JUNE 1988
b) Females

Number

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	15 & Over
TOTAL	122,908	19,629	19,244	19,142	18,878	18,330	20,464	4,317	2,732	132	40
Primary 1	19,738	19,626	93	13	4	2	-	-	-	-	-
Primary 2	19,308	3	19,145	127	27	5	1	-	-	-	-
Primary 3	19,140	-	6	18,989	113	27	3	2	-	-	-
Primary 4											
Normal	17,578	-	-	13	17,367	129	57	10	2	-	-
Extended	921	-	-	-	904	13	4	-	-	-	-
Monolingual	470	-	-	-	460	9	1	-	-	-	-
Primary 5											
Normal	16,380	-	-	-	3	16,073	233	63	7	1	-
Extended	1,624	-	-	-	-	1,562	52	6	4	-	-
Monolingual	514	-	-	-	-	500	11	3	-	-	-
Primary 6											
Normal	18,510	-	-	-	-	10	16,834	1,315	331	18	2
Extended	1,482	-	-	-	-	-	1,421	53	8	-	-
Monolingual	653	-	-	-	-	-	623	22	7	1	-
Primary 7											
Extended	2,499	-	-	-	-	-	1,224	1,172	86	17	-
Monolingual	695	-	-	-	-	-	-	674	14	5	2
Primary 8											
Extended	2,760	-	-	-	-	-	-	997	1,669	64	30
Monolingual	636	-	-	-	-	-	-	-	604	26	6

Source: Ministry of Education

15.5 SECONDARY SCHOOLS, STUDENTS AND TEACHERS BY TYPE OF SCHOOL, 1978-1988

Number

Type of School	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total Schools	135	135	141	145	150	147	150	149	157	161	161
Government	79	80	86	90	94	93	98	98	109	113	113
Government-aided & Independent	51	51	51	51	52	50	48	47	44	44	44
Private	5	4	4	4	4	4	4	4	4	4	4
Total Students	179,811	176,521	173,693	177,238	176,845	182,343	187,764	190,328	203,088	202,857	201,755
Government	128,509	126,017	125,011	128,127	128,786	133,839	137,400	137,526	149,296	148,240	147,596
Government-aided & Independent	49,612	48,735	46,794	47,333	46,266	46,629	48,445	50,763	51,840	52,885	52,589
Private	1,690	1,769	1,888	1,778	1,793	1,875	1,919	2,039	1,952	1,732	1,570
Total Teachers ¹	7,055	7,642	7,906	8,273	8,347	8,644	8,236	8,562	8,695	9,369	9,040
Government	5,115	5,573	5,605	5,655	5,694	5,946	6,006	6,261	6,461	6,960	6,806
Government-aided & Independent	1,873	2,003	2,234	2,553	2,584	2,625	2,150	2,227	2,159	2,341	2,161
Private	67	66	67	65	69	73	80	74	75	68	73

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 1988
a) Males

Age Level & Course	Number										
	Total	Under 12 Years	12 & Under 13	13 & Under 14	14 & Under 15	15 & Under 16	16 & Under 17	17 & Under 18	18 & Under 19	19 & Under 20	20 & Over
TOTAL	99,995	9	14,672	17,250	20,029	19,652	14,418	9,725	3,089	1,005	146
Secondary 1											
Special	1,084	-	1,050	21	11	2	-	-	-	-	-
Express	10,492	9	9,192	592	621	57	19	2	-	-	-
Normal	7,304	-	4,417	1,461	1,335	67	19	5	-	-	-
Secondary 2											
Special	1,069	-	-	1,033	26	10	-	-	-	-	-
Express	11,630	-	13	10,077	658	744	105	27	5	1	-
Normal	7,224	-	-	4,064	1,576	1,461	92	23	6	2	-
Secondary 3											
Special	1,077	-	-	-	1,031	29	16	1	-	-	-
Express	12,382	-	-	2	10,306	1,107	849	93	21	4	-
Normal	7,387	-	-	-	4,454	1,465	1,319	134	14	1	-
Secondary 4											
Special	1,021	-	-	-	-	969	36	14	2	-	-
Express	12,526	-	-	-	9	9,899	1,580	849	153	34	2
Normal	7,219	-	-	-	1	3,834	1,619	1,363	317	84	1
Secondary 5											
Normal	5,253	-	-	-	-	1	3,022	1,543	611	73	3
Pre-University 1	1,020	-	-	-	-	-	484	351	169	15	1
Pre-University 2	828	-	-	-	-	-	2	337	310	160	19
Pre-University 3	773	-	-	-	-	-	-	1	311	352	109
Junior College 1	6,442	-	-	-	1	7	5,215	940	264	15	-
Junior College 2	5,264	-	-	-	-	-	41	4,042	906	264	11

Source: Ministry of Education

15.6 ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED SECONDARY SCHOOLS BY LEVEL AND AGE, END JUNE 1988
a) Females

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	100,190	7	14,579	17,012	19,480	19,578	14,925	10,497	3,193	799	120
Secondary 1											
Special	1,019	-	998	17	4	-	-	-	-	-	-
Express	10,209	6	9,382	412	373	30	6	-	-	-	-
Normal	6,612	1	4,195	1,328	1,030	46	9	3	-	-	-
Secondary 2											
Special	1,023	-	1	996	19	6	1	-	-	-	-
Express	11,619	-	3	10,506	580	481	41	6	1	1	-
Normal	6,238	-	-	3,744	1,354	1,070	61	8	-	1	-
Secondary 3											
Special	980	-	-	-	949	25	6	-	-	-	-
Express	12,451	-	-	8	11,027	835	540	38	3	-	-
Normal	6,453	-	-	1	4,136	1,245	980	79	11	1	-
Secondary 4											
Special	1,115	-	-	-	-	1,072	34	9	-	-	-
Express	12,890	-	-	-	7	10,883	1,333	595	64	8	-
Normal	6,730	-	-	-	1	3,876	1,512	1,127	185	28	1
Secondary 5											
Normal	5,096	-	-	-	-	-	3,210	1,366	487	32	1
Pre-University 1	1,824	-	-	-	-	-	1,013	598	195	16	2
Pre-University 2	1,445	-	-	-	-	-	2	777	469	177	20
Pre-University 3	1,224	-	-	-	-	-	-	4	725	404	91
Junior College 1	7,499	-	-	-	-	8	6,155	1,109	226	1	-
Junior College 2	5,763	-	-	-	-	1	22	4,778	827	130	5

Source: Ministry of Education

**15.7 ENROLMENT AT PRIMARY LEVELS IN PRIVATE REGULAR SCHOOLS
BY LEVEL AND AGE, END JUNE 1988**

												Number
Level	Age	Total	Under 7 Years	7 & Under 8	8 & Under 9	9 & Under 10	10 & Under 11	11 & Under 12	12 & Under 13	13 & Under 14	14 & Under 15	15 & Over
		Males										
Total		85	6	7	3	6	8	14	4	8	13	16
Primary 1		7	6	1	-	-	-	-	-	-	-	-
Primary 2		8	-	6	1	1	-	-	-	-	-	-
Primary 3		9	-	-	2	3	-	2	-	2	-	-
Primary 4		10	-	-	-	2	1	3	3	1	-	-
Primary 5		12	-	-	-	-	7	2	1	-	1	1
Primary 6		39	-	-	-	-	-	7	-	5	12	15
		Females										
		Total										
Total		68	2	8	8	4	4	9	3	3	17	10
Primary 1		3	2	1	-	-	-	-	-	-	-	-
Primary 2		11	-	7	4	-	-	-	-	-	-	-
Primary 3		8	-	-	4	2	1	1	-	-	-	-
Primary 4		8	-	-	-	2	2	4	-	-	-	-
Primary 5		5	-	-	-	-	1	2	1	1	-	-
Primary 6		33	-	-	-	-	-	2	2	2	17	10

Source : Ministry of Education

**15.8 ENROLMENT AT SECONDARY LEVELS IN PRIVATE REGULAR SCHOOLS
BY LEVEL AND AGE, END JUNE 1988**

Number

Level \ Age											
	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
Males											
Total	592	-	5	10	28	62	81	140	128	116	22
Secondary 1	99	-	4	7	21	39	16	11	-	1	-
Secondary 2	53	-	-	3	3	12	18	9	5	3	-
Secondary 3	49	-	1	-	4	6	13	11	3	7	4
Secondary 4	47	-	-	-	-	4	4	9	10	16	4
Pre-University 1	169	-	-	-	-	1	30	74	50	10	4
Pre-University 2	160	-	-	-	-	-	-	26	58	71	5
Pre-University 3	15	-	-	-	-	-	-	-	2	8	5
Females											
Total	978	-	5	6	50	57	167	245	235	144	69
Secondary 1	118	-	5	3	45	42	18	5	-	-	-
Secondary 2	48	-	-	3	3	11	14	9	7	1	-
Secondary 3	37	-	-	-	1	2	10	7	9	6	2
Secondary 4	33	-	-	-	1	1	3	6	9	8	5
Pre-University 1	424	-	-	-	-	1	122	172	85	34	10
Pre-University 2	218	-	-	-	-	-	-	44	96	56	22
Pre-University 3	100	-	-	-	-	-	-	2	29	39	30

Source : Ministry of Education

15.9 ENROLMENT IN INSTITUTIONS OF HIGHER LEARNING, 1978-1988

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
1978	13,013	7,087	4,762	3,720	-	-	6,248	1,466	1,750	549	253	1,352	-	-
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	28,603	18,301	8,193	7,921	2,650	1,751	10,479	3,553	7,066	4,213	172	802	43	61

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 1988, 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, 1978/79-1988/89

Number

Session Course	1978/79	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89
Total	3,949	4,030	5,081	5,596	6,570	6,907	8,749	9,470	8,987	9,617	9,923
National University of Singapore ¹	1,095	1,205	1,478	1,709	1,913	1,683	2,224	2,346	2,316	2,160	2,646
Arts & Social Sciences	159	137	181	225	237	172	223	242	262	238	321
Science ²	166	188	204	220	298	281	411	369	473	443	578
Medicine	82	91	105	132	147	134	157	143	128	102	97
Dentistry	16	25	20	19	22	23	35	29	22	21	24
Law	43	36	59	62	67	94	107	113	105	109	116
Business Administration	120	80	128	155	171	123	141	199	196	171	204
Accountancy ³	92	78	85	89	91	81	101	122	134	-	-
Architecture, Building & Estate Management	80	87	142	149	112	114	173	143	121	100	84
Engineering	337	483	554	658	768	661	876	986	875	976	1,222
Nanyang Technological Institute	-	-	-	-	-	-	-	641	695	887	988
Engineering	-	-	-	-	-	-	-	641	695	694	786
Accountancy ³	-	-	-	-	-	-	-	-	-	193	202
Singapore Polytechnic ⁴	2,143	2,022	2,743	2,964	3,335	3,700	4,109	3,820	3,510	3,846	3,482
Engineering	1,848	1,810	2,316	2,320	2,745	3,017	3,519	3,333	3,140	3,409	2,984
Architecture & Building	170	124	332	478	414	450	416	351	229	198	213
Nautical	125	88	95	119	120	105	87	71	71	83	62
Business Administration ⁵	-	-	-	47	56	128	87	65	70	106	100
Computer ⁶	-	-	-	-	-	-	-	-	-	50	123
Ngee Ann Polytechnic ⁷	584	547	733	796	1,173	1,348	2,262	2,436	2,276	2,485	2,513
Engineering	501	459	619	663	951	1,081	1,985	2,159	1,908	2,128	2,215
Business Studies	83	88	114	133	165	192	167	228	301	279	220
Computer Studies	-	-	-	-	57	75	110	49	67	78	78
Institute of Education	127	256	127	127	149	176	129	199	144	197	183
College of Physical Education ⁸	-	-	-	-	-	-	25	28	46	42	111

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, 1978/79-1988/89

Number

Session Course	1978/79	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89
Total	2,171	2,676	3,388	3,281	4,185	4,882	5,066	5,640	5,920	6,579	6,942
National University of Singapore ¹	839	974	1,524	1,719	2,024	2,478	2,217	2,308	2,581	2,326	2,691
Arts & Social Sciences	276	315	466	513	661	781	686	719	785	773	979
Science ²	176	221	390	439	461	521	501	538	598	689	685
Medicine	57	49	65	38	53	68	49	57	61	79	73
Dentistry	19	11	18	19	15	14	3	9	16	14	10
Law	40	61	60	72	94	103	105	87	130	87	84
Business Administration	83	117	198	238	269	397	353	292	332	337	845
Accountancy ³	109	132	218	258	296	342	326	334	400	-	-
Architecture, Building & Estate Management	30	37	63	70	106	125	108	115	106	126	164
Engineering	49	31	46	72	69	127	86	157	153	221	240
Nanyang Technological Institute	-	-	-	-	-	-	-	82	118	563	679
Engineering ³	-	-	-	-	-	-	-	82	118	138	170
Accountancy ³	-	-	-	-	-	-	-	-	-	425	509
Singapore Polytechnic ⁴	442	505	737	778	859	997	1,189	1,000	895	1,316	1,405
Engineering	369	426	532	474	553	625	790	727	721	836	797
Architecture & Building	73	79	205	300	302	343	347	222	101	119	122
Nautical	-	-	-	-	-	-	-	-	-	-	-
Business Administration ⁵	-	-	-	4	4	29	52	51	73	239	333
Computer ⁶	-	-	-	-	-	-	-	-	-	122	153
Ngee Ann Polytechnic ⁷	148	265	379	358	561	904	1,220	1,476	1,517	1,664	1,512
Engineering	36	99	163	125	179	303	528	611	474	540	543
Business Studies	112	166	216	233	319	436	582	765	865	934	801
Computer Studies	-	-	-	-	63	165	110	100	178	190	168
Institute of Education	742	932	748	426	741	503	418	737	778	671	570
College of Physical Education ⁸	-	-	-	-	-	-	22	37	31	39	85

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, 1977/78-1987/88

Number

Session Course	1977/78	1978/79	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88
Total	3,506	3,511	3,055	3,426	3,736	4,085	4,749	5,140	5,850	6,886	7,375
National University of Singapore ¹	812	897	902	1,117	1,254	1,397	1,583	1,337	1,384	1,584	1,631
Arts & Social Sciences	147	184	188	229	209	224	239	280	249	281	291
Science ²	65	127	99	198	293	270	219	313	345	432	414
Medicine	79	48	69	68	77	83	105	82	103	155	113
Dentistry	25	13	15	18	11	27	23	12	20	23	26
Law	30	56	41	43	36	31	52	60	71	82	100
Business Administration	107	102	86	147	139	145	161	178	140	151	201
Accountancy	95	74	81	92	96	91	80	73	81	99	-
Architecture, Building & Estate Management	58	77	77	51	91	112	155	146	130	152	180
Engineering	206	216	246	271	302	414	549	193	245	209	306
Nanyang Technological Institute	-	-	-	-	-	-	-	501	597	560	736
Singapore Polytechnic ³	2,012	2,014	1,590	1,594	1,838	1,965	2,148	2,223	2,527	2,776	2,909
Engineering	1,693	1,687	1,390	1,412	1,536	1,598	1,694	1,811	2,037	2,397	2,464
Architecture & Building	181	230	179	157	274	262	287	291	324	234	317
Nautical	138	97	21	25	28	67	106	79	80	35	30
Business Administration ⁴	-	-	-	-	-	38	61	42	86	55	39
Computer ⁵	-	-	-	-	-	-	-	-	-	55	59
Ngee Ann Polytechnic	528	492	452	493	492	585	834	953	1,167	1,769	1,878
Engineering	411	404	394	447	421	483	665	781	919	1,511	1,675
Business Studies	117	88	58	46	71	102	124	151	169	160	149
Computer Studies	-	-	-	-	-	-	45	21	79	98	54
Institute of Education	154	108	111	222	152	138	184	126	152	155	186
College of Physical Education ⁶	-	-	-	-	-	-	-	-	23	42	35

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, 1977/78-1987/88

Number

Session Course	1977/78	1978/79	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88
Total	1,733	2,207	1,789	2,941	2,783	2,866	3,583	3,814	4,610	5,071	5,260
National University of Singapore ¹	820	1,008	869	1,070	1,141	1,508	1,826	2,117	2,476	2,390	1,993
Arts & Social Sciences	337	373	330	390	414	541	600	766	873	828	808
Science	111	184	186	262	284	393	507	541	600	580	568
Medicine	36	42	47	53	51	44	58	55	47	45	56
Dentistry	20	18	18	18	11	16	21	15	15	17	2
Law	79	73	56	42	37	49	54	67	89	90	108
Business Administration	82	94	84	86	134	188	229	286	391	367	303
Accountancy	124	181	89	102	125	201	265	291	330	311	-
Architecture, Building & Estate Management	23	21	40	65	38	49	56	77	113	118	124
Engineering	8	22	19	52	47	27	36	19	18	34	24
Nanyang Technological Institute	-	-	-	-	-	-	-	56	64	104	386
Singapore Polytechnic ³	375	478	379	469	586	561	615	644	714	950	911
Engineering	235	317	261	317	355	325	382	435	520	662	588
Architecture & Building	140	161	118	152	231	233	229	205	168	172	211
Nautical	-	-	-	-	-	-	-	-	-	-	-
Business Administration ⁴	-	-	-	-	-	3	4	4	26	37	41
Computer ⁵	-	-	-	-	-	-	-	-	-	79	71
Ngee Ann Polytechnic	188	171	128	102	259	343	459	589	765	941	1,181
Engineering	44	55	51	28	105	141	126	141	246	422	496
Business Studies	144	116	77	74	154	202	273	366	405	418	546
Computer Studies	-	-	-	-	-	-	60	82	114	101	139
Institute of Education	350	550	413	1,300	797	454	683	408	570	649	757
College of Physical Education ⁶	-	-	-	-	-	-	-	-	21	37	32

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, 1984-1988

Number

Course Level	1984			1985			1986			1987			1988		
	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females
Total	17,197	14,194	3,003	22,276	18,043	4,233	23,687	18,669	5,018	28,863	22,088	6,775	29,688	23,403	6,285
Full-time	6,426	4,311	2,115	11,891	8,626	3,265	11,171	7,360	3,811	13,425	8,826	4,599	12,509	8,203	4,306
Part-time	10,771	9,883	888	10,385	9,417	968	12,516	11,309	1,207	15,438	13,262	2,176	17,179	15,200	1,979
Diploma in Applied Arts	65	22	43	95	26	69	88	28	60	82	35	47	108	42	66
Full-time	65	22	43	95	26	69	88	28	60	82	35	47	108	42	66
Industrial Technician Certificate	981	831	150	1,185	989	196	1,167	989	178	1,493	1,304	189	1,751	1,506	245
Full-time	656	540	116	885	717	168	905	744	161	1,168	1,000	168	1,336	1,125	211
Part-time	325	291	34	300	272	28	262	245	17	325	304	21	415	381	34
National Trade Certificate (Grade 2)	5,007	4,708	299	4,712	4,447	265	4,143	3,908	235	5,367	4,978	389	5,987	5,650	337
Full-time	762	707	55	1,076	1,012	64	752	672	80	1,241	1,097	144	1,346	1,229	117
Part-time	4,245	4,001	244	3,636	3,435	201	3,391	3,236	155	4,126	3,881	245	4,641	4,421	220
National Trade Certificate (Grade 3)	8,722	7,532	1,190	12,094	10,081	2,013	12,839	10,928	1,911	15,384	12,496	2,888	16,665	13,905	2,760
Full-time	2,994	2,394	600	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	5,728	5,138	590	6,069	5,333	736	8,558	7,563	995	10,402	8,653	1,749	11,943	10,308	1,635
Artisan Certificate/ Certificate of Competency	303	299	4	12	10	2	94	85	9	56	55	1	66	62	4
Full-time	224	220	4	12	10	2	44	44	-	28	28	-	-	-	-
Part-time	79	79	-	-	-	-	50	41	9	28	27	1	66	62	4
Pre-vocational Training	142	114	28	2,406	1,913	493	2,768	2,200	568	3,247	2,437	810	2,428	1,853	575
Full-time	142	114	28	2,406	1,913	493	2,768	2,200	568	3,247	2,437	810	2,428	1,853	575
Certificate in Business Studies	596	138	458	531	103	428	869	152	717	902	177	725	1,040	164	876
Full-time	596	138	458	531	103	428	869	152	717	902	177	725	1,040	164	876
Preliminary Certificate in Business Studies	914	103	811	851	87	764	1,464	155	1,309	1,775	209	1,566	1,529	193	1,336
Full-time	914	103	811	851	87	764	1,464	155	1,309	1,775	209	1,566	1,529	193	1,336
Ad hoc	467	447	20	390	387	3	255	224	31	557	397	160	114	28	86
Full-time	73	73	-	10	10	-	-	-	-	-	-	-	-	-	-
Part-time	394	374	20	380	377	3	255	224	31	557	397	160	114	28	86

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

Source : Vocational & Industrial Training Board

15.15 TRAINEES WHO COMPLETED COURSES AT VOCATIONAL AND INDUSTRIAL TRAINING INSTITUTES, 1984-1988

Number

Course Level	1984			1985			1986			1987			1988		
	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females
Total	17,113	14,392	2,721	18,049	14,847	3,202	21,180	17,266	3,914	23,963	19,000	4,963	26,026	20,756	5,270
Full-time	6,281	4,496	1,785	7,597	5,297	2,300	8,472	5,834	2,638	8,853	6,002	2,851	9,025	5,749	3,276
Part-time	10,832	9,896	936	10,452	9,550	902	12,708	11,432	1,276	15,110	12,998	2,112	17,001	15,007	1,994
Diploma in Applied Arts	30	13	17	59	22	37	64	25	39	65	22	43	78	20	58
Full-time	30	13	17	59	22	37	64	25	39	65	22	43	78	20	58
Industrial Technician Certificate	774	687	87	584	526	58	476	395	81	770	633	137	827	672	155
Full-time	748	669	79	532	480	52	425	348	77	641	517	124	700	557	143
Part-time	26	18	8	52	46	6	51	47	4	129	116	13	127	115	12
National Trade Certificate (Grade 2)	4,805	4,529	276	4,259	4,025	234	4,026	3,819	207	5,109	4,784	325	5,347	5,028	319
Full-time	509	465	44	462	422	40	646	585	61	1,009	911	98	737	638	99
Part-time	4,296	4,064	232	3,797	3,603	194	3,380	3,234	146	4,100	3,873	227	4,610	4,390	220
National Trade Certificate (Grade 3)	8,677	7,616	1,061	9,542	8,202	1,340	12,269	10,563	1,706	13,250	10,990	2,260	15,370	13,075	2,295
Full-time	2,818	2,411	407	3,302	2,662	640	3,344	2,727	617	2,820	2,822	538	3,302	2,678	624
Part-time	5,859	5,205	654	6,240	5,540	700	8,925	7,836	1,089	10,430	8,708	1,722	12,068	10,397	1,671
Artisan Certificate/ Certificate of Competency	747	743	4	12	10	2	66	62	4	56	55	1	56	56	-
Full-time	573	569	4	12	10	2	30	30	-	28	28	-	-	-	-
Part-time	174	174	-	-	-	-	36	32	4	28	27	1	56	56	-
Pre-vocational Training	134	107	27	1,930	1,556	374	2,407	1,914	493	2,779	2,080	699	2,132	1,638	494
Full-time	134	107	27	1,930	1,556	374	2,407	1,914	493	2,779	2,080	699	2,132	1,638	494
Certificate in Business Studies ¹	433	81	352	415	68	347	424	88	336	382	54	328	645	87	558
Full-time	433	81	352	415	68	347	424	88	336	382	54	328	645	87	558
Preliminary Certificate in Business Studies	923	68	855	876	68	808	1,132	117	1,015	1,129	108	1,021	1,431	131	1,300
Full-time	923	68	855	876	68	808	1,132	117	1,015	1,129	108	1,021	1,431	131	1,300
Ad hoc	590	548	42	372	370	2	316	283	33	423	274	149	140	49	91
Full-time	113	113	-	9	9	-	-	-	-	-	-	-	-	-	-
Part-time	477	435	42	363	361	2	316	283	33	423	274	149	140	49	91

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

Source : Vocational & Industrial Training Board

1 Include commercial courses.

15.16 GOVERNMENT EXPENDITURE ON EDUCATION, 1978/79-1988/89

Thousand Dollars

	1978/79	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89*
TOTAL	464,373	557,528	688,329	942,517	1,358,430	1,611,647	1,769,728	1,775,580	1,638,767	1,651,536	1,713,860
Recurrent Expenditure	424,030	503,137	589,420	712,732	983,751	1,107,113	1,272,559	1,388,325	1,277,288	1,350,106	1,518,115
Primary Schools	156,499	186,266	210,143	241,364	337,339	357,249	403,915	422,806	384,044	392,741	465,041
Secondary Schools & Junior Colleges	119,794	181,545	211,840	244,940	323,163	348,200	392,387	431,866	402,396	424,465	506,855
Vocational & Industrial Training Board ¹	50,029	25,000	29,694	38,900	47,401	55,121	65,662	80,294	68,966	64,191	73,022
Tertiary	75,212	86,532	109,650	156,105	229,057	291,782	350,152	387,224	362,813	411,096	405,001
National University of Singapore & Nanyang Technological Institute ²	48,570	58,185	74,557	108,527	156,435	197,947	240,448	253,811	240,805	293,443	268,365
Institute of Education & College of Physical Education ³	10,257	7,831	11,089	13,955	17,746	18,817	21,268	22,979	19,883	20,843	22,671
Polytechnics	16,385	20,516	24,004	33,623	54,876	75,018	88,436	110,434	102,125	96,810	113,966
Others ⁴	22,496	23,794	28,092	31,423	46,791	54,761	60,443	66,135	59,069	57,613	68,195
Development Expenditure	40,343	54,391	98,910	229,785	374,679	504,534	497,169	387,255	361,479	301,430	195,746

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

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

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

16 HEALTH AND MEDICAL CARE

The Ministry of Health's services to the population are provided by the following services: (a) Maternal and Child Health (MCH) and School Health Services (SHS) are provided at 22 community health clinics and 20 maternal and child health clinics. The community health clinics offer general and maternity 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 (SHS). (b) The health services provided by the Government are comprehensive. The Ministry of Health is responsible for the overall policy on health matters, the formulation of public health standards, the development of health programmes and the provision of health services and medical preventive measures. The provision of health services and medical preventive measures is the responsibility of the Ministry of Health. The Ministry monitors family planning and population policy.

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Primary Health Care Services

The Primary Health Care Services which include Community Health (CH), Maternal & Child Health (MCH) and School Health Services (SHS) are provided at 22 community health clinics and 20 maternal and child health clinics. The community health clinics offer general and maternity 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 (SHS).

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 22 community health clinics and 20 maternal and child health clinics. The community health clinics offer general and curative treatment while maternal and child health clinics concentrate on preventive health care for women of child-bearing age and pre-school children, and implementing immunization programmes for pre-school children. Health screening and immunization for school children is undertaken by School

Health Services.

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

Hospital Services

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

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

Other Medical and Supporting Services

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

Dental Services

The Dental Services provide curative and preventive dental treatment at 192 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, 1978-1988

Number

Year	Hospitals				Government Dental Clinics ¹	Government Outpatient Dispensaries/ Polyclinics	Maternal & Child Health Clinics
	Total	Government	Government Restructured	Private			
1978	24	13	-	11	134	26	32
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	22	10	1	11	183	24	23
1988	21	8	2	11	191	21	20

1 Include dental clinics in schools

Source : Ministry of Health

16.2 REGISTERED MEDICAL PERSONNEL, 1978-1988

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
1978	826	1,035	154	169	60	270	3,413	1,706	1,761	189	552	305
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

1 Refer to those with professional degrees.

Source : Ministry of Health

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

16.3 BEDS IN GOVERNMENT AND GOVERNMENT RESTRUCTURED HOSPITALS, 1978-1988

Number

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
GOVERNMENT HOSPITALS											
Total	8,493	8,485	8,078	8,365	8,246	8,222	8,085	8,047	7,889	7,797	7,348
General Hospitals											
Alexandra Hospital	483	503	503	503	545	545	545	560	600	594	563
Changi Hospital	180	180	202	202	202	203	203	203	182	182	182
Sembawang Hospital ¹	64	64	64	64	62	-	-	-	-	-	-
Singapore General Hospital	1,521	1,459	1,397	1,651	1,500	1,593	1,656	1,671	1,650	1,621	1,488
Tan Tock Seng Hospital	1,311	1,345	1,335	1,337	1,324	1,274	1,274	1,434	1,407	1,410	1,445
Toa Payoh Hospital	412	412	412	418	410	410	410	410	410	410	410
Specialised Hospitals											
Kandang Kerbau Hospital	687	687	687	687	687	681	681	681	561	561	510
St Andrew's Hospital ²	120	120	80	80	80	80	80	80	80	80	-
Middle Road Hospital ³	44	44	44	44	44	44	44	44	35	35	-
Middleton Hospital ⁴	228	228	228	228	228	228	228	-	-	-	-
Woodbridge Hospital ⁵	3,193	3,193	2,876	2,901	2,914	2,914	2,714	2,714	2,714	2,654	2,500
View Road Hospital	250	250	250	250	250	250	250	250	250	250	250
Govt Restructured Hospital											
National University Hospital ⁶	-	-	-	-	-	-	-	282	463	552	623

Source : Ministry of Health

1 Closed with effect from 31 March 1983.

2 Closed with effect from 1 January 1988.

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

16.4 PRIVATE HOSPITAL BEDS, 1978-1988

Number

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total	1,138	1,379	1,507	1,542	1,633	1,637	1,602	1,671	1,837	1,836	1,839
Gleneagles Hospital	76	121	121	121	121	121	127	127	127	126	130
Jurong Hospital	62	62	62	40	40	40	40	40	40	40	40
Mt Alvernia Hospital	326	326	326	312	304	304	304	304	304	304	304
The American Hospital of Singapore ¹	45	45	21	21	149	149	149	149	149	149	145
Youngberg Hospital	79	79	72	68	68	68	55	55	38	38	38
St Andrew's Mission Hospital ²	50	50	50	50	50	-	-	-	-	-	-
Singapore Nursing Home	20	20	30	30	45	45	45	45	45	45	45
Kwong Wai Shiu Hospital	425	425	425	425	425	425	425	505	505	505	456
Shenton Nursing Home	13	13	15	15	15	18	18	18	16	16	16
Thomson Medical Centre	-	74	77	96	96	96	96	108	108	108	160
Mt Elizabeth Hospital	-	120	264	322	282	337	323	300	485	485	485
Eye Clinic	22	22	22	20	20	20	20	20	20	20	20
Gental Nursing & Health Centre ³	20	22	22	22	18	14	-	-	-	-	-

Source : Ministry of Health

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

2 Services were discontinued after 22 April 1982.

3 Closed with effect from 1 February 1984.

16.5 ADMISSIONS IN GOVERNMENT AND GOVERNMENT RESTRUCTURED HOSPITALS, 1978-1988

Number

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Government Hospitals											
Total	209,130	234,328	234,502	230,330	233,683	226,991	230,138	229,995	220,739	224,145	235,958
Alexandra Hospital	28,339	33,089	34,841	33,056	32,459	31,553	33,898	33,255	30,930	31,832	30,360
Changi Hospital	2,520	3,157	4,113	5,289	3,888	4,343	3,466	3,755	4,157	4,102	4,964
Sembawang Hospital ¹	745	994	1,076	1,078	1,058	119	-	-	-	-	-
Singapore General Hospital	53,036	60,208	58,637	54,655	60,552	60,685	62,310	64,982	65,473	73,950	83,756
Tan Tock Seng Hospital	28,590	37,789	37,680	35,961	36,671	39,915	38,459	42,987	45,475	47,672	47,958
Toa Payoh Hospital	26,740	30,414	31,937	31,852	29,280	29,410	29,925	29,477	28,070	26,961	27,968
Kandang Kerbau Hospital	53,451	55,236	53,437	53,904	54,280	48,072	48,436	48,442	39,620	32,648	34,409
St Andrew's Hospital ²	265	180	192	152	104	122	174	124	158	140	-
Middle Road Hospital ³	669	618	682	846	925	820	887	738	767	803	673
Middleton Hospital ⁴	9,965	7,347	6,066	7,811	9,215	6,562	6,587	-	-	-	-
Woodbridge Hospital ⁵	4,757	5,243	5,738	5,598	5,177	5,335	5,828	6,056	5,959	5,908	5,756
View Road Hospital	53	53	103	128	74	55	168	179	130	129	114
Govt Restructured Hospital											
National University Hospital ⁶	-	-	-	-	-	-	-	2,993	17,280	26,735	31,557

Note : See note to Table 16.3.

Source : Ministry of Health

16.6 HOSPITAL ADMISSIONS AND GOVERNMENT CLINIC OUTPATIENT ATTENDANCES, 1978-1988

Number

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Hospital Admission											
Total	231,236	258,817	265,828	266,548	275,234	271,790	277,881	280,152	291,327	313,523	339,858
Government	209,130	234,328	234,502	230,330	233,683	226,991	230,138	229,995	220,739	224,145	235,958
Government Restructured ¹	-	-	-	-	-	-	-	2,993	17,280	26,735	31,557
Private	22,106	24,489	31,326	36,218	41,551	44,799	47,743	47,164	53,308	62,643	72,343
Government Outpatient Attendances											
Specialist Outpatient Clinics ²	1,209,544	1,321,992	1,275,260	1,234,808	1,238,563	1,241,146	1,222,789	1,222,808	1,200,267	1,339,712	1,386,308
Accident & Emergency Department ²	297,402	335,389	377,022	403,330	439,734	458,824	469,522	438,308	365,952	436,660	485,762
Outpatient Dispensaries/ Polyclinics	2,922,263	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	2,154,770
Maternal & Child Health Clinics	989,342	1,020,221	1,025,351	1,013,136	926,286	869,015	782,118	747,623	765,919	771,122	808,395
Dental Clinics	907,450	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 Started with effect from 24 June 1985.

2 Include Government Restructured Hospitals.

Source : Ministry of Health

16.7 VISITS TO GOVERNMENT DENTAL CLINICS, 1978-1988

Number

Year	Total	Dental Clinics		
		School	Hospital	Outpatient
1978	907,450	534,476	178,695	194,279
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

Source : Ministry of Health

16.8 NOTIFICATIONS OF SPECIFIC NOTIFIABLE DISEASES, 1978-1988

Number

Year	Dengue/ DHF	Malaria	Enteric Fever ¹	Viral Hepatitis	Cholera	Polio- myelitis	Diphthe- ria	Chicken pox	Viral Enceph- litis	Tuber- culosis	Leprosy
1978	384	166	174	393	83	1	-	674	30	2,964	71
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	1,638*	39

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

Source : Ministry of Health

¹ Refer to Typhoid and Paratyphoid.

16.9 IMMUNIZATION COVERAGE BY GOVERNMENT AND PRIVATE SECTORS, 1978-1988

Per cent

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988*
BCG											
National	88	87	85	83	87	82	95	93	94	98	99
Government	88	87	85	83	80	77	75	73	68	61	57
Private	na	na	na	na	7	5	20	20	26	37	42
Diphtheria											
National	86	87	84	87	83	84	77	78	91	96	90
Government	73	71	69	70	66	63	63	63	69	59	66
Private	13	16	15	17	17	18	14	15	22	37	24
Poliomyelitis											
National	83	84	83	87	83	86	81	81	94	95	90
Government	73	72	69	71	68	69	64	63	69	59	66
Private	10	12	14	16	15	17	17	18	25	36	24
Measles											
National	27	27	48	59	78	88	85	75	85	94	82
Government	27	25	44	54	71	78	73	61	64	63	62
Private	na	2	4	5	7	10	12	14	21	31	20

Source : Ministry of Health

16.10 VACCINATION AND IMMUNIZATION OF SCHOOL CHILDREN, 1978-1988

Thousand Doses

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
BCG Vaccination	30.6	29.4	27.4	28.8	44.5	35.2	35.4	32.9	29.2	31.2	39.0
Diphtheria Tetanus	124.1	124.7	115.5	110.1	98.0	84.7	81.2	81.8	78.5	71.0	79.2
Polioomyelitis Immunization	110.4	113.5	107.6	102.2	91.6	84.2	75.6	80.4	77.1	57.0	77.4
Rubella	20.9	36.3	26.9	17.7	51.2	44.6	44.9	44.5	40.0	38.2	41.7

Source : Ministry of Health

16.11 STUDENT MEDICAL CHECK-UP, 1978-1988

Thousand

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total	214.2	214.7	218.5	225.3	204.0	185.0	174.3	196.6	195.6	469.6	616.3
Category of Students:											
New Entrants	44.4	46.5	45.8	41.9	39.4	42.7	38.4	39.1	39.9	39.9	40.5
Primary School Leavers	44.0	42.9	40.3	37.2	55.7	48.3	48.8	47.2	42.9	39.7	42.7
Secondary School Leavers	18.0	17.8	15.2	15.0	15.6	17.2	21.4	37.4	35.7	35.2	38.7
Re-examination	106.9	106.3	115.1	130.2	92.6	74.5	64.0	71.7	77.2	354.8	485.6
Others	0.9	1.2	2.0	1.0	0.7	2.3	1.7	1.3	-	-	8.8 ¹
Sex of Students:											
Males	100.3	98.8	101.9	106.1	95.9	86.3	79.0	100.4	98.9	242.8	319.8
Females	113.9	115.9	116.6	119.2	106.1	98.7	95.3	96.2	96.7	226.8	296.5

1 VITB and Special School Students.

Source : Ministry of Health

16.12 COMMON DEFECTS OF STUDENTS EXAMINED, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Per 10,000 Males Examined											
Incidence of :											
Defective Vision	2,476	2,885	2,939	3,114	3,161	2,690	2,786	3,490	4,062	3,598	3,824
Obesity - Primary School Entrants	-	-	441	255	250	380	622	777	952	1,174	1,189
- Primary School Leavers	-	-	762	1,040	1,064	1,204	1,123	1,144	1,443	1,570	1,789
- Secondary School Leavers	-	-	-	-	-	-	-	-	-	1,271	1,320
Skin Infection	74	97	121	129	128	99	76	64	83	44	86
Scoliosis	-	-	33	61	78	127	331	587	477	538	494
Heart Disease	206	202	215	242	177	172	130	176	141	229	182
Defective Hearing	48	86	96	224	243	165	112	155	95	126	82
Genito-urinary Malformation	228	271	354	258	176	170	166	177	186	186	156
Per 10,000 Females Examined											
Incidence of :											
Defective Vision	3,433	3,851	3,779	4,158	3,558	3,747	3,773	4,409	4,514	3,998	4,151
Obesity - Primary School Entrants	-	-	386	195	181	239	555	650	761	973	1,004
- Primary School Leavers	-	-	572	799	944	952	757	716	930	1,023	1,020
- Secondary School Leavers	-	-	556	864	916	1,442	1,019	971	1,047	1,106	1,158
Skin Infection	108	65	109	101	70	78	173	50	49	23	73
Scoliosis	-	-	67	177	278	529	622	957	852	791	837
Heart Disease	206	198	210	190	193	373	138	201	147	189	182
Defective Hearing	29	68	97	184	211	142	88	126	72	83	81
Genito-urinary Malformation	110	120	105	75	65	45	55	40	40	60	36

Source : Ministry of Health

16.13 BLOOD DONATIONS AND TRANSFUSIONS, 1978-1988

Year	Donors	Blood Donations Received				Blood Transfusions Given			
		Total	National Blood Centre ¹	Mobile	Red Cross	Total	Government Hospitals	Government Restructured Hospital ²	Private Hospital
	Persons	Number of Units							
1978	40,349	56,670	31,775	24,895	-	44,969	42,865	-	2,104
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	38,875	57,991	36,814	16,684	4,493	52,617	40,547	4,264	7,806

Note : One unit of blood is approximately 430 millilitres

1 Formerly known as Blood Transfusion Service.

2 Started functioning from August 1985.

Source : Ministry of Health

The Singapore Broadcasting Corporation (SBC) was established in 1962, and its main function is to provide a wide range of radio and television programmes for the people of Singapore. The Corporation is a statutory body, and its operations are governed by the Singapore Broadcasting Corporation Act, 1962. The Corporation is responsible for the production and transmission of radio and television programmes, and for the management of the SBC's radio and television stations. The Corporation is also responsible for the collection and distribution of royalties to the authors and composers of the programmes it broadcasts.

Under the Singapore Broadcasting Corporation Act, 1962, a licence has to be obtained by every person using a radio and/or television receiver at any place of residence or in a motor vehicle. A licence permits the use of one or more television receivers and one or more radio receivers at any place of residence. The current annual licence fee is \$20 for a television receiver and \$10 for a radio receiver. The Corporation is also responsible for the collection and distribution of royalties to the authors and composers of the programmes it broadcasts.

On August 1, 1962, the commercial operations functions of the Corporation were transferred to the Singapore Radio and Television Corporation (SRTC), which was incorporated on January 1, 1963. The SRTC is a statutory body, and its operations are governed by the SRTC Act, 1962. The SRTC is responsible for the production and transmission of radio and television programmes, and for the management of the SRTC's radio and television stations. The SRTC is also responsible for the collection and distribution of royalties to the authors and composers of the programmes it broadcasts.

Rediffusion (Singapore) Pte Ltd, a commercial radio 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 \$15.00 per set for subscribers with radio or Radio and Television licences and \$8 per set for those without such licences.

17 CULTURE AND RECREATION

In 1962, the Singapore Broadcasting Corporation (SBC) was established, and its main function is to provide a wide range of radio and television programmes for the people of Singapore. The Corporation is a statutory body, and its operations are governed by the Singapore Broadcasting Corporation Act, 1962. The Corporation is responsible for the production and transmission of radio and television programmes, and for the management of the SBC's radio and television stations. The Corporation is also responsible for the collection and distribution of royalties to the authors and composers of the programmes it broadcasts.

The Singapore Broadcasting Corporation (SBC) was established on 1 January 1963, and took over the functions of the Department of Broadcasting and the Radio and Television Licensing Board. The Corporation is responsible for the production and transmission of radio and television programmes, and for the management of the SBC's radio and television stations. The Corporation is also responsible for the collection and distribution of royalties to the authors and composers of the programmes it broadcasts.

Radio and TV programmes of SBC are broadcast in English, Malay, Chinese, and Tamil. The Corporation is also responsible for the production and transmission of radio and television programmes, and for the management of the SBC's radio and television stations. The Corporation is also responsible for the collection and distribution of royalties to the authors and composers of the programmes it broadcasts.

SBC operates two radio services - one for each official language and the other a bilingual English-Mandarin service. The Corporation is also responsible for the production and transmission of radio and television programmes, and for the management of the SBC's radio and television stations. The Corporation is also responsible for the collection and distribution of royalties to the authors and composers of the programmes it broadcasts.

Television was introduced in Singapore on 16 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. SBC's A telecast service was inaugurated on 1 August 1963 and

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 five 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 \$7.50 per set for subscribers with Radio or Radio and Television Licences and \$9 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, 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, ie, 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 each branch specialising in a subject area besides 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 and collection of books are generated on a monthly and annual basis by the computer.

17.1 RADIO AND TELEVISION LICENCES AND REDIFFUSION SUBSCRIBERS, 1978-1988

Number

End of Year	Radio Licences	Radio & Television Licences	Rediffusion Subscribers
1978	57,284	353,248	93,175
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

Source: Singapore Broadcasting Corporation
Rediffusion (Singapore) Pte Ltd

17.2 RADIO AND TELEVISION TRANSMISSION, 1978-1988

Hours Per Week

Year	Radio						Television
	Total	AM/FM				FM Stereo	
		Malay	Chinese	Tam11	English		
1978	569	135	147	105	126	56	104.0
1979	569	135	147	105	126	56	104.0
1980	639	135	147	105	126	126	113.0
1981	639	135	147	105	126	126	115.0
1982	639	135	147	105	126	126	115.0
1983	646	135	147	112	126	126	115.0
1984	646	135	147	112	126	126	132.0
1985	649	135	148	112	127	127	149.2
1986	649	135	148	112	127	127	155.0
1987	653	135	148	112	131	127	155.0
1988	653	135	148	112	131	127	156.0

Source : Singapore Broadcasting Corporation

17.3 CINEMAS, 1978-1988

Year	Cinemas			Total Seating Capacity	Attendances
	Total	Air Conditioned	Others		
	Number			Thousand	
1978	72	56	16	67	44,676
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

Source : Customs & Excise Department

17.4 NATIONAL LIBRARY MEMBERSHIP, 1978-1988

Number

Year	Total	Persons Aged 12 Years & Over ¹	Children Under 12 Years ²
1978	335,191	156,298	178,893
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

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, 1978-1988

Number

Year	Total	English	Chinese	Malay	Tamil
1978	1,138,803	593,005	329,959	143,247	72,592
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

Source : Singapore National Library

17.6 LOANS OF BOOKS AT THE NATIONAL LIBRARY, 1978-1988

Number

Year	Total	Persons Aged 12 Years & Over ¹	Children Under 12 Years ²
1978	2,921,554	1,398,529	1,523,025
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

Note : See note to Table 17.4

Source : Singapore National Library

17.7 DAILY NEWSPAPER CIRCULATION, 1978-1988

Number

Year	Total	English	Chinese	Malay	Indian
1978	534,373	232,631	265,338	28,655	7,749
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

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