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YEARBOOK OF STATISTICS SINGAPORE 1987

DEPARTMENT OF STATISTICS
SINGAPORE

PREFACE

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The Yearbook of Statistics, Singapore, 1987 is the twenty-first edition. The Yearbook puts together, in a concise and convenient form, available important statistical series on the demographic, economic and social characteristics of Singapore. The contents of this Yearbook have been reviewed and improved to keep abreast of the latest developments in Singapore.

The Department of Statistics also publishes the Singapore Statistical Charts, 1987 which highlights various socio-economic trends in Singapore in colour graphs and charts. This Yearbook together with the Singapore Statistical Charts 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 the organisations that have provided data for publication in this Yearbook.

KHOO CHIAN KIM
CHIEF STATISTICIAN
DEPARTMENT OF STATISTICS
SINGAPORE

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CONTENTS

1.1	Chinese and Land Use	1.1
1.2	Land Use	1.2
1.3	Land Use	1.3
1.4	Land Use	1.4
1.5	Land Use	1.5
1.6	Land Use	1.6
1.7	Land Use	1.7
1.8	Land Use	1.8
1.9	Land Use	1.9
1.10	Land Use	1.10
1.11	Land Use	1.11
1.12	Land Use	1.12
1.13	Land Use	1.13
1.14	Land Use	1.14
1.15	Land Use	1.15
1.16	Land Use	1.16
1.17	Land Use	1.17
1.18	Land Use	1.18
1.19	Land Use	1.19
1.20	Land Use	1.20
1.21	Land Use	1.21
1.22	Land Use	1.22
1.23	Land Use	1.23
1.24	Land Use	1.24
1.25	Land Use	1.25
1.26	Land Use	1.26
1.27	Land Use	1.27
1.28	Land Use	1.28
1.29	Land Use	1.29
1.30	Land Use	1.30
1.31	Land Use	1.31
1.32	Land Use	1.32
1.33	Land Use	1.33
1.34	Land Use	1.34
1.35	Land Use	1.35
1.36	Land Use	1.36
1.37	Land Use	1.37
1.38	Land Use	1.38
1.39	Land Use	1.39
1.40	Land Use	1.40
1.41	Land Use	1.41
1.42	Land Use	1.42
1.43	Land Use	1.43
1.44	Land Use	1.44
1.45	Land Use	1.45
1.46	Land Use	1.46
1.47	Land Use	1.47
1.48	Land Use	1.48
1.49	Land Use	1.49
1.50	Land Use	1.50
1.51	Land Use	1.51
1.52	Land Use	1.52
1.53	Land Use	1.53
1.54	Land Use	1.54
1.55	Land Use	1.55
1.56	Land Use	1.56
1.57	Land Use	1.57
1.58	Land Use	1.58
1.59	Land Use	1.59
1.60	Land Use	1.60
1.61	Land Use	1.61
1.62	Land Use	1.62
1.63	Land Use	1.63
1.64	Land Use	1.64
1.65	Land Use	1.65
1.66	Land Use	1.66
1.67	Land Use	1.67
1.68	Land Use	1.68
1.69	Land Use	1.69
1.70	Land Use	1.70
1.71	Land Use	1.71
1.72	Land Use	1.72
1.73	Land Use	1.73
1.74	Land Use	1.74
1.75	Land Use	1.75
1.76	Land Use	1.76
1.77	Land Use	1.77
1.78	Land Use	1.78
1.79	Land Use	1.79
1.80	Land Use	1.80
1.81	Land Use	1.81
1.82	Land Use	1.82
1.83	Land Use	1.83
1.84	Land Use	1.84
1.85	Land Use	1.85
1.86	Land Use	1.86
1.87	Land Use	1.87
1.88	Land Use	1.88
1.89	Land Use	1.89
1.90	Land Use	1.90
1.91	Land Use	1.91
1.92	Land Use	1.92
1.93	Land Use	1.93
1.94	Land Use	1.94
1.95	Land Use	1.95
1.96	Land Use	1.96
1.97	Land Use	1.97
1.98	Land Use	1.98
1.99	Land Use	1.99
2.00	Land Use	2.00
2.01	Land Use	2.01
2.02	Land Use	2.02
2.03	Land Use	2.03
2.04	Land Use	2.04
2.05	Land Use	2.05
2.06	Land Use	2.06
2.07	Land Use	2.07
2.08	Land Use	2.08
2.09	Land Use	2.09
2.10	Land Use	2.10
2.11	Land Use	2.11
2.12	Land Use	2.12
2.13	Land Use	2.13
2.14	Land Use	2.14
2.15	Land Use	2.15
2.16	Land Use	2.16
2.17	Land Use	2.17
2.18	Land Use	2.18
2.19	Land Use	2.19
2.20	Land Use	2.20
2.21	Land Use	2.21
2.22	Land Use	2.22
2.23	Land Use	2.23
2.24	Land Use	2.24
2.25	Land Use	2.25
2.26	Land Use	2.26
2.27	Land Use	2.27
2.28	Land Use	2.28
2.29	Land Use	2.29
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2.32	Land Use	2.32
2.33	Land Use	2.33
2.34	Land Use	2.34
2.35	Land Use	2.35
2.36	Land Use	2.36
2.37	Land Use	2.37
2.38	Land Use	2.38
2.39	Land Use	2.39
2.40	Land Use	2.40
2.41	Land Use	2.41
2.42	Land Use	2.42
2.43	Land Use	2.43
2.44	Land Use	2.44
2.45	Land Use	2.45
2.46	Land Use	2.46
2.47	Land Use	2.47
2.48	Land Use	2.48
2.49	Land Use	2.49
2.50	Land Use	2.50
2.51	Land Use	2.51
2.52	Land Use	2.52
2.53	Land Use	2.53
2.54	Land Use	2.54
2.55	Land Use	2.55
2.56	Land Use	2.56
2.57	Land Use	2.57
2.58	Land Use	2.58
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2.60	Land Use	2.60
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2.68	Land Use	2.68
2.69	Land Use	2.69
2.70	Land Use	2.70
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2.74	Land Use	2.74
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3.00	Land Use	3.00
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3.93	Land Use	3.93
3.94	Land Use	3.94
3.95	Land Use	3.95
3.96	Land Use	3.96
3.97	Land Use	3.97
3.98	Land Use	3.98
3.99	Land Use	3.99
4.00	Land Use	4.00

CONTENTS

	Page
Key Indicators	1 - 18
Economic Indicators	2 - 13
Social Indicators	14 - 18
 Climate and Land Use	 19 - 24
1.1 Temperature, Rainfall and Sunshine	22
1.2 Land Use	23
1.3 Air Pollution Levels	24
 Demography	 25 - 46
2.1 Population	28
2.2 Male Population Estimates by Age Group	29
2.3 Female Population Estimates by Age Group	30
2.4 Population Estimates by Age Group, Ethnic Group and Sex, End June 1977	31
2.5 Population Estimates by Age Group, Ethnic Group and Sex, End June 1987	32
2.6 Vital Statistics	33
2.7 Age Specific and Total Fertility Rates, Gross and Net Reproduction Rates	34
2.8 Live-births by Birth Order	35
2.9 Male and Female Age Specific Death Rates, 1982-1987	36
2.10 Deaths by Broad Groups of Causes	37
2.11 Population Aged 60 Years and Over	38 - 40
2.12 Marriages Registered by Ethnic Group of Couple	41
2.13 Marriages by Age Group of Grooms and Brides, 1985-1987	42
2.14 Average Age at Marriage of Grooms and Brides	43
2.15 Age Specific Marriage Rates, 1970, 1979-1987	44
2.16 Divorces by Ethnic Group of Couple, 1980-1987	45
2.17 Divorcees by Age Group and Sex, 1985-1987	46

Labour, Employment and Productivity Movement**47 - 74**

3.1	Labour Force, 1974-1987	52
3.2	Persons Aged 15 and Over by Activity Status, Age Group and Sex, 1987	53
3.3	Age-Sex Specific Labour Force Participation Rates, 1970, 1980 and 1985-1987	54
3.4	Employed Persons by Industry, 1970, 1979-1987	55
3.5	Employed Persons by Occupation, 1970, 1979-1987	56
3.6	Employed Persons Aged 15 and Over by Industry and Occupation, 1987	57
3.7	Government Employees by Divisional Status	58
3.8	Employed Persons by Gross Monthly Income	59
3.9	Changes in Productivity by Sector, 1979-1987	60
3.10	Average Weekly Earnings by Industry and Occupation, 1978-1987	61 - 63
3.11	Average Weekly Hours Worked by Industry	64
3.12	Registration at Employment Service	65
3.13	Central Provident Fund Contributors by Age Group	66
3.14	Central Provident Fund Contributors by Wage Level	67
3.15	Central Provident Fund Contributors by Industry	68
3.16	Central Provident Fund Members by Age Group	69
3.17	Central Provident Fund Members by Balances	70
3.18	Enrolment in National Productivity Board Courses, 1982-1987	71
3.19	Participants in Seminars and Workshops, 1982-1987	72
3.20	Quality Control Circles, 1982-1987	72
3.21	Trade Unions and Membership	73
3.22	Industrial Stoppages and Trade Disputes	74

National Income and Balance of Payments		75 - 88
4.1 Indigenous Gross National Product	.. .. .	79
4.2 Output, Saving and Investment	.. .. .	80
4.3 Gross Domestic Product by Industry	.. .. .	81
4.4 Quarterly Gross Domestic Product by Industry	.. .. .	82
4.5 Gross Domestic Product Deflators by Industry	.. .. .	83
4.6 Expenditure on Gross Domestic Product	.. .. .	84
4.7 Deflators of Expenditure on Gross Domestic Product	.. .. .	85
4.8 Private Consumption Expenditure	.. .. .	86
4.9 Gross Fixed Capital Formation	.. .. .	87
4.10 Balance of Payments	.. .. .	88
 Agriculture, Livestock and Fisheries		 89 - 94
5.1 Production of Principal Crops	.. .. .	92
5.2 Livestock Slaughtered	.. .. .	93
5.3 Fresh Fish Supply and Auctioned	.. .. .	94
 Manufacturing		 95 - 119
6.1 Principal Manufacturing Statistics	.. .. .	98
6.2 Selected Ratios of Principal Manufacturing Statistics	.. .. .	99
6.3 Manufacturing Establishments by Industry	.. .. .	100 - 101
6.4 Manufacturing Output by Industry	.. .. .	102 - 103
6.5 Census Value Added of Manufacturing Establishments by Industry	.. .. .	104 - 105
6.6 Workers in Manufacturing by Industry	.. .. .	106 - 107
6.7 Remuneration of Employees in Manufacturing by Industry	.. .. .	108 - 109
6.8 Quantity of Output of Selected Manufactured Products, 1977-1986	.. .. .	110
6.9 Value of Output of Selected Manufactured Products, 1977-1986	.. .. .	111
6.10 Quarterly Index of Industrial Production, 1986 and 1987	.. .. .	112 - 113
6.11 Annual Index of Industrial Production, 1982-1987	.. .. .	114 - 115

Manufacturing (continued)

6.12	Net Investment Commitments in Manufacturing by Industry	116
6.13	Net Investment Commitments in Manufacturing by Country of Origin	117
6.14	Principal Statistics of Pioneer Manufacturing Establishments, 1976-1986	118
6.15	Principal Statistics of Pioneer Manufacturing Establishments by Industry Group, December 1986	119

Electricity, Gas and Water Supply**121 - 126**

7.1	Electricity Production and Sales	124
7.2	Gas Production and Sales	125
7.3	Water Production and Sales	126

Building Construction and Housing**127 - 146**

8.1	Planning Approvals	130
8.2	Commencement of Building Construction	131
8.3	Construction Projects Completed	132
8.4	Planning Approvals by Type of Development	133
8.5	Planning Approvals by Type of Development in the Public Sector	134
8.6	Planning Approvals by Type of Development in the Private Sector	135
8.7	Commencement of Building Construction by Type of Development	136
8.8	Commencement of Building Construction by Type of Development in the Public Sector	137
8.9	Commencement of Building Construction by Type of Development in the Private Sector	138
8.10	Construction Projects Completed by Type of Development	139
8.11	Public Sector Construction Projects Completed by Type of Development	140
8.12	Private Sector Construction Projects Completed by Type of Development	141
8.13	Building Plan Approvals by Type of Development in the Private Sector	142
8.14	Residential Units in the Public Sector by Type of Building and Stage of Development	143
8.15	Residential Units in the Private Sector by Type of Building and Stage of Development	144

Building Construction and Housing (continued)

8.16	Properties Under the Management of Housing and Development Board	..	145
8.17	Residential Units Constructed and Sold by Housing and Development Board	..	146

Commerce and Services**147 - 153**

9.1	Principal Statistics of the Commerce Sector by Industry, 1977-1985	..	150
9.2	Selected Averages and Ratios in the Commerce Sector, 1977-1985	..	151
9.3	Principal Statistics of the Services Sector by Industry, 1978-1985	..	152
9.4	Selected Averages and Ratios in the Services Sector, 1978-1985	..	153

External Trade**155 - 176**

10.1	External Trade, 1978-1987	..	159
10.2	Total Trade by Region and Selected Country	..	160 - 161
10.3	Imports by Region and Selected Country	..	162 - 163
10.4	Exports by Region and Selected Country	..	164 - 165
10.5	Domestic Exports by Region and Selected Country	..	166 - 167
10.6	Imports by Commodity	..	168
10.7	Exports by Commodity	..	169
10.8	Domestic Exports by Commodity	..	170
10.9	Imports of Specific Commodities	..	171 - 173
10.10	Exports of Specific Commodities	..	174 - 176

Transport and Communications**177 - 200**

11.1	Vessels Registered in Singapore, 1983-1987	..	180
11.2	Age Distribution of Vessels Registered in Singapore, December 1987	..	180
11.3	Vessels Licensed in Singapore	..	181
11.4	Vessels Entered and Cleared	..	182
11.5	Sea Cargo Discharged and Loaded	..	183
11.6	Sea Cargo Discharged and Loaded by Region and Selected Country of Origin and Destination, 1983-1987	..	184

Transport and Communications (continued)

11.7	Civil Aircraft Landings, Passengers and Mail	185
11.8	Air Cargo Discharged and Loaded by Region and Selected Country of Origin and Destination, 1983-1987	186
11.9	Air Passengers by Region and Selected Country of Embarkation and Disembarkation, 1983-1987	187
11.10	Visitor Arrivals by Citizenship	188
11.11	Visitor Arrivals by Region and Selected Country of Residence	189
11.12	Visitor Arrivals by Region and Selected Country of Embarkation	190
11.13	Visitor Arrivals by Purpose of Visit	191
11.14	Average Length of Stay of Visitors by Purpose of Visit and Type of Accommodation, 1978-1987	192
11.15	Visitor Arrivals, Hotels and Cess Collection	193
11.16	Returning Singapore Residents by Region and Selected Country of Embarkation	194
11.17	Returning Singapore Residents by Purpose of Travel and Length of Stay Overseas, 1978-1987	195
11.18	Public Roads	196
11.19	Motor Vehicles Registered	197
11.20	Road Casualties	198
11.21	Postal Articles Handled	199
11.22	Telecommunications	200

Finance and Insurance**201 - 228**

12.1	Currency in Circulation	204
12.2	Money Supply	205
12.3	Factors Affecting Money Supply	206
12.4	Official Foreign Reserves	207
12.5	Exchange Rates	208
12.6	Assets of Banks	209
12.7	Liabilities of Banks	210

Finance and Insurance (continued)

12.8	Banks' Loans and Advances to Non-bank Customers by Industry	..	..	211
12.9	Assets and Liabilities of Asian Currency Units	..	..	212
12.10	Assets and Liabilities of Finance Companies	..	..	213
12.11	Finance Companies Loans and Advances by Industry	..	..	214
12.12	Assets and Liabilities of Merchant Banks, 1978-1987	..	..	215
12.13	Assets and Liabilities of Discount Houses, 1976-1986	..	..	216
12.14	Domestic Interest Rates	..	..	217
12.15	Deposits and Withdrawals of Post Office Savings Bank	..	..	218
12.16	Contributions and Withdrawals of Central Provident Fund	..	..	218
12.17	Withdrawals of Central Provident Fund by Type	..	..	219
12.18	Turnover of Stocks and Shares	..	..	220
12.19	Stock Exchange of Singapore Indices	..	..	221
12.20	Pledges at Pawnshops	..	..	222
12.21	Life Insurance Policies, 1977-1986	..	..	223
12.22	Revenue and Expenditure Accounts of Life Insurance Funds, 1977-1986	..	..	224
12.23	Assets of Life Insurance Funds, 1977-1986	..	..	225
12.24	Premiums and Claims of General Insurance Funds, 1977-1986	..	..	226
12.25	Revenue and Expenditure Accounts of General Insurance Funds, 1977-1986	..	..	227
12.26	Assets of General Insurance Funds, 1977-1986	..	..	228

Public Finance**229 - 240**

13.1	Economic Classification of Government Revenue	..	..	232
13.2	Functional Classification of Government Recurrent Expenditure	..	..	233
13.3	Sources and Uses of Development Fund	..	..	234
13.4	Government Debt	..	..	235
13.5	Revenue Collected by Customs and Excise Department	..	..	236

Public Finance (continued)

13.6	Revenue Collected by Inland Revenue Department	237
13.7	Taxpayers, Assessed Income and Tax Assessed, 1985 and 1986	238
13.8	Assessed Income and Tax Assessed on Individuals by Assessed Income Group, 1985 and 1986	239
13.9	Income Tax Assessed on Companies by Assessed Income Group, 1985 and 1986	240

Prices 241 - 255

14.1	Consumer Price Index, 1978-1987	244
14.2	Retail Prices of Selected Foodstuffs	245 - 247
14.3	Domestic Supply Price Index, 1978-1987	248
14.4	Singapore Manufactured Products Price Index, 1978-1987	249
14.5	Import Price Index, 1978-1987	250
14.6	Export Price Index, 1978-1987	251
14.7	Building Materials Price Index, 1978-1987	252
14.8	Local Farm Products Price Index, 1978-1987	253
14.9	Produce Prices	254
14.10	Property Price Index, 1977-1986	255

Education 257 - 278

15.1	Enrolment in Educational Institutions	263
15.2	Students and Teachers in Educational Institutions, End June 1987	264
15.3	Primary Schools, Students and Teachers by Type of School	265
15.4	Primary School Students and Teachers by Language Medium of School, 1976-1986	266
15.5	Enrolment in Primary Schools by Age and Level, End June 1987	267
15.6	Secondary Schools, Students and Teachers by Type of School	268
15.7	Secondary School Students and Teachers by Language Medium of School, 1976-1986	269
15.8	Enrolment in Secondary Schools by Age and Level, End June 1987	270

Education (continued)

15.9	Enrolment in Institutions of Higher Learning	..	..	..	..	271
15.10	Male Students Admitted to Institutions of Higher Learning	..	..	..	..	272
15.11	Female Students Admitted to Institutions of Higher Learning	..	..	..	..	273
15.12	Male Graduates from Institutions of Higher Learning	..	..	..	..	274
15.13	Female Graduates from Institutions of Higher Learning	..	..	..	..	275
15.14	Intake of Trainees of Vocational and Industrial Training Institutes, 1983-1987					276
15.15	Trainees Who Completed Courses at Vocational and Industrial Training Institutes, 1983-1987	..	..	..	..	277
15.16	Government Expenditure on Education	..	..	..	..	278

Health**279 - 296**

16.1	Hospitals, Government Clinics and Dispensaries	..	..	..	..	282
16.2	Registered Medical Personnel	..	..	..	..	283
16.3	Government Hospital Beds	..	..	..	..	284
16.4	Private Hospital Beds	..	..	..	..	285
16.5	Admissions in Government Hospitals	..	..	..	..	286
16.6	Visits to Outpatient Dispensaries	..	..	..	..	287
16.7	Visits to Government Dental Clinics	..	..	..	..	288
16.8	Maternity Services	..	..	..	..	289
16.9	Notifications of Specific Notifiable Diseases	..	..	..	..	290
16.10	Vaccination and Immunization of Pre-school Children		..	..	..	291
16.11	Vaccination and Immunization of School Children	..	..	..	..	292
16.12	Student Medical Check-up	..	..	..	..	293
16.13	Common Defects Among Students	..	..	..	..	294
16.14	Family Planning	..	..	..	..	295
16.15	Blood Donations and Transfusions	..	..	..	..	296

Culture and Recreation

297 - 306

17.1	Radio and Television Licences and Rediffusion Subscribers	..	..	..	300
17.2	Radio and Television Transmission	..	..	..	301
17.3	Cinemas	..	..	..	302
17.4	National Library Membership	..	..	..	303
17.5	Book Collections at the National Library	..	..	..	304
17.6	Loans of Books at the National Library	..	..	..	305
17.7	Daily Newspaper Circulation	..	..	..	306

KEY INDICATORS

NOTATIONS

* preliminary
na not available
- nil or negligible

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

Year	Country	Indicator 1: ...				Indicator 2: ...				Year
		...	...	...	...	...	...	...	...	
2000	...	...	...	...	...	...	...	...	...	...
2001	...	...	...	...	...	...	...	...	...	...
2002	...	...	...	...	...	...	...	...	...	...
2003	...	...	...	...	...	...	...	...	...	...
2004	...	...	...	...	...	...	...	...	...	...
2005	...	...	...	...	...	...	...	...	...	...
2006	...	...	...	...	...	...	...	...	...	...
2007	...	...	...	...	...	...	...	...	...	...
2008	...	...	...	...	...	...	...	...	...	...
2009	...	...	...	...	...	...	...	...	...	...
2010	...	...	...	...	...	...	...	...	...	...
2011	...	...	...	...	...	...	...	...	...	...
2012	...	...	...	...	...	...	...	...	...	...
2013	...	...	...	...	...	...	...	...	...	...
2014	...	...	...	...	...	...	...	...	...	...
2015	...	...	...	...	...	...	...	...	...	...
2016	...	...	...	...	...	...	...	...	...	...
2017	...	...	...	...	...	...	...	...	...	...
2018	...	...	...	...	...	...	...	...	...	...
2019	...	...	...	...	...	...	...	...	...	...
2020	...	...	...	...	...	...	...	...	...	...

KEY INDICATORS

ECONOMIC INDICATORS

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									
1977	15,851.7	6,011	5,079.3	5,799.1	22,143.3	7,187.3	15,010.4	2,669.2	12,341.2	396.4	18,293.5	59.7
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	39,550.9	12,872	15,746.8	14,566.3	39,605.1	14,614.5	23,901.9	5,541.6	18,360.3	1,443.0	37,502.9	100.0
1987*	43,272.2	13,982	17,657.7	16,522.6	43,095.3	15,148.3	25,406.1	5,516.8	19,889.3	1,743.0	45,020.4	117.0

1 Exclude petrochemicals.

2 Refer to establishments engaging 10 or more workers.

GROWTH RATES IN ECONOMIC INDICATORS

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						
1977	8.8	9.4	10.9	-3.1	7.8	1.9	6.1	9.2	5.5	30.7	13.1	9.2
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	-1.9	-3.6	-4.8	-12.0	1.8	-11.0	3.5	-0.1	4.6	28.8	-3.4	8.6
1987*	9.4	8.6	12.1	13.4	8.8	3.7	6.3	-0.4	8.3	20.8	20.0	17.0

ECONOMIC INDICATORS (continued)

Year	Building & Construction				External Trade								
	Gross Floor Area				Total	Exports							Imports
	Planning Approval	Building Plan Approval ³	Building Commence-ment	Building Completion		Total	Domestic Exports			Re-exports			
							Total	Oil	Non-oil	Total	Oil	Non-oil	
Thousand Square Metres				Million Dollars									
1977	5,694.3	1,663.8	5,492.5	5,879.5	45,612.2	20,090.3	11,651.8	5,871.9	5,779.9	8,438.5	176.9	8,261.6	25,521.9
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

3 Refers to private sector only.

GROWTH RATES IN ECONOMIC INDICATORS (continued)

Per Cent

Year	Building & Construction				External Trade								
	Gross Floor Area				Total	Exports							Imports
	Planning Approval	Building Plan Approval	Building Commence-ment	Building Completion		Total	Domestic Exports			Re-exports			
							Total	Oil	Non-oil	Total	Oil	Non-oil	
1977	-6.0	8.1	-2.8	5.2	18.0	23.5	24.5	25.5	23.4	22.2	16.7	22.4	13.9
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	37.6	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

ECONOMIC INDICATORS (continued)

Year	Transport & Communications								Utilities		
	Sea Cargo Handled			Air Cargo Handled			Outgoing Telex Calls	International Telephone Calls ⁴	Electricity Production	Gas Production	Water Consump- tion
	Total	Loaded	Discharged	Total	Loaded	Discharged	Thousand		Million Kilowatt Hours		Million Cubic Metres
Thousand Freight Tonnes			Tonnes								
1977	64,118.6	24,284.8	39,833.8	88,503	53,142	35,361	3,056	1,301	5,114.7	487.5	210.0
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	352,806	160,182	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

⁴ Exclude calls to Peninsular Malaysia.

GROWTH RATES IN ECONOMIC INDICATORS (continued)

Per Cent

Year	Transport & Communications								Utilities		
	Sea Cargo Handled			Air Cargo Handled			Outgoing Telex Calls	International Telephone Calls	Electricity Production	Gas Production	Water Consumption
	Total	Loaded	Discharged	Total	Loaded	Discharged					
1977	10.6	19.8	5.7	15.5	17.6	12.5	31.2	20.8	11.1	6.7	6.3
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

ECONOMIC INDICATORS (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
1977	2.4394	4,412.1	9,022.9	4.24	18,238.0	8,969.5	10,183.0	7.02	5.53	21,018.3	2,463.9
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	8,378.4
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	19,279.7
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	32,148.2

5 Include bills financing.

GROWTH RATES IN ECONOMIC INDICATORS (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	
1977	-1.3	10.3	9.2	10.4	5.7	14.5	3.5	4.1	21.1	-7.3
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	1.8

ECONOMIC INDICATORS (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
									Amount Insured		
	Million Dollars						Million Units		Million Dollars		
1977	1,305.5	169.3	431.4	1,589.0	4,954.0	1,161.6	643.8	183,099	3,323.4	209.8	87.5
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	5,176.1	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	230.2
1987	5,362.9	359.9	1,544.6	11,165.3*	30,607.8*	22,478.2	9,757.9	na	na	na	na

6 Refer to end of year figures.

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 (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		
1977	9.6	52.2	-2.0	59.5	21.8	-40.1	-10.0	17.8	22.3	6.9	30.2
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	4.4
1987	9.7	24.6	6.9	5.7*	4.3*	181.0	146.9	na	na	na	na

ECONOMIC INDICATORS (continued)

Year	Government Finance						Measures of Inflation			Tourism	
	Revenue ⁹	Recurrent Expenditure 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	Per Cent
1977	3,320.0	2,382.2	9,130.2	8,143.1	987.1	0.8	74.8	77.2	72.4	1,506.7	83.3
1978	3,595.6	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	4,125.7	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	5,239.1	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	6,607.4	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	7,931.8	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	9,510.9	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	9,859.2	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	9,181.0	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	8,473.1	6,281.9	33,793.1	33,341.7	451.4	2.4	102.3	84.9	96.3	3,191.1	64.7
1987	9,018.4	8,465.9	38,274.3	37,971.1	303.2	1.3*	102.8	91.3	97.2	3,678.8	68.8

9 Refers to receipts other than capital receipts credited to the Consolidated Revenue Account.

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

11 Refer to end of year figures.

12 Figures excluded Malaysian arrivals by land. For 1977, they further excluded other arrivals by land as well as Malaysian arrivals coming direct to Singapore by air and sea.

GROWTH RATES IN ECONOMIC INDICATORS (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 ¹³	Hotel Occupancy Rate
			Total	Domestic	External					
1977	12.6	15.4	24.8	22.3	49.9	3.2	4.5	1.5	14.1	6.3
1978	8.3	18.2	17.1	18.8	3.2	4.8	1.6	2.5	10.3	3.8
1979	14.7	8.4	15.9	18.0	-4.1	4.0	14.4	5.3	9.8	-1.3
1980	27.0	19.5	18.3	20.3	-4.1	8.5	19.6	11.4	14.0	0.8
1981	26.1	7.8	16.8	18.3	-4.3	8.2	3.9	6.7	10.4	-0.5
1982	20.0	20.4	21.0	22.3	-2.4	3.9	-4.2	4.2	4.5	-5.7
1983	19.9	20.8	20.7	22.7	-23.2	1.2	-3.7	3.9	-3.5	-6.6
1984	3.7	5.4	12.2	12.6	-4.5	2.6	-0.6	0.7	4.8	-
1985	-6.9	10.6	14.6	15.1	-7.0	0.5	-2.3	-1.2	1.3	-12.7
1986	-7.7	-5.9	5.1	5.6	-24.3	-1.4	-15.1	-3.7	5.3	-1.8
1987	6.4	34.8	13.3	13.9	-32.8	0.5	7.5	0.9	15.3	6.3

¹³ To maintain comparability, the growth rate for 1978 was computed by excluding Malaysian visitors embarking direct from Peninsular Malaysia.

SOCIAL INDICATORS

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	
1977	2,325.3	1.3	3,773	22.9	53.5	14.3	16.5	5.1	77.5	12.4	1,820	877
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	16.8*	5.0	80.7	7.4*	1,646*	793*

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 (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		
1977	30	26	4,925	78.5	80.5	68.9	61.7	61.5	453	579	3,345
1978	29	25	5,239	79.1	81.7	74.5	62.3	60.3	521	666	3,691
1979	28	23	5,718	78.9	82.8	74.2	65.1	63.4	625	1,028	4,171
1980	30	22	4,844	78.6	84.0	83.3	68.6	67.9	702	1,220	4,845
1981	31	21	6,367	81.5	84.4	81.7	70.1	61.2	833	1,382	6,400
1982	31	21	6,519	84.1	84.8	87.3	75.4	64.1	1,167	1,827	8,496
1983	29	21	6,951	88.3	85.3	87.0	74.5	65.4	1,229	1,910	9,369
1984	27	23	8,292	91.3	85.6	85.5	79.9	65.3	1,399	2,090	9,742
1985	26	22	8,986	92.0	86.0	85.9	89.0	66.2	1,521	2,269	9,702
1986	26	23	10,416	94.3	86.4	85.6	85.3	70.8	1,429	1,981	8,574
1987	25	22	11,878	93.8	86.8	86.5	88.1	73.9	1,541	2,103	9,382*

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

⁵ Refers to population 10 years and over.

⁶ For financial year beginning 1 April. Figures for 1987 are based on Budget estimates.

SOCIAL INDICATORS (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
1977	941	3.9	58.5	75.9	25.3	68	1,259	7,725	240
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

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

8 For financial year beginning 1 April.

SOCIAL INDICATORS (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 ^a	12 Years & Over ^a	Per Person	Per 1,000 Population		Public Bus	Private Car	Taxi
1977	216	25.2	10.1	19	142	196	427	17	385
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

^a Prior to 1981, figures refer to children under 15 years.

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

SOCIAL INDICATORS (continued)

Year	Public Housing ¹⁰				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 ¹¹	Per Cent Owner-occupied	Public Flats	Owner-occupied Public Flats	Kilowatt Hour	Cubic Metre		Million Dollars	Per 10,000 Population	
1977	295,161	62	64	31	1,938.0	78.0	3,804	18.9	86	30
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

¹⁰ 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. *

¹¹ Refer to end of year figures.

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 industrialised country and is developing into an international centre in finance, transport and communications, and other services.

The land area of Singapore is approximately 622.6 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 135.7 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 Mount Faber Ridge and Pasir Panjang Ridge with Kranji River flowing into the Straits of Johore and Jurong River into the Straits of Singapore; 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 48.7 per cent has been developed for residential, commercial and industrial usage and another 5.2 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 11 stations located in urban, industrial and rural areas. Some of the pollutants commonly monitored are total acidity, smoke, nitrogen oxides and dust fall-out. The nitrogen oxides measurement has been reduced to

2 stations in 1987. The air pollution levels in 1987 remained low and were all within acceptable air quality 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.

1.1 TEMPERATURE, RAINFALL AND SUNSHINE

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	
1977	30.9	23.7	71	1,775	94	141	5.7
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

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

Square Kilometre

Year	Total	Built-up Area ¹	Farm Holding Area ²	Forest	Marsh & Tidal Waste	Others ³
1977	616.3	264.3	102.8	32.4	26.7	190.1
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

1 Includes new industrial sites.

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

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

Source : Survey Department

1.3 AIR POLLUTION LEVELS

Year	Total Acidity Levels			Smoke Levels			Nitrogen Oxides Levels			Dust Fall-out 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		
1977	38	47	32	32	20	17	77	65	57	0.38	0.67	0.22
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

Source : Pollution Control Department

2 DEMOGRAPHY

Population Census

The first census in Singapore was taken in April 1871. Since then, regular decennial censuses were undertaken up to 1931. The Second World War delayed the subsequent census till 1947. In the pre-war censuses, Singapore was included as part of the Straits Settlements and, later part of Malaya. Separate censuses for Singapore were carried out since 1947. The latest census was conducted in 1980.

The census data generally referred to all persons enumerated in Singapore at the time of the census. This would include persons in fishing kelongs and on board ships and boats. They excluded non-locally domiciled services personnel and their dependants, ships' crew and passengers in transit in Singapore waters and foreign visitors in hotels.

Mid-year Estimates

The mid-year population estimates for the intercensal years 1971-1979 were based on the

1970 census data and estimates of natural increase. The estimates were revised to include migration deduced from the 1980 census data. Mid-year population estimates for 1981 to 1987 exclude migration.

Births and Deaths

The Registration of Births and Deaths Act stipulates that a birth must be registered within 42 days and a death within 3 days of occurrence. Still-births are classified separately from births and deaths and 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 government hospitals. Deaths and still-births can also be registered at gazetted police stations/sub-stations/police posts. The registration system is comprehensive and the records of vital statistics are virtually complete.

The crude birth and crude death rates are defined as the number of live-births and deaths respectively per thousand mid-year population.

Fertility Rates

The age-specific fertility rate refers to the number of births attributable to mothers of a specific age group per one thousand females in that age group.

The total fertility rate 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. The gross reproduction rate, which gives the average number of daughters produced by each woman during her whole reproductive period, is similarly computed on the basis of female births only. The net reproduction rate 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.

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

Muslim divorces are compiled from records maintained by the Syariah Court. 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.

2.1 POPULATION

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													
1977	2,325.3	1,187.3	1,138.0	175.6	165.1	899.3	886.0	87.9	64.0	24.5	22.9	1.3	1,043
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

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

2.2 MALE POPULATION ESTIMATES BY AGE GROUP

Thousand

Age Group (Years)	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	1,187.3	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
0 - 4	111.3	105.8	102.8	100.9	101.4	101.8	104.8	105.1	107.7	107.6	106.5
5 - 9	115.7	116.2	116.5	115.8	113.0	110.1	104.9	102.5	100.3	100.9	101.4
10 - 14	138.3	133.3	126.4	120.8	117.3	116.0	116.2	116.4	115.6	112.8	109.9
15 - 19	153.8	153.0	151.8	148.2	143.8	138.6	133.2	126.2	120.6	117.0	115.7
20 - 24	139.2	144.4	148.5	152.8	155.3	155.1	153.9	151.8	147.4	143.0	137.9
25 - 29	116.5	120.7	125.0	129.4	134.6	140.2	144.8	148.3	151.9	154.4	154.1
30 - 34	76.8	86.0	95.1	107.4	115.2	117.3	120.9	124.8	128.6	133.7	139.4
35 - 39	71.4	71.7	71.8	68.9	69.0	77.6	86.4	95.0	106.5	114.2	116.4
40 - 44	58.4	59.6	63.3	66.5	69.4	71.1	71.5	71.4	68.0	68.1	76.8
45 - 49	53.2	53.8	53.7	54.7	56.1	56.8	58.2	62.0	65.2	68.1	69.8
50 - 54	43.1	44.5	46.5	48.3	49.9	50.6	51.5	51.6	52.8	54.1	55.1
55 - 59	35.4	36.1	36.4	37.0	38.0	39.6	41.3	43.3	45.3	46.9	47.7
60 - 64	28.4	28.6	29.1	29.8	30.7	31.4	32.0	32.8	33.3	34.3	35.7
65 - 69	22.8	23.3	23.7	23.7	23.4	23.5	23.8	24.4	25.3	26.2	26.9
70 & Over	23.0	24.4	25.7	27.5	29.2	30.7	32.1	33.1	34.4	35.6	36.9

Census of Population.

2.3 FEMALE POPULATION ESTIMATES BY AGE GROUP

Thousand

Age Group (Years)	1977	1978	1979	1980 ¹	1981	1982	1983	1984	1985	1986	1987
Total	1,138.0	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
0 - 4	103.8	98.4	95.2	92.8	93.4	93.6	96.2	96.7	99.8	99.3	98.5
5 - 9	108.8	109.0	108.9	108.1	105.4	102.6	97.7	94.9	92.4	93.1	93.2
10 - 14	131.4	126.2	119.9	114.7	111.0	109.0	109.2	109.0	108.0	105.2	102.4
15 - 19	143.1	142.9	142.1	139.2	135.9	131.6	126.1	119.8	114.5	110.8	108.8
20 - 24	132.8	137.0	140.5	143.4	144.9	144.5	143.8	142.3	138.9	135.6	131.3
25 - 29	112.5	116.0	119.9	124.1	128.9	133.7	137.6	140.7	143.0	144.5	144.3
30 - 34	74.4	83.4	92.0	103.7	111.5	113.7	116.9	120.1	123.7	128.5	133.1
35 - 39	70.9	71.3	70.3	66.9	66.4	74.9	83.7	92.0	103.2	111.0	113.1
40 - 44	56.3	57.5	61.9	65.0	68.3	70.3	70.7	70.0	66.4	66.0	74.3
45 - 49	49.2	50.0	50.6	52.5	54.3	55.1	56.6	60.9	64.2	67.5	69.6
50 - 54	38.0	40.0	42.2	44.8	46.7	48.0	48.9	49.6	51.4	53.3	54.0
55 - 59	32.8	33.5	34.1	34.4	35.1	36.7	38.5	40.8	43.3	45.1	46.6
60 - 64	28.7	28.8	29.2	29.9	30.6	30.9	31.6	32.2	32.4	33.2	34.8
65 - 69	23.5	24.6	25.2	25.6	25.7	25.9	26.2	26.7	27.3	28.0	28.4
70 & Over	31.8	33.6	35.2	37.1	38.9	40.9	42.8	44.7	46.6	48.2	50.2

¹ Census of Population.

2.4 POPULATION ESTIMATES BY AGE GROUP, ETHNIC GROUP AND SEX, END JUNE 1977

Age Group (Years)	Total			Malays			Chinese			Indians			Others		
	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
Total	Thousand														
	2,325.3	1,187.3	1,138.0	340.7	175.6	165.1	1,785.3	899.3	886.0	151.9	87.9	64.0	47.4	24.5	22.9
0 - 4	215.1	111.3	103.8	32.0	16.6	15.4	166.2	86.1	80.1	11.6	5.9	5.7	5.3	2.7	2.6
5 - 9	224.5	115.7	108.8	36.9	18.8	18.1	168.9	87.3	81.6	14.0	7.2	6.8	4.7	2.4	2.3
10 - 14	269.7	138.3	131.4	50.2	25.6	24.6	197.4	101.5	95.9	18.2	9.3	8.9	3.9	1.9	2.0
15 - 19	296.9	153.8	143.1	50.7	26.7	24.0	222.3	114.5	107.8	19.9	10.8	9.1	4.0	1.8	2.2
20 - 24	272.0	139.2	132.8	40.3	20.8	19.5	210.7	107.6	103.1	16.9	9.0	7.9	4.1	1.8	2.3
25 - 29	229.0	116.5	112.5	29.4	14.8	14.6	181.1	92.1	89.0	13.3	7.0	6.3	5.2	2.6	2.6
30 - 34	151.2	76.8	74.4	18.9	9.4	9.5	119.1	60.3	58.8	8.4	4.5	3.9	4.8	2.6	2.2
35 - 39	142.3	71.4	70.9	16.9	8.0	8.9	112.4	56.3	56.1	9.0	4.9	4.1	4.0	2.2	1.8
40 - 44	114.7	58.4	56.3	16.5	8.0	8.5	86.9	43.9	43.0	8.2	4.7	3.5	3.1	1.8	1.3
45 - 49	102.4	53.2	49.2	14.4	7.4	7.0	75.8	37.4	38.4	9.6	6.9	2.7	2.6	1.5	1.1
50 - 54	81.1	43.1	38.0	12.3	7.1	5.2	58.2	28.2	30.0	8.6	6.6	2.0	2.0	1.2	0.8
55 - 59	68.2	35.4	32.8	9.1	5.3	3.8	51.2	24.1	27.1	6.4	5.1	1.3	1.5	0.9	0.6
60 - 64	57.1	28.4	28.7	5.3	2.9	2.4	47.1	22.0	25.1	3.8	3.0	0.8	0.9	0.5	0.4
65 - 69	46.3	22.8	23.5	4.1	2.2	1.9	39.5	18.6	20.9	2.2	1.7	0.5	0.5	0.3	0.2
70 & Over	54.8	23.0	31.8	3.7	2.0	1.7	48.5	19.4	29.1	1.8	1.3	0.5	0.8	0.3	0.5
Total	Per Cent														
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0 - 19	43.3	43.7	42.8	49.8	49.9	49.7	42.3	43.3	41.2	41.9	37.8	47.7	37.8	35.9	39.7
20 - 39	34.2	34.0	34.3	31.0	30.2	31.8	34.9	35.2	34.7	31.4	28.9	34.7	38.2	37.6	38.9
40 - 59	15.7	16.0	15.5	15.4	15.8	14.9	15.2	14.8	15.6	21.6	26.5	14.8	19.4	22.0	16.6
60 & Over	6.8	6.3	7.4	3.8	4.1	3.6	7.6	6.7	8.5	5.1	6.8	2.8	4.6	4.5	4.8

2.5 POPULATION ESTIMATES BY AGE GROUP, ETHNIC GROUP AND SEX, END JUNE 1987

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	2,612.8	1,330.2	1,282.6	393.8	203.0	190.8	1,988.6	1,002.1	986.5	169.1	93.8	75.3	61.3	31.3	30.0
0 - 4	205.0	106.5	98.5	39.3	20.2	19.1	141.3	73.7	67.6	16.0	8.3	7.7	8.4	4.3	4.1
5 - 9	194.6	101.4	93.2	32.0	16.6	15.4	144.7	75.5	69.2	12.0	6.2	5.8	5.9	3.1	2.8
10 - 14	212.3	109.9	102.4	32.2	16.7	15.5	164.1	85.0	79.1	11.1	5.7	5.4	4.9	2.5	2.4
15 - 19	224.5	115.7	108.8	36.2	18.4	17.8	169.7	87.7	82.0	13.9	7.2	6.7	4.7	2.4	2.3
20 - 24	269.2	137.9	131.3	48.9	24.9	24.0	198.4	101.9	96.5	18.1	9.2	8.9	3.8	1.9	1.9
25 - 29	298.4	154.1	144.3	50.4	26.8	23.6	224.0	114.8	109.2	20.0	10.8	9.2	4.0	1.7	2.3
30 - 34	272.5	139.4	133.1	39.8	20.8	19.0	211.2	107.5	103.7	17.0	9.2	7.8	4.5	1.9	2.6
35 - 39	229.5	116.4	113.1	28.7	14.5	14.2	181.2	91.8	89.4	13.4	7.1	6.3	6.2	3.0	3.2
40 - 44	151.1	76.8	74.3	18.1	9.1	9.0	118.9	60.1	58.8	8.5	4.5	4.0	5.6	3.1	2.5
45 - 49	139.4	69.8	69.6	16.1	7.6	8.5	110.4	55.1	55.3	8.7	4.7	4.0	4.2	2.4	1.8
50 - 54	109.1	55.1	54.0	15.3	7.4	7.9	83.2	41.6	41.6	7.6	4.3	3.3	3.0	1.8	1.2
55 - 59	94.3	47.7	46.6	12.8	6.5	6.3	70.9	34.2	36.7	8.3	5.7	2.6	2.3	1.3	1.0
60 - 64	70.5	35.7	34.8	10.4	5.9	4.5	51.9	24.0	27.9	6.6	4.9	1.7	1.6	0.9	0.7
65 - 69	55.3	26.9	28.4	7.0	4.0	3.0	42.8	18.9	23.9	4.4	3.4	1.0	1.1	0.6	0.5
70 & Over	87.1	36.9	50.2	6.6	3.6	3.0	75.9	30.3	45.6	3.5	2.6	0.9	1.1	0.4	0.7
	Per Cent														
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0 - 19	32.0	32.6	31.4	35.5	35.4	35.5	31.1	32.1	30.2	31.3	29.2	34.0	39.0	39.3	38.7
20 - 39	40.9	41.2	40.7	42.6	42.9	42.4	41.0	41.5	40.4	40.5	38.7	42.8	30.2	27.1	33.3
40 - 59	18.9	18.7	19.1	15.8	15.1	16.6	19.3	19.1	19.5	19.6	20.5	18.4	24.6	27.5	21.7
60 & Over	8.2	7.5	8.8	6.1	6.6	5.5	8.6	7.3	9.9	8.6	11.6	4.8	6.2	6.1	6.3

2.6 VITAL STATISTICS

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
1977	38,364	19,917	18,445	11,955	474	26,409	16.5	5.1	11.4	12.4
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*	43,889	22,731	21,154	13,173	324	30,716	16.8	5.0	11.8	7.4

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

2.7 AGE SPECIFIC AND TOTAL FERTILITY RATES, GROSS AND NET REPRODUCTION RATES

Per Thousand Female Population

Age Group (Years)	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
15 - 19	13.4	11.8	11.4	12.2	11.5	11.2	10.3	10.2	9.7	8.5	8.2
20 - 24	90.3	86.8	85.1	79.9	80.3	77.1	70.0	66.9	66.9	59.5	60.4
25 - 29	138.9	140.9	139.3	137.3	136.3	133.9	124.8	124.5	124.7	110.5	125.9
30 - 34	85.2	86.8	88.4	84.5	82.0	83.3	79.5	83.2	86.6	76.4	94.2
35 - 39	28.7	26.7	27.5	27.2	28.6	30.4	29.2	31.9	31.2	29.0	34.3
40 - 44	6.9	5.3	5.5	5.7	5.4	4.9	3.8	4.8	4.5	4.8	6.0
45 - 49	0.6	0.6	1.0	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2
TOTAL FERTILITY RATE	1,820	1,795	1,791	1,737	1,723	1,706	1,589	1,609	1,619	1,445	1,646
Gross Reproduction Rate	877	869	853	840	830	816	765	770	780	694	793
Net Reproduction Rate	849	841	825	819	810	796	746	750	760	677	772

2.8 LIVE-BIRTHS BY BIRTH ORDER

Birth Order	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
Number											
Total¹	38,364	39,441	40,779	41,217	42,250	42,654	40,585	41,556	42,484	38,379	43,889
1st	16,138	16,424	17,253	17,968	18,599	19,105	18,255	18,071	18,638	17,336	17,773
2nd	12,101	12,962	13,645	13,999	14,431	14,593	14,078	15,171	15,498	13,406	16,453
3rd	6,221	6,463	6,630	6,236	6,305	6,228	5,757	5,877	5,900	5,443	6,992
4th	2,231	2,181	2,002	1,885	1,876	1,777	1,655	1,606	1,525	1,337	1,598
5th	745	674	601	590	522	506	470	436	443	382	406
6th & Over	879	659	538	422	438	391	302	276	236	205	247
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
1st	42.1	41.6	42.3	43.6	44.0	44.8	45.0	43.5	43.9	45.2	40.5
2nd	31.6	32.9	33.5	34.0	34.2	34.2	34.7	36.5	36.5	34.9	37.5
3rd	16.2	16.4	16.3	15.1	14.9	14.6	14.2	14.1	13.9	14.2	15.9
4th	5.8	5.5	4.9	4.6	4.4	4.2	4.1	3.9	3.6	3.5	3.6
5th	1.9	1.7	1.5	1.4	1.2	1.2	1.2	1.0	1.0	1.0	0.9
6th & Over	2.3	1.7	1.3	1.0	1.0	0.9	0.7	0.7	0.6	0.5	0.6

* Total includes birth order not stated.

2.9 MALE AND FEMALE AGE SPECIFIC DEATH RATES, 1982-1987

Per Thousand Population

Age Group (Years)	Males						Females					
	1982	1983	1984	1985	1986	1987*	1982	1983	1984	1985	1986	1987*
Total	5.9	6.0	5.9	5.8	5.5	5.6	4.5	4.6	4.4	4.6	4.4	4.5
Under 1 ¹	12.5	10.3	9.0	10.2	9.6	8.4	8.6	8.5	8.5	8.3	9.0	6.1
1 - 4	0.8	0.7	0.7	0.4	0.5	0.5	0.6	0.7	0.6	0.4	0.3	0.4
5 - 9	0.4	0.3	0.4	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2
10 - 14	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.3
15 - 19	0.9	0.9	0.9	0.9	0.8	0.6	0.4	0.4	0.4	0.5	0.3	0.4
20 - 24	1.3	1.2	1.2	1.0	1.1	0.9	0.5	0.6	0.5	0.4	0.5	0.4
25 - 29	1.3	1.3	1.4	1.2	1.1	1.0	0.7	0.6	0.6	0.7	0.5	0.6
30 - 34	1.4	1.6	1.3	1.4	1.2	1.2	0.8	0.9	0.7	0.8	0.9	0.8
35 - 39	2.0	2.0	2.1	1.9	1.8	1.8	1.2	1.1	1.1	1.2	0.9	1.1
40 - 44	3.0	3.1	3.2	3.0	2.9	2.6	1.8	1.8	1.7	1.5	1.8	1.7
45 - 49	5.7	5.2	5.5	5.1	4.4	4.4	3.2	2.9	3.3	2.8	2.6	2.8
50 - 54	9.8	10.3	10.0	8.8	8.9	8.2	5.8	5.2	5.3	5.0	4.7	5.1
55 - 59	17.1	16.2	16.8	16.9	14.8	14.8	8.7	8.8	8.2	8.2	7.8	8.1
60 - 64	26.2	25.9	25.4	24.7	22.7	23.6	14.3	14.3	13.7	14.8	13.5	13.6
65 - 69	40.7	40.6	41.0	37.0	36.4	32.8	24.1	23.5	22.4	23.2	21.3	20.7
70 & Over	87.8	89.9	83.6	84.4	77.7	79.5	67.1	70.3	64.5	65.3	60.8	61.8

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

2.10 DEATHS BY BROAD GROUPS OF CAUSES

Causes of Death	Number										
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
All Causes	11,955	12,065	12,468	12,505	12,863	12,896	13,321	13,162	13,348	12,821	13,173
Infective & Parasitic Diseases	523	502	503	425	432	393	432	390	375	402	415
of which : Tuberculosis	340	318	331	240	221	207	224	163	177	177	177
Neoplasms	2,326	2,415	2,542	2,623	2,672	2,729	2,903	2,817	2,939	2,921	3,133
of which : Cancer	2,286	2,386	2,488	2,561	2,616	2,668	2,858	2,776	2,893	2,887	3,096
Endocrine, Nutritional & Metabolic Diseases	429	403	403	359	404	397	423	512	492	508	517
of which : Diabetes	377	334	347	319	368	361	373	469	464	479	490
Diseases of the Blood & Blood-forming Organs	50	45	41	31	42	33	33	28	29	30	33
Diseases of the Nervous System & Sense Organs	110	114	122	131	114	121	92	97	87	87	91
Diseases of the Circulatory System	3,889	3,983	4,233	4,305	4,413	4,430	4,436	4,637	4,651	4,482	4,521
of which : Heart & Hypertensive Diseases	2,426	2,518	2,752	2,777	2,892	2,866	2,911	3,156	3,129	3,028	3,122
Cerebrovascular Disease	1,360	1,382	1,409	1,447	1,438	1,469	1,454	1,413	1,418	1,355	1,326
Diseases of the Respiratory System	1,902	1,724	2,024	1,965	2,196	2,257	2,429	2,096	2,241	1,974	1,790
of which : Pneumonia	1,215	942	1,124	1,129	1,284	1,375	1,513	1,204	1,287	1,082	937
Bronchitis	114	107	89	75	67	68	77	55	69	53	49
Diseases of the Digestive System	382	359	382	368	385	400	403	369	394	326	310
Diseases of the Genito-Urinary System	324	381	349	366	366	319	375	405	319	343	386
Congenital Anomalies	141	185	184	185	178	182	155	172	189	202	162
of which : Congenital Anomalies of Heart	70	98	105	111	109	101	86	91	84	101	77
Certain Causes of Perinatal Mortality	247	239	261	227	208	215	149	151	147	128	117
Accidents, Poisonings & Violence	914	1,057	876	899	938	966	1,085	1,095	1,082	1,025	1,200
of which : Motor Vehicle Accidents	264	299	236	250	281	326	323	343	292	265	na
Other Accidents	239	256	160	122	157	198	231	194	214	223	na
Suicides	224	266	249	271	191	239	267	211	327	329	na
Other Diseases & Causes	718	658	548	621	515	454	406	393	403	393	498
of which : Senility	571	505	359	403	237	219	208	236	170	140	125

Note : Deaths for 1977-1978 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.

2.11 POPULATION AGED 60 YEARS AND OVER

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Demographic Characteristics											
persons Aged 60 Years & Over ('000)	158.2	163.3	168.1	173.6	178.5	183.3	188.5	193.9	199.3	205.5	212.9
Percentage of Total Population	6.8	6.9	7.1	7.2	7.3	7.4	7.5	7.7	7.8	7.9	8.1
Sex Ratios (Males Per 1,000 Females)											
of Persons Aged											
60 - 69 Years	981	972	971	965	961	967	965	971	982	989	991
70 Years & Over	723	726	730	739	751	751	750	740	738	739	735
60 Years & Over	883	877	876	874	875	876	874	872	875	878	877
Literacy Rate of Persons Aged 60 Years & Over											
(Per 1,000 Population)											
Males	659	671	683	695	706	716	727	737	750	762	773
Females	165	175	185	194	208	219	230	241	255	270	285
Economic Characteristics											
Economically Active Persons											
Aged 60 Years & Over ('000)	39.0	34.2	39.2	37.7	40.1	39.7	42.5	42.2	41.1	38.5	38.2
Percentage of Total Economically Active	4.2	3.5	3.7	3.4	3.5	3.4	3.5	3.5	3.4	3.1	3.1
Employed Persons Aged 15-59 Years ('000)											
Self-employed (%)	13.3	12.7	12.1	13.6	11.5	12.0	12.4	12.7	12.7	12.8	12.6
Employees (%)	83.6	84.3	84.8	83.9	86.2	85.7	85.5	85.4	85.4	85.4	85.2
Employed Persons Aged 60 Years & Over ('000)											
Self-employed (%)	38.7	33.7	38.7	37.7	39.2	39.3	41.8	41.4	40.4	37.0	37.4
Employees (%)	46.2	42.8	44.2	44.9	42.0	39.9	42.8	39.8	37.9	43.0	44.3
	50.3	53.8	51.9	52.5	54.2	56.9	53.8	56.3	58.4	52.5	52.0

2.11 POPULATION AGED 60 YEARS AND OVER (continued)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Mortality											
Deaths Aged 60 Years & Over (No.)	7,433	7,493	7,866	8,002	8,208	8,286	8,760	8,524	8,819	8,476	8,823
Percentage of Total	62.2	62.1	63.1	64.0	63.8	64.3	65.8	65.0	66.1	66.1	67.0
Age-specific Death Rates (Per 1,000 Population)											
Males Aged : 60 - 69 Years	37.2	35.7	35.9	35.9	35.6	32.4	32.2	32.0	30.0	28.6	27.6
70 Years & Over	92.0	90.3	92.2	86.9	85.1	87.8	89.9	83.6	84.4	77.7	79.5
60 Years & Over	54.2	53.1	54.3	53.2	52.9	52.3	53.3	50.9	50.1	46.8	46.8
Females Aged : 60 - 69 Years	22.5	21.3	20.9	20.1	19.4	18.8	18.5	17.6	18.7	17.1	16.8
70 Years & Over	70.4	68.5	70.0	69.3	69.6	67.1	70.3	64.5	65.3	60.8	61.8
60 Years & Over	40.6	39.5	40.2	39.9	39.9	39.0	40.5	37.9	39.1	36.4	36.7
Major Causes of Deaths Aged 60 Years & Over (Per 1,000 Population)											
Heart & Hypertensive Diseases	10.5	10.7	11.2	11.2	11.0	10.9	11.0	11.7	11.4	10.6	10.4*
Malignant Neoplasms	8.3	8.8	8.8	9.3	9.0	8.6	9.6	8.6	8.9	8.8	8.7*
Cerebrovascular Diseases	6.8	6.8	6.6	6.6	6.3	6.4	6.3	5.7	5.8	5.5	4.9*
Pneumonia	5.7	4.4	5.3	5.2	5.7	6.0	6.6	5.1	5.3	4.5	3.5*
Tuberculosis (All Forms)	1.5	1.4	1.4	1.0	0.9	0.8	0.9	0.6	0.7	0.6	0.6*

2.11 POPULATION AGED 60 YEARS AND OVER (continued)

	1978	1979	1980	1981	1982	1983	1984	1985	1986
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
Percentage of Total	12.9	14.3	16.6	16.1	16.8	17.3	17.7	17.5	17.5
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
Percentage of Total	25.5	25.6	26.7	26.3	25.7	28.2	26.8	28.3	28.2
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
60 Years & Over	21.6	18.3	16.1	16.2	14.9	15.8	14.1	14.5	14.3
All Ages	11.0	10.2	10.0	9.9	9.7	9.7	9.3	9.0	8.9
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
Cancer	19.0	21.0	22.2	24.3	23.1	23.2	23.0	22.9	25.9
Cataract	9.3	10.4	12.8	14.9	13.4	13.8	12.9	15.3	20.7
Chronic Obstructive Lung Diseases	na	na	11.2	11.5	11.7	10.8	11.7	10.9	11.4
Cerebrovascular Diseases	8.5	10.1	9.1	10.3	8.6	9.3	9.4	10.6	11.5
Diabetes Mellitus	5.1	6.4	6.9	8.0	7.5	6.9	7.3	6.9	7.4
Fracture of Lower Limb	4.4	4.8	5.5	6.4	6.0	4.8	5.5	5.8	5.2
Pneumonia	3.4	5.1	4.5	4.6	4.3	4.5	4.5	4.8	4.5
Peptic Ulcer	4.7	5.3	5.3	5.9	5.2	4.4	4.7	4.2	4.8
Tuberculosis	4.8	5.4	4.7	4.2	4.2	3.7	3.5	3.1	2.8

2.12 MARRIAGES REGISTERED BY ETHNIC GROUP OF COUPLE

Number

Year	All Marriages Registered	Women's Charter					Muslim Law Act			
		Total	Chinese	Indians	Others	Inter-ethnic Group	Total	Malays	Others	Inter-ethnic Group
1977	20,821	17,658	15,963	1,060	89	546	3,163	2,488	183	492
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

2.13 MARRIAGES BY AGE GROUP OF GROOMS AND BRIDES, 1985-1987

Number

Age Group (Years)	1985				1986				1987			
	Grooms		Brides		Grooms		Brides		Grooms		Brides	
	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act	Women's Charter	Muslim Law Act
All Ages	18,495	4,563	18,495	4,563	15,375	4,385	15,375	4,385	18,635	4,465	18,635	4,465
Under 19	70	69	1,080	684	63	50	822	567	64	54	850	487
20 - 24	4,206	1,678	8,623	2,424	3,277	1,439	6,808	2,225	3,550	1,373	7,801	2,282
25 - 29	8,866	1,848	6,500	927	7,064	1,856	5,512	982	8,672	1,888	7,044	1,065
30 - 34	3,727	575	1,597	292	3,360	571	1,545	313	4,301	636	2,079	322
35 - 39	1,046	166	487	115	989	201	481	162	1,318	226	613	175
40 - 44	282	70	123	57	315	90	109	60	388	97	150	67
45 - 49	171	62	54	30	163	57	64	39	182	74	66	37
50 & Over	127	95	31	34	144	121	34	37	160	117	32	30

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

2.14 AVERAGE AGE AT MARRIAGE OF GROOMS AND BRIDES

Years

Year	All Marriages		Women's Charter		Muslim Law Act	
	Grooms	Brides	Grooms	Brides	Grooms	Brides
1977	27.6	24.2	27.6	24.3	27.5	23.5
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

2.15 AGE SPECIFIC MARRIAGE RATES, 1970, 1979-1987

Per Thousand Unmarried Population

Age Group (Years)	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987
	Males									
	15 - 19	1.6	1.7	1.7	1.7	1.7	1.6	1.5	1.2	1.0
	20 - 24	52.4	46.7	49.9	52.2	46.1	42.6	43.3	42.3	34.9
	25 - 29	173.0	137.5	140.1	134.5	119.2	109.5	123.7	110.6	87.8
	30 - 34	171.7	150.1	138.0	140.9	126.4	117.3	137.3	115.0	97.2
	35 - 39	113.1	118.8	106.3	116.4	119.0	88.2	110.2	87.0	74.0
	40 - 44	59.5	82.8	62.8	92.2	87.5	61.9	70.8	61.7	67.6
	General Marriage Rate(15-44)	51.6	51.7	55.0	58.7	54.4	51.1	58.4	54.7	46.3
	Females									
	15 - 19	19.1	17.5	18.4	19.5	18.5	17.7	16.1	15.7	12.7
	20 - 24	123.8	100.0	110.5	112.9	101.0	95.0	104.8	98.6	81.6
	25 - 29	192.3	120.3	136.5	136.7	117.3	111.9	131.8	117.1	99.3
	30 - 34	99.1	88.5	74.3	75.9	74.7	67.1	73.2	67.5	62.9
	35 - 39	46.0	41.2	43.6	50.4	48.5	39.5	45.1	35.7	34.8
	40 - 44	18.1	30.6	22.0	27.9	24.9	20.7	19.4	19.7	18.5
	General Marriage Rate (15-44)	67.3	62.3	68.9	73.0	67.1	63.6	71.4	67.0	57.2

2.16 DIVORCES BY ETHNIC GROUP OF COUPLE, 1980-1987

Year	Women's Charter					Muslim Law Act				
	Total	Chinese	Indians	Others	Inter-ethnic Group	Total	Malays	Indians	Others	Inter-ethnic Group
Number										
1980	1,216	1,081	76	13	46	505	380	32	5	88
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
Per Cent										
1980	100.0	88.9	6.2	1.1	3.8	100.0	75.3	6.3	1.0	17.4
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

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

2.17 DIVORCEES BY AGE GROUP AND SEX, 1985-1987

Number

Age Group (Years)	1985				1986				1987			
	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	1,606	738	1,606	738	1,822	786	1,822	786	1,912	796	1,912	796
Under 20	-	1	-	27	-	2	-	20	-	1	2	21
20 - 24	22	73	114	181	14	76	97	176	50	62	175	148
25 - 29	243	192	468	192	214	198	450	218	360	220	593	234
30 - 34	453	166	400	131	455	177	445	157	499	171	488	167
35 - 39	350	109	241	95	415	130	307	99	434	131	311	102
40 - 44	161	54	95	40	188	68	101	37	246	81	137	51
45 - 49	92	52	66	37	127	44	78	36	128	51	80	34
50 & Over	89	91	28	35	114	91	48	43	102	79	33	39
Not Stated	196	-	194	-	295	-	296	-	93	-	93	-
Mean Age (Years)	36.0	36.0	32.4	31.4	37.3	35.6	33.6	31.7	36.1	35.7	32.6	31.8

Note : See note to Table 2.16.

3 LABOUR, EMPLOYMENT AND PRODUCTIVITY MOVEMENT

3 LABOUR, EMPLOYMENT AND PRODUCTIVITY MOVEMENT

Labour Force

Data for 1974 to 1979 and 1981 to 1987 were based on the 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 1987 referred to persons aged fifteen years and over while data for the earlier years referred to persons aged ten years and over.

The main terms used in the data on labour force are defined as follows :

Employed Persons : Persons who, during the reference week, worked for pay or profit or for family gains as well as those who did not work but had a job to return to. 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. It also includes persons who were not working but were taking steps to start their own business.

Economically Active Population : Comprised employed persons 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 : Percentage of economically active population to the total population in the specific age groups.

Unemployment Rate : 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.

Weekly Earnings and Hours Worked

Prior to 1985, data on weekly earnings and hours worked were obtained from the Weekly Hours and Earnings Survey conducted by the Research and Statistics Department of the Ministry of Labour. This survey covered establishments in the public and private sectors employing ten or

more paid workers. From 1985, data on weekly earnings were compiled from the Survey on Occupational Wages conducted by the CPF Board. This survey also covered establishments in the public and private sectors. These establishments employ at least 25 active CPF contributors. Therefore, data from 1985 are not strictly comparable with those of earlier years.

Weekly hours data were obtained from the Labour Cost Survey conducted by the Research and Statistics Department of the Ministry of Labour.

The main terms used in the surveys are defined as follows :

Weekly Earnings : They comprise payment of wages/salaries, overtime pay as well as all other monetary payments to workers during the reference week of the survey. Wages/salaries refer to basic wages accrued to workers before all deductions such as their CPF contributions and personal income tax. All other monetary payments include leave allowance, cash allowances for food, housing and others. Payments-in-kind and the employers' CPF contributions are excluded.

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

Employment Service

The Employment Service Department of the Ministry of Labour provides free services for Singapore citizens and permanent residents seeking employment as well as assists employers to recruit workers. Registration for employment assistance is voluntary and has to be renewed every six months if registrants want continued employment assistance. Those who do not renew their registration are taken off the 'live' register. The Department also checks all registrants' employment status using employment records maintained by the Central Provident Fund (CPF) Board. In addition, registrants are requested to inform the Department upon securing employment. Registrants who have found jobs are removed from the 'live' register.

Central Provident Fund

The Central Provident Fund 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. Each member has three accounts : the Ordinary, Medisave and Special Accounts.

Members can withdraw their CPF savings when they reach 55 years of age, if they leave Singapore permanently or if they are permanently disabled. In addition, they can also use their CPF savings under the various CPF approved schemes. Savings in the Ordinary Account can be used for purchase of houses, non-residential properties, home protection insurance and investments. Savings from the Medisave Account can be used for payment of hospitalisation expenses while that of 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 to members' savings. The interest rate is adjusted every six months.

The rates of contribution payable to the Fund from 1 April 1986 in respect of employment in the private sector are shown below :

Total Amount of Employee's Wages for the Calendar Month	Contribution for the Calendar Month Payable by the Employer	Amount Recoverable by the Employer from the Employee's Wages for the Calendar Month
Not exceeding \$50	Nil	Nil
Exceeding \$50 but not exceeding \$200	An amount equal to 10% 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 20% of the total amount of the employee's wages for the month; and b One-third of the difference between the total amount of the employee's wages for the month and \$200.	An amount equal to the sum of — a 10% of the total amount of the employee's wages for the month; and b One-third of the difference between the total amount of the employee's wages for the month and \$200.
Exceeding \$363	An amount equal to the sum of — a 35% of the employee's ordinary wages for the month, subject to a maximum of \$2,100; and b 35% of the amount of additional wages payable to the employee in the month.	An amount equal to the sum of — a 25% of the employee's ordinary wages for the month, subject to a maximum of \$1,500; and b 25% of the amount of additional wages payable to the employee in the month.

The Productivity Movement

In 1987, the National Productivity Board (NPB) continued to adopt the total approach to productivity emphasizing on quality, flexible wage system, worker training and assistance to small- and medium-sized enterprises (SMEs). The SME training programmes focussed on management and business efficiency for owners/chief executives/senior managers, management services and systems for managers and professionals, and shop-floor improvement for managers and engineers in production areas. Management guidance clinics were started to help SMEs solve productivity problems "on-the-spot". The Associate Consultants Scheme for consultants who need to affiliate or associate with NPB to gain greater awareness and acceptance of their services in local SMEs was also launched. The board also initiated the Core Skills for Effectiveness and Change Programme to provide workers with adaptive skills to cope with changing job demands. Companies were assisted in developing productivity measurement systems through consultancy, workshops, clinic sessions and seminars.

Trade Unions

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

Trade Disputes

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

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

Industrial Stoppages

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

3.1 LABOUR FORCE, 1974-1987

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		
1974	858.4	582.3	276.1	562.2	262.2	20.1	13.9	65.6	31.3	4.0
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

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

Source : Ministry of Labour

1 Census of Population, 1980.

3.2 PERSONS AGED 15 AND OVER BY ACTIVITY STATUS, AGE GROUP AND SEX, 1987

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	1,997.5	990.4	1,007.1	1,251.7	778.9	472.8	1,192.9	739.2	453.7	58.8	39.7	19.1	745.7	211.5	534.2
15 - 19	240.8	124.1	116.7	64.2	32.6	31.6	59.0	30.9	28.1	5.2	1.7	3.5	176.6	91.5	85.2
20 - 24	278.6	140.7	138.0	231.2	120.9	110.3	214.5	111.4	103.1	16.6	9.5	7.2	47.4	19.7	27.7
25 - 29	283.6	138.2	145.4	237.1	133.6	103.5	226.1	126.0	100.1	11.0	7.6	3.4	46.4	4.6	41.9
30 - 34	269.4	132.9	136.5	207.5	130.7	76.8	200.2	125.2	75.0	7.3	5.5	1.8	61.9	2.2	59.7
35 - 39	226.4	114.1	112.4	168.9	112.5	56.4	162.8	107.6	55.2	6.1	4.9	1.2	57.6	1.6	56.0
40 - 44	150.9	74.2	76.7	108.1	73.2	34.9	104.6	70.5	34.1	3.6	2.8	0.8	42.8	1.0	41.8
45 - 49	138.1	69.3	68.8	93.8	66.7	27.1	90.0	63.5	26.5	3.8	3.2	0.6	44.3	2.5	41.7
50 - 54	112.6	55.2	57.4	65.6	49.5	16.1	62.4	46.8	15.6	3.2	2.7	0.5	47.0	5.7	41.2
55 - 59	91.4	45.9	45.5	37.1	29.3	7.8	35.9	28.2	7.6	1.2	1.0	0.2	54.3	16.6	37.7
60 & Over	205.7	95.9	109.8	38.2	29.8	8.4	37.4	29.1	8.3	0.8	0.7	0.1	167.4	66.1	101.3

Source : Ministry of Labour

3.3 AGE-SEX SPECIFIC LABOUR FORCE PARTICIPATION RATES, 1970, 1980 AND 1985-1987

Per Cent

Age Group (Years)	1970 ¹			1980 ¹			1985			1986			1987		
	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	62.2	79.9	44.9	62.3	79.4	45.6	62.7	78.6	47.0
15 - 19	49.5	55.7	43.0	49.1	47.5	50.7	33.1	32.6	33.8	29.1	29.3	28.8	26.7	26.3	27.0
20 - 24	73.5	92.9	53.6	86.1	93.4	78.4	83.9	88.8	78.9	84.3	88.5	80.0	83.0	86.0	79.9
25 - 29	64.5	98.0	30.8	78.3	97.2	58.7	81.8	97.3	66.5	83.5	97.2	69.8	83.6	96.7	71.2
30 - 34	60.6	98.3	22.7	71.5	97.9	44.2	73.1	98.3	48.8	74.9	98.3	52.3	77.0	98.3	56.3
35 - 39	60.2	98.4	19.3	68.0	98.0	37.1	71.3	98.7	44.7	72.2	98.6	46.8	74.6	98.6	50.2
40 - 44	60.8	98.1	17.8	65.8	97.6	33.2	67.7	98.4	39.6	70.3	98.0	44.6	71.7	98.7	45.5
45 - 49	60.0	96.2	17.5	61.8	95.7	26.5	67.0	96.8	36.3	65.6	96.6	36.6	67.9	96.3	39.3
50 - 54	55.0	88.1	17.5	56.3	89.6	20.4	57.2	88.5	25.9	58.9	90.5	28.0	58.3	89.6	28.1
55 - 59	46.2	73.9	16.2	43.6	70.7	14.5	43.5	69.5	18.4	43.7	68.7	17.4	40.6	63.8	17.1
60 - 64	35.0	55.6	13.4	31.9	52.5	11.3	32.5	52.3	11.9	28.7	47.3	10.3	28.9	45.7	12.2
65 - 69	25.3	41.2	9.8	23.5	38.6	9.5	22.0	36.7	9.3	20.0	32.1	9.0	19.8	31.8	8.4
70 - 74	14.5	25.8	5.7	15.0	25.1	6.2	14.6	23.6	5.9	13.3	21.4	6.5	12.4	20.5	5.6
75 & Over	6.3	14.4	2.1	6.6	13.3	2.5	6.6	13.1	2.3	6.5	12.9	2.2	5.5	10.3	2.4

¹ Census of Population.

Source : Ministry of Labour

3.4 EMPLOYED PERSONS BY INDUSTRY, 1970, 1979-1987

Thousand

Industry ¹	1970 ²	1979	1980 ²	1981	1982	1983	1984	1985	1986	1987
Total	650.9	1,021.0	1,077.1	1,112.7	1,140.6	1,167.6	1,174.8	1,154.3	1,149.0	1,192.9
Agriculture & Fishing	22.5	15.2	17.0	12.7	11.6	11.8	8.8	8.1	9.6	10.4
Quarrying	2.2	1.5	1.1	1.2	2.5	2.3	1.9	2.4	1.3	0.6
Manufacturing	143.1	294.7	324.1	326.1	336.0	324.4	322.2	293.8	290.1	318.9
Utilities	7.6	9.8	8.5	9.2	7.9	8.5	9.2	7.7	7.8	7.2
Construction	43.1	54.3	72.3	66.4	71.9	84.0	99.8	102.8	99.5	91.5
Commerce	152.6	237.4	229.8	252.6	253.6	265.0	264.6	271.1	265.6	279.4
Transport & Communications	79.0	118.9	119.9	127.6	129.8	131.9	122.4	117.0	114.1	121.0
Financial & Business Services	25.8	72.0	79.4	84.4	89.8	95.0	100.9	100.7	99.9	105.7
Other Services	174.6	216.4	224.6	229.7	235.5	243.1	242.2	248.3	259.2	256.7
Activities Not Adequately Defined	0.4	0.8	0.4	2.8	2.0	1.6	2.8	2.4	1.8	1.6

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

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

Source : Ministry of Labour

¹ Data for 1970 were classified according to the Singapore Standard Industrial Classification (SSIC) 1968, data for 1979 were classified according to SSIC 1973, and data for 1980-1987 were classified according to SSIC 1978.

² Census of Population.

3.5 EMPLOYED PERSONS BY OCCUPATION, 1970, 1979-1987

Thousand

Occupation ¹	1970 ²	1979	1980 ²	1981	1982	1983	1984	1985	1986	1987
Total	650.9	1,021.0	1,077.1	1,112.7	1,140.6	1,167.6	1,174.8	1,154.3	1,149.0	1,192.9
Professional & Technical Workers	56.1	87.6	95.1	98.6	106.3	111.4	119.1	120.5	126.4	133.6
Administrative, Managerial & Executive Workers	15.5	28.2	52.2	54.8	58.3	62.3	70.0	65.9	68.1	71.9
Clerical Workers	82.9	161.5	167.5	168.3	186.9	196.1	194.8	184.7	180.6	184.8
Sales Workers	102.6	156.0	132.0	162.3	153.2	161.9	162.0	165.9	155.6	170.5
Service Workers	88.8	113.5	112.2	122.6	124.3	126.1	130.0	131.1	136.5	138.9
Agricultural Workers & Fishermen	26.9	18.2	20.9	16.6	15.4	15.7	12.7	12.5	12.8	14.3
Production, Transport & Other Manual Workers	255.0	394.5	435.0	433.3	439.0	441.0	439.4	419.0	411.0	422.8
Workers Not Classifiable by Occupation	23.1	61.5	62.2	56.2	57.2	53.1	46.7	54.6	57.9	56.2

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, data for 1979 were classified according to SSOC 1973, and data for 1980-1987 were classified according to SSOC 1978.

2 Census of Population.

3.6 EMPLOYED PERSONS AGED 15 AND OVER BY INDUSTRY AND OCCUPATION, 1987

Thousand

Occupation Industry	Total	Professional & Technical Workers	Administrative, Managerial & Executive Workers	Clerical Workers	Sales Workers	Services Workers	Agricultural Workers & Fishermen	Production, Transport & Other Manual Workers	Workers Not Classifiable by Occupation
Total	1,192.9	133.6	71.9	184.8	170.5	138.9	14.3	422.8	56.2
Agriculture & Fishing	10.4	0.3	0.4	0.3	-	0.2	8.9	0.4	-
Quarrying	0.6	0.1	0.1	-	-	0.1	-	0.4	-
Manufacturing	318.9	26.0	19.0	33.5	5.2	4.7	-	230.4	-
Utilities	7.2	1.7	0.1	1.4	0.1	0.3	-	3.7	-
Construction	91.5	7.2	3.3	5.4	0.2	0.6	0.2	73.8	0.9
Commerce	279.4	4.9	17.6	39.6	156.8	39.8	0.2	20.4	0.1
Transport & Communications	121.0	10.5	7.9	31.1	0.7	7.7	-	63.0	-
Financial & Business Services	105.7	17.9	15.8	43.7	7.2	12.2	2.4	6.5	-
Other Services	256.7	65.1	7.8	29.7	0.3	73.4	2.6	22.8	55.0
Activities Not Adequately Defined	1.6	-	-	0.1	-	-	-	1.3	0.2

Source : Ministry of Labour

3.7 GOVERNMENT EMPLOYEES BY DIVISIONAL STATUS

Divisional Status	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
Number											
Total	61,707	68,569	72,281	71,081	69,866	68,677	69,051	69,298	69,630	70,001	69,494
Division I	5,034	7,159	7,603	7,796	8,068	8,467	8,911	9,547	10,158	11,047	11,433
Division II	18,655	23,122	23,491	23,051	22,724	22,962	23,441	23,101	22,915	22,942	22,611
Division III	21,782	22,517	25,317	24,892	23,947	22,778	22,162	22,251	22,369	21,963	21,794
Division IV	16,236	15,771	15,870	15,342	15,127	14,470	14,537	14,399	14,188	14,049	13,656
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
Division I	8.2	10.5	10.5	11.0	11.5	12.3	12.9	13.8	14.6	15.8	16.4
Division II	30.2	33.7	32.5	32.4	32.5	33.4	33.9	33.3	32.9	32.8	32.5
Division III	35.3	32.8	35.0	35.0	34.3	33.2	32.1	32.1	32.1	31.4	31.4
Division IV	26.3	23.0	22.0	21.6	21.7	21.1	21.1	20.8	20.4	20.0	19.7

Note : Figures exclude daily-rated employees.

Source : Public Service Commission

3.8 EMPLOYED PERSONS BY GROSS MONTHLY INCOME

Thousand

Gross Monthly Income (\$)	1977	1978	1979	1980 ¹	1981	1982	1983	1984	1985	1986	1987
Total	903.9	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
Under 200	225.6	211.6	183.6	105.4	80.3	68.2	64.8	55.3	47.0	50.1	47.1
200 - 399	381.9	415.0	443.2	430.6	416.9	319.0	253.8	195.5	160.0	154.0	153.9
400 - 599	146.0	177.1	200.6	246.0	278.6	303.4	312.6	311.1	304.7	292.1	291.6
600 - 799	54.5	63.0	77.8	101.3	121.7	157.3	173.8	191.7	200.2	201.2	208.0
800 - 999	27.4	29.5	36.0	52.6	56.1	75.1	91.2	108.0	109.0	119.2	122.4
1,000 - 1,499	36.9	37.6	43.6	62.2	72.9	96.1	116.8	135.7	146.9	149.0	161.2
1,500 & Over	31.6	25.1	36.3	74.8	60.9	94.8	128.8	153.9	163.7	161.8	182.3

Note : See note to Table 3.4.

Figures from 1981 exclude unpaid family workers.

Source : Ministry of Labour

¹ Sample Enumeration in the 1980 Census of Population.

3.9 CHANGES IN PRODUCTIVITY BY SECTOR, 1979-1987

Per Cent

	1979	1980	1981	1982	1983	1984	1985	1986	1987*
TOTAL	2.7	5.7	5.2	1.6	5.3	6.9	3.6	6.6	4.5
Total excluding Construction	1.8	5.6	5.8	1.9	5.1	6.7	2.4	7.0	4.3
Manufacturing	3.9	4.6	9.2	-0.7	9.1	7.2	-1.5	13.6	3.5
Construction	12.3	6.6	0.5	4.2	10.1	9.0	10.3	0.8	3.2
Commerce	-0.4	4.9	1.3	1.2	2.1	4.5	0.4	4.9	6.3
Transport & Communications	3.2	10.0	9.1	8.0	8.8	11.9	5.2	11.1	6.5
Financial & Business Services	1.3	8.8	4.7	-0.1	4.3	7.7	12.0	8.6	7.6

Source : Department of Statistics
Ministry of Labour

3.10 AVERAGE WEEKLY EARNINGS BY INDUSTRY AND OCCUPATION, 1978-1987

(As at August)

Dollars

Industry	Professional, Administrative, Managerial, Executive and Related Workers									
	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
All Industries	319.69	341.86	377.88	410.86	482.48	519.81	564.48	535.62	545.03	545.87
Agriculture & Fishing	320.78	306.68	294.54	309.51	391.45	413.33	456.37	471.52	469.60	485.37
Quarrying & Construction	325.01	339.64	373.56	452.42	524.41	553.40	592.20	523.25	515.50	503.35
Manufacturing	415.22	424.47	447.73	484.47	513.57	550.66	588.18	511.21	516.79	521.75
Utilities	286.34	300.59	336.67	335.98	443.31	469.65	520.41	532.75	536.20	530.44
Commerce	377.31	416.21	480.83	518.43	561.19	576.85	604.64	561.99	571.54	576.54
Transport & Communications	479.16	505.73	513.03	523.21	592.86	651.76	681.66	563.80	578.72	576.66
Financial & Business Services	394.69	404.66	435.11	490.28	549.28	593.99	631.02	627.69	632.11	634.10
Other Services	228.86	251.26	283.99	294.30	390.81	425.19	481.87	494.83	511.17	508.53

Note: Prior to 1985, data were obtained from the Hours and Earnings Survey. From 1985, they were obtained from Occupational Wages Surveys. Data from 1985 are not strictly comparable with those of earlier years because of the difference in coverage of the two surveys.

Source : Ministry of Labour

3.10 AVERAGE WEEKLY EARNINGS BY INDUSTRY AND OCCUPATION, 1978-1987 (continued)

(As at August)

Dollars

Industry	Clerical, Sales, Service and Related Workers									
	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
All Industries	108.49	116.57	130.83	143.98	162.25	173.60	188.46	199.08	203.58	207.67
Agriculture & Fishing	104.12	93.39	104.11	120.28	141.80	147.99	170.69	186.83	196.36	201.02
Quarrying & Construction	102.79	112.09	128.58	160.03	174.27	177.14	190.20	204.49	205.39	208.38
Manufacturing	118.89	127.04	140.20	157.15	169.48	183.43	202.43	217.10	224.48	228.47
Utilities	144.19	155.03	176.91	179.09	228.32	242.25	274.23	270.72	275.82	276.48
Commerce	92.71	101.82	120.02	138.03	149.69	159.82	171.49	180.26	181.79	180.66
Transport & Communications	116.93	129.25	144.12	157.83	184.52	196.65	212.35	240.87	248.41	263.63
Financial & Business Services	120.71	129.92	143.29	148.59	163.41	175.93	194.63	190.34	194.24	200.86
Other Services	109.85	113.26	122.61	128.04	156.90	168.42	183.00	191.73	196.62	199.42

Note : Prior to 1985, data were obtained from the Hours and Earnings Survey.
 From 1985, they were obtained from Occupational Wages Surveys.
 Data from 1985 are not strictly comparable with those of earlier years
 because of the difference in coverage of the two surveys.

Source : Ministry of Labour

3.10 AVERAGE WEEKLY EARNINGS BY INDUSTRY AND OCCUPATION, 1978-1987 (continued)

(As at August)

Dollars

Industry	Production, Transport and Other Manual Workers									
	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
All Industries	88.18	96.60	110.44	129.13	143.14	155.95	170.15	184.35	182.67	190.55
Agriculture & Fishing	74.45	85.75	89.83	95.89	114.59	118.48	136.57	140.57	141.83	150.25
Quarrying & Construction	97.69	105.00	122.20	156.41	169.54	166.03	175.78	231.06	212.44	214.92
Manufacturing	83.68	91.59	103.46	121.93	131.70	147.11	161.21	170.34	170.90	180.29
Utilities	110.82	121.17	138.88	142.78	186.22	198.83	224.80	229.89	222.95	223.08
Commerce	87.57	99.42	114.10	133.74	147.10	157.59	167.16	185.35	186.21	187.13
Transport & Communications	111.37	124.63	147.14	163.44	187.07	202.31	218.58	222.76	225.05	249.10
Financial & Business Services	84.08	92.79	108.08	128.95	143.01	148.89	165.50	216.12	204.98	197.65
Other Services	79.14	83.51	98.48	108.45	129.82	131.97	151.06	196.23	191.64	192.50

Note : Prior to 1985, data were obtained from the Hours and Earnings Survey.
From 1985, they were obtained from Occupational Wages Surveys.
Data from 1985 are not strictly comparable with those of earlier years
because of the difference in coverage of the two surveys.

Source : Ministry of Labour

3.11 AVERAGE WEEKLY HOURS WORKED BY INDUSTRY

Hours

Industry	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
	As At August									As At June	
All Industries	45.6	45.9	45.8	45.9	45.6	45.4	45.6	45.6	44.6	45.1	45.5
Agriculture & Fishing	44.5	44.5	43.6	43.8	43.7	43.9	44.4	44.2	44.1	44.9	44.8
Quarrying	46.8	47.7	46.2	46.9	49.5	49.6	49.2	48.0	46.5	46.6	49.4
Manufacturing	48.2	48.5	48.0	48.0	48.1	47.6	48.1	47.8	46.5	47.7	48.4
Utilities	47.8	48.1	47.9	48.2	48.0	48.0	48.3	47.7	47.3	47.3	46.6
Construction	47.1	47.4	47.1	48.1	49.3	50.5	50.5	52.2	51.0	50.0	49.5
Commerce	44.3	44.2	44.2	44.1	44.1	44.0	43.9	43.5	43.3	42.9	42.8
Transport & Communications	46.6	47.2	46.7	47.1	47.4	46.8	46.5	46.0	45.1	45.8	46.0
Financial & Business Services	43.6	43.8	43.8	43.6	43.8	43.5	43.3	43.3	43.3	43.7	43.6
Other Services	42.1	41.7	42.1	42.0	39.7	39.9	39.9	39.4	39.2	39.8	40.8

Source : Ministry of Labour

3.12 REGISTRATION AT EMPLOYMENT SERVICE

Number

Year	Number on 'Live' Register ¹	New Registrants			Vacancies Notified			Vacancies Filled		
		Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
1977	18,127	23,630	12,933	10,697	25,634	14,363	11,271	9,373	6,489	2,884
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

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

(End of Period)

Age Group (Years)	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	Thousand										
	713.6	779.4	832.9	863.6	917.9	927.5	917.9	943.0	889.6	912.0	935.3
Under 15	2.0	2.4	2.3	1.8	1.3	0.8	0.8	0.6	0.3	0.3	0.4
15 - 19	88.4	97.4	100.2	96.0	91.2	80.3	71.3	68.5	47.3	44.1	43.1
20 - 24	175.8	192.4	204.2	209.1	219.1	212.7	203.3	202.2	181.0	177.3	168.7
25 - 29	142.2	154.6	165.6	173.5	189.0	197.0	197.0	203.0	198.1	203.8	206.1
30 - 34	81.3	94.9	110.2	123.9	133.1	139.1	142.4	149.5	149.8	159.8	168.9
35 - 39	61.9	64.9	65.5	63.5	71.3	83.4	91.8	104.9	113.2	119.6	126.6
40 - 44	48.0	52.7	57.3	59.4	63.7	64.1	63.9	63.5	59.4	65.2	77.6
45 - 49	39.2	41.4	42.8	44.7	47.0	48.2	50.5	54.0	54.3	56.5	57.5
50 - 54	28.9	31.7	33.8	34.8	36.3	37.3	37.6	38.4	38.8	39.2	40.3
55 - 59	4.4	18.9	19.6	20.2	21.5	22.9	23.1	24.2	23.4	22.9	23.5
60 & Over	33.8	19.7	20.3	22.8	23.2	22.0	21.4	21.6	20.5	19.7	20.1
Not Stated	7.7	8.4	11.1	13.9	21.2	19.7	14.8	12.6	3.5	3.6	2.5
Total	Per Cent										
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 15	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	-	-	0.1
15 - 19	12.4	12.5	12.0	11.1	9.9	8.7	7.8	7.3	5.3	4.8	4.6
20 - 24	24.6	24.7	24.5	24.2	23.9	22.9	22.1	21.4	20.4	19.4	18.0
25 - 29	19.9	19.8	19.9	20.1	20.6	21.2	21.5	21.5	22.3	22.4	22.0
30 - 34	11.4	12.2	13.2	14.4	14.5	15.0	15.5	15.9	16.8	17.5	18.1
35 - 39	8.7	8.3	7.9	7.4	7.8	9.0	10.0	11.1	12.7	13.1	13.5
40 - 44	6.7	6.8	6.9	6.9	6.9	6.9	7.0	6.7	6.7	7.2	8.3
45 - 49	5.5	5.3	5.1	5.2	5.1	5.2	5.5	5.7	6.1	6.2	6.2
50 - 54	4.1	4.1	4.1	4.0	4.0	4.0	4.1	4.1	4.4	4.3	4.3
55 - 59	0.6	2.4	2.4	2.3	2.4	2.5	2.5	2.6	2.6	2.5	2.5
60 & Over	4.7	2.5	2.4	2.6	2.5	2.4	2.3	2.3	2.3	2.2	2.1
Not Stated	1.1	1.1	1.3	1.6	2.3	2.1	1.6	1.3	0.4	0.4	0.3

Source : Central Provident Fund Board

3.14 CENTRAL PROVIDENT FUND CONTRIBUTORS BY WAGE LEVEL

(End of Period)

Monthly Wage Level (\$)	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Thousand											
Total	713.6	779.4	832.9	863.6	917.9	927.5	917.9	943.0	889.6	912.0	935.3
Below 100	22.5	23.9	20.4	12.4	9.6	7.9	6.5	7.6	5.5	5.6	5.6
100 - 199	103.2	86.1	66.9	51.3	39.9	60.8	27.8	27.9	19.1	18.2	17.4
200 - 299	185.3	203.8	184.1	135.9	115.4	81.7	77.4	73.1	57.4	55.1	51.4
300 - 399	109.9	117.1	138.3	165.8	134.2	108.2	85.0	64.8	56.6	60.6	55.4
400 - 499	74.9	82.6	96.0	100.2	129.7	119.1	110.7	91.6	81.3	82.0	76.4
500 - 599	52.7	60.6	73.5	85.8	88.6	91.8	102.5	105.6	101.1	101.7	100.4
600 - 799	63.2	77.9	93.9	107.7	127.4	129.4	140.0	153.5	150.7	157.2	156.7
800 - 999	32.7	40.8	51.6	64.2	79.0	89.2	97.3	102.0	101.2	105.3	111.0
1,000 - 1,199	18.2	22.9	29.4	37.8	51.4	56.7	67.0	75.8	74.9	75.6	79.3
1,200 - 1,499	17.4	21.0	25.2	31.0	43.8	56.8	62.1	71.5	70.0	73.2	78.8
1,500 - 1,999	12.5	16.6	22.6	30.4	40.4	47.0	55.6	66.3	65.2	67.5	74.4
2,000 - 2,499	15.1	8.1	9.6	10.9	17.7	24.1	29.6	35.7	36.2	36.8	41.2
2,500 - 2,999		4.0	5.0	6.5	9.1	13.1	17.0	19.6	20.7	21.5	24.4
3,000 & Over		6.8	8.7	12.4	18.3	27.3	32.2	43.4	45.9	47.9	59.8
Not Stated	6.0	7.2	7.7	11.3	13.4	14.4	7.2	4.6	3.8	3.8	3.1
Per Cent											
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Below 100	3.1	3.1	2.5	1.4	1.0	0.9	0.7	0.8	0.6	0.6	0.6
100 - 199	14.5	11.0	8.0	6.0	4.4	6.6	3.0	3.0	2.1	2.0	1.9
200 - 299	26.0	26.2	22.1	15.7	12.6	8.8	8.4	7.7	6.5	6.0	5.5
300 - 399	15.4	15.0	16.6	19.2	14.6	11.7	9.3	6.9	6.4	6.6	5.9
400 - 499	10.5	10.6	11.5	11.6	14.1	12.8	12.1	9.7	9.1	9.0	8.2
500 - 599	7.4	7.8	8.8	9.9	9.6	9.9	11.2	11.2	11.4	11.2	10.7
600 - 799	8.9	10.0	11.3	12.5	13.9	13.9	15.2	16.3	16.9	17.2	16.7
800 - 999	4.6	5.2	6.2	7.4	8.6	9.6	10.6	10.8	11.4	11.6	11.9
1,000 - 1,199	2.5	2.9	3.5	4.4	5.6	6.1	7.3	8.0	8.4	8.3	8.5
1,200 - 1,499	2.4	2.7	3.0	3.6	4.8	6.1	6.8	7.6	7.9	8.0	8.4
1,500 - 1,999	1.8	2.1	2.7	3.5	4.4	5.1	6.1	7.0	7.3	7.4	8.0
2,000 - 2,499	2.1	1.1	1.2	1.3	1.9	2.6	3.2	3.8	4.1	4.0	4.4
2,500 - 2,999		0.5	0.6	0.8	1.0	1.4	1.8	2.1	2.3	2.4	2.6
3,000 & Over		0.9	1.1	1.4	2.0	2.9	3.5	4.6	5.2	5.3	6.4
Not Stated	0.8	0.9	0.9	1.3	1.5	1.6	0.8	0.5	0.4	0.4	0.3

Source : Central Provident Fund Board

3.15 CENTRAL PROVIDENT FUND CONTRIBUTORS BY INDUSTRY

(End of Period)

Industry	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Thousand											
All Industries	713.6	779.4	832.9	863.6	917.9	927.5	917.9	943.0	889.6	912.0	935.3
Agriculture & Fishing	1.6	1.8	2.0	2.0	2.2	2.3	2.3	2.4	2.4	2.6	2.4
Quarrying	1.1	1.1	1.0	1.2	1.6	1.6	1.7	0.9	0.7	0.7	0.6
Manufacturing	230.4	259.1	280.7	284.2	292.2	274.6	261.0	283.0	251.4	271.1	287.5
Utilities	9.1	8.9	8.8	8.2	7.9	7.8	7.7	7.7	7.8	7.7	7.3
Construction	25.4	26.7	27.5	29.3	37.6	43.0	47.9	58.6	54.2	51.6	44.2
Commerce	149.8	166.3	179.1	187.9	203.5	212.7	210.6	208.3	194.1	195.4	204.1
Transport & Communications	78.4	87.5	92.2	95.2	98.6	98.0	95.1	93.3	90.3	90.0	91.9
Financial & Business Services	65.1	69.9	77.4	84.3	95.1	102.1	107.0	111.6	108.9	109.0	111.8
Other Services	151.9	157.0	162.5	165.8	170.3	175.3	174.3	176.7	179.8	183.9	185.5
Activities Not Adequately Defined	0.8	1.1	1.7	5.5	8.9	10.1	10.3	0.5	-	-	-
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	0.2	0.3	0.3	0.3	0.3	0.3	0.3
Quarrying	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1
Manufacturing	32.3	33.3	33.7	32.9	31.8	29.6	28.4	30.0	28.3	29.7	30.7
Utilities	1.3	1.2	1.1	1.0	0.9	0.8	0.8	0.8	0.9	0.8	0.8
Construction	3.6	3.4	3.3	3.4	4.1	4.6	5.2	6.2	6.1	5.6	4.7
Commerce	21.0	21.3	21.5	21.8	22.2	22.9	22.9	22.1	21.8	21.4	21.8
Transport & Communications	11.0	11.2	11.1	11.0	10.7	10.6	10.4	9.9	10.1	9.9	9.8
Financial & Business Services	9.1	9.0	9.3	9.8	10.4	11.0	11.7	11.8	12.2	12.0	12.0
Other Services	21.3	20.2	19.5	19.2	18.5	18.9	19.0	18.8	20.2	20.2	19.8
Activities Not Adequately Defined	0.1	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

(End of Period)

Age Group (Years)	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total Under 20 20 - 24 25 - 29 30 - 34 35 - 39 40 - 44 45 - 49 50 - 54 55 & Over Not Stated	Thousand										
	1,251.1	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
	155.0	166.8	175.8	177.0	179.0	166.1	152.2	142.3	118.9	98.3	95.4
	297.0	308.4	322.5	333.5	357.2	367.5	368.6	369.9	355.0	337.6	316.4
	244.3	264.5	286.7	305.0	334.9	353.2	362.8	374.7	383.3	389.3	393.3
	146.4	168.5	197.2	227.3	252.1	271.4	290.6	310.4	327.0	345.7	359.2
	116.6	121.4	123.1	121.3	138.3	163.2	184.4	212.3	242.2	261.2	278.4
	86.5	94.9	105.2	112.2	123.8	128.0	131.8	132.3	130.2	144.5	169.1
	69.5	72.8	77.1	82.4	88.7	92.9	101.2	111.1	118.4	128.0	132.0
	51.7	56.0	60.6	64.0	68.3	71.4	74.2	78.0	84.0	88.8	92.2
	64.8	66.3	69.6	77.3	82.0	86.6	88.3	94.7	105.5	112.6	122.0
	19.3	21.2	17.8	18.7	25.4	25.0	24.8	26.8	27.2	27.8	30.5
	Per Cent										
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	12.4	12.4	12.2	11.6	10.8	9.7	8.6	7.7	6.2	5.1	4.8
	23.8	23.0	22.5	22.0	21.7	21.3	20.7	20.0	18.8	17.5	15.9
	19.5	19.7	20.0	20.1	20.3	20.5	20.4	20.2	20.3	20.1	19.8
	11.7	12.6	13.7	15.0	15.3	15.7	16.3	16.8	17.3	17.9	18.1
	9.3	9.1	8.6	8.0	8.4	9.5	10.4	11.5	12.8	13.5	14.0
	6.9	7.1	7.3	7.4	7.5	7.4	7.4	7.1	6.9	7.5	8.5
	5.6	5.4	5.4	5.4	5.4	5.4	5.7	6.0	6.3	6.6	6.7
	4.1	4.2	4.2	4.2	4.1	4.1	4.2	4.2	4.4	4.6	4.6
	5.2	4.9	4.9	5.1	5.0	5.0	4.9	5.1	5.6	5.8	6.1
	1.5	1.6	1.2	1.2	1.5	1.4	1.4	1.4	1.4	1.4	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

(End of Period)

Balance (\$)	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Thousand											
Total	1,251.1	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
Below 200	266.8	275.8	267.6	259.5	267.9	244.8	241.9	237.1	222.6	226.6	]- 383.2 ¹
200 - 399	112.9	116.0	110.4	104.0	115.5	112.8	110.9	113.7	110.3	110.9	
400 - 599	75.1	78.2	79.1	72.2	76.0	75.0	73.6	77.0	76.5	77.4	]- 146.3 ²
600 - 799	59.8	61.7	63.3	58.1	58.4	58.8	56.9	58.5	58.5	59.9	
800 - 999	49.6	51.5	53.2	49.7	48.7	47.6	47.1	48.2	48.3	49.5	]- 174.7
1,000 - 1,999	168.9	179.0	188.0	184.6	172.3	168.3	159.3	164.6	162.9	167.4	
2,000 - 2,999	110.5	113.8	123.5	131.4	124.6	116.1	106.5	110.5	107.5	106.7	114.5
3,000 - 3,999	76.8	82.1	89.6	100.0	102.5	94.1	84.9	87.6	83.2	83.0	88.4
4,000 - 5,999	103.9	110.3	123.7	139.3	156.5	148.6	136.9	139.6	136.0	131.9	133.3
6,000 - 7,999	61.3	72.4	80.3	93.5	109.1	117.5	109.8	107.8	108.3	104.9	106.5
8,000 - 9,999	39.6	46.3	57.6	65.8	79.4	91.7	92.0	88.6	87.6	86.5	86.1
10,000 - 19,999	82.7	97.0	122.2	154.4	193.9	242.5	276.8	284.5	289.3	285.2	286.6
20,000 - 29,999	21.6	27.4	37.0	50.7	67.0	94.4	121.4	134.2	149.9	159.5	164.5
30,000 & Over	21.6	29.3	40.1	55.5	77.9	113.1	160.9	200.6	250.8	284.4	304.4
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	21.3	20.6	18.6	17.1	16.2	14.2	13.6	12.8	11.8	11.7	]- 19.3 ¹
200 - 399	9.0	8.7	7.7	6.8	7.0	6.5	6.2	6.1	5.8	5.7	
400 - 599	6.0	5.8	5.5	4.8	4.6	4.3	4.1	4.2	4.0	4.0	]- 7.4 ²
600 - 799	4.8	4.6	4.4	3.8	3.5	3.4	3.2	3.2	3.1	3.1	
800 - 999	4.0	3.8	3.7	3.3	3.0	2.8	2.6	2.6	2.6	2.6	]- 8.8
1,000 - 1,999	13.5	13.3	13.1	12.2	10.4	9.8	9.0	8.9	8.6	8.7	
2,000 - 2,999	8.8	8.5	8.6	8.7	7.6	6.7	6.0	6.0	5.7	5.5	5.8
3,000 - 3,999	6.1	6.1	6.3	6.6	6.2	5.4	4.8	4.7	4.4	4.3	4.4
4,000 - 5,999	8.3	8.2	8.6	9.2	9.5	8.6	7.7	7.5	7.2	6.8	6.7
6,000 - 7,999	4.9	5.4	5.6	6.1	6.6	6.8	6.2	5.8	5.7	5.4	5.3
8,000 - 9,999	3.2	3.5	4.0	4.3	4.8	5.3	5.2	4.8	4.6	4.5	4.3
10,000 - 19,999	6.6	7.2	8.5	10.2	11.8	14.1	15.6	15.4	15.3	14.8	14.4
20,000 - 29,999	1.7	2.0	2.6	3.3	4.1	5.5	6.8	7.2	7.9	8.2	8.3
30,000 & Over	1.8	2.3	2.8	3.6	4.7	6.6	9.0	10.8	13.3	14.7	15.3

1 Refers to below \$500.

2 Refers to \$500-999.

Source : Central Provident Fund Board

3.18 ENROLMENT IN NATIONAL PRODUCTIVITY BOARD COURSES, 1982-1987

Number

	1982	1983	1984	1985	1986	1987
TOTAL	7,480	9,254	10,600	8,690	9,567	9,640
Management & Supervisory Development	6,204	6,952	7,215	6,410	4,956	4,503
Diploma Programmes	956	869	1,075	924	1,138	618
Management Development	956	869	1,075	924	1,138	618
Certificate Programmes	856	825	1,597	1,698	1,103	1,399
Functional Management	71	78	169	542	-	449
People Management	-	89	162	185	1,103	96
Supervisory Management	785	658	1,266	971	-	854
Management Skills Programmes	4,392	5,258	4,543	3,788	2,715	2,486
People Management	720	811	661	877	-	64
Functional Management	1,111	1,471	1,231	327	2,715	752
Supervisory Development	2,561	2,976	2,423	388	-	1,222
Productivity Training	-	-	228	2,196	-	448
Labour-Management Relations	1,228	2,195	3,131	2,238	4,586	3,610
Quality Control Circles	1,117	1,548	2,060	1,503	4,062	2,902
Work Excellence	111	240	479	163	126	148
Joint NPB-NTUC Union Leaders Training	-	376	436	210	211	185
Teambuilding for Higher Productivity	-	31	156	272	95	173
Labour-Management Relations Practices	-	-	-	20	82	161
Total Quality Control	-	-	-	28	-	41
Joint Consultation	-	-	-	42	10	-
Core Skills for Effectiveness & Change	-	-	-	-	-	1,413
Others	48	107	254	42	25	114
National Productivity Association	48	107	181	-	-	-
Productivity Education Programme	-	-	73	42	25	114

Source : National Productivity Board

3.19 PARTICIPANTS IN SEMINARS AND WORKSHOPS, 1982-1987

Number

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

Source : National Productivity Board

3.20 QUALITY CONTROL CIRCLES, 1982-1987

(End of Period)

Number

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

Source : National Productivity Board

3.21 TRADE UNIONS AND MEMBERSHIP

Number

End of Year	Employee Class		Employer Class	
	Unions	Members	Unions	Members
1977	90	229,056	51	6,961
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

Source : Ministry of Labour

3.22 INDUSTRIAL STOPPAGES AND TRADE DISPUTES

Year	Industrial Stoppages			Trade Disputes ¹
	Number	Workers Involved	Man-days Lost	Number
1977	1	406	1,011	640
1978	-	-	-	548
1979	-	-	-	577
1980	-	-	-	484
1981	-	-	-	392
1982	-	-	-	311
1983	-	-	-	353
1984	-	-	-	338
1985	-	-	-	340
1986	1	61	122	317
1987	-	-	-	275

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

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 compilation follows closely the concepts, definitions and methodology given in the United Nations' publication "A System of National Accounts, 1968".

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.

As such, per capita GNP as conventionally defined on a residential basis is 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) : 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 : The aggregate value of output produced by Singaporeans.

Gross Domestic Product (GDP) : The aggregate value of output produced within the domestic territory of Singapore.

Expenditure on GDP : 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 a particular year (ie base year) for which the volume of goods and services in later years are priced at. The resulting aggregates after adjustment for price changes are known as constant price estimates. The base year of the series has been changed to 1985.

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 in the present series) 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 years 1985 and 1986.

Balance of Payments Estimates

Singapore's balance of payments records all economic transactions between residents of Singapore and residents of the rest of the world (non-residents). The methods used in the compilation are based on the principles recommended in the Balance of Payments Manual published by the IMF. The estimates are compiled mainly from trade and shipping statistics, data obtained from regular surveys of companies, administrative records of government departments and statutory authorities.

Transactions in the balance of payments are classified into three main categories, viz :

- (a) Transactions in goods and services such as exports and imports of merchandise, receipts from services rendered to or payments for services received from non-residents;
- (b) Unrequited transfers which record private remittances to and from abroad as well as government receipts of grants from and payments of pensions and compensation to non-residents;

- (c) Private and official financial transactions involving changes in Singapore's foreign assets and liabilities.

Transactions in goods and services and unrequited transfers which are related to Singapore's current income and expenditure are grouped in the current account whereas private and official financial transactions which affect Singapore's claims on and liabilities to non-residents are classified in the capital account.

With the availability of more comprehensive and up-to-date information, items in the current and capital accounts have been revised, especially for the years 1985 and 1986.

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

4.1 INDIGENOUS GROSS NATIONAL PRODUCT

(At Current Market Prices)

Million Dollars

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
Total Gross Domestic Product	16,039	17,830	20,523	25,091	29,339	32,670	36,733	40,048	38,924	38,155	41,899
Share of Resident Foreigners & Resident Foreign Companies in GDP	3,431	4,616	6,220	7,537	8,161	8,468	8,713	9,429	9,280	9,791	10,840
Indigenous GDP	12,608	13,214	14,303	17,554	21,179	24,202	28,020	30,619	29,644	28,364	31,059
Factor Receipts of Singaporeans from Rest of the World	743	911	1,287	1,485	1,726	2,014	2,198	2,762	3,297	3,814	4,339
Indigenous GNP	13,351	14,126	15,590	19,039	22,904	26,216	30,218	33,382	32,941	32,178	35,398
Per Capita Indigenous GNP (S\$)	6,011	6,303	6,892	8,343	9,869	11,115	12,608	13,732	13,355	12,872	13,982

4.2 OUTPUT, SAVING AND INVESTMENT

(At Current Market Prices)

Million Dollars

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
Gross National Product											
Gross National Product at Market Prices	15,851.7	17,787.4	20,444.1	24,188.5	28,191.2	31,775.7	36,561.1	40,815.1	40,330.4	39,550.9	43,272.2
Gross Domestic Product at Factor Cost	14,916.8	16,554.7	18,975.6	23,271.9	27,166.7	30,190.4	33,718.8	36,551.7	35,619.4	35,560.7	39,119.2
Indirect Taxes	1,122.2	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	2,779.7
Net Factor Income from Abroad	-187.3	-43.0	-78.9	-902.2	-1,148.2	-894.2	-171.7	767.2	1,406.9	1,395.8	1,373.3
Generation of Gross National Saving											
Gross National Saving	5,079.3	5,928.4	7,299.8	8,282.0	10,482.5	12,885.2	16,306.1	18,596.4	16,543.4	15,746.8	17,657.7
Gross Domestic Saving	5,374.9	6,059.8	7,454.8	9,411.8	11,953.5	14,218.2	16,932.0	18,304.3	15,605.5	14,766.4	16,704.6
Gross Domestic Product at Market Prices	16,039.0	17,830.4	20,523.0	25,090.7	29,339.4	32,669.9	36,732.8	40,047.9	38,923.5	38,155.1	41,898.9
Less : Private & Government											
Consumption Expenditure	10,984.9	12,113.8	13,278.8	15,358.7	17,117.9	18,852.9	20,197.4	21,902.5	23,101.4	23,294.2	24,966.9
Statistical Discrepancy	320.8	343.2	210.6	-320.2	-268.0	401.2	396.6	158.9	-216.6	-94.5	-227.4
Net Factor Income from Abroad	-187.3	-43.0	-78.9	-902.2	-1,148.2	-894.2	-171.7	767.2	1,406.9	1,395.8	1,373.3
Net Transfers from Abroad	-108.3	-88.4	-76.1	-227.6	-322.8	-438.8	-454.2	-475.1	-469.0	-415.4	-420.2
Finance of Gross Capital Formation											
Gross Capital Formation	5,799.1	6,957.4	8,899.9	11,627.6	13,587.0	15,658.8	17,595.8	19,417.3	16,551.2	14,566.3	16,522.6
Gross National Saving	5,079.3	5,928.4	7,299.8	8,282.0	10,482.5	12,885.2	16,306.1	18,596.4	16,543.4	15,746.8	17,657.7
Net Borrowing from/Lending (-) to Abroad	719.8	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	-1,135.1

4.3 GROSS DOMESTIC PRODUCT BY INDUSTRY

Million Dollars

Industry	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
At Current Market Prices											
Total	16,039.0	17,830.4	20,523.0	25,090.7	29,339.4	32,669.9	36,732.8	40,047.9	38,923.5	38,155.1	41,898.9
Agriculture & Fishing	283.1	273.7	295.2	322.0	356.2	349.1	330.9	339.7	292.3	244.5	221.4
Quarrying	47.9	37.5	42.1	82.2	104.7	128.1	140.6	132.2	111.3	75.6	68.8
Manufacturing	3,982.2	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	11,972.0
Utilities	291.6	351.1	422.1	555.0	477.5	600.9	702.7	773.0	796.0	1,074.6	944.5
Construction	1,196.7	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	2,825.2
Commerce	3,929.6	4,283.3	4,844.8	5,435.1	5,840.0	6,387.5	6,667.4	6,885.5	6,636.3	6,518.9	7,391.8
Transport & Communications	2,073.2	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
Financial & Business Services	2,857.3	3,165.6	3,708.1	4,906.1	6,608.4	7,697.6	8,803.9	9,879.6	10,552.7	10,629.3	12,044.3
Other Services	1,706.0	1,867.2	2,088.6	2,326.3	2,715.1	3,399.7	3,880.8	4,321.8	4,676.6	4,612.1	4,720.4
Less : Imputed Bank Service Charge	632.7	737.6	1,039.2	1,410.9	1,778.6	2,109.9	2,306.8	2,827.4	3,196.5	4,025.1	4,507.4
Add : Import Duties	304.1	340.2	369.7	426.8	427.9	481.5	511.0	514.1	468.1	393.6	448.1
At 1985 Market Prices											
Total	22,143.3	24,046.0	26,284.7	28,832.5	31,603.1	33,772.3	36,537.2	39,572.5	38,923.5	39,605.1	43,095.3
Agriculture & Fishing	317.4	314.9	321.2	325.1	319.4	303.4	311.0	326.5	292.3	260.8	234.0
Quarrying	60.6	52.5	60.0	65.0	83.5	104.0	122.0	120.2	111.3	94.3	93.4
Manufacturing	6,099.5	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	11,650.5
Utilities	430.9	491.4	536.5	578.0	620.4	650.2	707.8	762.1	796.0	839.9	926.6
Construction	1,874.8	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	2,854.2
Commerce	4,461.4	4,767.6	5,095.6	5,452.8	5,755.0	6,091.9	6,374.2	6,738.9	6,636.3	6,604.2	7,336.7
Transport & Communications	2,290.0	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
Financial & Business Services	4,171.9	4,465.2	4,972.0	5,862.6	6,811.5	7,495.3	8,324.0	9,354.2	10,552.7	11,176.1	12,304.9
Other Services	2,835.1	3,057.2	3,217.6	3,389.4	3,578.2	3,908.3	4,218.7	4,459.1	4,676.6	4,830.8	4,986.1
Less : Imputed Bank Service Charge	653.7	707.1	991.6	1,340.8	1,653.8	1,925.4	2,191.7	2,666.6	3,196.5	3,464.1	3,863.6
Add : Import Duties	389.2	420.3	446.9	496.0	483.1	528.5	510.0	511.5	468.1	393.6	399.0

4.4 QUARTERLY GROSS DOMESTIC PRODUCT BY INDUSTRY

(At 1985 Market Prices)

Million Dollars

Period	Total	Agriculture & Fishing	Quarrying	Manufacturing	Utilities	Construction	Commerce	Transport & Communications	Financial & Business Services	Other Services	Less Imputed Bank Service Charge	Add Import Duties
1982												
1st Qtr	8,073.0	77.2	21.6	2,226.3	151.4	701.4	1,464.0	1,041.1	1,762.6	945.7	455.2	136.9
2nd Qtr	8,304.9	74.1	23.6	2,315.6	164.2	787.3	1,460.4	1,082.5	1,822.1	946.5	489.3	117.9
3rd Qtr	8,568.8	75.7	28.3	2,255.8	167.5	869.9	1,545.0	1,111.6	1,896.4	986.0	497.0	129.6
4th Qtr	8,825.6	76.4	30.5	2,167.7	167.1	940.4	1,622.5	1,116.5	2,014.2	1,030.1	483.9	144.1
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	28.6	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	9,396.2	67.4	21.9	2,074.2	191.4	867.1	1,591.7	1,362.4	2,704.5	1,221.3	831.1	125.4
2nd Qtr	9,830.7	64.8	22.4	2,526.4	210.2	895.3	1,605.7	1,400.3	2,723.9	1,156.9	853.8	78.6
3rd Qtr	10,092.3	63.8	24.6	2,657.7	218.1	762.3	1,654.9	1,460.2	2,828.1	1,202.9	870.5	90.2
4th Qtr	10,285.9	64.8	25.4	2,697.5	220.2	709.5	1,751.9	1,456.6	2,919.6	1,249.7	908.7	99.4
1987*												
1st Qtr	10,055.0	60.1	23.8	2,426.0	211.8	725.8	1,702.0	1,467.0	2,950.1	1,250.0	854.9	93.3
2nd Qtr	10,606.1	59.5	23.7	2,918.0	228.5	739.5	1,763.9	1,509.2	3,006.7	1,195.9	922.4	83.6
3rd Qtr	11,043.5	56.9	23.6	3,077.6	239.6	732.6	1,867.6	1,591.5	3,099.1	1,237.3	986.2	103.9
4th Qtr	11,390.7	57.5	22.3	3,228.9	246.7	656.3	2,003.2	1,605.8	3,249.0	1,302.9	1,100.1	118.2

4.5 GROSS DOMESTIC PRODUCT DEFLATORS BY INDUSTRY

(1985 = 100)

Industry	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
Total	72.4	74.2	78.1	87.0	92.8	96.7	100.5	101.2	100.0	96.3	97.2
Agriculture & Fishing	89.2	86.9	91.9	99.0	111.5	115.1	106.4	104.0	100.0	93.8	94.6
Quarrying	79.0	71.4	70.2	126.5	125.4	123.2	115.2	110.0	100.0	80.2	73.7
Manufacturing	65.3	67.4	73.8	86.0	90.0	90.9	96.7	99.6	100.0	102.3	102.8
Utilities	67.7	71.4	78.7	96.0	77.0	92.4	99.3	101.4	100.0	127.9	101.9
Construction	63.8	64.6	66.7	78.5	89.5	95.4	98.5	100.3	100.0	97.4	99.0
Commerce	88.1	89.8	95.1	99.7	101.5	104.9	104.6	102.2	100.0	98.7	100.8
Transport & Communications	90.5	95.9	93.6	102.1	104.3	101.9	104.6	101.8	100.0	93.3	93.5
Financial & Business Services	68.5	70.9	74.6	83.7	97.0	102.7	105.8	105.6	100.0	95.1	97.9
Other Services	60.2	61.1	64.9	68.6	75.9	87.0	92.0	96.9	100.0	95.5	94.7

* Refers to Gross Domestic Product at Market Prices.

4.6 EXPENDITURE ON GROSS DOMESTIC PRODUCT

Million Dollars

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
Total	At Current Market Prices										
	16,039.0	17,830.4	20,523.0	25,090.7	29,339.4	32,669.9	36,732.8	40,047.9	38,923.5	38,155.1	41,898.9
	Private Consumption Expenditure	9,268.6	10,149.1	11,245.2	12,911.3	14,329.3	15,282.5	16,202.1	17,569.5	17,552.9	18,096.1
	Government Consumption Expenditure	1,716.3	1,964.7	2,033.6	2,447.4	2,788.6	3,570.4	3,995.3	4,333.0	5,548.5	5,198.1
	Gross Fixed Capital Formation	5,457.7	6,365.1	7,519.6	10,203.1	12,784.7	15,505.7	17,464.2	19,122.2	16,424.8	14,379.0
	Increase in Stocks	341.4	592.3	1,380.3	1,424.5	802.3	153.1	131.6	295.1	126.4	187.3
	Net Exports of Goods & Services	-424.2	-897.6	-1,445.1	-2,215.8	-1,633.5	-1,440.6	-663.8	-1,113.0	-945.7	200.1
	Statistical Discrepancy	-320.8	-343.2	-210.6	320.2	268.0	-401.2	-396.6	-158.9	216.6	94.5
	At 1985 Market Prices										
	22,143.3	24,046.0	26,284.7	28,832.5	31,603.1	33,772.3	36,537.2	39,572.5	38,923.5	39,605.1	43,095.3
Private Consumption Expenditure	12,341.2	13,168.1	13,971.4	14,809.7	15,491.3	16,086.4	16,852.1	17,711.6	17,552.9	18,360.3	19,889.3
Government Consumption Expenditure	2,669.2	2,976.3	2,961.9	3,241.5	3,411.6	3,863.8	4,235.9	4,457.2	5,548.5	5,541.6	5,516.8
Gross Fixed Capital Formation	7,187.3	8,199.9	9,257.7	11,126.6	12,810.3	15,405.7	17,067.7	18,677.4	16,424.8	14,614.5	15,148.3
Increase in Stocks	665.3	931.0	1,596.7	1,516.1	730.7	144.0	242.2	273.0	126.4	380.8	1,430.5
Net Exports of Goods & Services	-655.5	-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	885.8
Statistical Discrepancy	-64.2	-110.0	-184.5	-366.2	247.8	317.3	-191.1	-115.3	216.6	348.0	224.6

4.7 DEFLATORS OF EXPENDITURE ON GROSS DOMESTIC PRODUCT
(1985 = 100)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
Total	72.4	74.2	78.1	87.0	92.8	96.7	100.5	101.2	100.0	96.3	97.2
Private Consumption Expenditure	75.1	77.1	80.5	87.2	92.5	95.0	96.1	99.2	100.0	98.6	99.5
Government Consumption Expenditure	64.3	66.0	68.7	75.5	81.7	92.4	94.3	97.2	100.0	93.8	93.9
Gross Fixed Capital Formation	75.9	77.6	81.2	91.7	99.8	100.6	102.3	102.4	100.0	98.4	100.2
Exports of Goods & Services	92.6	94.4	99.5	109.4	113.2	112.9	107.5	101.5	100.0	86.5	93.2
Imports of Goods & Services	92.0	94.0	99.8	110.5	113.8	111.5	105.8	101.1	100.0	86.6	94.0

4.8 PRIVATE CONSUMPTION EXPENDITURE

Million Dollars

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
Total	At Current Market Prices										
	9,268.6	10,149.1	11,245.2	12,911.3	14,329.3	15,282.5	16,202.1	17,569.5	17,552.9	18,096.1	19,785.6
	Food & Beverages	2,967.0	3,163.4	3,476.6	3,997.5	4,561.8	4,800.1	4,932.0	5,185.9	5,121.5	5,348.8
	Clothing & Footwear	877.2	979.9	1,117.0	1,240.7	1,408.4	1,555.2	1,681.8	1,665.1	1,569.4	2,035.2
	Rent & Utilities	1,067.6	1,129.9	1,219.7	1,390.4	1,493.1	1,623.4	1,745.3	1,976.6	2,184.9	2,263.6
	Furniture & Household Equipment	926.3	1,006.6	1,114.5	1,322.9	1,525.8	1,602.1	1,719.3	1,943.2	2,015.3	2,156.2
	Medical Services	298.3	326.4	350.9	411.7	445.3	502.8	567.4	643.1	702.2	865.4
	Transport & Communications	1,325.4	1,526.0	1,820.4	2,198.3	2,345.5	2,560.2	2,743.1	2,816.7	2,678.7	2,845.0
	Recreation & Education	1,144.7	1,379.4	1,647.7	1,802.7	2,153.8	2,229.1	2,421.0	2,543.0	2,453.5	3,199.4
	Other Goods & Services	1,942.9	2,205.5	2,565.0	3,133.1	3,638.4	3,684.4	3,829.6	3,910.1	3,562.4	4,440.2
	Add : Residents' Expenditure Abroad	397.5	440.1	475.2	585.7	651.2	843.3	973.4	1,049.5	1,103.5	1,355.6
	Less : Non-residents' Expenditure Locally	1,678.3	2,008.1	2,541.8	3,171.7	3,894.0	4,118.1	4,410.8	4,163.7	3,838.5	4,845.5
Total	At 1985 Market Prices										
	12,341.2	13,168.1	13,971.4	14,809.7	15,491.3	16,086.4	16,852.1	17,711.6	17,552.9	18,360.3	19,889.3
	Food & Beverages	3,957.4	4,111.7	4,363.8	4,638.0	4,810.1	4,876.0	4,962.4	5,111.3	5,121.5	5,458.1
	Clothing & Footwear	981.9	1,068.3	1,171.2	1,281.2	1,457.0	1,580.0	1,642.4	1,647.3	1,569.4	2,073.7
	Rent & Utilities	1,407.9	1,476.9	1,528.3	1,576.4	1,630.9	1,694.2	1,794.9	1,984.8	2,184.9	2,325.9
	Furniture & Household Equipment	1,167.9	1,211.1	1,291.6	1,451.9	1,609.4	1,641.4	1,747.1	1,953.3	2,015.3	2,090.4
	Medical Services	481.6	506.2	524.6	550.9	570.0	620.1	633.1	654.6	702.2	838.2
	Transport & Communications	1,912.1	2,139.6	2,404.4	2,618.4	2,752.8	2,861.2	2,995.0	2,967.3	2,678.7	2,648.5
	Recreation & Education	1,244.4	1,424.8	1,612.7	1,735.3	2,047.0	2,168.9	2,480.4	2,534.9	2,453.5	3,144.5
	Other Goods & Services	2,499.7	2,787.2	3,089.3	3,378.1	3,523.8	3,633.1	3,779.3	3,884.1	3,562.4	4,464.4
	Add : Residents' Expenditure Abroad	567.6	612.4	638.6	699.0	729.6	896.0	992.2	1,049.7	1,103.5	1,362.7
	Less : Non-residents' Expenditure Locally	1,861.1	2,170.1	2,653.1	3,119.5	3,639.3	3,884.5	4,174.7	4,075.7	3,838.5	4,870.9

4.9 GROSS FIXED CAPITAL FORMATION

Million Dollars

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
	At Current Market Prices										
Total	5,457.7	6,365.1	7,519.6	10,203.1	12,784.7	15,505.7	17,464.2	19,122.2	16,424.8	14,379.0	15,182.5
Construction & Works	2,405.9	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	6,944.7
Residential Buildings	1,245.7	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	3,051.2
Non-residential Buildings	670.4	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	1,738.5
Other Construction & Works	489.8	487.3	520.6	801.4	897.0	972.2	1,023.1	1,162.9	1,457.2	2,171.8	2,155.0
Transport Equipment	1,269.3	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	1,976.5
Machinery & Equipment	1,782.5	2,343.3	2,620.5	3,593.1	4,469.8	4,629.7	4,152.1	4,791.5	4,509.4	4,831.6	6,261.3
	At 1985 Market Prices										
Total	7,187.3	8,199.9	9,257.7	11,126.6	12,810.3	15,405.7	17,067.7	18,677.4	16,424.8	14,614.5	15,148.3
Construction & Works	3,418.9	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	7,235.2
Residential Buildings	1,866.1	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	3,175.8
Non-residential Buildings	915.8	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	1,805.3
Other Construction & Works	655.1	617.9	625.3	839.2	853.7	915.0	972.2	1,132.7	1,457.2	2,255.7	2,254.1
Transport Equipment	1,778.5	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	1,911.8
Machinery & Equipment	2,133.6	2,687.1	2,964.5	3,739.6	4,420.2	4,442.3	4,076.3	4,689.7	4,509.4	4,710.6	6,001.3

4.10 BALANCE OF PAYMENTS

Million Dollars

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
A Current Account Balance	-719.8	-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	1,135.1
Goods & Services (Net)	-611.5	-940.6	-1,524.0	-3,118.0	-2,781.7	-2,334.8	-835.5	-345.8	461.2	1,595.9	1,555.1
Merchandise Trade Balance	-4,839.4	-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	-5,349.8
Exports fob	18,893.9	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	57,444.9
Imports fob	23,733.3	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	62,794.7
Services Balance	4,227.9	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	6,905.1
Exports of Services	8,502.9	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	20,998.3
Shipment	480.2	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	1,851.8
Travel	1,517.9	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	4,667.4
Investment Income	954.8	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	5,089.8
Official Transactions	100.0	104.2	108.0	174.1	206.2	223.0	214.0	232.4	217.8	211.8	214.4
Other Transportation & Services nie	5,450.0	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	9,174.9
Imports of Services	4,275.0	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	14,093.2
Shipment	1,356.0	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	4,170.1
Travel	481.6	534.4	590.9	712.6	791.2	1,027.8	1,187.4	1,282.3	1,349.4	1,404.3	1,666.0
Investment Income	1,158.7	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	3,734.1
Official Transactions	23.2	18.5	26.2	47.3	54.9	66.4	75.3	81.0	91.8	89.7	95.3
Other Transportation & Services nie	1,255.5	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	4,427.7
Unrequited Transfers (Net)	-108.3	-88.4	-76.1	-227.6	-322.8	-438.8	-454.2	-475.1	-469.0	-415.4	-420.2
Private	-99.5	-81.1	-67.3	-222.6	-305.5	-415.5	-436.9	-456.5	-451.2	-374.0	-374.5
Official	-8.8	-7.3	-8.8	-5.0	-17.3	-23.3	-17.3	-18.6	-17.8	-41.4	-45.7
B Capital Account Balance	1,480.2	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	706.7
Non-monetary Sector (Net)	1,269.3	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	2,516.9
Private	969.8	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	2,559.9
Official	299.5	12.3	-35.1	-32.7	-32.8	-31.9	-179.6	-25.0	-39.5	-176.1	-43.0
Monetary Sector (Net)	210.9	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
Commercial Banks : Foreign Assets ¹	-636.0	-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
Foreign Liabilities	846.9	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
C Allocation of Special Drawing Rights	-	-	14.3	14.5	17.6	-	-	-	-	-	-
D Balancing Item	2.9	236.7	553.4	1,376.6	446.8	350.5	-1,677.0	701.6	1,412.6	2,854.9	486.7
E Overall Balance (A+B+C+D)	763.3	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
F Official Reserves (Net)¹	-763.3	-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
Special Drawing Rights	-	-	-34.4	-38.8	-32.9	-51.9	-23.4	3.6	-17.6	-31.4	-29.1
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
Foreign Exchange Assets	-763.3	-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

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

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 5.3 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 9 per cent of total consumption.

A number of nurseries and farms grow orchids for export as cut-flowers, as well as ornamental foliage plants. Singapore is world renowned for her exotic orchids, exporting \$11.2 million worth of cut orchid

flowers in 1987. There are few orchards in Singapore. Many farms grow fruit trees as part of their mixed farming, both for production and for shade.

Livestock

Rearing pigs and poultry is the most important farming activity in Singapore, accounting for around two-thirds of the value of primary production. Domestic production meets about 58 per cent of pork, 30 per cent of poultry meat and 55 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 1987, about \$6.5 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.

Fisheries

There were 397 fishing vessels, of which 380 were powered and 17 non-powered. In 1987, 15,096 tonnes of fish were landed by local fishing vessels which were mainly otter-trawlers based at Punggol and Jurong. A total of 133,976 tonnes of fish were imported in 1987, by trucks from Malaysia and Thailand, and by sea and air from other countries.

The Jurong Fishing Port and Central Fish Market Complex plays an important role as a major

fish landing point in Singapore. In 1987 the complex handled 93,965 tonnes of fresh fish. The Punggol Fishing Port and Wholesale Fish Market Complex handled 17,900 tonnes, landed mainly by local fishing vessels.

There are 70 licensed marine fish farms covering a total of 37 hectares of coastal waters, culturing high-value fish like groupers and seabass.

Singapore is a major exporter of aquarium fish, exporting \$53.9 million worth of aquarium fish and \$6.8 million worth of aquatic plants in 1987.

5.1 PRODUCTION OF PRINCIPAL CROPS

Year	Vegetables	Fruits	Sugar Cane	Tobacco	Coconuts
	Tonnes				Million Nuts
1977	36,460	16,253	2,370	576	7
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

Source : Primary Production Department

5.2 LIVESTOCK SLAUGHTERED

Number

Year	Pigs	Sheep	Oxen	Buffaloes	Goats
1977	822,381	103,804	2,085	78	1,160
1978	805,341	88,874	2,064	125	715
1979	922,312	80,971	1,459	188	701
1980	968,095	73,156	1,238	185	475
1981	936,751	55,707	1,214	170	196
1982	883,666	56,999	1,496	111	204
1983	926,005	59,012	1,414	138	249
1984	1,026,287	58,045	1,471	137	212
1985	1,093,272	53,579	1,383	77	121
1986	1,086,304	54,666	1,537	7	747
1987	1,106,678	52,363	1,703	6	1,432

Source : Primary Production Department

5.3 FRESH FISH SUPPLY AND AUCTIONED

Tonnes

Year	Supply				Fish Auctioned
	Total	Local Production ¹	Imports	Exports	
1977	59,450	14,350	69,729	24,629	67,478
1978	54,017	15,634	68,781	30,398	66,883
1979	51,266	16,015	73,524	38,273	68,299
1980	47,268	15,532	80,440	48,704	74,244
1981	64,501	15,620	99,707	50,826	85,016
1982	56,939	18,830	89,104	50,995	93,430
1983	62,152	19,099	99,099	56,046	102,573
1984	71,586	25,041	107,784	61,239	117,638
1985	68,059	22,761	102,139	56,841	112,290
1986	74,858	20,279	135,034	80,455	109,531
1987	55,348	15,096	133,976	93,724	111,684

¹ Figures exclude pond fish production.

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

6 MANUFACTURING

engaged directly or indirectly in the manufacturing of material production are defined as follows:

Workshop : They include all persons engaged directly or indirectly in the manufacturing of material production are defined as follows :

The main terms used in the various chapters

United Nations

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in an industry group

total value of all commodities and services produced

Output : Value in output refers to the

collected and relevant transport charges

material production which has been utilized for

output : Value in output refers to the

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Census of Industrial Production

A census of manufacturing establishments employing ten or more workers is conducted annually by the Department of Statistics till reference year 1985 and subsequently by the Research and Statistics Unit, Economic Development Board. The census results provide comprehensive data for the study of changes in structure and trends of growth of the manufacturing sector.

The statistical unit used in the census is the establishment, defined as a manufacturing unit engaged in one manufacturing activity and generally at one location. Establishments are classified in accordance with 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 main terms used in the annual census of industrial production are defined as follows :

Workers : They include all persons engaged directly or indirectly in the manufacturing

activity of the establishment, that is, all employees, working proprietors, and unpaid family workers. Data generally refer to number as at 30 June, except where establishments commenced operation after June.

Employees : They include (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 includes proprietors and business partners actively engaged in the operation of the establishment and their relatives working in the establishment without regular remuneration.

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 all commodities and services produced at ex-factory prices.

Census Value Added : Census value added is the value of output less that of total input (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 weighting pattern. The Laspeyres formula is used for the compilation of the index.

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.

Pioneer Manufacturing Establishments

The principal statistics of pioneer manufacturing establishments were obtained from the Census of Industrial Production.

6.1 PRINCIPAL MANUFACTURING STATISTICS

Year	Establishments	Workers	Input	Output	Census Value Added	Employees' Remuneration	Capital Expenditure	Direct Exports
	Number		Million Dollars					
1977	2,674	222,342	13,430.9	18,293.5	4,539.6	1,494.6	756.3	11,411.5
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*	3,583	267,959	29,295.9	45,020.4	14,322.8	4,193.1	na	30,195.9

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

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				
1977	20,417	82,277	24.8	32.9	8.2	62.8	62.4
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*	53,451	168,012	31.8	29.3	9.3	na	67.1

Note : See notes to Table 6.1.

Source : Economic Development Board
with effect from April 1987

6.3 MANUFACTURING ESTABLISHMENTS BY INDUSTRY

Number

Industrial Code	Industry	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
311/2	Food	232	254	268	278	274	283	289	301	284	288	291
313	Beverage	14	14	14	16	17	16	16	14	14	15	15
314	Tobacco Products	9	8	8	8	6	6	6	4	4	4	4
321	Textiles & Textile Manufactures	69	79	93	99	94	95	87	80	62	65	64
322	Wearing Apparel except Footwear	300	345	365	374	374	406	391	387	370	371	392
323	Leather & Leather Products	34	44	42	42	40	43	37	38	28	26	29
324	Footwear	38	48	55	55	57	53	51	57	49	50	51
331	Sawn Timber & Other Wood Products except Furniture	127	134	133	131	132	119	110	104	109	100	96
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	70	94	107	117	117	125	127	142	145	155	159
341	Paper & Paper Products	80	86	94	93	95	92	88	86	81	78	78
342	Printing & Publishing	236	261	270	289	295	319	321	326	305	317	327
351	Industrial Chemicals & Gases	27	29	34	45	44	48	50	56	55	57	61
352	Paints, Pharmaceuticals & Other Chemical Products	86	88	85	89	86	84	85	90	90	88	89
353/4	Petroleum Refineries & Petroleum Products	12	11	10	10	11	11	11	12	12	11	12
355	Processing of Jelutong & Gum Damar	6	5	5	5	5	6	7	7	7	7	7
356	Rubber Products except Footwear & Toys	25	24	27	27	30	28	29	31	24	22	23
357	Plastic Products	160	175	184	195	209	214	215	224	221	210	222
361/2	Pottery, China, Earthenware & Glass Products	12	11	12	13	13	11	10	13	12	10	10
363	Structural Clay Products	12	9	9	9	9	11	11	11	10	9	8
364	Cement	5	5	5	5	5	5	5	5	6	6	6

6.3 MANUFACTURING ESTABLISHMENTS BY INDUSTRY (continued)

Number

Industrial Code	Industry	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
365	Structural Cement & Concrete Products	26	28	28	34	38	40	49	52	52	51	49
369	Non-metallic Mineral Products	22	23	23	28	24	21	25	28	30	29	28
371	Iron & Steel	15	15	16	17	17	16	15	15	15	14	15
372	Non-ferrous Metals	7	8	10	12	11	16	18	20	18	17	17
381	Fabricated Metal Products except Machinery & Equipment	261	305	310	338	371	413	426	435	435	413	419
382	Machinery except Electrical & Electronic	226	259	274	295	319	314	341	349	349	354	372
383	Electrical Machinery, Apparatus, Appliances & Supplies	105	115	117	119	113	114	112	110	115	104	110
384	Electronic Products & Components	90	101	141	172	185	186	203	214	207	194	217
385	Transport Equipment	202	223	216	253	261	295	291	252	220	197	199
386	Instrumentation Equipment, Photographic & Optical Goods	37	41	47	55	52	48	46	46	41	40	42
390	Other Manufacturing Industries	93	104	120	132	135	148	144	139	134	147	149
	Total Manufacturing excluding Rubber Processing	2,638	2,946	3,122	3,355	3,439	3,586	3,616	3,648	3,504	3,449	3,561
	Rubber Processing	17	16	15	14	12	11	10	8	7	7	6
	Total Manufacturing including Rubber Processing	2,655	2,962	3,137	3,369	3,451	3,597	3,626	3,656	3,511	3,456	3,567
	Granite Quarrying	19	17	19	22	20	20	17	19	18	16	16
	TOTAL	2,674	2,979	3,156	3,391	3,471	3,617	3,643	3,675	3,529	3,472	3,583

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

Million Dollars

Industrial Code	Industry	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
311/2	Food	1,219.0	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	2,265.6
313	Beverage	168.3	205.5	219.7	249.1	327.2	317.1	318.1	309.5	319.5	365.3	423.5
314	Tobacco Products	166.4	171.1	166.0	171.3	193.6	219.3	206.6	184.5	188.4	176.1	150.1
321	Textiles & Textile Manufactures	346.6	352.6	425.8	488.8	422.1	323.7	272.1	251.6	193.4	239.2	284.7
322	Wearing Apparel except Footwear	479.5	633.1	737.0	848.4	924.7	929.0	938.9	1,084.9	1,035.4	1,243.7	1,513.9
323	Leather & Leather Products	44.2	50.4	51.4	47.0	49.6	47.3	41.2	40.1	35.9	34.3	42.0
324	Footwear	30.8	34.7	51.5	53.6	54.9	45.3	44.2	46.9	34.1	37.9	45.3
331	Sawn Timber & Other Wood Products except Furniture	437.4	550.2	796.1	749.8	641.0	532.1	468.0	399.3	339.2	293.4	308.1
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	79.1	116.9	160.9	227.5	277.1	259.8	282.5	353.1	363.4	350.9	373.1
341	Paper & Paper Products	127.3	158.7	209.2	272.7	302.2	326.1	331.3	372.5	386.0	426.7	560.6
342	Printing & Publishing	335.6	375.5	431.2	550.4	674.3	726.6	833.4	937.7	920.3	970.7	1,105.6
351	Industrial Chemicals & Gases	227.0	183.3	255.2	346.1	363.7	383.8	382.9	1,071.5	1,506.1	1,506.1	2,038.8
352	Paints, Pharmaceuticals & Other Chemical Products	344.9	411.1	429.9	583.3	663.4	704.4	885.3	1,104.2	1,069.8	1,298.7	1,472.6
353/4	Petroleum Refineries & Petroleum Products	7,022.4	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	7,286.6
355	Processing of Jelutong & Gum Damar	21.0	19.3	22.8	25.9	28.2	25.9	25.2	21.2	20.6	19.2	20.2
356	Rubber Products except Footwear & Toys	62.0	66.8	89.9	89.7	76.3	74.4	76.7	83.5	70.1	71.8	80.5
357	Plastic Products	204.2	277.8	380.7	498.1	519.0	504.9	547.5	634.9	589.5	591.2	752.8
361/2	Pottery, China, Earthenware & Glass Products	41.0	49.7	60.9	68.0	90.3	81.1	94.3	80.7	29.5	15.6	20.5
363	Structural Clay Products	20.4	14.2	21.3	30.7	34.9	43.3	58.9	67.4	46.8	29.5	31.3
364	Cement	165.9	179.9	225.2	277.1	347.2	405.7	441.4	281.3	164.7	152.6	131.4

6.4 MANUFACTURING OUTPUT BY INDUSTRY (continued)

Million Dollars

Industrial Code	Industry	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
365	Structural Cement & Concrete Products	65.3	71.2	95.5	156.5	263.9	379.1	600.9	657.2	585.8	487.4	309.4
369	Non-metallic Mineral Products	96.9	89.4	102.8	115.4	138.2	123.1	137.2	114.1	98.6	98.1	128.7
371	Iron & Steel	145.0	192.9	272.1	338.1	343.1	356.9	332.9	333.0	336.7	376.3	396.4
372	Non-ferrous Metals	53.7	56.1	135.4	190.4	130.5	156.0	153.6	212.0	236.4	261.2	304.0
381	Fabricated Metal Products except Machinery & Equipment	597.9	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	2,094.8
382	Machinery except Electrical & Electronic	701.0	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	1,996.8
383	Electrical Machinery, Apparatus, Appliances & Supplies	541.1	727.4	758.4	974.4	1,050.3	995.2	1,200.2	1,403.4	1,295.9	1,334.3	1,666.3
384	Electronic Products & Components	2,137.2	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	15,826.7
385	Transport Equipment	1,251.3	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	1,940.8
386	Instrumentation Equipment, Photographic & Optical Goods	184.1	237.6	276.6	382.8	290.6	284.3	268.7	299.6	325.5	364.0	420.3
390	Other Manufacturing Industries	201.8	228.9	337.5	455.6	505.2	408.0	430.3	488.5	433.0	506.8	764.1
	Total Manufacturing excluding Rubber Processing	17,518.2	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	44,755.5
	Rubber Processing	744.1	801.3	1,170.2	1,052.5	772.6	494.2	428.7	402.4	160.0	126.8	158.9
	Total Manufacturing including Rubber Processing	18,262.4	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	44,914.4
	Granite Quarrying	31.1	24.3	27.1	95.3	134.3	179.5	238.1	223.8	162.7	117.4	106.0
	TOTAL	18,293.5	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	45,020.4

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

Million Dollars

Industrial Code	Industry	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
311/2	Food	198.8	206.8	235.2	261.6	355.6	326.0	353.9	380.0	396.3	408.1	421.7
313	Beverage	69.2	81.4	91.9	109.0	140.0	140.8	147.9	152.1	166.9	190.4	227.2
314	Tobacco Products	37.0	41.0	42.8	52.6	68.2	91.0	89.4	79.4	77.7	78.4	66.5
321	Textiles & Textile Manufactures	108.8	115.3	137.0	157.6	134.9	105.9	93.6	82.7	62.4	77.7	88.9
322	Wearing Apparel except Footwear	156.7	206.5	230.2	266.4	308.3	326.0	333.0	364.5	345.7	362.3	417.7
323	Leather & Leather Products	12.7	13.3	13.2	13.4	13.6	14.0	12.7	13.6	11.4	10.6	12.7
324	Footwear	10.9	12.6	16.8	19.2	19.0	17.0	18.1	19.2	12.1	12.0	14.8
331	Sawn Timber & Other Wood Products except Furniture	140.8	180.6	220.9	180.7	175.5	136.4	138.7	115.9	94.7	82.3	84.8
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	31.2	43.4	59.3	84.3	102.4	102.3	110.8	130.8	134.3	130.6	130.4
341	Paper & Paper Products	45.8	54.3	73.2	94.5	103.6	122.8	146.2	163.7	179.4	188.2	250.7
342	Printing & Publishing	172.0	190.8	217.1	277.9	341.8	380.0	459.3	530.7	518.2	536.3	591.1
351	Industrial Chemicals & Gases	59.3	65.3	85.8	109.4	119.3	140.4	142.2	256.6	304.2	503.8	709.5
352	Paints, Pharmaceuticals & Other Chemical Products	172.5	226.0	224.6	304.2	340.7	360.8	495.9	644.0	587.8	764.5	856.8
353/4	Petroleum Refineries & Petroleum Products	774.2	787.0	916.0	1,470.4	1,707.2	1,617.7	1,382.6	955.6	873.7	779.9	779.1
355	Processing of Jelutong & Gum Damar	1.9	1.8	2.7	2.9	3.7	3.1	3.8	3.8	3.6	3.7	3.9
356	Rubber Products except Footwear & Toys	27.3	28.2	38.1	39.2	34.2	35.6	36.1	40.3	34.8	37.0	40.2
357	Plastic Products	72.1	97.0	134.2	173.8	184.6	181.1	195.4	228.0	225.3	227.2	282.3
361/2	Pottery, China, Earthenware & Glass Products	17.6	25.1	27.3	24.6	36.8	27.5	33.9	35.0	10.9	6.1	7.8
363	Structural Clay Products	12.9	9.4	13.1	18.8	20.9	21.3	29.5	36.6	25.0	19.0	20.6
364	Cement	45.4	36.5	47.0	48.8	78.5	88.5	105.4	46.1	34.1	34.5	28.9

6.5 CENSUS VALUE ADDED OF MANUFACTURING ESTABLISHMENTS BY INDUSTRY (continued)

Million Dollars

Industrial Code	Industry	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
365	Structural Cement & Concrete Products	24.7	28.3	31.2	53.7	78.1	118.2	192.1	235.0	213.6	150.7	116.8
369	Non-metallic Mineral Products	43.1	40.3	46.0	53.1	62.1	57.4	56.4	45.9	35.5	39.5	51.4
371	Iron & Steel	66.3	92.0	111.9	131.9	138.4	136.1	123.3	121.8	106.2	119.2	124.9
372	Non-ferrous Metals	13.4	13.5	19.0	21.8	25.3	25.4	33.0	44.0	38.0	40.0	45.9
381	Fabricated Metal Products except Machinery & Equipment	212.6	258.2	325.5	416.3	537.8	657.2	692.0	753.1	656.2	694.6	781.0
382	Machinery except Electrical & Electronic	356.5	414.7	526.7	744.8	1,140.9	1,012.4	870.2	888.9	813.8	754.3	896.4
383	Electrical Machinery, Apparatus, Appliances & Supplies	206.3	245.5	287.2	356.8	388.6	387.7	445.3	522.9	489.3	480.5	637.1
384	Electronic Products & Components	643.4	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	4,931.3
385	Transport Equipment	595.0	636.3	802.4	1,060.2	1,181.3	1,006.0	929.1	1,009.5	1,033.7	1,007.7	1,101.0
386	Instrumentation Equipment, Photographic & Optical Goods	93.7	123.6	130.0	172.4	110.4	119.0	120.2	163.6	195.5	222.2	268.2
390	Other Manufacturing Industries	53.3	68.2	106.5	132.5	143.0	113.6	120.8	125.3	127.7	157.8	259.8
	Total Manufacturing excluding Rubber Processing	4,475.5	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	14,249.4
	Rubber Processing	38.1	36.7	87.7	51.5	37.0	27.5	33.5	16.2	7.3	8.0	10.0
	Total Manufacturing including Rubber Processing	4,513.6	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	14,259.5
	Granite Quarrying	26.0	20.4	23.3	79.4	109.4	122.3	156.9	146.4	103.2	70.3	63.3
	TOTAL	4,539.6	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	14,322.8

Note : See note to Table 6.3.

Source : Economic Development Board with effect from April 1987

6.6 WORKERS IN MANUFACTURING BY INDUSTRY

Number

Industrial Code	Industry	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
311/2	Food	9,200	9,636	10,181	10,053	10,075	10,208	10,309	10,281	9,686	9,622	9,855
313	Beverage	2,506	2,596	2,739	2,650	2,744	2,594	2,494	2,398	2,273	2,264	2,231
314	Tobacco Products	1,225	1,263	1,239	1,277	976	882	865	809	753	752	700
321	Textiles & Textile Manufactures	10,526	9,792	10,087	9,710	7,906	6,360	4,616	3,957	2,744	2,662	2,890
322	Wearing Apparel except Footwear	23,262	28,983	29,274	27,188	27,870	28,608	27,234	25,710	24,782	24,842	27,272
323	Leather & Leather Products	1,223	1,351	1,284	1,244	1,186	1,152	971	950	646	577	630
324	Footwear	1,471	1,546	1,633	1,524	1,428	1,408	1,248	1,225	865	922	943
331	Sawn Timber & Other Wood Products except Furniture	8,859	10,056	11,418	10,376	8,291	7,188	5,950	4,947	4,120	3,274	2,957
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	3,427	4,697	5,678	6,145	6,561	6,707	6,856	7,476	7,079	7,374	7,463
341	Paper & Paper Products	3,604	3,801	4,035	4,294	4,495	4,450	3,786	3,593	3,363	3,232	3,271
342	Printing & Publishing	9,847	11,105	11,514	12,101	12,487	13,452	13,808	14,213	13,217	13,145	13,141
351	Industrial Chemicals & Gases	1,520	1,688	1,906	2,138	2,058	2,265	2,278	3,216	3,144	3,054	3,130
352	Paints, Pharmaceuticals & Other Chemical Products	3,762	3,800	3,822	4,300	4,291	4,511	4,570	4,602	4,624	4,344	4,503
353/4	Petroleum Refineries & Petroleum Products	3,094	3,082	3,212	3,342	3,511	3,784	3,755	3,605	3,494	3,367	3,231
355	Processing of Jelutong & Gum Damar	158	135	148	145	157	160	173	145	126	143	141
356	Rubber Products except Footwear & Toys	1,455	1,562	1,828	1,941	1,359	1,287	1,283	1,307	1,055	1,015	1,096
357	Plastic Products	6,366	7,770	8,374	9,225	9,121	8,889	8,560	8,563	8,471	7,836	8,480
361/2	Pottery, China, Earthenware & Glass Products	819	824	893	955	1,133	1,054	993	1,010	347	233	155
363	Structural Clay Products	830	477	482	474	461	688	679	641	549	436	353
364	Cement	541	551	538	461	474	538	579	552	547	424	413

6.6 WORKERS IN MANUFACTURING BY INDUSTRY (continued)

Number

Industrial Code	Industry	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
365	Structural Cement & Concrete Products	1,149	1,284	1,298	1,458	1,730	2,135	3,697	4,559	4,367	4,367	2,843
369	Non-metallic Mineral Products	1,440	1,427	1,205	1,315	1,261	1,254	1,600	1,425	1,389	1,376	1,487
371	Iron & Steel	1,456	1,518	1,802	1,878	1,920	1,720	1,647	1,613	1,510	1,349	1,325
372	Non-ferrous Metals	516	620	489	459	449	656	643	726	686	661	755
381	Fabricated Metal Products except Machinery & Equipment	12,671	14,619	16,062	17,669	19,481	21,554	21,156	20,752	19,453	18,307	19,219
382	Machinery except Electrical & Electronic	14,827	17,344	18,910	20,274	23,963	23,802	22,433	21,406	19,693	17,730	17,833
383	Electrical Machinery, Apparatus, Appliances & Supplies	13,237	15,206	14,728	15,933	16,141	14,405	15,341	15,778	15,983	14,843	16,891
384	Electronic Products & Components	41,245	47,455	63,201	71,727	69,358	60,760	65,954	73,271	66,646	70,863	84,005
385	Transport Equipment	25,767	26,312	26,039	27,420	28,491	30,749	27,043	24,794	21,768	16,930	17,375
386	Instrumentation Equipment, Photographic & Optical Goods	7,906	8,214	9,256	10,456	5,419	5,767	5,197	5,359	5,071	5,197	6,091
390	Other Manufacturing Industries	5,203	5,010	6,059	7,118	6,878	6,463	5,388	5,508	5,059	5,541	6,501
	Total Manufacturing excluding Rubber Processing	219,112	243,724	269,334	285,250	281,675	275,450	271,106	274,391	253,510	246,682	267,180
	Rubber Processing	2,428	2,092	2,044	1,977	1,826	1,303	980	689	516	425	262
	Total Manufacturing including Rubber Processing	221,540	245,816	271,378	287,227	283,501	276,753	272,086	275,080	254,026	247,107	267,442
	Granite Quarrying	802	651	439	938	1,008	1,050	1,142	1,145	776	625	517
	TOTAL	222,342	246,467	271,917	288,165	284,509	277,803	273,228	276,225	254,802	247,732	267,959

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

Million Dollars

Industrial Code	Industry	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
311/2	Food	58.2	65.8	79.1	87.8	103.4	115.2	129.7	148.3	156.8	147.3	151.8
313	Beverage	24.3	26.5	29.9	34.6	40.0	35.3	36.5	40.6	44.1	40.7	38.7
314	Tobacco Products	10.5	11.6	13.2	15.3	15.6	17.3	19.2	21.1	20.8	18.8	16.9
321	Textiles & Textile Manufactures	52.6	54.6	63.0	71.7	68.8	60.5	49.9	47.1	34.6	32.7	39.1
322	Wearing Apparel except Footwear	87.0	118.0	136.3	150.7	179.3	203.4	216.1	236.9	227.3	222.9	265.6
323	Leather & Leather Products	5.1	6.1	6.8	7.4	8.0	8.5	8.2	8.7	6.9	6.0	7.4
324	Footwear	6.4	6.8	7.9	9.7	10.1	10.7	10.3	10.9	7.0	6.6	7.5
331	Sawn Timber & Other Wood Products except Furniture	55.8	67.5	81.8	80.1	77.4	69.0	64.8	56.4	48.2	37.5	36.8
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	16.7	24.4	34.0	44.4	54.8	58.3	63.7	73.5	74.3	74.9	84.4
341	Paper & Paper Products	17.6	21.3	27.0	34.7	44.2	51.4	51.5	52.0	53.2	52.7	59.0
342	Printing & Publishing	70.2	86.6	97.5	118.6	140.5	171.9	248.2	234.7	236.2	237.0	247.9
351	Industrial Chemicals & Gases	16.1	17.8	22.3	28.9	33.4	41.1	43.2	85.7	93.9	86.4	89.1
352	Paints, Pharmaceuticals & Other Chemical Products	35.1	37.7	43.2	53.4	62.4	76.4	90.5	99.4	107.4	102.0	102.5
353/4	Petroleum Refineries & Petroleum Products	67.0	73.5	87.1	99.7	114.7	138.6	148.0	151.4	154.6	148.8	161.2
355	Processing of Jelutong & Gum Damar	1.1	1.0	1.2	1.3	1.5	1.6	1.9	1.9	1.9	1.7	1.9
356	Rubber Products except Footwear & Toys	10.8	11.8	15.6	17.2	13.3	14.7	17.0	19.6	17.3	16.0	17.7
357	Plastic Products	30.0	39.0	48.5	63.9	71.8	79.9	86.5	98.5	103.0	99.9	115.3
361/2	Pottery, China, Earthenware & Glass Products	7.2	8.5	9.9	12.4	13.5	14.4	16.3	17.8	5.9	3.1	1.7
363	Structural Clay Products	5.1	4.1	4.7	5.2	6.0	9.7	11.2	11.7	9.3	6.5	5.1
364	Cement	4.2	5.8	6.5	7.0	8.9	10.5	12.3	12.4	12.2	9.2	8.7

6.7 REMUNERATION OF EMPLOYEES IN MANUFACTURING BY INDUSTRY (continued)

Million Dollars

Industrial Code	Industry	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
365	Structural Cement & Concrete Products	8.5	9.6	11.1	15.6	21.8	30.4	57.2	72.6	74.9	69.3	54.0
369	Non-metallic Mineral Products	11.4	11.7	12.4	14.6	18.9	19.5	24.3	20.5	21.4	20.9	24.1
371	Iron & Steel	14.8	17.7	22.4	27.4	30.2	32.5	36.3	38.8	38.8	33.7	33.6
372	Non-ferrous Metals	4.7	5.6	5.9	7.9	7.4	10.1	10.7	12.9	12.2	13.3	14.4
381	Fabricated Metal Products except Machinery & Equipment	86.0	116.9	126.7	157.3	202.0	259.1	276.5	303.1	307.4	280.5	313.7
382	Machinery except Electrical & Electronic	129.2	152.6	186.5	228.7	323.8	346.5	365.3	393.5	399.3	327.4	319.9
383	Electrical Machinery, Apparatus, Appliances & Supplies	80.6	99.1	110.1	133.6	154.5	172.2	193.4	224.7	240.5	205.3	222.1
384	Electronic Products & Components	223.0	264.3	393.3	510.7	557.0	616.7	752.1	943.1	970.2	1,004.4	1,223.0
385	Transport Equipment	266.2	282.7	304.3	363.5	433.2	486.9	467.7	476.7	443.2	332.8	359.3
386	Instrumentation Equipment, Photographic & Optical Goods	41.6	48.3	59.9	76.0	47.3	53.9	59.9	68.7	68.9	66.7	77.5
390	Other Manufacturing Industries	24.7	27.5	37.7	47.6	54.3	54.6	55.1	61.7	62.2	64.0	79.4
	Total Manufacturing excluding Rubber Processing	1,471.7	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	4,179.2
	Rubber Processing	14.2	13.8	16.6	18.5	18.3	16.1	15.0	9.3	7.9	4.7	4.2
	Total Manufacturing including Rubber Processing	1,485.9	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	4,183.4
	Granite Quarrying	8.6	5.9	5.5	10.8	15.3	15.7	17.7	19.3	14.3	10.8	9.7
	TOTAL	1,494.6	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	4,193.1

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, 1977-1986

Commodity	Unit	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Animal Feed	Thousand Tonnes	291	300	306	334	255	238	210	223	167	111
Soft Drinks	Million Litres	144	175	170	175	185	180	197	155	152	188
Refined Cooking Oil	Tonnes	50,377	50,780	43,829	59,685	84,228	117,545	95,921	84,334	96,008	94,294
Sawn Timber	Thousand Cubic Metres	302	364	371	282	188	136	114	99	70	76
Plywood	Million Square Metres	109	143	165	123	112	93	90	62	51	35
Newspapers	Million Copies	171	197	216	225	228	255	277	267	259	257
Paints	Kilolitres	18,152	19,972	20,258	22,310	26,698	26,502	29,907	36,564	35,381	35,053
Soap & Detergents	Tonnes	24,071	21,613	23,532	29,141	29,568	27,882	30,723	25,623	22,753	26,756
Aviation Kerosene ¹	Thousand Tonnes	3,756	4,708	5,033	3,709	4,003	4,099	4,290	4,929	3,878	4,451
Diesel Oil ¹	Thousand Tonnes	5,569	6,780	6,566	4,619	6,490	7,074	6,569	6,044	5,999	5,680
Fuel Oil ¹	Thousand Tonnes	10,209	10,154	10,340	6,457	7,560	8,259	8,155	9,294	8,025	8,423
Bricks	Thousand Pieces	85,231	72,628	91,191	92,122	93,327	129,862	176,960	184,861	162,895	100,756
Cement	Thousand Tonnes	1,550	1,628	1,808	1,952	2,253	2,695	3,153	2,511	1,897	1,875
Ready-mixed Concrete	Thousand Cubic Metres	332	430	660	758	1,376	2,116	2,955	3,565	3,463	3,438
Radios	Thousand	9,726	11,717	16,748	17,070	16,028	13,461	15,165	18,246	12,824	16,583
Television Receivers	Thousand Sets	560	725	1,390	1,889	2,231	1,502	1,312	1,375	1,691	1,686

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, 1977-1986

Million Dollars

Commodity	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Animal Feed	146.8	148.4	160.6	201.8	167.6	148.6	128.3	134.0	94.7	58.7
Soft Drinks	88.8	112.1	120.1	126.4	172.2	164.8	171.1	157.5	159.2	201.5
Refined Cooking Oil	93.4	94.3	80.4	120.4	175.5	161.0	139.9	189.2	184.5	156.2
Fabrics	138.0	158.6	190.7	195.9	200.1	156.8	107.9	108.6	88.4	123.8
Sawn Timber	73.8	95.9	125.3	103.1	59.8	40.1	36.5	33.2	26.9	23.6
Plywood	234.7	296.8	466.6	411.9	361.6	270.5	266.8	205.1	168.6	125.4
Newspapers	33.1	35.6	39.0	45.8	55.7	68.1	67.5	68.9	68.9	76.9
Paints	58.5	65.5	72.5	87.8	119.4	117.2	119.1	137.8	135.1	136.9
Pharmaceutical Products	155.5	201.0	179.5	258.4	269.6	283.1	370.0	504.3	475.7	691.1
Soap & Detergents	33.6	32.1	37.9	62.2	66.4	56.4	60.4	53.6	50.0	48.7
Aviation Kerosene ¹	1,186.6	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
Diesel Oil ¹	1,534.6	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
Fuel Oil ¹	2,090.3	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
Bricks	13.9	12.1	19.5	28.5	32.5	40.5	55.9	66.0	46.0	29.0
Cement	165.9	179.9	225.2	277.1	347.2	405.7	441.4	280.0	164.4	151.8
Ready-mixed Concrete	30.4	37.4	58.7	87.9	186.1	281.3	361.3	359.9	305.2	257.9
Oil Rigs & Oilfield Equipment	279.2	344.1	556.5	806.7	1,437.5	1,341.1	938.3	706.9	609.1	490.5
Electronic Products excluding Television Receivers & Radios	1,707.1	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
Radios	248.0	337.4	651.6	882.6	877.4	732.4	776.6	991.7	837.6	905.9
Television Receivers	160.9	234.6	399.5	512.7	667.8	495.7	470.3	469.1	566.0	578.4
Shipbuilding & Repairing	981.8	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
Marine Engines & Parts	61.3	64.9	84.5	109.6	137.2	151.4	110.5	106.1	89.0	99.0
Photographic Equipment & Optical Goods	87.5	90.1	107.9	125.3	52.7	56.2	59.9	68.7	75.2	75.6

See note to Table 6.8.

Source : Economic Development Board
with effect from April 1987

6.10 QUARTERLY INDEX OF INDUSTRIAL PRODUCTION, 1986 AND 1987

(1986 = 100)

Industrial Code	Major Industry Group	1986				1987			
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr*
	Total Manufacturing excluding Rubber Processing	87.1	98.6	105.2	109.0	101.9	113.9	121.8	130.5
311/2	Food	96.2	102.5	96.7	104.7	96.5	100.9	105.2	102.5
313	Beverage	91.6	96.7	114.1	97.5	110.0	123.6	128.6	115.9
314	Cigarettes & Other Tobacco Products	113.7	78.9	96.4	111.2	93.3	63.9	95.2	87.5
321	Textiles & Textile Manufactures	90.4	96.6	102.7	110.5	93.7	111.6	127.7	125.5
322	Wearing Apparel except Footwear	78.8	93.8	109.5	117.8	105.6	109.4	104.6	120.2
323	Leather & Leather Products	99.2	108.0	87.8	105.1	111.1	93.2	112.0	132.3
324	Footwear	84.5	93.6	97.8	124.0	115.2	110.6	122.6	129.6
331	Sawn Timber & Other Wood Products except Furniture	85.3	105.2	99.7	109.8	131.8	102.5	106.9	89.5
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	88.4	99.0	102.5	110.2	94.3	94.4	95.9	105.1
341	Paper & Paper Products	90.5	98.8	107.8	103.0	115.6	135.2	142.6	138.2
342	Printing & Publishing	88.9	94.8	107.1	109.2	92.3	103.5	118.3	123.3
351	Industrial Chemicals & Gases	95.4	102.5	93.9	108.2	113.4	119.1	120.8	121.9
352	Paints, Pharmaceuticals & Other Chemical Products	82.0	108.2	106.9	103.0	73.3	100.5	107.5	122.5
353/4	Petroleum Refineries & Petroleum Products	85.8	109.1	105.8	99.2	84.4	82.3	103.4	101.6
356	Rubber Products except Footwear & Toys	101.6	98.1	96.1	104.2	103.1	103.0	104.8	105.7
357	Plastic Products	89.7	99.5	104.0	106.5	104.0	123.9	133.4	131.0
361/2	Pottery, China, Earthenware & Glass Products	115.2	87.8	89.5	108.2	111.3	93.5	127.3	105.8

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

(1986 = 100)

Industrial Code	Major Industry Group	1986				1987			
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr*
363	Bricks, Tiles & Other Structural Clay Products	91.9	106.3	98.5	103.2	93.9	111.0	122.9	125.7
364	Cement	93.3	103.7	101.2	101.9	83.7	84.3	83.4	87.2
365	Structural Cement & Concrete Products	88.8	105.7	109.8	95.5	75.6	83.4	78.9	71.7
369	Non-metallic Mineral Products	97.7	106.6	101.7	93.9	113.0	115.6	123.5	149.6
371	Iron & Steel	70.4	107.1	113.2	109.3	90.4	101.6	116.5	108.0
372	Non-ferrous Metals	82.2	85.4	92.8	139.6	110.0	99.9	95.0	126.6
381	Fabricated Metal Products except Machinery & Equipment	90.6	102.5	105.7	101.2	100.4	107.3	120.4	127.5
382	Machinery except Electrical & Electronic	95.1	98.9	103.6	102.5	99.6	117.1	114.7	134.3
383	Electrical Machinery, Apparatus, Appliances & Supplies	82.0	96.1	110.7	111.2	110.2	124.4	145.0	148.5
384	Electronic Products & Components	84.2	93.8	104.4	117.5	111.3	129.8	133.1	151.8
385	Transport Equipment	90.2	101.0	104.9	103.9	103.7	107.0	112.7	108.7
386	Instrumentation Equipment, Photographic & Optical Goods	91.0	98.7	103.8	106.5	101.5	103.6	126.6	133.6
390	Other Manufacturing Industries	79.4	89.8	120.4	110.3	101.5	135.7	204.4	212.9

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

6.11 ANNUAL INDEX OF INDUSTRIAL PRODUCTION, 1982-1987

(1986 = 100)

Industrial Code	Major Industry Group	1982	1983	1984	1985	1986	1987*
	Total Manufacturing excluding Rubber Processing	89.3	91.2	99.4	92.1	100.0	117.0
311/2	Food	100.1	92.2	91.6	91.2	100.0	101.3
313	Beverage	99.8	103.9	92.7	95.1	100.0	119.5
314	Cigarettes & Other Tobacco Products	132.0	110.2	105.9	128.5	100.0	85.0
321	Textiles & Textile Manufactures	220.1	166.2	139.4	99.5	100.0	114.6
322	Wearing Apparel except Footwear	78.1	81.3	91.5	87.0	100.0	109.9
323	Leather & Leather Products	131.3	97.9	138.7	98.2	100.0	112.1
324	Footwear	155.2	142.6	142.5	91.2	100.0	119.5
331	Sawn Timber & Other Wood Products except Furniture	261.6	199.6	163.9	131.1	100.0	107.7
332	Furniture & Fixtures except primarily of Metal, Stone & Plastics	89.6	95.0	98.5	90.9	100.0	97.4
341	Paper & Paper Products	157.4	110.5	99.8	90.3	100.0	132.9
342	Printing & Publishing	78.4	83.6	94.1	95.5	100.0	109.3
351	Industrial Chemicals & Gases	37.8	35.9	72.6	98.2	100.0	118.8
352	Paints, Pharmaceuticals & Other Chemical Products	73.0	82.8	84.4	95.0	100.0	101.0
353/4	Petroleum Refineries & Petroleum Products	93.3	94.9	101.9	91.9	100.0	92.9
356	Rubber Products except Footwear & Toys	131.0	103.6	116.2	111.2	100.0	104.1
357	Plastic Products	128.0	132.0	135.4	111.0	100.0	123.1
361/2	Pottery, China, Earthenware & Glass Products	611.6	525.1	549.5	167.1	100.0	109.5

6.11 ANNUAL INDEX OF INDUSTRIAL PRODUCTION, 1982-1987 (continued)

(1986 = 100)

Industrial Code	Major Industry Group	1982	1983	1984	1985	1986	1987*
363	Bricks, Tiles & Other Structural Clay Products	153.2	198.4	198.0	142.7	100.0	113.4
364	Cement	166.2	173.4	156.6	113.5	100.0	84.7
365	Structural Cement & Concrete Products	89.6	93.8	110.0	103.0	100.0	77.4
369	Non-metallic Mineral Products	383.9	355.7	134.8	104.5	100.0	125.4
371	Iron & Steel	109.3	102.8	99.3	98.6	100.0	104.1
372	Non-ferrous Metals	96.8	99.5	123.7	111.7	100.0	107.9
381	Fabricated Metal Products except Machinery & Equipment	84.8	83.0	96.8	90.7	100.0	113.9
382	Machinery except Electrical & Electronic	167.0	142.1	136.1	114.9	100.0	116.4
383	Electrical Machinery, Apparatus, Appliances & Supplies	83.9	89.3	104.7	91.1	100.0	132.0
384	Electronic Products & Components	62.9	68.9	83.1	78.4	100.0	131.5
385	Transport Equipment	105.8	101.9	109.4	90.9	100.0	108.0
386	Instrumentation Equipment, Photographic & Optical Goods	80.2	79.9	93.1	96.6	100.0	116.3
390	Other Manufacturing Industries	87.8	75.2	91.6	83.8	100.0	163.6

Source : Economic Development Board
with effect from April 1987

6.12 NET INVESTMENT COMMITMENTS IN MANUFACTURING BY INDUSTRY

(Excluding Petrochemicals)

Million Dollars

Industry	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Food & Beverages	27.4	8.5	40.8	99.4	90.7	101.5	185.9	154.6	55.5	83.3	156.6
Textiles	1.7	11.0	14.2	32.6	18.1	8.9	7.3	0.3	3.2	5.6	3.0
Wearing Apparel	3.0	2.7	1.4	8.0	8.3	10.4	2.8	6.7	0.7	-	6.8
Leather & Rubber	17.9	7.3	1.5	15.8	3.6	5.3	22.9	8.1	4.9	0.4	8.5
Wood Products	5.3	9.8	33.2	30.8	16.8	8.8	8.0	15.8	21.3	11.4	14.7
Paper Products & Printing	4.2	-	8.0	27.2	161.8	109.2	22.1	111.3	32.3	36.2	25.1
Industrial Chemicals	4.9	13.9	5.4	76.8	63.8	16.9	52.1	8.1	34.5	37.7	32.9
Plastic Products	8.6	13.4	34.0	66.8	41.9	47.5	27.7	33.4	19.4	42.6	115.9
Other Chemical Products	1.2	14.5	31.0	101.1	95.7	47.4	106.2	30.7	18.2	144.9	11.0
Petroleum	66.2	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
Basic Metals	1.0	2.5	-	-	16.3	53.5	36.8	18.1	2.9	8.3	5.2
Fabricated Metal Products	6.8	13.8	56.2	75.6	96.1	121.0	167.4	71.5	39.5	82.0	104.3
Machinery except Electrical	77.9	45.5	151.9	121.3	300.9	162.2	84.5	225.9	125.0	205.6	93.5
Electrical Machinery & Appliances	120.3	292.4	253.9	392.2	406.8	321.8	351.6	655.8	376.1	522.0	838.4
Transport Equipment	36.1	-	18.5	58.4	273.3	162.5	92.7	72.5	88.3	64.0	61.7
Precision Equipment	7.7	33.9	31.5	29.0	24.3	66.6	65.8	17.0	2.0	53.8	116.6
Other Products	6.2	13.2	30.5	10.3	0.2	5.5	-	1.6	3.5	-	11.8
Servicing/Engineering	-	-	-	2.5	26.8	27.8	38.9	13.8	14.7	19.9	8.4
TOTAL	396.4	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
Foreign	362.6	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
Local	33.8	46.7	120.2	224.4	641.6	542.0	506.0	493.7	232.4	253.4	295.0

Note : Net investment commitments refer to gross commitments less projects withdrawn or uncertain as at 31 December 1987.

Source : Economic Development Board

6.13 NET INVESTMENT COMMITMENTS IN MANUFACTURING BY COUNTRY OF ORIGIN

(Excluding Petrochemicals)

Million Dollars

Country	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
TOTAL	396.4	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
Local	33.8	46.7	120.2	224.4	641.6	542.0	506.0	493.7	232.4	253.4	295.0
Foreign	362.6	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
United States	153.5	146.9	259.9	505.7	674.4	533.3	571.7	805.9	427.3	443.4	543.5
Japan	129.4	158.4	319.4	135.3	212.1	73.7	166.6	166.6	244.1	492.8	601.1
Europe	47.7	418.6	161.3	360.4	228.7	421.9	394.1	325.1	201.0	218.8	285.8
European Community (EC)	36.7	408.1	132.3	269.9	166.3	386.9	338.8	318.9	180.9	204.8	241.0
United Kingdom	21.4	156.2	91.9	129.5	83.1	283.1	207.5	186.6	69.4	93.4	42.4
Netherlands	-	200.0	4.5	1.0	1.2	62.8	99.2	70.3	75.2	57.1	70.9
Germany	8.9	38.3	25.3	69.2	11.5	31.4	12.8	14.3	20.1	16.7	90.3
France	1.1	11.1	4.9	18.8	1.7	1.3	6.8	-	15.1	27.8	15.2
Italy	5.3	1.1	2.5	45.4	62.5	2.4	5.1	44.8	-	5.1	22.0
Other EC Countries	-	1.4	3.2	6.0	6.3	5.9	7.4	2.9	1.1	4.7	0.2
Switzerland	6.5	8.4	12.1	35.8	17.0	22.0	15.4	2.7	4.7	7.7	27.8
Other European Countries	4.5	2.1	16.9	1.1	7.2	1.8	27.4	3.3	0.5	0.9	8.3
Others	32.0	41.8	82.8	187.7	106.2	134.1	137.4	37.1	15.6	34.6	17.6

Source : Economic Development Board

6.14 PRINCIPAL STATISTICS OF PIONEER MANUFACTURING ESTABLISHMENTS, 1976-1986

End of Year	Establishments	Workers	Input	Output	Census Value Added	Employees' Remuneration	Paid-up Capital	Gross Fixed Assets	Direct Exports
	Number		Million Dollars						
1976	294	88,697	8,184	10,388	2,165	562	1,471	3,606	7,520
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

Source : Economic Development Board
with effect from April 1987

**6.15 PRINCIPAL STATISTICS OF PIONEER MANUFACTURING ESTABLISHMENTS BY INDUSTRY GROUP,
DECEMBER 1986**

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	115,852	14,766	22,867	7,819	1,903	4,248	13,112	17,835
Food & Beverages	17	1,882	300	408	107	40	192	273	171
Textiles & Garments	14	4,623	115	202	72	45	91	135	180
Wood Products	3	214	15	20	4	3	23	18	10
Paper & Paper Products	5	767	82	193	110	18	14	141	156
Leather & Rubber Products	6	622	19	45	26	11	21	50	36
Basic Industrial Chemicals	23	1,867	806	1,234	426	59	1,213	1,837	735
Other Chemical Products except Plastics	20	2,090	363	1,036	672	56	212	477	907
Petroleum & Petroleum Products	5	2,589	4,013	4,695	683	123	266	4,027	2,988
Non-metalic Mineral Products	10	924	64	106	40	15	45	95	52
Basic Metal Industries	10	1,382	337	478	134	36	79	274	86
Metal Products & Mechanical Engineering	135	20,464	957	2,003	1,010	338	575	1,707	1,448
Electrical & Electronic Products	140	71,022	7,402	11,443	3,881	1,025	1,295	3,462	10,315
Transport Equipment	18	4,763	160	750	551	99	178	473	608
Plastic Products	17	1,486	66	131	60	23	26	103	28
Miscellaneous	7	1,157	67	120	42	13	19	41	114

Source : Economic Development Board
with effect from April 1987

7 ELECTRICITY, GAS AND WATER SUPPLY

A network of 230 kilovolt (kV) 60 Hz, 22 kv 6.6 kv and 0.4 kv cables interlinked by transformers at substations forms the transmission and distribution system whereby electricity is supplied from the power

plants to the consumers. The Ministry of the Environment in 1987 has

generating capacity was increased to 3,371 MW of which 1,610 MW is at Sunda Kelapa. The total electricity is also generated by the power

station had been approved. In 1987, the installed 280 megawatt (MW) and which form Stage I of the 1987 and by the end of the year all the three units of

Electricity is generated by power stations at

Electricity

and water is supplied from the power

and water is supplied from the power

and water is supplied from the power

total of 1,738 kilowatt-hours (kWh) of gas is used in the

Gas is produced by the

Gas

Gas

Gas

Gas

Gas

Gas

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

Electricity

Electricity is generated by power stations at Pulau Seraya, Senoko, Jurong and Pasir Panjang. The Pulau Seraya Power Station began operations in early 1987 and by the end of the year all the three units of 250 megawatt (MW) each which form Stage I of the station had been synchronised. In 1987, the installed generating capacity was increased to 3,371 MW of which 1,610 MW or 48 per cent is at Senoko. Some electricity is also generated by the refuse incineration plant of the Ministry of the Environment. In 1987 PUB purchased 1 per cent of the total electricity production from this plant.

A network of 230 kilovolt (kV), 66 kV, 22 kV, 6.6 kV and 0.4 kV 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 22,428 kilometres of mains cables, 21,259 megavolt-amperes of transformer capacity, 4,767 substations and 20 substation kiosks.

The total number of accounts increased to 750,860 in 1987, of which 86 per cent were domestic accounts. However, domestic consumption constituted only 16.3 per cent of the total consumption. Per capita consumption of electricity in Singapore rose from 3,664 kilowatt hours (kWh) in 1986 to 4,063 kWh in 1987 while per capita domestic consumption increased from 605 kWh in 1986 to 662 kWh in 1987.

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 189,610 gas consumers. Of these, 97 per cent are domestic while the rest are non-domestic (mainly commercial) consumers. Of the 604.2 million units of gas sold in 1987, 48.7 per cent and 51.3 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 11 service reservoirs for distribution to consumers. The total number of consumer accounts in Singapore and Johore was 716,252 in 1987 and the total consumption based on sales was 334,679,700 cubic metres, an increase of 3.1 per cent over 1986. This includes consumption of 52,680,900 cubic metres by Johore consumers.

7.1 ELECTRICITY PRODUCTION AND SALES

Year	Production	Sales					Number of Consumer Accounts (End of Period)
		Total	Domestic	Manufacturing	Other Industries	Export	
	Million Kilowatt Hours						
1977	5,114.7	4,506.4	779.0	2,246.2	1,481.2	-	462,353
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

Source : Public Utilities Board

7.2 GAS PRODUCTION AND SALES

Year	Production	Sales				Number of Consumer Accounts (End of Period)
		Total	Domestic		Non-domestic	
			Public Housing	Others		
	Million Kilowatt Hours					
1977	487.5	434.9	196.2	72.6	166.1	151,819
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	248.9	66.5	245.2	190,509
1982	624.8	570.1	257.6	62.5	250.1	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

Source : Public Utilities Board

7.3 WATER PRODUCTION AND SALES

Year	Production	Sales						Number of Consumer Accounts (End of Period)
		Total	Domestic	Shipping	Commerce & Industry	Government & Statutory Boards	Johore	
	Thousand Cubic Metres							
1977	231,800.9	209,966.3	95,038.5	2,683.6	60,382.5	23,344.7	28,517.0	435,068
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

Source : Public Utilities Board

8 BUILDING CONSTRUCTION AND HOUSING

Building Construction

Building construction includes erections and additions/alterations to existing buildings but excludes erection of temporary structures. Data on planning approval, building plan approval and notice of commencement (NOC) are compiled from records of Development and Building Control Division, Public Works Department and those on projects completed are collected through a survey conducted by the Research and Statistics Unit, Ministry of National Development. For the public sector, only data relating to planning approvals, notices of commencement and projects completed are collected.

The main terms used in the construction statistics are defined as follows :

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) : The approval granted by the Development and Building Control Division under the Building Control

Act 1973 for the construction of new buildings and additions/alterations to existing ones.

Building Commencement : For the private sector, it refers to the Notices of Intention to Commence Building Works submitted by the architects/professional engineers to the Building Authority whereas for the public sector, the statistics are compiled from tenders invited by the public authorities for construction works.

Building Completion : Statistics on Building Completion are compiled from completion survey forms sent to architects, engineers and public authorities for information on completed projects.

Gross Floor Area : 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 rampway of covered car park decks. Area for open airwells is excluded.

Estimated Cost of Construction : The cost of building and ancillary works. It excludes development charges, professional fees, costs of land and furnishings.

Housing

The Housing and Development Board (HDB) is the public housing authority of the Republic 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.

Management of the HDB estates is on a decentralised basis by the 41 Area Offices located

within the various estates throughout Singapore. Rentals and instalment payments for HDB flats are collected at Area Offices.

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 room 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.

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

8.1 PLANNING APPROVALS

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)
1977	1,209	5,694.3	1,664.6	136	3,672.4	890.6	1,073	2,021.9	774.0
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	20.7	5,310.9	2,150.6	1,623	2,206.2	1,495.7

Source : Ministry of National Development

8.2 COMMENCEMENT OF BUILDING CONSTRUCTION

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)
1977	1,366	5,492.5	1,644.8	371	4,161.1	1,109.9	995	1,331.4	534.9
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

Source : Ministry of National Development

8.3 CONSTRUCTION PROJECTS COMPLETED

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)
1977	1,331	5,879.5	1,588.7	352	4,441.2	853.9	979	1,438.3	734.8
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

Source : Ministry of National Development

8.4 PLANNING APPROVALS BY TYPE OF DEVELOPMENT

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
All Types	Number										
	1,209	1,166	1,385	1,560	1,712	1,555	1,769	1,780	1,361	1,481	1,830
	464	358	495	679	777	706	983	986	646	773	1,076
	153	159	182	205	145	158	137	137	116	139	135
	452	463	496	426	531	457	378	384	290	273	381
	133	180	199	228	230	197	237	254	295	275	206
	7	6	13	22	29	37	34	19	14	21	32
	Gross Floor Area (Thousand Square Metres)										
	5,694.3	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
	3,396.1	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
Commercial	602.6	430.3	695.7	1,403.7	1,533.5	3,282.9	698.7	787.3	409.7	279.7	195.9
Industrial	1,318.4	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
Institutional	371.2	354.4	256.8	552.0	577.7	416.0	828.4	785.1	530.3	1,132.4	454.8
Others	6.0	5.9	6.3	26.8	47.6	239.3	215.5	46.6	6.5	47.0	111.7
All Types	Estimated Cost of Construction (Million Dollars)										
	1,664.6	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
	747.7	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
	319.7	236.7	479.7	1,327.2	1,473.4	4,317.0	981.8	722.0	579.7	219.1	165.2
	381.7	464.9	562.0	1,411.7	1,969.5	1,355.0	880.6	627.9	526.1	361.5	545.7
	213.1	208.7	182.1	483.2	603.7	592.9	834.3	919.3	631.7	1,087.4	355.8
	2.4	2.1	0.7	8.5	31.0	27.2	68.4	8.6	1.8	19.9	17.1
Residential	747.7	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
Commercial	319.7	236.7	479.7	1,327.2	1,473.4	4,317.0	981.8	722.0	579.7	219.1	165.2
Industrial	381.7	464.9	562.0	1,411.7	1,969.5	1,355.0	880.6	627.9	526.1	361.5	545.7
Institutional	213.1	208.7	182.1	483.2	603.7	592.9	834.3	919.3	631.7	1,087.4	355.8
Others	2.4	2.1	0.7	8.5	31.0	27.2	68.4	8.6	1.8	19.9	17.1

Source : Ministry of National Development

8.5 PLANNING APPROVALS BY TYPE OF DEVELOPMENT IN THE PUBLIC SECTOR

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	
All Types	Number											
	136	202	259	290	251	226	251	233	272	262	207	
	Residential	20	29	42	33	25	37	40	30	22	38	27
	Commercial	15	16	37	59	25	19	14	13	9	17	17
	Industrial	22	16	22	18	18	14	9	3	1	-	5
	Institutional	77	137	158	174	178	155	186	186	234	199	148
	Others	2	4	-	6	5	1	2	1	6	8	10
	Gross Floor Area (Thousand Square Metres)											
3,672.4	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		
Residential	2,585.2	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	
Commercial	232.9	16.8	121.3	283.7	516.7	599.9	39.2	245.6	131.2	178.3	76.5	
Industrial	609.1	293.9	765.6	676.2	928.8	745.0	281.8	123.5	308.5	-	33.5	
Institutional	243.9	264.6	209.8	482.0	498.2	368.8	759.5	706.1	433.4	1,054.1	313.7	
Others	1.3	0.7	-	21.9	0.3	0.1	66.8	1.9	2.3	43.8	10.8	
All Types	Estimated Cost of Construction (Million Dollars)											
	890.6	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	
	Residential	484.5	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
	Commercial	109.6	7.1	64.1	147.4	319.2	964.6	44.8	156.9	82.6	126.2	42.0
	Industrial	153.7	82.6	218.3	317.5	493.1	391.9	195.8	48.5	106.0	-	20.5
	Institutional	142.4	162.8	151.1	418.2	513.1	534.7	753.3	833.8	524.0	1,021.6	273.7
	Others	0.4	1.9	-	5.5	3.5	0.3	52.0	2.0	1.0	18.2	7.4

Source : Ministry of National Development

8.6 PLANNING APPROVALS BY TYPE OF DEVELOPMENT IN THE PRIVATE SECTOR

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	
All Types	Number											
	1,073	964	1,126	1,270	1,461	1,329	1,518	1,547	1,089	1,219	1,623	
	Residential	444	329	453	646	752	669	943	956	624	735	1,049
	Commercial	138	143	145	146	120	139	123	124	107	122	118
	Industrial	430	447	474	408	513	443	369	381	289	273	376
	Institutional	56	43	41	54	52	42	51	68	61	76	58
	Others	5	2	13	16	24	36	32	18	8	13	22
All Types	Gross Floor Area (Thousand Square Metres)											
	2,021.9	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	
	Residential	810.9	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
	Commercial	369.7	413.5	574.4	1,120.0	1,016.7	2,683.0	659.5	541.7	278.5	101.4	119.4
	Industrial	709.3	987.8	921.1	1,150.7	1,575.3	1,327.2	899.0	757.5	625.4	558.6	834.7
	Institutional	127.3	89.8	47.0	70.0	79.5	47.2	68.9	79.0	96.9	78.3	141.1
	Others	4.7	5.2	6.3	4.9	47.3	239.2	148.7	44.7	4.2	3.2	100.9
All Types	Estimated Cost of Construction (Million Dollars)											
	774.0	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	
	Residential	263.2	155.7	331.3	994.7	1,473.0	1,613.3	2,141.9	1,475.4	621.6	588.4	755.5
	Commercial	210.1	229.6	415.6	1,179.8	1,154.2	3,352.4	937.0	565.1	497.1	92.9	123.2
	Industrial	228.0	382.3	343.7	1,094.2	1,476.4	963.1	684.8	579.4	420.1	361.5	525.2
	Institutional	70.7	45.9	31.0	65.0	90.6	58.2	81.0	85.5	107.7	65.8	82.1
	Others	2.0	0.2	0.7	3.0	27.5	26.9	16.4	6.6	0.8	1.7	9.7

Source : Ministry of National Development

8.7 COMMENCEMENT OF BUILDING CONSTRUCTION BY TYPE OF DEVELOPMENT

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	
All Types	Number											
	1,366	1,519	1,635	1,582	1,970	1,840	2,042	1,996	1,606	1,596	1,936	
	Residential	521	472	561	577	777	746	999	904	693	661	891
	Commercial	201	236	247	270	209	226	210	274	228	294	331
	Industrial	417	500	479	459	559	485	400	405	286	296	367
	Institutional	213	292	329	254	395	353	405	387	382	319	324
	Others	14	19	19	22	30	30	28	26	17	26	23
	Gross Floor Area (Thousand Square Metres)											
5,492.5	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		
Residential	3,715.7	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	
Commercial	395.5	633.8	610.9	1,122.7	1,024.5	2,321.9	940.0	657.0	350.1	141.4	120.6	
Industrial	851.4	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	
Institutional	515.5	502.6	494.3	278.8	602.8	667.0	1,059.0	722.6	493.1	640.6	560.7	
Others	14.4	11.0	8.8	11.9	54.4	115.8	370.6	186.5	51.0	50.6	113.5	
All Types	Estimated Cost of Construction (Million Dollars)											
	1,644.8	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	
	Residential	680.8	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
	Commercial	241.6	378.7	406.6	1,130.4	1,257.7	3,510.0	1,208.8	860.2	384.4	150.7	164.4
	Industrial	232.9	353.2	471.5	849.9	1,558.2	1,176.9	783.4	517.0	216.1	228.7	494.4
	Institutional	486.2	359.3	388.2	268.2	717.2	1,001.9	1,537.6	1,165.7	512.9	541.3	645.0
	Others	3.3	5.6	2.8	3.6	19.7	24.8	87.6	173.7	26.2	53.1	21.9

*Source : Ministry of National Development

8.8 COMMENCEMENT OF BUILDING CONSTRUCTION BY TYPE OF DEVELOPMENT IN THE PUBLIC SECTOR

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
All Types Residential Commercial Industrial Institutional Others	Number										
	371	477	630	535	586	593	654	562	542	507	453
	132	148	214	162	151	205	206	179	158	183	139
	32	40	73	104	43	41	52	49	34	37	29
	39	39	39	40	45	43	32	17	14	29	24
	159	231	294	220	340	300	359	315	326	244	252
	9	19	10	9	7	4	5	2	10	14	9
	Gross Floor Area (Thousand Square Metres)										
	4,161.1	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
	3,335.6	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
Residential	3,335.6	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	80.8	111.6	253.2	428.8	300.1	392.6	289.2	219.5	129.8	75.1	1.8
Industrial	325.6	338.6	582.0	631.9	525.4	821.2	120.4	43.9	-	-	35.5
Institutional	413.6	395.2	464.9	245.9	541.1	613.0	1,005.2	650.2	443.7	595.5	408.2
Others	5.5	11.0	2.8	0.6	3.9	5.0	68.4	125.6	43.0	46.3	18.6
All Types Residential Commercial Industrial Institutional Others	Estimated Cost of Construction (Million Dollars)										
	1,109.9	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
	558.4	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
	39.0	61.6	134.0	309.0	231.0	573.9	218.5	217.5	73.2	81.3	13.5
	86.4	88.6	176.2	308.0	282.3	408.1	102.2	30.2	7.0	18.3	30.2
	425.5	300.2	366.0	238.5	653.9	932.6	1,463.5	1,079.2	460.9	495.3	557.4
	0.6	5.6	2.4	1.6	4.4	4.9	52.0	166.4	25.2	51.3	13.4
	558.4	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
	39.0	61.6	134.0	309.0	231.0	573.9	218.5	217.5	73.2	81.3	13.5
	86.4	88.6	176.2	308.0	282.3	408.1	102.2	30.2	7.0	18.3	30.2

Source : Ministry of National Development

8.9 COMMENCEMENT OF BUILDING CONSTRUCTION BY TYPE OF DEVELOPMENT IN THE PRIVATE SECTOR

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
All Types	Number										
	995	1,042	1,005	1,047	1,384	1,247	1,388	1,434	1,064	1,089	1,483
	389	324	347	415	626	541	793	725	535	478	752
	169	196	174	166	166	185	158	225	194	257	302
	378	461	440	419	514	442	368	388	272	267	343
	54	61	35	34	55	53	46	72	56	75	72
	5	-	9	13	23	26	23	24	7	12	14
All Types	Gross Floor Area (Thousand Square Metres)										
	1,331.4	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
	380.1	370.8	739.8	939.7	1,409.0	1,646.1	1,826.2	741.2	507.1	260.8	782.2
	314.7	522.2	357.7	693.9	724.4	1,929.3	650.8	437.5	220.3	66.3	118.8
	525.8	779.4	740.3	1,004.4	1,222.9	1,063.5	823.3	620.3	277.4	282.5	609.0
	101.9	107.4	29.4	32.9	61.7	54.0	53.8	72.4	49.4	45.1	152.5
	8.9	-	6.0	11.3	50.5	110.8	302.2	60.9	8.0	4.3	94.9
All Types	Estimated Cost of Construction (Million Dollars)										
	534.9	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
	122.4	139.2	313.5	600.2	1,300.5	1,811.7	1,948.6	727.2	462.2	208.4	656.2
	202.6	317.1	272.6	821.4	1,026.7	2,936.1	990.3	642.7	311.2	69.4	150.9
	146.5	264.6	295.3	541.9	1,275.9	768.8	681.2	486.8	209.1	210.4	464.2
	60.7	59.1	22.2	29.7	63.3	69.3	74.1	86.5	52.0	46.0	87.6
	2.7	-	0.4	2.0	15.3	19.9	35.6	7.3	1.0	1.8	8.5

- Source : Ministry of National Development

8.10 CONSTRUCTION PROJECTS COMPLETED BY TYPE OF DEVELOPMENT

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	
All Types	Number											
	1,331	1,322	1,366	1,287	1,477	1,621	1,641	2,006	1,925	1,661	1,822	
	Residential	556	507	420	424	500	578	700	877	933	752	814
	Commercial	217	172	221	227	211	193	182	289	218	279	342
	Industrial	335	410	417	376	435	489	396	437	361	257	329
	Institutional	211	217	284	243	311	346	344	388	395	355	311
	Others	12	16	24	17	20	15	19	15	18	18	26
All Types	Gross Floor Area (Thousand Square Metres)											
	5,879.5	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	
	Residential	4,049.2	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
	Commercial	495.8	323.5	446.7	452.0	973.2	928.5	850.8	1,506.3	728.2	1,448.6	821.4
	Industrial	849.8	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
	Institutional	484.1	141.3	356.7	280.0	688.7	532.4	505.3	673.2	460.9	852.7	744.0
	Others	0.6	20.9	104.0	19.0	3.7	11.7	65.0	61.7	28.4	15.5	141.3
All Types	Cost of Construction (Million Dollars)											
	1,588.7	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	
	Residential	667.1	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
	Commercial	248.2	149.5	214.3	230.5	420.3	718.1	801.6	1,856.5	892.3	2,256.9	1,103.0
	Industrial	378.1	287.9	240.1	381.4	506.9	1,465.4	1,144.8	1,035.9	699.5	333.9	264.5
	Institutional	294.6	85.9	307.3	204.3	638.3	713.5	689.1	902.4	526.5	1,003.8	762.4
	Others	0.7	3.0	8.0	5.4	5.1	7.8	15.8	44.8	5.5	2.7	181.7

Source : Ministry of National Development

8.11 PUBLIC SECTOR CONSTRUCTION PROJECTS COMPLETED BY TYPE OF DEVELOPMENT

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
	Number										
All Types	352	370	496	499	499	499	518	675	614	518	486
Residential	123	143	147	161	136	130	137	235	227	171	189
Commercial	34	27	65	76	58	37	40	60	28	31	32
Industrial	34	18	31	38	28	34	47	39	29	19	22
Institutional	154	169	242	216	268	296	293	336	328	291	228
Others	7	13	11	8	9	2	1	5	2	6	15
	Gross Floor Area (Thousand Square Metres)										
All Types	4,441.2	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
Residential	3,574.6	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
Commercial	125.3	172.5	99.2	149.9	369.9	266.2	259.5	464.5	272.6	274.0	212.5
Industrial	319.2	309.7	267.2	465.1	236.7	507.4	623.8	583.1	349.0	44.0	-
Institutional	421.7	121.0	306.2	222.3	586.9	484.4	446.1	604.6	411.5	812.9	671.8
Others	0.4	12.3	2.9	2.3	0.3	2.9	3.3	49.8	0.8	0.4	139.2
	Cost of Construction (Million Dollars)										
All Types	853.9	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
Residential	503.4	596.9	450.0	448.8	351.6	558.1	930.4	3,754.2	2,798.5	1,799.2	1,479.2
Commercial	25.3	54.5	36.1	47.1	54.9	146.4	211.7	434.6	235.8	307.3	203.1
Industrial	72.4	83.9	67.6	125.8	77.7	194.9	300.5	272.9	165.5	32.4	9.7
Institutional	252.4	73.8	275.3	167.8	570.2	661.9	608.4	802.7	472.5	962.1	675.1
Others	0.4	0.8	0.8	3.9	2.0	3.2	1.9	35.6	0.5	1.1	181.0

Source : Ministry of National Development

8.12 PRIVATE SECTOR CONSTRUCTION PROJECTS COMPLETED BY TYPE OF DEVELOPMENT

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
All Types	Number										
	979	952	870	788	978	1,122	1,123	1,331	1,311	1,143	1,336
	Residential	433	364	273	263	364	448	563	642	706	625
	Commercial	183	145	156	151	153	156	142	229	190	310
	Industrial	301	392	386	338	407	455	349	398	332	307
	Institutional	57	48	42	27	43	50	51	52	67	83
	Others	5	3	13	9	11	13	18	10	16	11
All Types	Gross Floor Area (Thousand Square Metres)										
	1,438.3	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
	Residential	474.6	653.7	632.1	559.7	695.4	556.2	1,193.5	1,257.1	1,709.9	1,151.2
	Commercial	370.5	151.0	347.5	302.1	603.3	662.3	591.3	1,041.8	455.6	1,174.6
	Industrial	530.6	492.8	569.5	640.7	816.7	1,249.0	925.5	948.0	635.9	429.2
	Institutional	62.4	20.3	50.5	57.7	101.8	48.0	59.2	68.6	49.4	39.8
	Others	0.2	8.6	101.1	16.7	3.4	8.8	61.7	11.9	27.6	15.1
All Types	Cost of Construction (Million Dollars)										
	734.8	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
	Residential	163.7	192.0	254.1	212.0	331.1	410.9	1,027.6	1,240.6	1,698.9	1,029.1
	Commercial	222.9	95.0	178.2	183.4	365.4	571.7	589.9	1,421.9	656.5	1,949.6
	Industrial	305.7	204.0	172.5	255.6	429.2	1,270.5	844.3	763.0	534.0	301.5
	Institutional	42.2	12.1	32.0	36.5	68.1	51.6	80.7	99.7	54.0	41.7
	Others	0.3	2.2	7.2	1.5	3.1	4.6	13.9	9.2	5.0	1.6

Source : Ministry of National Development

8.13 BUILDING PLAN APPROVALS BY TYPE OF DEVELOPMENT IN THE PRIVATE SECTOR

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	
All Types	Number											
	1,089	1,099	1,067	1,244	1,444	1,306	1,533	1,669	1,322	1,207	1,457	
	Residential	404	345	364	523	668	595	825	862	652	556	687
	Commercial	194	196	188	205	179	176	198	260	243	270	337
	Industrial	427	495	474	458	521	456	422	444	350	296	346
	Institutional	56	60	33	43	54	55	54	77	67	78	74
	Others	8	3	8	15	22	24	34	26	10	7	13
All Types	Gross Floor Area (Thousand Square Metres)											
	1,663.8	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	
	Residential	400.6	415.8	551.6	942.6	1,244.2	1,159.3	2,083.1	1,132.7	880.0	483.6	535.4
	Commercial	522.9	521.9	466.4	750.3	971.5	1,012.9	2,144.6	802.0	581.4	70.6	119.7
	Industrial	610.2	854.2	806.6	1,038.4	1,174.2	1,073.5	1,015.9	680.5	422.4	260.5	396.7
	Institutional	107.6	108.2	27.9	38.6	69.1	51.4	55.7	64.0	68.3	71.7	124.1
	Others	22.5	0.5	9.8	7.6	27.8	109.3	239.3	143.0	6.6	2.7	2.8
All Types	Estimated Cost of Construction (Million Dollars)											
	660.2	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	
	Residential	134.1	145.0	237.2	569.4	1,109.6	1,179.5	2,186.4	1,195.4	762.5	441.6	434.6
	Commercial	298.1	303.5	375.2	890.3	1,197.8	1,296.2	3,216.8	1,087.3	771.1	122.1	141.9
	Industrial	162.8	283.2	322.4	556.4	1,229.1	767.2	890.0	505.8	345.3	194.3	286.6
	Institutional	61.0	59.8	20.9	32.4	62.4	61.3	77.4	72.7	72.7	76.1	52.2
	Others	4.2	0.2	0.4	1.5	8.5	18.9	25.8	22.8	1.1	1.1	1.7

Source : Ministry of National Development

8.14 RESIDENTIAL UNITS IN THE PUBLIC SECTOR BY TYPE OF BUILDING AND STAGE OF DEVELOPMENT

Number

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
All Types Detached Terrace Flats Others	Planning Approval Stage										
	26,751	36,445	36,365	29,371	27,468	40,793	54,709	39,018	33,339	38,536	30,283
	-	-	-	-	-	16	-	-	-	-	-
	-	-	-	-	-	12	-	-	-	1	-
	26,275	36,423	36,362	29,307	27,468	40,755	54,709	38,922	33,319	37,705	29,982
	476	22	3	64	-	10	-	96	20	830	301
	Building Commencement Stage										
	31,329	24,661	27,913	24,950	30,255	46,721	59,201	39,676	31,854	26,584	13,083
	-	-	-	-	-	16	-	-	-	-	-
	-	-	-	-	-	12	-	-	-	-	-
	30,865	24,641	27,909	24,950	30,255	46,683	59,105	39,676	31,834	26,584	13,083
	464	20	4	-	-	10	96	-	20	-	-
All Types Detached Terrace Flats Others	Building Completion Stage										
	35,472	37,715	27,174	23,886	12,464	19,512	19,275	78,288	59,633	38,519	32,859
	-	-	-	-	-	-	-	16	-	-	-
	-	-	-	-	-	-	-	12	-	-	-
	35,454	37,290	26,707	23,872	12,401	19,510	19,275	78,244	59,633	38,403	32,859
	18	425	467	14	63	2	-	16	-	116	-

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

Number

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
All Types Detached Semi-detached Terrace Flats Others	Planning Approval Stage										
	3,842	1,996	3,587	8,037	8,174	6,535	8,933	6,484	2,535	2,848	3,984
	77	69	103	177	247	213	291	289	174	137	202
	147	106	250	297	232	275	566	912	192	290	457
	155	123	312	507	396	227	1,030	1,396	384	765	1,562
	3,412	1,590	2,883	6,993	7,291	5,820	7,035	3,883	1,785	1,649	1,752
	51	108	39	63	8	-	11	4	-	7	11
	Building Plan Approval Stage										
	1,625	2,018	2,584	3,716	5,532	4,817	9,436	4,461	3,777	2,074	2,051
	66	62	75	144	196	149	239	273	165	75	126
	126	143	215	329	208	166	418	477	528	235	336
	191	99	131	402	410	233	639	663	824	504	655
All Types Detached Semi-detached Terrace Flats Others	1,184	1,679	2,096	2,840	4,654	4,264	8,132	3,045	2,259	1,253	934
	58	35	67	1	64	5	8	3	1	7	-
	Building Commencement Stage										
	1,728	1,864	3,517	3,968	6,270	7,829	7,465	2,929	2,107	991	3,246
	56	59	65	109	195	149	223	211	107	53	108
	109	66	144	273	206	170	487	430	420	183	461
	118	109	126	351	395	270	836	504	544	422	1,225
	1,416	1,598	3,133	3,203	5,410	7,239	5,906	1,781	1,035	326	1,451
	29	32	49	32	64	1	13	3	1	7	1
	Building Completion Stage										
	2,242	2,939	2,780	2,212	3,186	2,476	4,919	5,441	7,388	5,173	2,295
	100	90	86	96	110	124	161	144	179	109	157
	287	276	225	214	328	229	357	290	377	385	275
	248	323	291	442	231	183	481	365	674	365	457
	1,606	2,245	2,146	1,453	2,510	1,880	3,902	4,595	6,150	4,312	1,393
	1	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

Number

End of Year	Residential								Shops ¹
	Total	1-room	2-room	3-room	4-room	5-room	Executive	HUDC	
1977	297,199	75,008	44,293	129,077	34,894	11,889	-	2,038	9,182
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	25,926
1987	612,826	58,237	47,713	256,648	171,557	58,776	14,288 ²	5,607	26,136

Note : Figures include units managed by Jurong Town Corporation (from 1973-April 1982) and Housing and Urban Development Company (from 1976/77-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

Year	Flats Constructed ¹	Flats Sold Under 'Home Ownership Scheme' ¹	Percentage of Population Living in Public Flats
	Number		End of Period
1977	30,498	36,536	64
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

1 Figures 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 Figures include middle-income housing units completed by Urban Redevelopment Authority.

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

9 COMMERCE AND SERVICES

9 COMMERCE AND SERVICES

The Department of Statistics conducted the Survey of Services since 1972 and the Survey of Commerce since 1973, on a biennial basis. With effect from 1985, both surveys are conducted annually. The surveys cover business enterprises, non-profit organisations and statutory boards, but exclude government ministries and departments. The Survey of Services covers Divisions 7, 8 and 9 of the Singapore Standard Industrial Classification (SSIC), that is, transport, storage and communications, financing, insurance, real estate, business services and community, social and personal services, but excludes foreign missions, political parties, taxi and trishaw operators, independent artistes and domestic servants. The Survey of Commerce covers Division 6 of the SSIC, that is, wholesale and retail trades, restaurants and hotels, but excludes hawkers and stall-holders.

Prior to 1976, both surveys were conducted on a full coverage. From 1976, they were conducted on a sample basis, except for the years 1983 and 1984, in which censuses on commerce and services were conducted respectively. For sample surveys, stratified sampling at the detailed industry level

was used. Within each industry, establishments were selected with different sampling rates according to size of operating receipts and those above a certain size were automatically selected.

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.

The terms used in the following tables are defined below :

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.

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 financing establishments, 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. It includes remuneration, purchases, indirect taxes, work given out, rental of premises, rental and maintenance of machinery and equipment, depreciation, bank commission and service charges, utility charges, legal, accounting and other professional services, transport

and travelling, stationery and printing, postage and telecommunications, advertisement, entertainment, cargo handling expenses, charter fees and other expenses that are connected with the establishments' operation. 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 except depreciation of fixed assets.

Value Added : This comprises the value of operating surplus, remuneration and indirect taxes.

9.1 PRINCIPAL STATISTICS OF THE COMMERCE SECTOR BY INDUSTRY, 1977-1985

Year	Establishments	Employment	Remuneration	Turnover	Operating Expenditure¹	Operating Surplus¹	Value Added¹
	Number		Million Dollars				
1977 1979 1981 1983 1985	Total						
	27,987	172,641	1,037	29,963	28,284	1,785	2,890
	34,441	200,471	1,441	50,782	47,684	3,273	4,817
	38,237	215,294	1,992	66,006	63,009	3,236	5,360
	39,126	226,717	2,789	77,166	74,582	2,943	5,929
	34,204	210,136	3,024	75,269	73,992	1,706	4,896
	Wholesale Trade						
	12,164	82,254	685	24,484	23,267	1,287	2,003
	15,783	97,319	954	42,943	40,553	2,508	3,512
	18,794	107,316	1,323	55,828	53,677	2,306	3,693
	20,103	115,149	1,871	65,024	63,162	2,101	4,068
	17,082	105,467	2,017	63,769	62,793	1,256	3,355
	Retail Trade						
	13,279	56,835	198	4,680	4,342	357	566
	15,742	66,048	270	6,659	6,166	521	807
	16,457	65,462	353	8,436	7,927	550	922
	16,029	66,096	465	10,020	9,571	503	995
	14,521	59,590	475	9,462	9,247	274	774
	Restaurants and Hotels						
2,544	33,552	154	798	675	141	320	
2,916	37,104	217	1,181	965	245	498	
2,986	42,516	316	1,742	1,404	380	745	
2,994	45,472	453	2,123	1,849	340	867	
2,601	45,079	532	2,038	1,952	176	767	

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

¹ Data on operating expenditure, operating surplus and value added for 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, 1977-1985

	Turnover	Operating Surplus ¹	Value Added ¹	Value Added ¹ Per Person Engaged	Operating Surplus ¹ to Turnover	Remuneration to Operating Expenditure ¹	Remuneration to Value Added ¹
	Per Establishment						
	Thousand Dollars						
Per Cent							
Total							
1977	1,071	64	103	17	6.0	3.7	35.9
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
Wholesale Trade							
1977	2,013	106	165	24	5.3	2.9	34.2
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
Retail Trade							
1977	352	27	43	10	7.6	4.6	35.0
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
Restaurants & Hotels							
1977	314	55	126	10	17.7	22.8	48.0
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

¹ See note to Table 9.1.

9.3 PRINCIPAL STATISTICS OF THE SERVICES SECTOR BY INDUSTRY, 1978-1985

Year	Establishments	Employment	Remuneration	Operating Receipts	Operating Expenditure ¹	Operating Surplus ¹	Value Added ¹
	Number		Million Dollars				
	Transport, Storage and Communications						
1978	4,466	83,271	899	5,500	4,509	1,356	2,333
1980	5,703	89,429	1,123	8,362	6,883	1,836	3,093
1982	6,002	90,290	1,476	10,208	8,560	2,182	3,814
1984	5,880	86,457	1,750	11,276	9,726	2,384	4,306
1985	5,265	82,786	1,747	11,179	9,632	2,376	4,306
	Financing and Insurance Services						
1978	1,743	23,594	362	8,291	6,912	1,421	1,226
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	4,206
	Real Estate and Business Services						
1978	4,319	43,906	438	3,087	2,853	677	1,236
1980	6,516	59,695	718	4,451	3,822	1,222	2,133
1982	7,791	67,100	1,085	6,670	5,833	1,913	3,292
1984	8,966	71,887	1,493	13,594	12,771	2,650	4,636
1985	7,964	66,609	1,365	11,462	10,975	2,286	4,038
	Community, Social and Personal Services						
1978	7,443	39,720	176	773	608	183	383
1980	8,162	40,180	236	1,051	807	267	528
1982	8,119	42,160	332	1,303	1,051	292	666
1984	7,777	43,071	452	1,627	1,380	304	804
1985	6,960	40,575	466	1,544	1,333	262	757
	Non-profit Organisations						
1978	3,805	25,805	256	115	416	12	275
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

1 See note to Table 9.1.

9.4 SELECTED AVERAGES AND RATIOS IN THE SERVICES SECTOR, 1978-1985

(Excluding Non-profit Organisations)

	Operating Receipts	Operating Surplus¹	Value Added¹	Value Added¹ Per Person Engaged	Operating Surplus¹ to Operating Receipts	Remuneration to Operating Expenditure¹	Remuneration to Value Added¹
	Per Establishment						
	Thousand Dollars				Per Cent		
Total							
1978	982	202	288	27	20.6	12.6	36.2
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	522	57	14.3	7.6	35.8
1985	2,924	423	569	58	14.5	7.9	36.3
Transport, Storage & Communications							
1978	1,232	304	522	28	24.7	19.9	38.5
1980	1,466	322	542	35	22.0	16.3	36.3
1982	1,701	364	635	42	21.4	17.2	38.7
1984	1,918	405	732	50	21.1	18.0	40.6
1985	2,123	451	818	52	21.3	18.1	40.6
Financing & Insurance Services							
1978	4,757	815	703	52	17.1	5.2	29.5
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	1,322	109	11.2	3.2	29.7
Real Estate & Business Services							
1978	715	157	286	28	21.9	15.4	35.4
1980	683	188	327	36	27.5	18.8	33.7
1982	856	246	423	49	28.7	18.6	33.0
1984	1,516	296	517	64	19.5	11.7	32.2
1985	1,439	287	507	61	19.9	12.4	33.8
Community, Social & Personal Services							
1978	104	25	51	10	23.7	28.9	46.0
1980	129	33	65	13	25.4	29.2	44.7
1982	160	36	82	16	22.4	31.6	49.8
1984	209	39	103	19	18.7	32.8	56.2
1985	222	38	109	19	17.0	35.0	61.6

1 See note to Table 9.1.

10 EXTERNAL TRADE

Source of Data

From April 1987, Singapore's external trade statistics are compiled by the Trade Development Board from import and export declarations which are 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 Telecoms 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 of 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 and Terms Used

Imports : 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 : All goods taken out of Singapore, except those specified as excluded under the **Coverage** section. It comprises domestic exports and re-exports.

Domestic Exports : 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 : 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.

10.1 EXTERNAL TRADE, 1978-1987

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
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
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
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
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
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
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
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
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
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
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
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	55,889.6
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	136,448.2
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	65,992.1
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	18,846.2
Non-oil	17,636.8	21,714.7	25,576.4	25,862.7	25,865.1	29,348.1	34,439.7	33,726.8	36,846.3	47,145.9
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	46,097.8
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
Non-oil	7,798.4	10,146.4	12,157.5	12,520.0	11,866.8	13,868.2	17,459.6	16,735.4	20,612.4	27,916.0
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	19,894.3
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	70,456.1
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	18,820.6
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	51,635.5

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

Source : Trade Development Board
with effect from April 1987

10.2 TOTAL TRADE BY REGION AND SELECTED COUNTRY

Million Dollars

Region/Country	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
TOTAL	45,612.2	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
South East Asia	8,651.8	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
Malaysia	6,340.0	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
Thailand	1,133.1	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
Philippines	455.1	484.3	676.1	746.3	807.4	911.0	1,161.0	836.0	916.1	940.9	1,252.9
Brunei	438.1	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
North East Asia	10,831.3	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
Japan	6,392.1	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
Hong Kong	2,125.2	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
Taiwan	876.1	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
China, People's Rep	815.1	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
Republic of Korea	573.9	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
South Asia	908.5	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
India	536.2	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
Sri Lanka	111.1	218.8	316.3	371.8	412.3	678.5	658.1	405.1	519.6	414.4	460.2
Bangladesh	81.7	234.8	284.6	576.7	625.9	589.7	538.3	617.0	716.7	535.6	550.4
Pakistan	142.0	181.8	413.7	534.2	373.9	311.8	306.4	516.2	593.3	308.2	359.0
West Asia	7,060.7	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
Saudi Arabia	4,074.9	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
Iran	1,086.1	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
United Arab Emirates	313.0	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
Kuwait	391.5	458.5	1,870.5	3,026.3	2,248.9	1,169.0	1,687.5	2,192.5	2,152.0	2,183.0	1,680.4
Bahrain	314.8	308.2	490.8	735.7	746.5	981.1	577.3	528.3	276.4	459.1	579.3

10.2 TOTAL TRADE BY REGION AND SELECTED COUNTRY (continued)

Million Dollars

Region/Country	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
European Economic Community	5,873.3	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
United Kingdom	1,603.3	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
Germany, Fed Rep	1,649.4	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
France	755.6	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
Italy	486.8	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
Netherlands	641.1	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
European Free Trade Association	766.8	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
Switzerland	267.5	344.2	406.9	554.1	496.7	515.0	555.4	555.2	516.3	641.7	852.4
Other Western Europe	45.0	53.6	46.2	62.4	44.2	126.8	82.5	70.6	174.0	121.0	226.3
Socialist Countries of Eastern Europe	493.9	631.6	867.3	1,001.6	803.5	911.6	889.6	1,226.7	872.8	667.3	847.8
USSR	259.4	311.9	447.2	558.1	440.0	640.3	477.8	846.6	560.6	362.1	477.5
North America	6,682.2	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	25,596.4
United States ¹	6,348.0	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
Canada	334.2	358.2	449.9	555.9	665.1	505.1	564.3	703.6	553.3	590.5	839.3
Latin American Free Trade Association	548.6	542.1	771.0	762.0	639.1	649.8	573.6	669.3	571.5	608.7	807.3
Brazil	228.9	285.6	381.4	330.2	250.7	306.5	250.5	331.5	301.7	286.5	382.7
Oceania	2,355.3	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
Australia including Christmas Island	1,650.5	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
New Zealand	281.6	328.5	560.8	939.1	794.8	891.8	607.1	621.9	857.7	543.5	460.1
Rest of the World	1,394.8	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	2,624.5

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

Million Dollars

Region/Country	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
TOTAL	25,521.9	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
South East Asia	4,484.7	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
Malaysia	3,466.0	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
Thailand	571.0	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
Philippines	167.0	148.9	160.6	160.2	226.7	218.9	271.3	395.0	437.5	401.6	375.6
Brunei	145.5	226.8	379.2	424.2	691.1	477.6	404.4	415.4	536.6	298.1	276.6
North East Asia	6,664.6	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
Japan	4,474.0	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
Hong Kong	651.2	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
Taiwan	583.8	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
China, People's Rep	670.4	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
Republic of Korea	260.3	334.6	423.9	584.7	661.3	743.8	904.0	784.0	930.3	1,288.6	1,837.2
South Asia	289.9	292.1	307.3	440.2	515.5	791.4	1,039.2	610.0	703.8	497.7	767.1
India	190.0	188.1	218.7	246.4	280.7	408.2	733.5	470.4	488.8	348.5	525.5
Sri Lanka	30.8	35.1	32.8	37.6	53.2	254.4	155.9	28.9	94.8	35.8	61.3
Bangladesh	10.9	18.5	8.7	42.8	30.4	21.4	17.1	43.1	52.1	29.3	90.0
Pakistan	44.8	43.0	36.5	91.5	125.3	94.2	120.8	60.9	60.3	78.1	82.9
West Asia	6,010.4	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
Saudi Arabia	3,781.4	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
Iran	1,004.7	862.2	561.2	473.7	753.4	1,931.1	1,208.3	733.0	2,474.5	2,062.6	973.2
United Arab Emirates	44.2	35.8	31.8	484.4	899.5	809.9	1,418.6	1,403.2	1,547.1	687.5	1,128.6
Kuwait	308.4	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
Bahrain	254.0	251.5	390.7	667.3	675.3	900.4	499.5	455.4	197.4	410.7	520.3

10.3 IMPORTS BY REGION AND SELECTED COUNTRY (continued)

Million Dollars

Region/Country	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
European Economic Community	2,855.2	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
United Kingdom	957.0	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
Germany, Fed Rep	880.3	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
France	310.7	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
Italy	243.4	318.6	423.7	484.2	543.0	589.5	766.6	905.5	832.9	740.3	921.4
Netherlands	241.5	280.8	373.9	520.8	462.6	452.1	507.2	492.7	550.9	499.8	513.2
European Free Trade Association	451.5	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
Switzerland	217.5	276.3	337.7	428.4	378.3	418.1	433.5	433.7	397.8	506.1	649.2
Other Western Europe	8.3	15.4	8.6	4.7	3.1	72.1	10.8	13.0	81.6	25.7	51.0
Socialist Countries of Eastern Europe	138.0	154.0	234.6	176.8	222.1	278.5	364.7	308.6	169.0	189.6	234.5
USSR	63.9	52.9	52.0	51.2	96.7	175.6	98.3	86.4	28.9	78.4	84.0
North America	3,336.9	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
United States ¹	3,227.2	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
Canada	109.7	143.6	176.9	272.9	276.7	220.2	219.2	318.2	195.4	225.0	355.3
Latin American Free Trade Association	226.3	201.2	219.5	254.3	225.0	373.0	278.4	302.4	247.3	256.3	379.3
Brazil	107.3	137.0	129.7	168.2	131.4	212.8	147.8	186.4	163.6	143.2	225.3
Oceania	783.6	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
Australia including Christmas Island	649.0	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
New Zealand	88.6	123.7	150.4	188.8	225.1	221.4	180.7	221.7	264.1	202.3	221.6
Rest of the World	272.5	357.5	483.1	715.0	698.0	1,046.1	775.2	476.6	616.0	737.1	518.9

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

Million Dollars

Region/Country	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
TOTAL	20,090.3	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
South East Asia	4,167.1	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
Malaysia	2,874.0	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
Thailand	562.1	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
Philippines	288.1	335.4	515.5	586.1	580.7	692.1	889.7	441.0	478.6	539.3	877.3
Brunei	292.6	358.4	455.7	591.8	682.6	769.1	746.0	627.1	638.1	683.6	707.5
North East Asia	4,166.7	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
Japan	1,918.1	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
Hong Kong	1,474.0	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
Taiwan	292.3	349.2	450.6	702.0	606.6	575.8	687.5	829.6	855.2	1,097.2	1,636.7
China, People's Rep	144.7	130.7	369.6	657.9	377.3	516.7	449.8	519.3	730.2	1,243.8	1,546.8
Republic of Korea	313.6	400.1	500.4	621.9	621.5	678.4	964.6	814.2	619.5	703.0	995.1
South Asia	618.6	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
India	364.2	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
Sri Lanka	80.3	183.7	283.5	334.2	359.1	424.1	502.2	376.2	424.8	378.6	398.9
Bangladesh	70.8	216.3	275.8	533.9	595.5	568.3	521.2	573.9	664.6	506.3	460.4
Pakistan	97.2	138.8	377.2	442.7	248.6	217.6	185.6	455.3	533.0	230.1	276.1
West Asia	1,050.3	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
Saudi Arabia	293.5	373.8	702.9	824.6	1,064.6	1,275.5	974.7	1,363.5	588.5	483.5	578.7
Iran	81.4	139.3	59.6	200.9	208.4	549.8	821.6	724.8	873.7	763.8	152.7
United Arab Emirates	268.8	317.4	481.9	606.2	723.6	355.6	426.9	446.4	437.2	391.0	437.9
Kuwait	83.1	102.6	172.1	187.7	253.5	220.7	142.0	309.8	268.4	84.9	122.7
Bahrain	60.8	56.7	100.1	68.4	71.2	80.7	77.8	72.9	79.1	48.4	59.0

10.4 EXPORTS BY REGION AND SELECTED COUNTRY (continued)

Million Dollars

Region/Country	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
European Economic Community	3,018.1	3,064.9	4,465.1	5,305.5	4,838.1	4,287.0	4,396.5	5,174.0	5,312.2	5,455.3	7,353.2
United Kingdom	646.3	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
Germany, Fed Rep	769.1	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
France	444.9	448.5	671.7	906.1	796.4	671.2	662.0	637.6	764.0	713.6	920.4
Italy	243.4	257.3	417.0	533.0	414.4	361.6	444.0	531.5	545.8	498.9	695.5
Netherlands	399.6	413.4	719.4	784.0	732.3	759.2	536.7	628.6	638.5	747.8	1,114.4
European Free Trade Association	315.3	218.6	306.7	444.7	392.9	366.8	391.8	402.2	443.5	453.4	585.2
Switzerland	50.0	67.9	69.2	125.7	118.4	96.9	121.9	121.5	118.5	135.6	203.2
Other Western Europe	36.7	38.2	37.6	57.7	41.1	54.7	71.7	57.6	92.4	95.3	175.3
Socialist Countries of Eastern Europe	355.9	477.6	632.7	824.8	581.4	633.1	524.9	918.1	703.8	477.7	613.3
USSR	195.5	259.0	395.2	506.9	343.3	464.7	379.5	760.2	531.7	283.7	393.5
North America	3,345.3	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
United States ¹	3,120.8	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
Canada	224.5	214.6	273.0	283.0	388.4	284.9	345.1	385.4	357.9	365.5	484.0
Latin American Free Trade Association	322.3	340.9	551.5	507.7	414.1	276.8	295.2	366.9	324.2	352.4	428.0
Brazil	121.6	148.6	251.7	162.0	119.3	93.7	102.7	145.1	138.1	143.3	157.4
Oceania	1,571.7	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
Australia including Christmas Island	1,001.5	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
New Zealand	193.0	204.8	410.4	750.3	569.7	670.4	426.4	400.2	593.6	341.2	238.5
Rest of the World	1,122.3	1,093.7	1,388.2	2,478.0	2,600.4	2,359.6	2,416.5	2,031.0	1,970.7	2,124.1	2,105.6

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

Million Dollars

Region/Country	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
TOTAL	11,651.8	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
South East Asia	1,477.6	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
Malaysia	771.5	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
Thailand	317.8	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	1,759.4
Philippines	174.8	195.8	288.0	340.8	292.4	411.6	609.9	217.4	268.7	316.0	492.5
Brunei	118.3	151.1	190.0	268.5	283.3	315.0	281.7	215.9	226.7	235.4	237.0
North East Asia	3,108.8	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
Japan	1,639.2	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
Hong Kong	1,165.8	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
Taiwan	139.6	171.0	179.0	387.2	324.2	293.6	330.5	462.6	513.4	655.6	976.9
China, People's Rep	53.8	35.9	151.4	238.2	114.1	117.6	117.6	194.4	398.8	858.4	1,058.7
Republic of Korea	96.0	118.3	168.6	292.1	343.3	449.5	711.2	547.2	371.7	427.4	641.7
South Asia	247.2	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
India	144.7	349.4	224.2	676.3	881.3	840.5	573.6	1,042.8	667.6	527.9	580.9
Sri Lanka	42.6	115.8	164.6	193.1	180.6	251.0	290.4	145.4	183.5	107.0	138.6
Bangladesh	15.5	112.3	181.0	356.6	446.1	454.7	226.1	416.4	485.7	311.0	273.3
Pakistan	36.2	55.2	111.4	126.8	81.7	64.2	63.7	86.4	82.4	89.5	114.1
West Asia	609.3	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
Saudi Arabia	178.0	251.7	462.7	467.7	532.6	510.0	560.0	408.5	300.7	257.6	302.4
Iran	26.1	59.0	20.8	60.7	93.6	505.0	719.5	614.0	742.1	696.7	82.0
United Arab Emirates	199.9	209.9	355.9	438.4	539.0	179.4	175.7	211.3	222.9	184.2	240.8
Kuwait	64.2	71.7	126.0	100.4	188.2	123.0	87.8	99.4	62.6	51.3	73.9
Bahrain	43.4	39.0	80.5	49.0	40.8	43.3	39.1	34.1	44.3	25.7	39.0

10.5 DOMESTIC EXPORTS BY REGION AND SELECTED COUNTRY (continued)

Million Dollars

Region/Country	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
European Economic Community	1,663.2	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
United Kingdom	359.6	442.5	666.1	690.1	752.8	648.1	750.8	1,057.5	1,026.7	853.6	1,147.1
Germany, Fed Rep	505.0	501.6	672.1	942.0	827.2	721.9	767.0	880.6	798.2	1,073.3	1,329.7
France	211.4	208.4	343.4	489.6	540.3	501.9	466.8	418.8	387.0	447.3	624.9
Italy	105.0	118.4	199.5	320.8	269.2	254.4	344.3	444.8	456.1	371.8	516.1
Netherlands	218.6	220.9	328.6	454.3	410.5	516.8	239.1	253.8	370.7	346.2	698.1
European Free Trade Association	275.5	182.0	244.6	350.6	313.4	298.0	308.6	315.4	299.9	324.0	394.4
Switzerland	42.8	59.1	50.4	87.1	78.1	70.8	86.6	76.3	73.5	80.8	93.8
Other Western Europe	5.3	3.1	6.3	13.4	7.5	8.8	17.4	9.6	31.4	39.2	76.0
Socialist Countries of Eastern Europe	106.1	108.5	131.3	211.1	208.1	241.3	255.0	587.3	428.7	255.3	254.2
USSR	54.0	53.4	62.1	101.8	92.6	143.2	180.2	514.6	328.2	153.9	147.4
North America	2,229.7	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
United States ¹	2,136.2	2,513.7	3,026.2	3,894.1	4,397.0	4,196.2	6,018.7	7,920.3	8,159.3	9,494.5	12,240.0
Canada	93.5	86.7	121.9	134.3	164.1	134.6	187.9	207.3	208.6	246.6	339.2
Latin American Free Trade Association	17.7	29.2	126.5	468.5	100.2	84.5	73.1	105.1	132.0	113.1	130.8
Brazil	8.6	12.1	79.6	26.4	21.0	40.1	39.8	60.6	65.2	49.7	39.2
Oceania	1,166.5	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
Australia including Christmas Island	667.7	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
New Zealand	141.6	149.7	344.0	683.6	486.0	579.3	337.4	323.4	510.6	268.1	149.6
Rest of the World	744.9	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 Prior to 1986, USA includes Puerto Rico.

Source : Trade Development Board with effect from April 1987

10.6 IMPORTS BY COMMODITY

Million Dollars

Commodity	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
TOTAL	25,521.9	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
Food	2,211.0	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
Cereals & Cereal Preparations	436.8	438.3	573.2	694.3	754.0	823.4	636.7	980.5	428.1	384.5	362.4
Fruits & Vegetables	487.8	547.2	599.3	674.1	792.2	805.0	857.8	913.9	899.1	927.8	971.0
Coffee & Spices	439.6	384.5	439.8	388.7	464.8	592.4	660.2	808.7	882.6	1,047.7	830.6
Beverages & Tobacco	150.0	176.0	207.3	276.0	282.2	339.5	416.2	460.6	501.0	541.5	595.0
Crude Materials	2,278.7	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
Rubber	1,485.4	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
Wood	291.5	328.3	461.4	423.6	388.0	360.4	353.1	296.1	249.4	272.1	294.6
Mineral Fuels	6,524.2	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
Petroleum & Petroleum Products	6,519.5	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
Animal & Vegetable Oils	478.9	491.1	829.4	1,001.0	721.8	671.5	632.1	1,435.9	1,380.5	720.3	791.8
Unprocessed Vegetable Oils	272.7	190.0	414.0	239.6	226.9	114.2	202.0	440.9	293.9	166.9	299.0
Chemicals	1,319.3	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
Chemical Compounds	311.0	355.1	571.4	715.7	753.0	723.5	821.2	859.1	772.0	879.7	1,079.4
Plastic Materials	307.6	400.1	591.3	648.2	643.3	687.0	808.1	829.3	721.3	846.0	1,275.9
Medicinal Products	160.9	161.4	173.2	206.8	203.6	210.7	207.0	222.2	239.0	284.6	314.2
Manufactured Goods by Materials	3,630.7	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
Textile Manufactures	1,124.7	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
Non-metal Mineral Manufactures	406.1	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
Iron & Steel	870.1	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
Metal Manufactures	524.8	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
Paper & Paperboard & Related Articles	242.0	310.7	377.1	502.9	532.8	501.7	556.4	647.7	575.4	684.9	886.2
Machinery & Transport Equipment	6,738.5	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
Non-electric Machinery	2,406.6	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
Electric Machinery	2,815.7	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
Transport Equipment	1,516.3	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
Miscellaneous Manufactured Articles	1,764.9	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
Scientific & Optical Instruments	335.5	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
Watches & Clocks	321.4	385.9	377.7	576.3	541.9	550.4	537.6	475.6	424.7	475.7	596.3
Miscellaneous Transactions nes	425.7	356.4	510.9	667.4	643.2	576.3	651.1	850.2	898.0	991.2	1,077.5

Source : Trade Development Board
with effect from April 1987

10.7 EXPORTS BY COMMODITY

Million Dollars

Commodity	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
TOTAL	20,090.3	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
Food	1,389.4	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
Cereals & Cereal Preparations	150.5	169.4	224.1	357.5	449.5	609.7	274.7	839.1	186.5	142.7	167.4
Fruits & Vegetables	191.9	205.1	223.3	252.8	303.2	320.9	342.9	375.9	366.2	340.8	364.4
Coffee & Spices	570.3	594.0	597.5	627.4	659.2	745.5	720.3	960.7	988.2	1,350.1	1,148.4
Beverages & Tobacco	65.2	99.9	131.6	157.2	174.3	217.0	210.0	209.8	240.8	332.1	387.2
Crude Materials	3,160.0	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
Rubber	2,255.7	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
Wood	330.0	408.0	657.7	585.0	426.4	378.4	398.8	365.0	327.9	380.4	510.3
Mineral Fuels	4,874.1	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
Petroleum & Petroleum Products	4,834.6	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
Animal & Vegetable Oils	474.7	513.5	858.1	1,095.5	820.0	780.3	628.2	1,540.5	1,535.2	880.4	795.9
Unprocessed Vegetable Oils	386.5	347.8	684.6	840.6	581.7	560.9	451.5	1,115.7	1,128.1	336.2	362.5
Chemicals	716.1	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
Chemical Compounds	117.8	152.2	231.7	282.6	346.0	380.5	547.2	882.4	917.6	985.5	1,253.3
Medicinal Products	213.7	233.5	267.5	323.3	319.2	342.8	329.8	259.8	298.1	294.1	305.2
Plastic Materials	121.4	155.7	205.8	220.6	220.5	243.4	263.2	486.3	680.1	732.5	1,174.7
Manufactured Goods by Materials	1,602.2	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
Wood Manufacture	297.5	351.4	482.5	549.2	539.3	495.9	536.4	481.0	484.3	447.3	590.5
Textile Manufactures	467.3	606.3	787.9	793.2	737.0	745.6	810.2	781.1	776.9	929.4	1,330.3
Iron & Steel	263.3	400.4	362.4	454.3	586.3	707.5	411.2	461.5	457.8	433.1	471.8
Metal Manufactures	228.5	287.1	389.5	450.7	578.5	516.9	509.6	530.3	570.6	561.1	626.6
Machinery & Transport Equipment	4,917.0	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
Non-electric Machinery	1,163.8	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
Electric Machinery	2,868.0	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
Transport Equipment	885.2	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
Miscellaneous Manufactured Articles	1,402.3	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
Clothing	514.1	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
Scientific & Optical Instruments	192.7	200.0	344.8	410.0	481.7	414.6	510.0	594.1	660.4	755.1	1,045.1
Watches & Clocks	184.9	223.6	189.8	221.8	250.9	232.9	246.2	230.2	200.9	206.8	226.5
Miscellaneous Transactions nes	1,489.3	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

Source : Trade Development Board
with effect from April 1987

10.8 DOMESTIC EXPORTS BY COMMODITY

Million Dollars

Commodity	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
TOTAL	11,651.8	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
Food	296.5	343.9	450.1	600.6	536.7	449.5	469.1	483.9	478.1	602.3	731.3
Animal Feeding Stuffs	65.0	64.6	74.8	83.6	57.6	42.6	38.6	46.9	36.3	40.5	36.6
Beverages & Tobacco	43.6	74.4	88.0	102.7	116.2	134.1	114.7	102.4	103.4	121.6	177.2
Crude Materials¹	73.9	85.3	129.3	152.3	140.0	125.3	179.6	172.3	189.7	246.6	343.7
Mineral Fuels	4,697.2	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
Animal & Vegetable Oils	129.4	170.7	229.8	393.7	470.3	482.6	401.9	670.1	629.7	666.7	605.4
Chemicals	325.5	389.2	458.0	572.9	609.7	690.7	869.7	1,333.8	1,597.7	1,785.5	2,360.4
Medicinal Products	168.8	183.4	205.5	258.2	237.4	260.3	241.3	172.1	207.0	192.9	199.4
Plastic Materials	66.5	95.1	92.7	99.6	100.6	108.5	106.5	325.9	522.4	549.5	864.2
Manufactured Goods by Materials	769.8	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
Wood Products excluding Furniture	199.2	252.9	366.7	414.3	363.6	289.5	286.5	251.7	228.8	169.3	190.3
Textile Yarn Thread	76.4	101.7	152.8	137.9	96.7	76.1	68.4	58.0	43.0	50.7	69.8
Woven Textile Fabrics	91.8	97.4	115.0	124.2	119.1	104.6	68.5	48.9	31.0	31.6	40.4
Lime, Cement & Fabricated											
Construction Materials	24.6	47.4	61.2	75.7	79.8	71.0	48.9	84.2	62.7	14.7	21.9
Iron & Steel Pipes & Fittings	72.3	117.9	31.5	35.8	47.8	67.7	32.8	38.7	59.4	71.6	58.5
Machinery & Transport Equipment	3,051.6	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
Office Machines	173.4	156.0	195.5	263.7	282.6	382.5	818.6	2,168.8	2,515.7	3,907.1	6,399.5
Other Non-electric Machines	160.4	205.2	220.4	158.8	357.1	434.5	490.7	579.6	581.6	680.6	803.7
Electric Generators	166.6	193.9	240.4	330.2	503.0	611.2	1,045.6	1,183.1	1,414.1	1,448.3	1,275.4
Telecommunications Apparatus	715.6	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
Other Electric Machinery	1,224.4	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
Ships, Boats & Oil Rigs	479.9	290.7	455.7	587.7	965.9	764.7	982.7	633.5	102.8	109.0	194.8
Miscellaneous Manufactured Articles	1,062.8	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
Clothing	440.0	558.9	670.3	757.3	800.3	752.8	765.2	891.3	876.9	1,072.3	1,487.1
Scientific & Optical Instruments	125.8	115.6	198.0	236.6	238.6	166.2	209.3	256.0	291.1	359.9	522.6
Watches & Clocks	108.0	136.3	109.9	143.5	175.2	150.1	157.2	131.7	103.4	103.5	93.4
Printed Matters	87.7	75.0	77.3	90.5	115.2	110.6	112.0	120.2	136.9	188.1	256.7
Toys & Games	78.6	84.7	97.3	147.9	175.4	151.5	138.7	185.5	200.5	258.5	440.4
Miscellaneous Transactions nes	1,201.5	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
Oil Bunkers	1,174.7	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

1 Exclude processed rubber and sawn timber.

Source : Trade Development Board
with effect from April 1987

10.9 IMPORTS OF SPECIFIC COMMODITIES

Million Dollars

Year	Meat	Rice	Unmilled Cereals	Fruits & Nuts	Spices	Animal Feed	Crude Rubber	Sawn Timber	Crude Petroleum
1977	137.1	131.5	243.2	171.5	217.9	220.9	1,477.9	244.0	5,447.2
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

10.9 IMPORTS OF SPECIFIC COMMODITIES (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
1977	1,072.3	272.7	160.9	195.1	119.4	751.9	483.4	307.8	895.9
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	2,382.0
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

10.9 IMPORTS OF SPECIFIC COMMODITIES (continued)

Million Dollars

Year	Industrial Machinery	Telecommunications Apparatus	Office Machines	Motor Vehicles	Ships, Boats & Oil Rigs	Clothing	Scientific & Optical Instruments	Watches & Clocks	Toys & Games
1977	657.1	517.8	155.7	567.7	579.1	220.9	335.5	321.4	143.1
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

Source : Trade Development Board
with effect from April 1987

10.10 EXPORTS OF SPECIFIC COMMODITIES

Million Dollars

Year	Spices	Coffee	Animal Feed	Crude Rubber	Sawn Timber	Petroleum Products	Fixed Vegetable Oils	Medicinal Products	Manufactured Fertilizers
1977	243.1	266.1	186.1	2,236.7	319.3	4,782.4	386.5	213.7	81.6
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

10.10 EXPORTS OF SPECIFIC COMMODITIES (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
1977	118.2	268.0	97.1	296.4	102.3	147.3	437.7	198.7	314.4
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	2,276.0	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

10.10 EXPORTS OF SPECIFIC COMMODITIES (continued)

Million Dollars

Year	Telecommuni- cations Apparatus	Household Equipment	Motor Vehicles	Ships, Boats & Oil Rigs	Furniture	Clothing	Scientific & Optical Instruments	Watches & Clocks	Printed Matters
1977	803.9	80.7	276.3	532.1	48.1	514.1	192.7	184.9	113.1
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

Source : Trade Development Board
with effect from April 1987

11 TRANSPORT AND COMMUNICATIONS

11 TRANSPORT AND COMMUNICATIONS

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

All traffic movements are compiled from data supplied by the Civil Aviation Authority of Singapore and relate to passengers, freight and mail on commercial flights handled primarily at the Paya Lebar Airport (up to 30 June 1981) and Changi Airport (from 1 July 1981). Air cargo handled exclude passenger baggage, diplomatic cargo and aircraft stores.

Passenger Movements

Data on arrivals and departures of passengers are compiled from returns submitted by airline and shipping agents and cover all persons except those travelling between Singapore and Peninsular Malaysia.

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.

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 or may not 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 or may not 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

Registration of motor vehicles is compulsory and the licence is renewable every six months or a year with the Registry of Vehicles.

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, 1983-1987

(End of Period)

Tonnage Class (Gross Registered Tons)	1983		1984		1985		1986		1987	
	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
Non-propelled or Below 100	945	582	824	520	727	475	614	407	562	377
100 & Above	798	6,558	731	6,344	679	6,147	651	6,855	667	6,870

Source : Marine Department

11.2 AGE DISTRIBUTION OF VESSELS REGISTERED IN SINGAPORE, DECEMBER 1987

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	168	1,370	491	1,800	318	2,983	195	922	39	141	13	21	5	12
Non-propelled or Below 100	93	59	313	209	106	80	44	27	4	1	2	2	-	-
100 to Below 500	19	5	67	15	42	11	37	11	13	4	2	1	1	1
500 to Below 1,000	4	3	17	13	19	16	20	19	9	8	3	2	-	-
1,000 to Below 5,000	9	21	27	79	34	110	44	121	5	10	5	9	4	11
5,000 to Below 10,000	3	28	13	108	38	288	21	171	3	28	1	7	-	-
10,000 & Above	40	1,254	54	1,376	79	2,478	29	573	5	90	-	-	-	-

Source : Marine Department

11.3 VESSELS LICENSED IN SINGAPORE

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
1977	2,911	26	2,000	297	588	736	539	197
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

¹ Figures 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

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
1977	39,088	130,596	39,343	129,890	20,602	128,264	20,616	127,355	18,486	2,332	18,727	2,535
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

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 SEA CARGO DISCHARGED AND LOADED

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
1977	39,833.8	11,302.5	28,531.3	24,284.8	7,501.9	16,782.9
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

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

11.6 SEA CARGO DISCHARGED AND LOADED BY REGION AND SELECTED COUNTRY OF ORIGIN AND DESTINATION, 1983-1987

Thousand Freight Tonne

Region/Country of Origin or Destination	1983		1984		1985		1986		1987	
	Discharged	Loaded	Discharged	Loaded	Discharged	Loaded	Discharged	Loaded	Discharged	Loaded
ALL COUNTRIES	63,848.9	36,277.6	63,849.0	40,344.4	59,236.5	40,308.7	67,121.2	45,707.5	71,297.8	46,997.6
South East Asia	12,490.0	10,033.8	11,816.2	9,960.1	11,970.0	9,933.5	12,713.0	10,778.4	13,042.8	13,202.0
North East Asia	12,459.6	12,081.5	14,711.5	12,702.8	17,761.8	12,552.1	15,680.5	17,231.4	14,489.5	18,447.9
China, People's Rep	1,534.1	315.4	4,577.9	277.5	9,642.8	396.3	8,067.6	2,082.4	5,928.9	1,872.3
Hong Kong	1,227.3	4,642.4	1,024.0	4,454.3	1,071.7	4,483.7	1,489.5	5,493.8	1,301.0	5,342.9
Japan	6,466.0	5,433.7	5,237.0	6,261.0	3,943.9	6,311.5	3,288.7	7,352.0	3,409.8	8,976.9
Taiwan	2,124.4	602.8	2,698.5	773.2	2,268.2	971.3	1,786.7	1,402.8	2,344.0	1,335.2
South Asia	1,262.3	2,180.1	596.8	3,230.5	1,135.1	2,970.5	773.0	2,388.0	1,917.9	2,265.9
Red Sea & Persian Gulf Area	26,755.3	3,451.7	26,066.8	4,635.9	17,519.1	3,121.1	27,831.5	3,250.5	29,684.6	1,453.5
Bahrain	1,147.4	94.1	966.3	100.6	535.9	122.0	1,653.7	60.6	2,030.6	54.2
Iran	2,206.0	1,294.3	2,312.8	979.2	5,461.9	1,389.2	6,272.7	1,866.9	3,211.0	195.4
Kuwait	4,074.3	213.5	6,067.4	305.1	2,928.6	261.6	10,095.5	126.5	5,924.9	122.0
Saudi Arabia	14,087.3	989.4	11,516.2	2,330.2	4,644.9	590.1	6,269.5	457.8	12,078.9	434.9
Mediterranean Sea (excluding France)	872.3	708.0	730.6	504.8	992.4	755.8	980.0	688.0	885.2	789.6
Other Africa	621.8	636.3	454.2	698.3	370.2	596.0	519.6	778.3	524.3	742.0
Atlantic Europe	3,179.5	1,742.5	2,947.9	1,734.9	2,891.1	2,247.6	3,226.4	2,509.2	3,763.0	2,731.4
France	406.3	275.1	359.2	269.2	566.2	314.5	528.1	420.4	413.2	512.6
Germany, Fed Rep	774.2	390.5	868.2	433.0	697.2	452.7	793.2	664.9	1,181.3	686.1
Netherlands	656.7	531.7	704.1	505.4	623.0	692.9	708.2	681.4	796.2	753.0
United Kingdom	876.8	419.1	598.6	385.1	638.9	628.7	832.1	548.9	902.9	602.2
Northern Europe	200.7	85.4	227.4	61.7	170.2	70.9	127.5	98.2	196.3	103.1
Soviet Union & Other Eastern Europe	457.8	121.9	250.4	262.3	255.9	216.5	439.5	235.7	807.9	219.9
Oceania	1,948.8	3,309.4	3,477.0	3,965.9	3,030.4	3,967.8	1,960.0	4,074.4	2,360.9	3,075.8
Australia (West Coast)	434.1	960.1	789.5	1,021.3	706.0	939.2	470.9	938.2	437.4	764.7
Australia (East Coast)	1,276.5	733.8	2,309.0	1,391.2	1,932.6	1,041.4	1,178.7	1,330.1	1,633.4	1,018.8
New Zealand	138.5	559.2	330.3	484.3	317.5	935.2	276.1	587.2	226.7	162.4
North America	3,212.1	1,555.0	2,251.8	2,415.8	2,911.9	3,673.6	2,577.9	3,453.4	3,153.9	3,663.8
United States (Atlantic Ports)	1,192.4	1,011.0	814.9	1,426.7	1,050.8	2,705.4	1,049.2	2,154.3	1,296.4	1,696.1
United States (Pacific Ports)	1,743.6	368.1	804.7	872.9	1,628.9	802.3	1,306.0	931.4	1,484.7	1,178.6
Central & South America	388.7	372.0	318.4	171.4	228.4	203.3	292.3	222.0	471.5	302.7

Note : See note to Table 11.5.

Source : Port of Singapore Authority
with effect from July 1986

11.7 CIVIL AIRCRAFT LANDINGS, PASSENGERS AND MAIL

Year	Aircraft Landings	Passengers			Mail	
		Arrival	Departure	In Transit	In-coming	Out-going
	Number	Persons			Tonnes	
1977	33,542	2,106,710	2,118,109	899,084	2,040	3,378
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

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

11.8 AIR CARGO DISCHARGED AND LOADED BY REGION AND SELECTED COUNTRY OF ORIGIN AND DESTINATION, 1983-1987

Tonnes

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

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

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

11.9 AIR PASSENGERS BY REGION AND SELECTED COUNTRY OF EMBARKATION AND DISEMBARKATION, 1983-1987

Number

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

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

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

11.10 VISITOR ARRIVALS BY CITIZENSHIP

(By Air, Sea and Land)

Thousand

Citizenship	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	1,506.7	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
South East Asia	443.5	729.7	777.7	883.1	971.9	1,043.2	935.1	934.9	898.1	891.2	969.0
ASEAN	443.5	727.8	775.0	879.4	966.8	1,036.5	928.3	927.5	890.4	882.8	959.6
North East Asia	248.1	297.5	375.0	433.8	507.0	559.2	555.8	574.8	582.4	633.5	845.0
Hong Kong (UK Dependency)	21.9	33.8	41.0	54.2	58.3	64.1	60.1	62.2	61.0	64.7	77.2
Japan	190.6	218.7	261.0	298.6	365.2	389.1	381.4	383.3	390.2	417.9	556.6
Taiwan	35.6	34.8	59.0	63.0	58.5	67.6	69.9	84.2	87.0	104.0	152.8
South Asia	49.6	127.6	161.8	194.2	227.0	218.8	255.9	298.4	320.2	349.2	367.3
India	34.8	97.8	124.5	149.6	173.8	168.4	202.7	237.7	259.0	279.1	284.0
Pakistan	5.9	9.8	12.9	17.1	17.7	16.8	18.0	21.5	23.0	28.3	36.0
Sri Lanka	8.9	14.5	16.9	18.8	24.3	24.1	25.8	28.4	28.3	32.0	32.7
West Asia	23.6	21.2	24.1	30.4	29.9	29.5	27.4	36.1	51.9	48.8	52.0
Oceania	226.7	249.7	240.7	275.5	287.5	305.8	284.2	310.9	319.4	335.5	359.0
Australia	190.8	204.8	187.8	216.9	231.8	246.5	227.1	252.2	261.9	273.3	283.4
New Zealand	35.9	43.2	50.9	56.1	52.9	56.7	54.4	56.2	54.2	58.8	71.8
Europe	339.4	420.0	472.5	517.0	552.2	537.2	526.2	555.7	577.0	634.3	742.1
France	37.7	45.0	50.5	49.3	53.2	49.5	44.8	50.2	49.5	53.4	60.5
Germany, Fed Rep	45.0	60.3	68.7	78.7	85.1	73.3	72.7	78.6	79.3	84.8	99.9
Netherlands	38.1	45.9	51.3	56.6	59.0	50.9	50.7	50.0	50.0	52.1	58.0
Scandinavia	19.7	25.6	30.4	36.5	40.9	41.1	42.9	46.1	50.7	59.5	74.1
Switzerland	14.9	19.1	19.2	21.9	25.1	25.8	24.7	26.9	30.8	34.3	38.9
United Kingdom	132.2	168.0	182.3	197.6	215.8	227.2	222.8	223.6	229.9	243.6	272.0
America	169.4	186.2	180.0	206.1	221.9	226.4	241.8	247.2	248.8	260.3	286.6
United States	143.3	153.8	144.6	163.5	172.4	181.1	196.2	201.1	197.8	208.3	228.5
Canada	19.3	21.9	22.5	26.5	30.6	32.3	35.3	34.1	38.0	39.7	43.8
Africa	2.1	6.0	6.9	8.5	10.3	10.6	10.8	11.3	10.9	13.7	27.1
Other Regions	4.3	9.3	8.4	13.5	21.2	26.0	16.4	22.1	22.3	24.6	30.7

Note : Figures exclude Malaysian arrivals by land. Prior to 1978, other arrivals by land as well as Malaysians coming direct to Singapore by air and sea were also excluded.

Source : Singapore Tourist Promotion Board

11.11 VISITOR ARRIVALS BY REGION AND SELECTED COUNTRY OF RESIDENCE

(By Air, Sea and Land)

Thousand

Region/Country of Residence	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	1,506.7	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
South East Asia	518.5	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
ASEAN	517.1	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
North East Asia	263.5	300.1	377.3	442.7	519.3	572.5	572.7	590.9	600.4	654.2	870.2
Hong Kong	44.1	52.1	62.7	82.5	85.8	92.9	92.9	98.5	97.7	104.8	125.1
Japan	188.9	209.3	250.3	287.4	354.8	378.5	370.6	369.5	377.7	404.3	541.4
Taiwan	23.2	30.4	51.7	56.3	55.3	65.1	68.0	80.3	82.8	100.4	148.4
South Asia	38.0	83.7	104.3	127.3	168.2	169.7	204.6	252.2	280.4	307.0	328.0
India	24.5	55.8	70.4	85.5	116.9	121.5	154.4	192.7	218.5	236.6	243.5
Pakistan	5.2	8.2	11.0	15.1	15.4	14.4	15.7	19.1	20.9	26.1	33.5
Sri Lanka	7.3	11.1	13.5	15.5	21.0	21.2	23.1	25.7	25.2	28.1	28.4
West Asia	20.4	28.9	36.0	44.3	44.2	47.0	46.5	52.1	64.0	60.6	62.8
Oceania	260.2	287.0	275.5	311.8	326.0	351.2	325.4	359.1	368.8	390.4	421.2
Australia	216.1	228.9	206.4	239.2	258.6	282.0	259.4	291.1	300.8	315.9	330.2
New Zealand	44.1	51.7	60.8	63.0	58.0	59.9	57.0	58.9	57.5	62.3	76.5
Europe	259.6	320.6	375.9	413.5	447.5	424.5	418.1	445.0	468.5	520.1	619.3
France	31.0	37.0	42.0	40.2	44.7	41.1	37.1	42.2	41.4	43.6	47.5
Germany, Fed Rep	39.9	55.0	63.5	73.0	79.8	68.1	67.3	72.8	73.9	78.4	93.3
Netherlands	29.6	36.7	42.2	47.1	49.6	41.4	40.6	40.2	40.5	42.7	48.2
Scandinavia	16.9	21.9	26.6	32.1	36.1	36.0	37.2	40.8	45.4	53.6	67.9
Switzerland	14.6	19.0	19.3	22.0	25.5	26.2	25.4	27.9	32.2	35.6	40.4
United Kingdom	78.2	99.8	117.3	128.4	145.0	149.9	150.4	150.2	158.4	170.1	195.2
America	140.9	154.1	148.5	172.0	185.3	186.7	204.1	213.9	219.0	231.7	260.6
United States	118.1	126.3	118.7	135.8	143.6	150.7	167.4	176.9	176.3	188.2	211.4
Canada	16.4	18.1	17.9	20.9	24.2	24.9	27.8	26.9	31.0	32.6	36.6
Africa	2.4	7.6	8.7	10.5	12.6	12.6	12.5	13.5	13.0	15.9	31.5
Other Regions	3.2	8.0	8.7	8.0	3.7	2.7	0.5	0.7	1.0	1.9	1.9

Note : See notes to Table 11.10.

Source : Singapore Tourist Promotion Board

11.12 VISITOR ARRIVALS BY REGION AND SELECTED COUNTRY OF EMBARKATION

(By Air, Sea and Land)

Thousand

Region/Country of Embarkation	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	1,506.7	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
South East Asia	863.3	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
ASEAN	862.7	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
North East Asia	226.5	249.0	307.9	366.0	432.9	458.0	452.1	479.0	505.6	535.3	665.9
Hong Kong	106.9	118.1	125.6	153.4	166.9	171.2	178.3	196.5	196.7	206.4	233.0
Japan	99.8	106.3	148.3	173.8	224.4	238.2	218.6	216.8	230.9	243.2	327.5
Taiwan	19.2	22.1	29.1	32.5	34.0	36.8	40.7	46.3	46.9	49.3	61.6
South Asia	47.5	67.8	80.7	88.7	108.3	114.8	132.3	161.2	168.8	216.3	245.2
India	27.1	40.9	45.7	46.0	58.3	59.5	78.2	102.4	126.1	148.5	172.3
Pakistan	4.3	5.4	6.7	8.5	7.4	8.3	8.4	10.8	13.4	18.7	23.2
Sri Lanka	16.0	19.9	25.6	30.6	39.1	44.5	43.1	44.8	25.3	44.3	37.5
West Asia	21.8	27.0	35.4	35.7	38.2	39.1	40.5	48.1	47.9	48.1	48.0
Oceania	159.4	161.9	165.3	194.9	214.9	240.2	235.3	273.1	289.2	315.2	357.2
Australia	129.8	131.3	128.1	153.9	176.6	199.9	192.6	228.3	240.3	265.8	297.7
New Zealand	26.5	27.7	32.5	35.4	31.7	32.5	34.2	36.5	38.8	38.6	48.2
Europe	169.5	179.4	200.8	222.7	230.8	240.3	245.4	272.7	295.5	312.8	345.1
France	13.4	14.1	15.5	15.2	18.6	19.0	19.6	21.6	22.0	22.0	21.7
Germany, Fed Rep	14.6	19.8	24.0	29.7	31.6	24.1	25.7	30.2	30.5	34.7	38.5
Netherlands	na	25.4	28.7	33.3	33.2	32.0	33.4	36.4	40.0	38.7	40.2
Scandinavia	na	6.9	7.9	10.1	11.7	11.7	12.4	13.1	15.0	18.1	20.8
Switzerland	na	7.3	8.0	10.4	14.2	15.3	16.8	19.4	18.5	19.3	22.3
United Kingdom	76.7	78.3	83.5	88.7	87.8	101.9	103.6	113.8	126.5	133.3	143.7
America	12.2	7.0	15.2	25.0	30.0	30.9	33.1	33.1	32.3	36.1	43.8
United States	11.6	6.6	14.6	24.3	29.3	30.1	32.5	32.5	31.1	34.6	42.8
Canada	0.5	0.3	0.2	0.3	0.3	0.3	0.3	0.3	1.0	1.2	0.7
Africa	0.3	0.5	0.9	1.2	1.7	1.5	1.2	1.1	7.1	14.4	27.2
Other Regions	6.2	23.2	18.4	10.8	11.5	11.6	16.9	15.6	15.1	15.7	15.9

Note : See notes to Table 11.10.

Source : Singapore Tourist Promotion Board

11.13 VISITOR ARRIVALS BY PURPOSE OF VISIT

(By Air, Sea and Land)

Number

Year	Total	Holiday	Business	Business & Holiday	Others
1977	1,506,688	992,672	180,175	130,007	203,834
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

Note : See notes to Table 11.10.

Source : Singapore Tourist Promotion Board

**11.14 AVERAGE LENGTH OF STAY OF VISITORS BY PURPOSE OF VISIT AND
TYPE OF ACCOMMODATION, 1978-1987**

Days

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

Source : Singapore Tourist Promotion Board

11.15 VISITOR ARRIVALS, HOTELS AND CESS COLLECTION

Year	Visitor Arrivals	Tourist Hotels ¹				Sales Tax Collected on Food & Drinks
		Number	Number of Rooms Available	Average Occupancy Rate	Cess Collected	
	Thousand	At End Year		Per Cent	Thousand Dollars	
1977	1,506.7	68	10,362	83.3	4,666.6	11,013.1
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	68.8	11,503.4	26,737.0

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

Source : Singapore Tourist Promotion Board
Customs & Excise Department

11.16 RETURNING SINGAPORE RESIDENTS BY REGION AND SELECTED COUNTRY OF EMBARKATION

(By Air and Sea)

Number

Region/Country of Embarkation	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	208,973	230,167	265,283	299,876	330,118	385,728	433,849	481,855	526,016	581,131	723,791
South East Asia	120,762	117,531	139,747	159,673	174,626	201,567	219,382	243,839	263,401	302,552	402,924
ASEAN	120,701	117,449	139,599	159,560	174,505	201,410	219,244	243,691	263,233	302,334	402,734
North East Asia	44,279	44,854	56,921	71,069	81,202	100,079	120,070	136,834	155,227	155,827	176,159
Hong Kong	32,819	32,255	40,177	50,458	55,890	70,663	86,774	99,284	112,441	110,847	121,939
Japan	3,327	3,288	4,765	6,936	9,853	12,614	15,668	16,891	17,898	15,059	16,676
Taiwan	6,603	7,511	9,672	11,174	12,931	14,256	15,155	17,544	16,153	16,148	18,621
South Asia	13,483	14,319	17,913	22,328	23,336	23,600	24,503	25,223	24,463	27,433	26,463
India	11,757	12,314	14,591	16,887	17,102	17,678	19,034	20,452	20,073	22,025	21,442
Pakistan	448	348	463	760	858	716	647	654	1,451	984	947
Sri Lanka	1,278	1,575	2,778	4,557	5,167	4,927	4,627	3,822	2,597	3,878	3,535
West Asia	4,016	4,411	4,502	4,704	4,630	4,932	6,658	6,598	7,154	6,690	7,419
Oceania	8,277	8,253	9,669	13,135	15,289	19,377	24,997	27,133	30,948	42,578	54,151
Australia	7,099	6,807	8,117	11,314	13,376	17,251	22,156	23,605	25,916	34,009	44,451
New Zealand	1,090	1,352	1,360	1,705	1,779	1,977	2,431	3,199	4,584	7,913	9,013
Europe	15,543	16,838	18,656	20,299	20,791	24,182	26,081	30,137	32,900	31,580	37,154
France	940	1,077	1,205	1,366	1,562	1,840	2,328	2,654	2,702	2,474	2,607
Germany, Fed Rep	703	889	1,124	1,444	1,403	1,716	1,642	2,108	2,003	2,460	2,821
Netherlands	na	1,456	1,824	2,105	2,064	2,374	2,512	2,762	2,814	2,760	2,701
Scandinavia	na	487	555	825	896	881	1,154	1,282	1,376	1,332	1,793
Switzerland	na	490	593	777	1,241	1,479	1,777	2,324	1,868	1,688	2,571
United Kingdom	10,443	10,907	11,652	11,889	11,498	13,160	14,023	16,282	19,020	17,445	20,510
America	850	1,114	4,018	6,683	8,659	9,962	10,479	10,454	10,424	12,325	16,163
United States	810	1,046	3,860	6,485	8,428	9,662	10,277	10,178	10,038	11,803	15,614
Canada	32	47	98	186	211	269	188	248	368	498	531
Africa	22	27	76	30	39	52	59	88	472	908	895
Other Regions	1,741	22,820	13,781	1,955	1,546	1,977	1,620	1,549	1,027	1,238	2,463

Note : Figures for 1977 exclude returning residents with Singapore and Malaysian citizenship embarking at ports in Peninsular Malaysia.

From 1978, figures excluded all returning residents embarking at ports in Peninsular Malaysia.

11.17 RETURNING SINGAPORE RESIDENTS BY PURPOSE OF TRAVEL AND LENGTH OF STAY OVERSEAS, 1978-1987

(By Air and Sea)

Number

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
TOTAL	230,167	265,283	299,876	330,118	385,728	433,849	481,855	526,016	581,131	723,791
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
Business & Holiday	63,757	58,068	62,129	71,183	82,376	102,034	125,761	135,558	146,890	158,051
Education	5,578	14,738	18,042	18,947	20,346	15,935	10,089	10,899	10,876	12,263
Employment	14,041	10,857	8,133	8,474	9,129	14,615	21,808	19,142	21,675	23,850
Others	14,345	25,736	39,612	41,808	57,388	60,674	61,191	65,013	68,593	89,673
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
1 - Under 2 Weeks	46,595	56,025	62,107	69,751	85,202	99,495	115,358	124,357	138,641	170,324
2 - Under 4 Weeks	41,041	50,456	58,051	63,393	74,486	83,781	87,994	94,291	95,071	109,027
1 - Under 4 Months	31,329	35,433	40,646	40,353	48,779	53,472	57,794	60,584	61,591	66,515
4 - Under 6 Months	7,375	7,556	7,732	7,659	8,280	7,976	8,933	9,108	9,652	10,823
6 Months & Over	8,950	8,752	8,204	7,491	9,921	13,230	13,508	10,314	12,148	12,711
Not Stated	36,657	35,017	41,136	49,886	48,349	44,828	39,955	38,372	32,700	32,352
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

Source : Singapore Tourist Promotion Board

11.18 PUBLIC ROADS

Kilometres

End of Year	Total Public Roads	Paved Roads					Local Roads Unimproved
		Total	Expressways	Major Arterial Roads	Collector Roads	Local Roads Improved	
1977	2,237	1,851	17	264	140	1,430	386
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

Source : Public Works Department

11.19 MOTOR VEHICLES REGISTERED

Number

End of Year	Total	Motor Cars		Buses	Goods Vehicles	Motor-cycles & Scooters	Others ¹
		Private	Public				
1977	289,954	134,903	7,201	5,442	49,502	89,840	3,066
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

¹ Include hearses, tuition lorries and cranes, exempted lorries and tipper, road rollers, tractors, vans, and vehicles used for specific purposes.

Source : Registry of Vehicles

11.20 ROAD CASUALTIES

Person

Year	Total		Pedestrians		Pedal Cyclists ¹		Motor Cyclists & Passengers		Motor Vehicle Drivers & Passengers		Others	
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
1977	271	10,586	125	2,704	33	940	66	3,448	43	3,399	4	95
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	206	8,056	73	1,149	16	291	86	3,571	30	2,959	1	86

¹ Include trishaw riders and passengers.

Source : Police Department

11.21 POSTAL ARTICLES HANDLED

Thousand

Year	Total	Ordinary Mail			Registered Mail	Parcel Mail	Local Urgent Mail ¹	Express Mail	Speedpost Mail ²
		Domestic	Surface	Air					
1977	367,745	227,438	33,944	92,681	11,702	1,736	15	229	-
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

¹ Local Urgent Mail (LUM) Service was introduced in August 1977.

Source : The Telecommunication Authority of Singapore

² Speedpost Service was introduced in April 1978.

11.22 TELECOMMUNICATIONS

Thousands

Year	Outgoing Telegrams		Outgoing Telex Calls		International Telephone Calls ¹	Total Number of Telephones Installed ²
	Peninsular Malaysia	Other Countries	Peninsular Malaysia	Other Countries		
1977	45	800	244	2,812	1,301	455
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

¹ Figures exclude calls to Peninsular Malaysia.

Source : The Telecommunication Authority of Singapore

² End of Period.

12 FINANCE AND INSURANCE

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, a number of merchant banks have also been given approval to operate ACUs. Data on ACUs are compiled from returns submitted regularly by the ACU operators to the MAS.

Asian Dollar Market

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

Private banks

to develop Singapore into an international financial centre. Singapore has an increasingly important role in the development of a sound financial policy for the development of a sound the status, performance, money and banking and of Government of Canada. The MAS administers the system which includes the responsibility of the local the central bank, not only for the currency, leading to Singapore (MAS) was established in 1971 to ensure that within these functions the Monetary Authority by several government departments and agencies. It was associated with a central banking operation.

under the MAS Act and a separate MAS Act. The MAS is a statutory body established under the MAS Act.

12 FINANCE AND INSURANCE

Central Provident Fund

Please see text on page 48.

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 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, a number of merchant banks have also been given approval to operate ACUs. Data on ACUs are compiled from returns submitted regularly by the ACU operators to the MAS.

Insurance

Insurance business in Singapore comprises life and general insurance. The general insurance business covers a wide range of risks such as fire, marine, motor, personal accident and workmen's compensation. Data on insurance are compiled by the MAS from returns submitted by all insurance companies in Singapore.

Post Office Savings Bank

The Post Office Savings Bank (POSB) of Singapore was incorporated under the Post Office Savings Bank of Singapore Act, 1971. The principal objectives of the Bank are to carry on the general business of a savings bank, to promote savings and encourage thrift and to mobilize domestic savings for the purpose of public development. Its savings are fully guaranteed by the government.

Central Provident Fund

Please see text on page 49.

Definitions

Money Supply : 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 : 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 for its transactions in the Asian Dollar Market.

Official Foreign Reserves : Comprise gold and foreign exchange, Special Drawing Rights and Singapore's reserve position in the IMF.

Special Drawing Rights (SDR) : 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 Deutsche mark, the French Franc, the Japanese Yen and the Pound Sterling.

12.1 CURRENCY IN CIRCULATION

End of Year	Gross Circulation			Active Circulation ¹	Ratio of Active to Gross Circulation
	Total	Notes	Coins		
	Million Dollars				Per Cent
1977	2,431.2	2,297.7	133.5	2,242.6	92.2
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

¹ Refers 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

Million Dollars

End of Period	Money Supply (M3)											
	Total	Net Deposits with Non-bank Financial Institutions¹		Money Supply (M2)								
				Total	Quasi Money				Money Supply (M1)			
		Finance Companies	Post Office Savings Bank		Total	Total	Fixed Deposits	S\$ Negotiable Certificate of Deposits	Savings & Other Deposits	Total	Currency in Active Circulation²	Demand Deposits of Private Sector
(1) [(2)+(3)+(4)]	(2)	(3)	(4) [(5)+(9)]	(5) [(6)+(7)+(8)]	(6)	(7)	(8)	(9) [(10)+(11)]	(10)	(11)		
1977	12,030.5	2,224.2		9,806.3	5,394.2	4,155.8	151.2	1,087.2	4,412.1	2,242.6	2,169.5	
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	

¹ Refers 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 Figures 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

(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	
1977	412.1	872.4	191.7	680.7	163.8	1,486.9	-1,323.1	977.5	-210.9	287.9
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	na	na	na

¹ Refers 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

Million Dollars

End of Year	Total Foreign Reserves	Special Drawing Rights ¹	Reserve Position in the International Monetary Fund	Gold & Foreign Exchange
1977	9,022.9	-	28.3	8,994.6
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

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

Source : The Monetary Authority of Singapore

12.5 EXCHANGE RATES

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
1977	0.9912	2.4394	4.2570	1.0512	0.4965	0.9110	0.5040	6.4195	0.5235	2.7050
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

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

Source : The Monetary Authority of Singapore

12.6 ASSETS OF BANKS

(End of Period)

Million Dollars

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	18,238.0	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
Cash	115.1	154.6	161.1	272.4	222.4	247.9	275.4	291.4	303.5	334.2	328.4
Amounts Due from Banks	3,712.5	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
In Singapore	1,263.6	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
Outside Singapore ¹	2,448.9	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
Balances with The Monetary Authority of Singapore	546.3	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
Money at Call with Discount Houses ²	525.7	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	292.6	198.4	166.2	127.8	89.0	76.9	136.5	133.1	105.0	134.2	135.5
Investments in Securities & Equities	1,911.4	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
In Singapore	1,847.3	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
Outside Singapore	64.1	65.3	51.0	69.2	72.7	123.6	140.4	142.2	192.6	360.4	254.7
Loans & Advances including Bills Financing	10,183.0	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
Bills Discounted or Purchased	2,352.2	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
Payable outside Singapore	1,090.3	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
Payable in Singapore	1,261.9	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
Loans & Advances	7,830.8	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
All Other Assets	951.4	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

¹ Figures include Asian Currency Units.

Source : The Monetary Authority of Singapore

² Discount houses ceased operations in May 1987.

12.7 LIABILITIES OF BANKS

(End of Period)

Million Dollars

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	18,238.0	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
Deposits of Non-bank Customers	8,969.5	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
Demand Deposits	2,513.9	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
Fixed Deposits	5,328.3	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
Savings Deposits	1,069.5	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
Other Deposits	57.8	57.1	66.3	70.1	83.4	90.2	103.3	108.0	120.7	154.0	244.5
S\$ Negotiable Certificates of Deposit Issued	513.4	455.3	515.0	331.9	404.5	428.0	471.6	300.7	263.6	696.4	896.8
Amounts Due to Banks	5,044.2	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
In Singapore	1,271.7	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
Outside Singapore ¹	3,772.5	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
All Other Liabilities	3,710.9	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

¹ Figures include Asian Currency Units.

Source : The Monetary Authority of Singapore

12.8 BANKS' LOANS AND ADVANCES TO NON-BANK CUSTOMERS BY INDUSTRY

(End of Period)

Million Dollars

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total Loans and Advances including Bills Financing	10,183.0	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
Agriculture, Mining & Quarrying	63.4	66.6	79.7	83.6	144.2	151.2	132.0	155.0	147.4	101.5	111.2
Manufacturing	2,557.6	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
Building & Construction ¹	1,243.5	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
General Commerce	4,085.1	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
Transport, Storage & Communications	342.2	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
Financial Institutions	831.9	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
Professional & Private Individuals	621.5	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
Others	437.8	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

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 Data include building and building co-operative societies, building developers, real estate agents and housing loans.

12.9 ASSETS AND LIABILITIES OF ASIAN CURRENCY UNITS

(End of Period)

Million US Dollars

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total Assets	21,018.3	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
Loans to Non-bank Customers	5,281.2	6,376.8	8,483.9	12,402.3	19,452.3	27,606.3	30,384.6	33,766.1	37,440.3	38,741.8	55,010.8
Inter-bank Funds	15,252.5	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
In Singapore	573.4	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
Inter-Asian Currency Units	3,080.4	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
Outside Singapore	11,598.7	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
Other Assets	484.6	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
Total Liabilities	21,018.3	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
Deposits of Non-bank Customers	2,254.6	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
Inter-bank Funds	18,350.3	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	192,485.5
In Singapore	1,382.8	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
Inter-Asian Currency Units	3,080.4	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
Outside Singapore	13,887.1	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
Other Liabilities	413.4	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

Source : The Monetary Authority of Singapore

12.10 ASSETS AND LIABILITIES OF FINANCE COMPANIES

(End of Period)

Million Dollars

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total Assets	1,761.2	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
Cash	2.2	2.5	3.2	4.5	5.0	6.8	8.5	8.3	10.3	9.0	10.8
Balances with The Monetary Authority of Singapore	76.2	86.6	105.7	126.0	170.9	217.2	267.5	313.9	288.4	286.7	271.1
Deposits with Banks & Other Institutions	366.0	373.8	368.7	405.0	707.2	751.6	678.7	862.9	1,002.6	1,520.4	1,592.4
Investments	71.3	95.2	111.3	100.5	114.6	120.4	139.8	165.2	151.7	153.2	455.8
Loans & Advances	1,176.9	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
Hire Purchase Finance	258.6	354.3	532.3	754.3	891.7	887.1	904.3	833.2	583.7	420.8	563.0
Housing Loans	431.4	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
Other Loans & Advances	486.9	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
Other Assets	68.6	62.1	56.0	72.0	90.1	131.7	152.0	162.0	169.1	235.4	216.1
Total Liabilities	1,761.2	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
Capital & Reserves	286.1	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
Deposits from Individuals & Institutions	1,305.4	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
Savings Deposits	50.6	55.5	62.8	65.2	75.9	112.3	171.8	209.2	278.8	332.4	325.9
Fixed Deposits	1,221.5	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
Other Deposits	33.3	35.3	58.4	94.4	137.9	294.5	412.7	413.6	428.5	315.9	427.3
Other Liabilities	169.7	199.2	297.3	477.8	661.1	830.2	917.0	844.8	789.9	910.8	1,166.7

Source : The Monetary Authority of Singapore

12.11 FINANCE COMPANIES' LOANS AND ADVANCES BY INDUSTRY

(End of Period)

Million Dollars

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	448.7	528.6	634.8	824.3	1,310.7	1,763.4	2,431.8	2,741.2	2,699.7	2,449.9	2,660.2
Agriculture, Mining & Quarrying	-	-	-	-	-	-	0.6	0.9	1.1	0.9	0.8
Manufacturing	13.8	20.9	29.5	92.6	164.6	167.7	228.7	217.6	223.9	231.1	289.0
Building & Construction	150.7	123.8	148.8	118.9	174.1	451.4	790.8	923.7	898.3	810.1	811.7
General Commerce	81.5	123.0	166.4	190.1	217.1	260.3	274.0	269.6	286.6	276.8	399.7
Transport, Storage & Communications	64.4	52.6	38.3	45.9	74.7	94.1	91.8	82.6	58.2	44.1	39.2
Financial Institutions	-	-	-	-	-	197.4	231.5	377.7	330.4	262.4	230.0
Professional & Private Individuals	94.0	134.4	163.5	230.3	390.5	458.6	622.4	682.4	715.2	648.4	646.5
Others	44.3	73.9	88.3	146.5	289.7	133.9	192.0	186.7	186.0	176.1	243.3

Source : The Monetary Authority of Singapore

12.12 ASSETS AND LIABILITIES OF MERCHANT BANKS, 1978-1987

(End of Period)

Million Dollars

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
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	32,148.2
Amounts Due from Banks	1,826.7	4,599.8	5,713.7	9,442.4	9,317.4	9,399.7	9,303.9	9,768.7	11,084.6	12,067.2
In Singapore	41.0	42.8	61.8	201.3	260.4	218.5	189.4	332.1	370.7	472.6
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
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
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
Other Assets	48.0	144.7	301.8	529.2	574.2	518.5	773.6	727.7	857.9	1,305.2
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	32,148.2
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
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
In Singapore	195.2	839.8	178.1	347.8	317.1	581.5	750.2	709.3	483.6	678.4
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
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
Other Liabilities	71.3	172.4	462.8	475.1	611.6	569.4	839.3	811.0	1,179.9	1,890.2

Note : Data include operations of Asian Currency Units of merchant banks.
Provision of corporate financial advisory services, underwriting
and operations in the gold market are not reflected in the data.

Source : The Monetary Authority of Singapore

¹ Includes Asian Currency Units.

12.13 ASSETS AND LIABILITIES OF DISCOUNT HOUSES, 1976-1986

(End of Period)

Million Dollars

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total Assets	552.7	618.5	684.7	763.6	949.5	1,603.8	2,050.5	2,248.2	2,562.7	2,468.8	2,466.3
Treasury Bills	306.6	315.5	346.8	439.4	647.5	1,061.8	1,263.7	1,283.3	1,553.5	1,145.3	1,441.9
Other Government Securities	79.5	120.7	134.7	84.5	16.3	52.0	97.2	187.6	241.8	504.1	210.1
Bills Discounted Payable in Singapore ¹	92.5	117.7	147.3	158.5	230.0	375.0	493.9	540.5	594.0	587.7	556.9
S\$ Negotiable Certificates of Deposit	68.8	62.0	53.6	69.3	53.7	99.2	119.4	128.0	132.0	132.0	170.7
Other Assets	5.3	2.6	2.3	11.9	2.0	15.8	76.3	108.8	41.4	99.7	86.7
Total Liabilities	552.7	618.5	684.7	763.6	949.5	1,603.8	2,050.5	2,248.2	2,562.7	2,468.8	2,466.3
Capital & Reserves	21.9	25.1	26.0	27.4	28.6	42.3	59.1	74.9	84.1	95.6	97.4
Deposits	519.8	581.2	643.4	718.0	889.3	1,508.5	1,933.7	2,109.6	2,396.1	2,298.7	2,321.4
Other Liabilities	11.0	12.2	15.3	18.2	31.6	53.0	57.7	63.7	82.5	74.5	47.4

Note : Discount houses ceased operations with effect from May 1987.

This table will be discontinued in subsequent issues.

Source : The Monetary Authority of Singapore

1 Includes bills refinanced for banks.

12.14 DOMESTIC INTEREST RATES

(End of Period)

Per Cent Per Annum

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Banks¹											
Prime Lending Rate	7.02	7.65	9.48	13.60	11.83	9.33	8.98	9.40	7.20	6.10	6.10
Deposit Rates											
3 Months	4.54	5.29	7.15	11.22	7.43	6.16	6.53	6.00	4.58	2.88	2.90
6 Months	4.98	5.55	7.40	10.92	8.40	6.55	6.55	6.35	4.70	3.03	3.11
12 Months	5.53	6.01	7.65	10.55	8.95	7.08	6.75	6.80	4.88	3.30	3.56
Savings	3.68	4.20	6.38	9.52	7.90	6.43	6.30	6.53	5.18	3.08	3.03
Finance Companies											
Deposit Rates ²											
Up to 3 Months	5.30	6.40	8.10	12.20	12.40 ³	6.60	6.90	6.48	4.88	3.19	3.20
12 Months	6.50	6.80	7.60	9.90	11.50 ³	7.58	7.38	7.18	5.30	3.60	3.98
POSB Savings Deposit Rate for Amounts											
Up to \$100,000	5.00	5.25	6.00	8.50	9.50	7.00	6.50	6.75	5.25	3.25	3.25
Exceeding \$100,000	5.00	3.50	4.25	6.00	7.00	5.50	5.50	5.75	4.00	2.25	2.25

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

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

3 As at end of September.

Source : The Monetary Authority of Singapore
Post Office Savings Bank

12.15 DEPOSITS AND WITHDRAWALS OF POST OFFICE SAVINGS BANK

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Number of Savings Accounts (End of Period)	1,343,904	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
Amount (\$ Million)											
Deposited	1,535.7	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
Withdrawn	1,005.3	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
Due to Account Holders (End of Period)	1,589.0	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

Source : Post Office Savings Bank

12.16 CONTRIBUTIONS AND WITHDRAWALS OF CENTRAL PROVIDENT FUND

Million Dollars

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
Amount											
Contributed	1,114.7	1,352.0	1,753.1	2,296.0	3,007.2	3,901.4	4,491.2	5,385.2	5,993.4	4,777.8	4,446.8
Withdrawn	503.5	657.8	629.3	779.1	1,067.6	1,241.2	1,717.9	3,509.3	3,359.7	3,823.8	4,297.3
Due to Members (End of Period)	4,954.0	5,981.4	7,515.5	9,551.2	12,149.8	15,655.5	19,504.7	22,670.4	26,829.5	29,341.4	30,607.8

Source : Central Provident Fund Board

12.17 WITHDRAWALS OF CENTRAL PROVIDENT FUND BY TYPE

Year	Total	Approved Housing Schemes				Reached 55 Years of Age		Leaving Singapore & Malaysia Permanently¹		Death		Medisave Scheme	Others²
		Public Housing		Approved Residential Properties									
	\$ Million	No.	\$ Million	No.	\$ Million	No.	\$ Million	No.	\$ Million	No.	\$ Million		
1977	503.5	48,765	383.5	-	-	11,745	89.9	1,379	14.1	2,147	12.6	-	3.4
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*	4,297.3	45,111	1,408.4	12,287	1,239.1	27,627	548.0	6,054	143.9	3,573	48.6	140.5	768.8

¹ Includes Malaysians leaving Singapore permanently.

Source : Central Provident Fund Board

² Includes 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.

12.18 TURNOVER OF STOCKS AND SHARES

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
1977	643.8	1,161.6	475.5	796.9	46.6	170.6	19.5	32.5	51.8	75.6	2.9	11.7	43.9	70.3	3.6	4.0
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

Source : Stock Exchange of Singapore

12.19 STOCK EXCHANGE OF SINGAPORE INDICES

(1975 = 100)

Year	Industrial	Finance	Hotels	Properties	Mining	Plantation
1977	110.2	106.0	96.6	116.0	139.7	138.5
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

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

Source : Stock Exchange of Singapore

12.20 PLEDGES AT PAWNSHOPS

Year	Pledges		Amount of Loans	
	Received	Redeemed	Given Out	Redeemed including Interest
	Number		Million Dollars	
1977	1,992,950	1,875,631	213.0	216.2
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

12.21 LIFE INSURANCE POLICIES, 1977-1986

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
	Number									
Policies in Force (End of Period)	183,099	214,316	246,657	248,077	271,214	314,375	359,902	379,880	405,452	463,139
New Policies	45,303	50,632	61,707	59,174	49,539	70,374	78,212	57,013	63,712	92,819
Policies Matured or Discontinued	17,929	19,415	29,366	25,245	26,409	27,213	32,685	37,193	38,140	35,132
	Million Dollars									
Policies in Force										
Amount Insured (End of Period)	3,323.4	4,081.9	5,162.2	6,334.8	7,778.4	10,721.0	13,810.3	16,421.6	19,466.9	23,439.8
Premiums	99.6	117.4	143.2	170.0	198.0	250.4	305.3	332.5	363.5	424.3
New Policies										
Amount Insured	922.9	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
Premiums	24.3	29.1	36.7	40.1	43.5	70.3	79.0	60.6	67.6	97.7
Policies Matured or Discontinued										
Amount Insured	318.1	366.4	374.1	491.9	450.9	360.2	1,111.9	1,381.6	1,741.1	2,097.3
Premiums	9.9	10.2	10.9	14.2	15.5	17.9	28.0	33.5	36.6	36.8

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

Source : The Monetary Authority of Singapore

**12.22 REVENUE AND EXPENDITURE ACCOUNTS OF LIFE INSURANCE FUNDS,
1977-1986**

Million Dollar

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total Revenue	469.3	552.2	639.3	771.6	933.2	1,116.3	1,314.4	1,528.4	1,759.3	2,068.5
Balance of Revenue Account at Beginning of Year	336.4	394.2	461.0	537.1	649.2	776.6	926.9	1,087.7	1,282.6	1,462.9
Premiums	96.9	113.7	139.7	164.0	191.8	237.0	282.5	299.0	341.4	398.3
Net Interest, Dividends & Rents	28.6	32.9	36.6	47.1	61.3	69.8	79.2	91.3	101.8	109.9
Miscellaneous	7.4	11.4	2.0	23.4	30.9	32.9	25.8	50.4	33.5	97.4
Total Expenditure	469.3	552.2	639.3	771.6	933.2	1,116.3	1,314.4	1,528.4	1,759.3	2,068.5
Claims on Death, Disability & Maturity	18.5	20.9	23.2	28.4	36.9	41.4	50.0	57.3	71.0	85.5
Surrenders	10.5	12.3	13.2	15.9	20.0	23.0	26.3	33.2	49.9	64.3
Cash Bonuses & Annuities	3.1	3.5	4.4	7.7	6.0	4.8	5.7	5.0	6.0	7.0
Management Expenses										
Commission	21.3	25.2	31.7	36.0	40.6	64.8	72.4	59.2	63.9	92.4
Salaries	4.9	5.7	6.6	7.9	8.9	11.9	12.8	15.5	18.9	18.7
Others	10.7	14.1	15.9	23.8	34.7	24.2	28.3	29.2	31.7	26.2
Miscellaneous	6.1	9.5	7.3	2.7	9.5	19.2	20.4	46.4	55.0	53.7
Balance of Revenue Account at End of Year	394.2	461.0	537.0	649.2	776.6	927.0	1,098.5	1,282.6	1,462.9	1,720.7

Source : The Monetary Authority of Singapore

12.23 ASSETS OF LIFE INSURANCE FUNDS, 1977-1986

(End of Period)

Million Dollars

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	445.4	505.0	585.1	705.1	834.7	998.8	1,196.5	1,384.0	1,576.3	1,851.5
Land & Buildings	29.5	32.0	31.8	35.4	37.7	52.5	57.7	54.2	51.9	59.6
Loans	57.4	69.2	105.5	124.5	186.9	205.9	232.3	268.9	314.2	442.9
On Mortgages	22.6	22.2	42.0	48.7	93.1	100.6	108.4	110.7	127.3	240.1
On Policies	34.1	40.7	48.2	59.3	76.6	87.0	99.1	123.4	153.6	178.9
Others	0.7	6.3	15.3	16.5	17.2	18.3	24.8	34.8	33.3	23.9
Investments	273.1	308.9	339.0	378.2	424.2	513.0	620.0	701.7	741.6	935.1
Government & Statutory Authorities	129.9	149.5	170.8	180.0	198.2	236.1	283.1	354.7	380.0	458.3
Debentures & Shares ¹	143.2	159.4	168.2	198.2	226.0	276.9	336.9	347.0	361.6	476.8
Cash & Deposits	58.3	66.5	75.7	108.9	154.9	180.5	234.8	305.7	403.5	354.5
Miscellaneous (including Outstanding Premiums) ²	27.1	28.4	33.1	58.1	31.0	46.9	51.7	53.5	65.1	59.4

1 Includes other investments.

2 Includes furniture.

Source : The Monetary Authority of Singapore

12.24 PREMIUMS AND CLAIMS OF GENERAL INSURANCE FUNDS, 1977-1986

Million Dollars

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total Net Premiums¹	209.8	236.9	274.5	340.7	397.7	431.0	441.0	440.9	433.6	421.4
Marine, Aviation or Transit	47.3	52.1	58.1	70.7	74.2	70.5	70.7	68.0	65.9	62.9
Others	162.5	184.8	216.4	270.0	323.5	360.5	370.3	372.9	367.7	358.5
Fire	37.5	40.7	45.4	51.2	61.2	68.1	69.7	71.3	76.4	72.1
Motor Vehicles	48.4	59.7	74.0	102.6	117.4	135.5	147.4	158.9	152.1	148.2
Miscellaneous	76.6	84.4	97.0	116.2	144.9	156.9	153.2	142.7	139.2	138.2
Total Net Claims²	87.5	94.2	113.9	141.6	146.7	165.6	186.7	195.4	220.6	230.2
Marine, Aviation or Transit	22.1	25.4	30.3	35.7	35.7	38.6	36.1	27.5	27.9	25.7
Others	65.4	68.8	83.6	105.9	111.0	127.0	150.6	167.9	192.7	204.5
Fire	14.6	11.8	20.0	29.4	18.8	17.1	21.7	20.4	20.9	30.1
Motor Vehicles	26.5	29.4	36.1	45.7	52.6	58.9	71.1	87.2	99.2	99.8
Miscellaneous	24.3	27.6	27.5	30.8	39.6	51.0	57.8	60.3	72.6	74.6

Source : The Monetary Authority of Singapore

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

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

**12.25 REVENUE AND EXPENDITURE ACCOUNTS OF GENERAL INSURANCE FUNDS,
1977-1986**

Million Dollars

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total Revenue	481.7	527.3	603.7	742.8	896.7	958.0	1,077.5	1,126.4	1,166.7	1,236.5
Balance of Revenue Account at Beginning of Year	36.8	31.1	34.7	31.0	39.5	74.1	88.4	93.0	69.6	95.7
Reserves at Beginning of Year	87.9	92.6	101.6	119.9	146.7	178.3	197.6	205.3	207.5	199.9
Provision for Outstanding Claims	90.4	98.7	119.8	149.7	178.2	217.1	265.0	305.2	369.5	420.5
Premiums	209.8	236.9	274.5	340.7	397.7	431.0	441.0	440.9	433.6	421.4
Net Interest, Dividends & Rents	13.6	14.8	20.9	26.8	40.4	46.9	49.6	55.3	54.0	47.4
Miscellaneous	43.2	53.2	52.2	74.7	94.2	10.6	35.9	26.7	32.5	51.6
Total Expenditure	481.7	527.3	603.7	742.8	896.7	958.0	1,077.5	1,126.4	1,166.7	1,236.5
Claims Paid, Admitted or Intimated	188.3	215.4	263.6	317.5	366.0	429.8	489.7	567.1	637.6	677.0
Management Expenses										
Commission	55.1	62.2	71.5	85.5	91.3	76.4	72.5	68.2	71.7	69.4
Others	53.8	53.3	57.2	71.6	88.1	87.6	98.1	102.9	102.3	110.3
Miscellaneous	59.8	59.5	59.7	81.6	97.3	76.8	110.8	109.5	57.9	58.1
Balance of Revenue Account at End of Year	30.7	33.7	31.0	39.9	75.4	90.1	101.3	70.1	97.3	125.3
Reserves at End of Year	94.0	103.2	120.7	146.7	178.6	197.3	205.1	208.6	199.9	196.4

Source : The Monetary Authority of Singapore

12.26 ASSETS OF GENERAL INSURANCE FUNDS, 1977-1986

(End of Period)

Million Dollars

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	325.1	392.1	437.8	527.8	684.4	797.7	873.3	907.1	943.3	985.3
Land & Buildings	33.2	31.8	31.4	35.5	42.8	42.6	42.9	40.7	39.6	35.5
Loans	5.8	3.7	5.1	5.2	5.3	7.6	11.4	12.1	12.5	13.5
Investments	122.6	145.1	159.9	188.6	229.6	256.4	290.7	302.4	305.2	369.4
Government & Statutory Authorities	65.8	75.6	82.5	89.5	108.6	128.5	147.6	166.5	172.2	186.5
Debentures & Shares	56.8	69.5	77.4	99.1	121.0	127.9	143.1	135.9	133.0	182.9
Cash & Deposits	106.5	147.4	162.9	207.5	294.6	361.9	394.3	412.7	443.8	429.7
Miscellaneous	57.0	64.1	78.5	91.0	112.1	129.2	134.0	139.2	142.2	137.2

Source : The Monetary Authority of Singapore

Consolidated Revenue Account and current account is paid out of the account.

Government revenue is credited to the

Switzerland, Taiwan, Thailand, and the United Kingdom of China, the Philippines, Sri Lanka, Sweden, and, New Zealand, Norway, the People's Republic of Japan, Republic of Korea, Malaysia, the Islamic Republic of Indonesia, Viet Nam, Israel, Italy, Belgium, Canada, Denmark, Finland, France, the

with 28 countries, namely, Australia, Bangladesh, in Singapore. The resident companies in these six countries which have trading and other interests in Singapore. The Government has entered into double taxation agreements with countries which have trading and other interests in Singapore. The Government has entered into double taxation agreements with countries which have trading and other interests in Singapore. The Government has entered into double taxation agreements with countries which have trading and other interests in Singapore.

Company taxes are based on a flat rate of 22 per cent of income with first year allowances from the Year of Assessment 1987. In addition, special tax exemptions and liberal depreciation allowances are provided to pioneer companies and companies which are established in the Government has entered into double taxation agreements with countries which have trading and other interests in Singapore. The Government has entered into double taxation agreements with countries which have trading and other interests in Singapore.

13 PUBLIC FINANCE

Personal income tax in Singapore is based on a progressive scale applied to the previous year's chargeable income after the aggregate deductions have been made. Deductions include allowances for personal relief, earned income, maintenance of wife, children and dependants, life insurance premiums, contributions to Central Provident Fund (CPF) and approved pension schemes, charitable contributions and cash used to top up an individual's life savings retirement account under the CPF Minimum Sum

The main revenue collecting departments are the Customs and Excise Department and the Inland Revenue Department. The former is responsible for the collection of import and excise duties on liquor, tobacco, petroleum, motor vehicles, and film and entertainment duties. The Inland Revenue Department (IRD) is responsible for the operation of taxes on income and property, estate and stamp duties, duties on companies and salaries. The IRD is responsible for the collection of tax duty, levy on the ready and correctly assessed, and that all such duties are promptly paid.

The main revenue collecting departments are the Customs and Excise Department and the Inland Revenue Department. The former is responsible for the collection of import and excise duties on liquor, tobacco, petroleum, motor vehicles, and film and entertainment duties. The Inland Revenue Department (IRD) is responsible for the operation of taxes on income and property, estate and stamp duties, duties on companies and salaries. The IRD is responsible for the collection of tax duty, levy on the ready and correctly assessed, and that all such duties are promptly paid.

Government Revenue and Expenditure

The main revenue collecting departments are the Customs and Excise Department and the Inland Revenue Department. 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 Inland Revenue Department (IRD) is responsible for the collection of taxes on income and property, estate and stamp duties and duties on sweepstakes and lotteries. The IRD 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. Deductions include allowances for personal relief, earned income, maintenance of wife, children and dependants, life insurance premiums, contributions to Central Provident Fund (CPF) and approved pension schemes, compulsory course fees and cash used to top up an individual or his parents retirement account under the CPF Minimum Sum

Scheme. A special five-year rebate is also given for new born third 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 was established in 1960. Receipts from revenue allocated for development, loans and grants, and other sources available for

development financing are credited to this account. All payments for development expenditure by the government and of loans to statutory authorities to finance part of their development needs are paid out of this fund.

13.1 ECONOMIC CLASSIFICATION OF GOVERNMENT REVENUE

Million Dollars

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
TOTAL¹	3,320.0	3,595.6	4,125.7	5,239.1	6,607.4	7,931.8	9,510.9	9,859.2	9,181.0	8,473.0	9,018.4
Tax	2,624.8	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
Taxes on Income	1,275.9	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
Excise Duties	191.9	204.0	216.6	243.4	266.9	281.6	345.9	478.8	517.2	453.7	486.2
Import Duties	304.1	340.2	369.7	426.8	427.9	481.5	511.0	514.1	468.1	393.6	453.5
Property Tax	351.3	385.6	491.0	531.2	640.4	806.4	943.6	1,209.6	1,152.7	763.8	686.2
Motor Vehicle Taxes ²	220.7	300.9	354.5	487.3	525.5	613.2	672.1	699.1	682.1	522.6	634.6
Stamp Duty	60.1	79.9	105.8	163.2	280.3	250.6	315.4	282.0	312.6	412.2	412.2
Estate Duty	23.1	27.9	35.7	24.8	50.8	43.2	61.1	49.2	32.8	26.0	25.8
Foreign Workers Levy	-	-	-	-	-	-	208.0	221.8	204.5	153.0	137.6
Others	197.7	219.1	249.8	312.2	387.9	457.0	500.1	568.1	397.7	231.4	332.7
Non-tax	695.2	755.0	904.5	1,151.8	1,393.4	1,750.3	2,430.4	2,268.2	2,406.6	3,285.0	3,493.0
Sales of Goods & Services	407.7	455.5	499.8	618.7	919.5	1,018.7	1,023.5	981.9	864.7	807.7	804.0
Investment Income	138.9	208.8	282.6	368.6	386.0	716.2	1,006.3	1,005.7	1,172.9	1,367.9	1,874.2
Financial Claims & Other Receipts	148.6	90.7	122.1	164.5	87.9	15.4	400.6	280.6	369.0	1,109.4	814.8

1 Government revenue refers to receipts other than capital receipts credited to the Consolidated Revenue Accounts.

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.

13.2 FUNCTIONAL CLASSIFICATION OF GOVERNMENT RECURRENT EXPENDITURE

Million Dollars

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987*
Total¹	2,382.2	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
General Services	111.6	130.9	137.1	211.5	181.9	258.6	316.5	330.2	350.3	276.1	316.8
Defence, Justice & Police	881.7	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
Social & Community Services	714.5	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
Education	354.6	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
Health	154.8	171.2	193.1	223.0	257.3	313.3	342.0	376.3	419.1	400.7	397.4
Environment	81.9	85.0	98.7	120.1	132.8	158.8	164.3	177.5	188.4	169.5	159.2
Housing	46.0	130.5	58.9	32.9	41.0	-	66.5	137.8	46.5	-	-
Others	77.2	81.1	89.9	89.4	85.0	103.5	117.0	137.9	144.9	140.0	135.5
Economic Services	148.5	174.6	192.7	228.1	288.0	383.9	346.5	300.1	249.5	230.4	240.4
Public Debt	437.1	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
Pensions	88.8	51.4	73.7	74.0	59.1	79.4	89.2	100.4	141.8	160.6	169.

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

Source : Ministry of Finan

13.3 SOURCES AND USES OF DEVELOPMENT FUND

Million Dollars

Financial Year	Balance (Beginning of Financial Year)	Sources				Uses			
		Total	Consolidated Revenue Account	Consolidated Loan Account	Others	Total	Government Development Expenditure	Loans to Statutory Boards & Enterprises	Others
1977/78	4,432.9	3,329.1	556.4	1,694.5	1,078.2	1,890.0	710.0	1,180.0	-
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 ¹	10,294.5	41,076.8	1,543.8	30,546.5	8,986.5	12,738.2	7,025.0	5,713.2	-

¹ Based on Budget estimates.

Source : Accountant-General's Department

13.4 GOVERNMENT DEBT

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
1977	9,130.2	8,143.1	6,851.4	115.0	827.6	349.1	987.1	270.1	79.6	14.8	528.6	94.0
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

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

Million Dollars

Year	Total	Import & Excise Duties					Entertainment Duties	Film Hire Duty	Licence Fees	Miscellaneous Receipts
		Liquors	Tobacco	Petroleum	Motor Vehicles	Others				
1977	535.4	114.0	123.7	133.9	57.8	67.2	25.2	3.8	4.4	5.4
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

Source : Customs & Excise Department

13.6 REVENUE COLLECTED BY INLAND REVENUE DEPARTMENT

Million Dollars

Year	Total	Income Tax ¹	Property Tax ²	Estate Duties	Stamp Duties	Payroll Tax ³	Bets, Sweepstakes & Private Lotteries ⁴	Radio & Television Licensing Fees ⁵	Skills Development Levy ⁶	Others
1977	1,819.8	1,281.5	349.7	23.7	60.5	65.8	25.5	12.9	-	0.2
1978	1,899.5	1,279.9	388.4	28.0	80.4	75.0	32.4	15.4	-	-
1979	2,176.2	1,390.9	491.4	36.5	106.3	89.5	36.7	16.9	7.7	0.3
1980	2,868.9	1,916.0	531.1	23.6	165.7	107.5	42.5	1.8	80.3	0.4
1981	3,920.1	2,629.4	648.3	47.6	279.3	133.9	68.2	na	112.9	0.5
1982	4,714.5	3,251.2	807.5	43.2	251.8	161.3	86.4	na	112.6	0.5
1983	5,249.1	3,527.4	948.8	61.2	314.2	181.7	102.8	na	112.4	0.6
1984	5,546.0	3,568.7	1,204.1	49.0	280.7	203.8	130.1	na	109.1	0.5
1985	4,829.3	3,000.0	1,195.4	32.6	314.2	80.5	140.0	na	66.2	0.4
1986	3,617.7	2,235.2	718.3	26.3	413.0	0.9	191.8	na	30.9	1.3
1987	3,759.5	2,338.9	677.4	25.7	411.3	0.5	282.0	na	22.4	1.3

1 Figures include compounding fees.

2 Figures include compounding fees and surcharges on property taxes.

3 Suspended with effect from April 1985.

4 Includes duty on Toto sales on account of withdrawal of exemption with effect from 1 October 1983.

5 Collected by the Singapore Broadcasting Corporation with effect from 1 February 1980.

6 Figures refer to amount credited to the Skills Development Fund. The levy was reduced from 2 per cent to 1 per cent with effect from April 1986.

Source : Inland Revenue Department

13.7 TAXPAYERS, ASSESSED INCOME AND TAX ASSESSED, 1985 AND 1986

	Taxpayers			Assessed Income			Tax Assessed			
	Total	Resident	Non-resident	Total	Resident	Non-resident	Total	Resident	Non-resident	
	Number			Million Dollars						
	1985									
	Total	612,201	596,000	16,201	17,648.3	17,241.1	407.2	3,098.8	3,004.9	93.9
	Individuals	601,784	585,848	15,936	12,271.1	12,159.2	111.9	1,053.9	1,029.8	24.1
	Employees	495,705	481,379	14,326	9,893.2	9,806.5	86.7	782.0	764.7	17.3
	Sole Proprietors	75,956	74,568	1,388	1,455.6	1,438.5	17.1	144.7	141.1	3.6
	Partners	30,123	29,901	222	922.3	914.2	8.1	127.2	124.0	3.2
	Companies	9,508	9,246	262	5,319.7	5,024.4	295.3	2,015.7	1,945.9	69.8
	Trusts ¹	667	664	3	10.8	10.8	-	4.3	4.3	-
	Clubs & Associations	242	242	-	46.7	46.7	-	24.9	24.9	-
	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	-	

Note : Figures for 1985 refer to assessments made during the period 1.1.85 to 31.12.85 (12 months).

Figures for 1986 refer to assessments made during the period 1.1.86 to 31.12.86 (12 months).

Source : Inland Revenue Department

1 Includes Hindu Joint Families.

13.8 ASSESSED INCOME AND TAX ASSESSED ON INDIVIDUALS BY ASSESSED INCOME GROUP, 1985 AND 1986

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	1985								
	601,784	585,848	15,936	12,271.1	12,159.2	111.9	1,053.9	1,029.7	24.2
	59,416	47,776	11,640	266.0	237.8	28.2	7.0	2.3	4.7
	75,986	74,715	1,271	537.1	528.3	8.8	8.1	6.6	1.5
	75,518	74,910	608	678.6	673.2	5.4	11.6	10.6	1.0
	142,536	141,683	853	1,753.7	1,743.2	10.5	39.7	37.7	2.0
	79,522	79,095	427	1,371.4	1,364.0	7.4	45.0	43.5	1.5
	75,146	74,671	475	1,823.2	1,811.6	11.6	89.0	86.5	2.5
	55,181	54,764	417	2,089.3	2,073.1	16.2	157.5	154.1	3.4
	28,173	27,977	196	1,906.1	1,893.4	12.7	246.9	243.3	3.6
	8,147	8,114	33	1,086.4	1,081.9	4.5	223.7	222.1	1.6
	2,159	2,143	16	759.3	752.7	6.6	225.4	223.0	2.4
	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

Note : See note to Table 13.7.

Source : Inland Revenue Department

13.9 INCOME TAX ASSESSED ON COMPANIES BY ASSESSED INCOME GROUP, 1985 AND 1986

Assessed Income Group (\$)	Taxpayers			Assessed Income			Tax Assessed		
	Total	Resident	Non-resident	Total	Resident	Non-resident	Total	Resident	Non-resident
	Number			Million Dollars					
Total 10,000 & Below 10,001 - 20,000 20,001 - 30,000 30,001 - 50,000 50,001 - 100,000 100,001 - 300,000 300,001 - 500,000 500,001 - 1,000,000 Over 1,000,000	1985								
	9,508	9,246	262	5,319.7	5,024.4	295.3	2,015.7	1,945.9	69.8
	2,195	2,146	49	10.1	9.9	0.2	4.0	3.9	0.1
	1,033	999	34	16.0	15.5	0.5	6.4	6.2	0.2
	795	779	16	20.8	20.4	0.4	8.4	8.2	0.2
	1,097	1,058	39	44.7	43.2	1.5	17.9	17.3	0.6
	1,300	1,274	26	96.5	94.6	1.9	38.6	37.8	0.8
	1,442	1,416	26	257.3	252.4	4.9	102.8	100.9	1.9
	441	422	19	173.0	165.7	7.3	69.3	66.5	2.8
	439	426	13	322.0	312.9	9.1	127.9	124.7	3.2
	766	726	40	4,379.3	4,109.8	269.5	1,640.4	1,580.4	60.0
	1986								
	8,826	8,552	274	3,942.2	3,616.0	326.2	1,483.6	1,411.7	71.9
Total 10,000 & Below 10,001 - 20,000 20,001 - 30,000 30,001 - 50,000 50,001 - 100,000 100,001 - 300,000 300,001 - 500,000 500,001 - 1,000,000 Over 1,000,000	2,642	2,571	71	10.6	10.3	0.3	4.3	4.2	0.1
	1,044	1,012	32	15.8	15.3	0.5	6.3	6.1	0.2
	699	679	20	17.9	17.4	0.5	7.1	6.9	0.2
	897	874	23	36.2	35.3	0.9	14.5	14.1	0.4
	1,053	1,020	33	78.3	75.8	2.5	31.3	30.3	1.0
	1,200	1,160	40	210.7	203.9	6.8	84.2	81.5	2.7
	362	354	8	145.0	141.9	3.1	58.0	56.7	1.3
	353	339	14	254.1	244.1	10.0	100.7	96.9	3.8
	576	543	33	3,173.6	2,872.0	301.6	1,177.2	1,115.0	62.2

Note : See note to Table 13.7.

Source : Inland Revenue Department

Consumer Price Index

The Consumer Price Index (June 1983 = 100) 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 income of 4573 households with monthly expenditure of \$100-\$1,999 were used as the weighting pattern. These households constituted 91 per cent of all households surveyed. The index is computed monthly. The yearly index is a simple average of twelve monthly indices.

Retail Prices

Retail prices of selected goods are collected regularly from markets, supermarkets, provision shops, semi-minimart and other retail outlets spread over the entire island. Prices are collected twice weekly for perishable food items such as fish, vegetables, meat and poultry, and weekly for sundries and provisions. Clothing materials, furniture, consumer

14 PRICES

Other Price Indices

These price indices consist of the Consumer 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 c.i.f. (cost, insurance and freight) for exported products, they refer to f.o.b. (free on board) prices, and for locally manufactured products, they are ex-factory prices. The list of items and weighting pattern 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,

Consumer Price Index

The Consumer Price Index (June 1982–May 1983 = 100) 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, a weighted arithmetic average of price relatives, is computed monthly. The yearly index is a simple average of twelve monthly indices.

Retail Prices

Retail prices of selected goods are collected regularly from markets, supermarkets, provision shops, econ-mini marts and other retail outlets spread over the entire island. 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 rents, electricity rates, bus fares) are checked either quarterly, yearly or as and when their prices are revised.

Other Price Indices

These 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 exported products, they refer to fob (free on board) prices; and for locally manufactured products, they are ex-factory prices. 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 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 price index were proportionate to the consumption

of materials of the building and construction industries.

Produce Prices

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

14.1 CONSUMER PRICE INDEX, 1978-1987

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
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

¹ The weights refer to the consumption pattern of 1982/83 and are used in the computation of the indices for the period 1983-1987. Indices for the period 1978-1982 relate to the consumption pattern of 1977/78.

14.2 RETAIL PRICES OF SELECTED FOODSTUFFS

Dollars

Year	Rice & Other Cereals					Meat & Poultry					Milk & Eggs	
	Thai Rice 100%	Wheat Flour	Bread	Rice Vermicelli ¹	Instant Noodles	Lean Pork	Lean & Fat Pork	Fresh Beef	Fresh Mutton	Hen	Condensed Milk	Hen Eggs
	Per Kg		400g	400g Pkt	425g Pkt	Per Kg					397g Tin	Per 10
1977	.89	.66	.43	.66	1.50	5.59	4.68	6.99	6.46	3.77	.85	1.41
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

Prior to 1982, prices refer to 500g packet.

14.2 RETAIL PRICES OF SELECTED FOODSTUFFS (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									
1977	5.36	na	4.76	3.27	5.52	na	16.39	8.23	1.04	.73	1.12	2.71
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

14.2 RETAIL PRICES OF SELECTED FOODSTUFFS (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
1977	.66	1.03	.89	.40	.22	.29	.74	.56	1.24	13.58	1.98	2.93
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

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

14.3 DOMESTIC SUPPLY PRICE INDEX, 1978-1987

Section	All Items	Food	Beverages & Tobacco	Crude Materials	Mineral Fuels	Animal & Vegetable Oils	Chemicals & Chemical Products	Manufactured Goods	Machinery & Equipment	Miscellaneous Manufactures
Weights ¹	10,000	476	121	184	3,501	209	438	1,498	2,750	823
Period	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
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

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 the 1973 distribution pattern.

14.4 SINGAPORE MANUFACTURED PRODUCTS PRICE INDEX, 1978-1987

Section	All Items	Food	Beverages & Tobacco	Crude Materials	Mineral Fuels	Animal & Vegetable Oils	Chemicals & Chemical Products	Manufactured Goods	Machinery & Equipment	Miscellaneous Manufactures
Weights ¹	10,000	282	125	207	3,104	167	580	1,082	3,479	974
Period	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
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

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, 1978-1987

Section	All Items	Food	Beverages & Tobacco	Crude Materials	Mineral Fuels	Animal & Vegetable Oils	Chemicals & Chemical Products	Manufactured Goods	Machinery & Equipment	Miscellaneous Manufactures
Weights ¹	10,000	682	72	507	2,923	234	491	1,366	3,065	660
Period	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
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	-46.4	-43.8	5.3	-0.8	7.5	7.4
1987	8.2	-0.1	4.8	10.2	24.1	16.5	0.8	8.4	3.9	4.1

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, 1978-1987

Section	All Items	Food	Beverages & Tobacco	Crude Materials	Mineral Fuels	Animal & Vegetable Oils	Chemicals & Chemical Products	Manufactured Goods	Machinery & Equipment	Miscellaneous Manufactures
Weights ¹ Period	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
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

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, 1978-1987

Section	All Items	Timber & Wood Products	Concrete Ingredients (Granite)	Paints	Cement	Bricks & Concrete Blocks	Tiles	Iron & Steel Products	Cables	Sanitary & Plumbing Fixtures	Others
Weights ¹	10,000	585	872	292	1,338	2,076	952	1,764	646	69	1,406
Period	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
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

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, 1978-1987

Section	All Items	Pigs	Fowls	Ducks	Hen Eggs	Leafy Vegetables	Fruit Vegetables	Root Vegetables	Fresh Fish
Weights ¹	10,000	3,621	2,366	605	1,015	702	26	7	1,658
Period	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
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	6.1	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

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

Year	Rubber							Pepper		Coffee AP 1	Crude Coconut Oil (In Drums)	Tin
	Ribbed Smoked Sheet				SSR 20	SSR 50	Int 3 Thick Blanket Crepe (Amber)	Black Lampung	White Muntok Genuine			
	Int 1	Int 2	Int 3	Int 4								
	Cents Per Kilogram (fob)							Dollars Per 100 Kilogram (fob)			M\$ Per Kilogram (fob)	
1977	200.84	196.32	191.99	188.36	196.21	193.86	177.52	599.18	661.00	1,036.84	155.88	26.21
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

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, 1977-1986

(1985 = 100)

Property Type	All Properties	Residential						Commercial			Industrial
		Total	Bungalows	Semi-detached Bungalows	Terrace Houses	Flats/ Apartments	Condominium Units	Total	Offices	Shop Units	Flatted Factories/ Warehouses
Period \ Weights	10,000	9,066	990	1,694	1,932	1,701	2,749	621	267	354	313
1977	36	32	27	28	29	37		51	37	66	56
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

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

15 EDUCATION

Primary Education

Primary education for a child is free. A child generally begins his primary education at the age of six.

The first three years of primary education emphasizes 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 year 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 a slower pace of learning. At the end of the fourth year, they sit for the GCE 'Normal' Level Examination. Those who have done well in the 'Normal' Level Examination 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, pupils 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 centralized 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.

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 16 training institutes and offers full-time and part-time training programmes in 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.

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 Extramural 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.

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 bachelor's degree level. The engineering courses are carefully designed to give an 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 in the University's Faculty of Engineering. The Institute produced its first batch of 557 engineering graduates in April 1985. The student enrolment for the 1987/88 academic session is 3,940, including 1,599 accountancy students.

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.

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,

Industrial Engineering Technology, Manufacturing Automation Technology and Steel Structure Technology are also offered. The Advanced Diploma course in Computer Studies is also offered on a full-time basis.

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 also conducts Further Professional Programmes leading to formal qualifications. The full-time Diploma in Educational Administration (Primary School) and Diploma in Educational Administration (Secondary School) Programmes, which are of one-year duration each, are aimed at preparing the participants for the role of Principals and Vice-Principals in primary and secondary schools

respectively. The Institute further 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 also 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.

The *College of Physical Education* was established in July 1984 to train specialist teachers of physical education for secondary schools and junior colleges.

Two programmes both leading to the Diploma in Physical Education are jointly conducted for the pre-service and in-service students.

The two-year pre-service programme is designed for 'A' level applicants and university graduates. The in-service course for serving teachers stretches over three terms of approximately one year. A similar in-service course for primary school teachers will be introduced in 1988.

The College also conducts regular shorter in-service courses for serving teachers to update their skills and knowledge in physical

education.

Expenditure on Education

Education has been a major item of public expenditure. The total budgeted recurrent expenditure in the fiscal year 1987/88 was \$1,385 million or 15.4 per cent of the total government recurrent expenditure.

15.1 ENROLMENT IN EDUCATIONAL INSTITUTIONS

Number

Year	Total	Primary Schools	Secondary Schools & Junior Colleges				Technical & Vocational Institutes	Institutions of Higher Learning ¹
			Total	Academic	Technical	Commercial		
1977	517,708	308,342	178,186	153,055	19,100	6,031	10,860	20,734
1978	510,139	300,398	179,811	154,494	18,728	6,589	9,830	20,377
1979	509,374	297,873	176,521	151,927	18,215	6,379	14,516	20,745
1980	508,019	299,252	173,693	148,536	17,391	7,766	12,543	22,633
1981	504,170	289,697	177,238	148,842	18,330	10,066	13,001	24,393
1982	507,732	289,092	176,845	147,497	18,023	11,325	14,990	26,960
1983	519,718	290,800	182,343	151,295	18,360	12,688	15,610	31,145
1984	526,557	288,623	187,764	154,188	19,071	14,505	14,396	35,943
1985	526,992	278,060	190,328	154,435	19,782	16,111	18,894	39,913
1986	534,869	268,820	203,088	163,090	21,601	18,397	20,873	42,317
1987	533,569	261,603	202,857	162,643	20,876	19,338	24,363	44,982*

Note : Figures for technical and vocational institutes, and institutions of higher learning include part-time students.

Source : Ministry of Education

¹ Institutions of higher learning 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 1987

Number

	Institutions ¹	Students ²			Teachers ²		
		Total	Males	Females	Total	Males	Females
Total	414	533,569	284,304	249,265	25,459	10,834	14,709
Primary Schools ³	230	261,603	137,594	124,009	10,442	3,008	7,434
Secondary Schools & Junior Colleges	161	202,857	101,231	101,626	9,369	3,617	5,752
Technical & Vocational Institutes	17	24,363	17,819	6,544	1,687	1,232	455
Polytechnics	2	24,611	17,350	7,261	1,778	1,338	440
Institute of Education & College of Physical Education	2	1,459	271	1,188	170	95	75
National University of Singapore & Nanyang Technological Institute	2	18,676	10,039	8,637	2,013	1,544	469

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

Source : Ministry of Education

2 Figures for technical and vocational institutes, and institutions of higher learning include part-time students/teachers.

3 Figures for primary schools exclude pre-primary pupils/teachers.

15.3 PRIMARY SCHOOLS, STUDENTS AND TEACHERS BY TYPE OF SCHOOL

Number

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total Schools	376	364	351	338	327	321	305	275	252	236	230
Government	199	196	193	199	200	212	207	193	180	172	169
Government-aided	174	165	156	137	125	107	96	81	71	63	60
Private	3	3	2	2	2	2	2	1	1	1	1
Total Students	308,342	300,398	297,873	299,252	289,697	289,092	290,800	288,623	278,060	268,820	261,603
Government	214,749	214,727	217,163	221,717	214,763	220,197	219,742	219,930	211,855	205,281	199,174
Government-aided	93,392	85,491	80,527	77,323	74,756	68,734	70,862	68,564	66,020	63,387	62,225
Private	201	180	183	212	178	161	196	129	185	152	204
Total Teachers¹	10,345	10,347	10,492	10,090	9,465	9,452	9,921	10,657	10,625	10,515	10,442
Government	7,064	7,242	7,276	7,244	7,260	7,437	7,854	8,132	8,104	8,100	8,062
Government-aided	3,267	3,097	3,200	2,837	2,194	2,007	2,061	2,521	2,509	2,407	2,371
Private	14	8	16	9	11	8	6	4	12	8	9

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

15.4 PRIMARY SCHOOL STUDENTS AND TEACHERS BY LANGUAGE MEDIUM OF SCHOOL, 1976-1986

Number

Language Medium	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Students											
Total	316,265	308,342	300,398	297,873	299,252	289,697	289,092	290,800	288,623	278,060	268,820
Males	166,678	163,292	158,776	157,694	158,333	152,613	152,495	153,483	153,067	147,083	141,804
Females	149,587	145,050	141,622	140,179	140,919	137,084	136,597	137,317	135,556	130,977	127,016
English	234,700	237,994	241,469	248,507	252,398	251,254	255,921	273,085	277,785	272,507	266,396
Males	123,664	125,875	127,556	131,423	133,104	131,699	134,450	143,423	146,677	143,713	140,368
Females	111,036	112,119	113,913	117,084	119,294	119,555	121,471	129,662	131,108	128,794	126,028
Chinese	78,712	68,315	57,455	48,283	46,078	37,968	32,855	17,550	10,752	5,531	2,424
Males	41,845	36,539	30,547	25,754	24,846	20,664	17,884	9,976	6,350	3,360	1,436
Females	36,867	31,776	26,908	22,529	21,232	17,304	14,971	7,574	4,402	2,171	988
Malay	2,567	1,837	1,362	1,029	760	475	316	165	86	22	-
Males	1,055	798	621	489	371	250	161	84	40	10	-
Females	1,512	1,039	741	540	389	225	155	81	46	12	-
Tamil	286	196	112	54	16	-	-	-	-	-	-
Males	114	80	52	28	12	-	-	-	-	-	-
Females	172	116	60	26	4	-	-	-	-	-	-
Teachers ¹											
Total	10,597	10,345	10,347	10,492	10,090	9,465	9,452	9,921	10,657	10,625	10,515
Males	3,497	3,418	3,459	3,436	3,341	3,175	3,153	3,143	3,272	3,171	3,098
Females	7,100	6,927	6,888	7,056	6,749	6,290	6,299	6,778	7,385	7,454	7,417
English	7,203	7,350	7,624	7,838	7,856	7,846	7,964	8,543	9,413	9,586	9,624
Males	2,036	2,113	2,271	2,378	2,384	2,453	2,495	2,564	2,786	2,782	2,778
Females	5,167	5,237	5,353	5,460	5,472	5,393	5,469	5,979	6,627	6,804	6,846
Chinese	3,003	2,731	2,510	2,499	2,102	1,520	1,405	1,331	1,227	1,023	891
Males	1,245	1,151	1,065	960	870	661	606	549	480	374	320
Females	1,758	1,580	1,445	1,539	1,232	859	799	782	747	649	571
Malay	361	238	196	141	123	93	78	47	17	16	-
Males	202	143	115	90	82	58	49	30	6	15	-
Females	159	95	81	51	41	35	29	17	11	1	-
Tamil	30	26	17	14	9	6	5	-	-	-	-
Males	14	11	8	8	5	3	3	-	-	-	-
Females	16	15	9	6	4	3	2	-	-	-	-

Note : Language medium schools have been phased out with effect from 1987.
Therefore, figures for 1987 and thereafter no longer available.

Source : Ministry of Education

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

15.5 ENROLMENT IN PRIMARY SCHOOLS BY AGE AND LEVEL, END JUNE 1987

Number

Age As At 1.1.87	Total	Primary 1	Primary 2	Primary 3	Primary 4	Primary 5	Primary 6	Primary 7	Primary 8
Total Under 6 6 & Under 7 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 & Under 16 16 & Over	Males								
	137,594	20,918	20,980	20,347	20,228	22,715	20,863	5,306	6,237
	4	4	-	-	-	-	-	-	-
	20,821	20,809	12	-	-	-	-	-	-
	20,929	85	20,833	11	-	-	-	-	-
	20,221	14	105	20,092	8	2	-	-	-
	20,001	4	24	163	19,797	13	-	-	-
	22,423	2	4	60	284	22,063	10	-	-
	20,548	-	2	14	110	427	18,803	1,192	-
	6,808	-	-	6	18	155	1,491	3,874	1,264
	5,322	-	-	1	9	46	445	156	4,665
	385	-	-	-	2	9	79	70	225
	95	-	-	-	-	-	23	9	63
	37	-	-	-	-	-	12	5	20
	Females								
	124,009	19,318	19,192	19,008	18,494	20,726	19,801	3,228	4,242
	2	2	-	-	-	-	-	-	-
	19,225	19,219	6	-	-	-	-	-	-
	19,165	81	19,074	10	-	-	-	-	-
	18,934	12	87	18,831	4	-	-	-	-
	18,383	3	16	119	18,232	13	-	-	-
	20,564	1	7	42	197	20,309	8	-	-
	19,077	-	2	5	51	300	17,707	1,012	-
	4,792	-	-	1	9	76	1,524	2,078	1,104
	3,582	-	-	-	1	25	483	98	2,975
	231	-	-	-	-	3	62	37	129
	45	-	-	-	-	-	12	3	30
	9	-	-	-	-	-	5	-	4

Source : Ministry of Education

15.6 SECONDARY SCHOOLS, STUDENTS AND TEACHERS BY TYPE OF SCHOOL

Number

Type of School	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total Schools	131	135	135	141	145	150	147	150	149	157	161
Government	77	79	80	86	90	94	93	98	98	109	113
Government-aided	49	51	51	51	51	52	50	48	47	44	44
Private	5	5	4	4	4	4	4	4	4	4	4
Total Students	178,186	179,811	176,521	173,693	177,238	176,845	182,343	187,764	190,328	203,088	202,857
Government	127,769	128,509	126,017	124,256	128,127	128,854	133,839	137,400	137,526	149,296	148,240
Government-aided	48,724	49,612	48,735	47,549	47,333	46,198	46,629	48,445	50,763	51,840	52,885
Private	1,693	1,690	1,769	1,888	1,778	1,793	1,875	1,919	2,039	1,952	1,732
Total Teachers¹	6,963	7,055	7,642	7,906	8,273	8,347	8,644	8,236	8,562	8,695	9,369
Government	5,106	5,115	5,573	5,605	5,655	5,694	5,946	6,006	6,261	6,461	6,960
Government-aided	1,784	1,873	2,003	2,234	2,553	2,584	2,625	2,150	2,227	2,159	2,341
Private	73	67	66	67	65	69	73	80	74	75	68

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

Source : Ministry of Education

15.7 SECONDARY SCHOOL STUDENTS AND TEACHERS BY LANGUAGE MEDIUM OF SCHOOL, 1976-1986

Number

Language Medium	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Students											
Total	177,992	178,186	179,811	176,521	173,693	177,238	176,845	182,343	187,764	190,328	203,088
Males	86,731	86,362	87,071	85,467	84,210	86,522	86,819	90,060	92,796	93,825	100,772
Females	91,261	91,824	92,740	91,054	89,483	90,716	90,026	92,283	94,968	96,503	102,316
English	117,946	119,514	123,936	130,699	133,116	143,934	148,431	164,546	176,397	184,495	199,969
Males	56,546	56,988	59,201	62,511	64,244	70,041	72,835	81,066	87,033	90,871	99,166
Females	61,400	62,526	64,735	68,188	68,872	73,893	75,596	83,480	89,364	93,624	100,803
Chinese	53,917	54,093	52,715	43,986	39,405	32,522	27,923	17,507	11,220	5,779	3,091
Males	28,315	27,995	26,920	22,373	19,591	16,219	13,803	8,884	5,701	2,935	1,591
Females	25,602	26,098	25,795	21,613	19,814	16,303	14,120	8,623	5,519	2,844	1,500
Malay	5,794	4,301	2,944	1,668	1,062	678	423	252	122	54	28
Males	1,736	1,272	878	526	333	217	146	82	45	19	15
Females	4,058	3,029	2,066	1,142	729	461	277	170	77	35	13
Tamil ¹	335	278	216	168	110	104	68	38	25	-	-
Males	134	107	72	57	42	45	35	28	17	-	-
Females	201	171	144	111	68	59	33	10	8	-	-
Teachers ¹											
Total	6,855	6,963	7,055	7,642	7,906	8,273	8,347	8,644	8,236	8,562	8,695
Males	3,396	3,375	3,322	3,602	3,542	3,662	3,652	3,688	3,493	3,568	3,566
Females	3,459	3,588	3,733	4,040	4,364	4,611	4,695	4,956	4,743	4,994	5,129
English	4,395	4,531	4,630	5,194	5,684	6,261	6,530	7,022	7,361	7,839	8,044
Males	1,966	1,970	1,965	2,249	2,380	2,661	2,767	2,907	3,085	3,235	3,269
Females	2,429	2,561	2,665	2,945	3,304	3,600	3,763	4,115	4,276	4,604	4,775
Chinese	2,106	2,113	2,132	2,189	2,034	1,888	1,723	1,546	820	704	635
Males	1,201	1,196	1,167	1,184	1,037	919	822	730	381	322	286
Females	905	917	965	1,005	997	969	901	816	439	382	349
Malay	344	308	278	244	176	116	87	73	55	19	16
Males	224	203	184	163	118	76	58	48	27	11	11
Females	120	105	94	81	58	40	29	25	28	8	5
Tamil	10	11	15	15	12	8	7	3	-	-	-
Males	5	6	6	6	7	6	5	3	-	-	-
Females	5	5	9	9	5	2	2	-	-	-	-

Note : Students in Special Stream (bilingual) are classified under Chinese medium for 1979-1982.

From 1983, such students are classified under English medium.

Language medium schools have been phased out with effect from 1987.

Therefore, figures for 1987 and thereafter no longer available.

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

Source : Ministry of Education

15.8 ENROLMENT IN SECONDARY SCHOOLS BY AGE AND LEVEL, END JUNE 1987

Number

Age As At 1.1.87	Total	Secondary I	Secondary II	Secondary III	Secondary IV	Secondary V	Pre- university I	Pre- university II	Pre- university III	Junior College I	Junior College II
Total	Males										
	101,231	20,139	21,020	21,110	19,379	5,827	1,226	1,065	793	5,630	5,042
	Under 12	14	13	1	-	-	-	-	-	-	-
	12 & Under 13	15,302	15,300	2	-	-	-	-	-	-	-
	13 & Under 14	18,389	2,189	16,190	9	1	-	-	-	-	-
	14 & Under 15	20,161	2,334	2,222	15,594	11	-	-	-	-	-
	15 & Under 16	18,945	222	2,297	2,579	13,790	12	-	-	43	-
	16 & Under 17	13,947	63	253	2,239	3,575	2,825	472	1	4,471	48
	17 & Under 18	9,886	15	39	535	1,713	2,143	449	382	859	3,749
	18 & Under 19	3,475	3	13	145	261	833	266	463	244	986
	19 & Under 20	912	-	2	5	20	9	35	198	385	12
	20 & Under 21	200	-	1	4	8	5	2	21	145	13
	Females										
	101,626	18,967	19,904	20,709	19,671	5,328	2,160	1,625	1,433	6,254	5,575
	Under 12	4	4	-	-	-	-	-	-	-	-
	12 & Under 13	15,298	15,287	11	-	-	-	-	-	-	-
	13 & Under 14	18,257	1,917	16,331	9	-	-	-	-	-	-
	14 & Under 15	19,808	1,593	1,855	16,344	14	-	-	-	2	-
	15 & Under 16	18,838	125	1,547	2,309	14,826	5	3	-	23	-
	16 & Under 17	14,482	34	130	1,689	3,357	2,963	1,023	5	5,258	23
	17 & Under 18	10,290	3	21	294	1,315	1,789	758	826	831	4,447
	18 & Under 19	3,437	3	6	59	131	568	312	560	756	910
	19 & Under 20	1,022	1	1	2	23	2	60	207	528	8
	20 & Under 21	190	-	2	3	5	1	4	27	143	5

Source : Ministry of Education

15.9 ENROLMENT IN INSTITUTIONS OF HIGHER LEARNING

Number

Year	Total ¹		National University of Singapore ²		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
1977	13,809	6,925	4,972	3,858	-	-	5,872	1,494	1,670	540	295	1,033	-	-
1978	13,248	7,129	4,997	3,762	-	-	6,248	1,466	1,750	549	253	1,352	-	-
1979	13,294	7,451	5,047	3,621	-	-	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	27,818*	17,164*	7,743*	7,229*	2,454	1,486	10,529	3,224	6,821	4,037	218	1,121	53	67

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 1987, 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

Number

Course	Session	1977/78	1978/79	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88
Total		3,803	3,949	4,030	5,081	5,596	6,570	6,907	8,749	9,470	8,987	9,617
National University of Singapore ¹		971	1,095	1,205	1,478	1,709	1,913	1,683	2,224	2,346	2,316	2,169
Arts & Social Sciences		155	159	137	181	225	237	172	223	242	262	238
Science ²		94	166	188	204	220	298	281	411	369	473	443
Medicine		88	82	91	105	132	147	134	157	143	128	102
Dentistry		18	16	25	20	19	22	23	35	29	22	21
Law		51	43	36	59	62	67	94	107	113	105	109
Business Administration		91	120	80	128	155	171	123	141	199	196	171
Accountancy ³		87	92	78	85	89	91	81	101	122	134	-
Architecture, Building & Estate Management		71	80	87	142	149	112	114	173	143	121	100
Engineering		316	337	483	554	658	768	661	876	986	875	976
Nanyang Technological Institute		-	-	-	-	-	-	-	-	641	695	887
Engineering		-	-	-	-	-	-	-	-	641	695	694
Accountancy ³		-	-	-	-	-	-	-	-	-	-	193
Singapore Polytechnic ⁴		2,102	2,143	2,022	2,743	2,964	3,335	3,700	4,109	3,820	3,510	3,846
Engineering		1,784	1,848	1,810	2,316	2,320	2,745	3,017	3,519	3,333	3,140	3,409
Architecture & Building		154	170	124	332	478	414	450	416	351	229	198
Nautical		164	125	88	95	119	120	105	87	71	71	83
Business Administration ⁵		-	-	-	-	47	56	128	87	65	70	106
Computer ⁶		-	-	-	-	-	-	-	-	-	-	50
Ngee Ann Polytechnic ⁷		595	584	547	733	796	1,173	1,348	2,262	2,436	2,276	2,485
Engineering		505	501	459	619	663	951	1,081	1,985	2,159	1,908	2,128
Business Studies		90	83	88	114	133	165	192	167	228	301	279
Computer Studies		-	-	-	-	-	57	75	110	49	67	78
Institute of Education		135	127	256	127	127	149	176	129	199	144	197
College of Physical Education ⁸		-	-	-	-	-	-	-	25	28	46	42

1 Figures cover undergraduates only.

2 Includes Pharmacy.

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

4 Figures include part-time students.

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

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

7 Figures 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

Number

Course	Session	1977/78	1978/79	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88
Total		2,051	2,171	2,676	3,388	3,281	4,185	4,882	5,066	5,640	5,920	6,579
National University of Singapore ¹		907	839	974	1,524	1,719	2,024	2,478	2,217	2,308	2,581	2,326
Arts & Social Sciences		289	276	315	466	513	661	781	686	719	785	773
Science ²		185	176	221	390	439	461	521	501	538	598	689
Medicine		52	57	49	65	38	53	68	49	57	61	79
Dentistry		18	19	11	18	19	15	14	3	9	16	14
Law		47	40	61	60	72	94	103	105	87	130	87
Business Administration		81	83	117	198	238	269	397	353	292	332	337
Accountancy ³		106	109	132	218	258	296	342	326	334	400	-
Architecture, Building & Estate Management		69	30	37	63	70	106	125	108	115	106	126
Engineering		60	49	31	46	72	69	127	86	157	153	221
Nanyang Technological Institute		-	-	-	-	-	-	-	-	82	118	563
Engineering		-	-	-	-	-	-	-	-	82	118	138
Accountancy ³		-	-	-	-	-	-	-	-	-	-	425
Singapore Polytechnic ⁴		457	442	505	737	778	859	997	1,189	1,000	895	1,316
Engineering		365	369	426	532	474	553	625	790	727	721	836
Architecture & Building		92	73	79	205	300	302	343	347	222	101	119
Nautical		-	-	-	-	-	-	-	-	-	-	-
Business Administration ⁵		-	-	-	-	4	4	29	52	51	73	239
Computer ⁶		-	-	-	-	-	-	-	-	-	-	122
Ngee Ann Polytechnic ⁷		170	148	265	379	358	561	904	1,220	1,476	1,517	1,664
Engineering		57	36	99	163	125	179	303	528	611	474	540
Business Studies		113	112	166	216	233	319	436	582	765	865	934
Computer Studies		-	-	-	-	-	63	165	110	100	178	190
Institute of Education		517	742	932	748	426	741	503	418	737	778	671
College of Physical Education ⁸		-	-	-	-	-	-	-	22	37	31	39

Note : See notes 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

Number

Course	Session	1976/77	1977/78	1978/79	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87
Total		3,065	3,506	3,511	3,055	3,426	3,736	4,085	4,749	5,140	5,850	6,886
National University of Singapore ¹		745	812	897	902	1,117	1,254	1,397	1,583	1,337	1,384	1,584
Arts & Social Sciences		101	147	184	188	229	209	224	239	280	249	281
Science ²		67	65	127	99	198	293	270	219	313	345	432
Medicine		83	79	48	69	68	77	83	105	82	103	155
Dentistry		18	25	13	15	18	11	27	23	12	20	23
Law		47	30	56	41	43	36	31	52	60	71	82
Business Administration		87	107	102	86	147	139	145	161	178	140	151
Accountancy		67	95	74	81	92	96	91	80	73	81	99
Architecture, Building & Estate Management		48	58	77	77	51	91	112	155	146	130	152
Engineering		227	206	216	246	271	302	414	549	193	245	209
Nanyang Technological Institute		-	-	-	-	-	-	-	-	501	597	560
Singapore Polytechnic ³		1,868	2,012	2,014	1,590	1,594	1,838	1,965	2,148	2,223	2,527	2,776
Engineering		1,564	1,693	1,687	1,390	1,412	1,536	1,598	1,694	1,811	2,037	2,397
Architecture & Building		171	181	230	179	157	274	262	287	291	324	234
Nautical		133	138	97	21	25	28	67	106	79	80	35
Business Administration ⁴		-	-	-	-	-	-	38	61	42	86	55
Computer ⁵		-	-	-	-	-	-	-	-	-	-	55
Ngee Ann Polytechnic		332	528	492	452	493	492	585	834	953	1,167	1,769
Engineering		258	411	404	394	447	421	483	665	781	919	1,511
Business Studies		74	117	88	58	46	71	102	124	151	169	160
Computer Studies		-	-	-	-	-	-	-	45	21	79	98
Institute of Education		120	154	108	111	222	152	138	184	126	152	155
College of Physical Education ⁶		-	-	-	-	-	-	-	-	-	23	42

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

- Figures cover first degree graduates only.
- Includes Pharmacy.
- Figures include graduates from part-time courses.
- Prior to 1986/87, it was known as Business and Communications.
- Refers to courses conducted by Japan-Singapore Institute of Software Technology. The institute was transferred to Singapore Polytechnic with effect from 1 April 1987.
- College of Physical Education was established in July 1984.

15.13 FEMALE GRADUATES FROM INSTITUTIONS OF HIGHER LEARNING

Number

Course	Session	1976/77	1977/78	1978/79	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87
Total		1,860	1,733	2,207	1,789	2,941	2,783	2,866	3,583	3,814	4,610	5,071
National University of Singapore ¹		836	820	1,008	869	1,070	1,141	1,508	1,826	2,117	2,476	2,390
Arts & Social Sciences		348	337	373	330	390	414	541	600	766	873	828
Science ²		117	111	184	186	262	284	393	507	541	600	580
Medicine		42	36	42	47	53	51	44	58	55	47	45
Dentistry		15	20	18	18	18	11	16	21	15	15	17
Law		66	79	73	56	42	37	49	54	67	89	90
Business Administration		79	82	94	84	86	134	188	229	286	391	367
Accountancy		125	124	181	89	102	125	201	265	291	330	311
Architecture, Building & Estate Management		23	23	21	40	65	38	49	56	77	113	118
Engineering		21	8	22	19	52	47	27	36	19	18	34
Nanyang Technological Institute		-	-	-	-	-	-	-	-	56	64	104
Singapore Polytechnic ³		464	375	478	379	469	586	561	615	644	714	950
Engineering		336	235	317	261	317	355	325	382	435	520	662
Architecture & Building		128	140	161	118	152	231	233	229	205	168	172
Nautical		-	-	-	-	-	-	-	-	-	-	-
Business Administration ⁴		-	-	-	-	-	-	3	4	4	26	37
Computer ⁵		-	-	-	-	-	-	-	-	-	-	79
Ngee Ann Polytechnic		105	188	171	128	102	259	343	459	589	765	941
Engineering		18	44	55	51	28	105	141	126	141	246	422
Business Studies		87	144	116	77	74	154	202	273	366	405	418
Computer Studies		-	-	-	-	-	-	-	60	82	114	101
Institute of Education		455	350	550	413	1,300	797	454	683	408	570	649
College of Physical Education ⁶		-	-	-	-	-	-	-	-	-	21	37

Note: See notes 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, 1983-1987

Number

Course Level	1983			1984			1985			1986			1987*		
	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females
Total	19,311	16,437	2,874	17,197	14,194	3,003	22,276	18,043	4,233	23,687	18,669	5,018	28,863	22,088	6,775
Full-time	8,881	6,896	1,985	6,426	4,311	2,115	11,891	8,626	3,265	11,171	7,360	3,811	13,425	8,826	4,599
Part-time	10,430	9,541	889	10,771	9,883	888	10,385	9,417	968	12,516	11,309	1,207	15,438	13,262	2,176
Diploma in Applied Arts	67	23	44	65	22	43	95	26	69	88	28	60	82	35	47
Full-time	67	23	44	65	22	43	95	26	69	88	28	60	82	35	47
Industrial Technician Certificate	879	797	82	981	831	150	1,185	989	196	1,167	989	178	1,493	1,304	189
Full-time	799	721	78	656	540	116	885	717	168	905	744	161	1,168	1,000	168
Part-time	80	76	4	325	291	34	300	272	28	262	245	17	325	304	21
National Trade Certificate (Grade 2)	4,960	4,771	189	5,007	4,708	299	4,712	4,447	265	4,143	3,908	235	5,367	4,978	389
Full-time	545	506	39	762	707	55	1,076	1,012	64	752	672	80	1,241	1,097	144
Part-time	4,415	4,265	150	4,245	4,001	244	3,636	3,435	201	3,391	3,236	155	4,126	3,881	245
National Trade Certificate (Grade 3)	9,585	8,309	1,276	8,722	7,532	1,190	12,094	10,081	2,013	12,839	10,928	1,911	15,384	12,496	2,888
Full-time	4,423	3,795	628	2,994	2,394	600	6,025	4,748	1,277	4,281	3,365	916	4,982	3,843	1,139
Part-time	5,162	4,514	648	5,728	5,138	590	6,069	5,333	736	8,558	7,563	995	10,402	8,653	1,749
Artisan Certificate/ Certificate of Competency	1,870	1,820	50	303	299	4	12	10	2	94	85	9	56	55	1
Full-time	1,428	1,428	-	224	220	4	12	10	2	44	44	-	28	28	-
Part-time	442	392	50	79	79	-	-	-	-	50	41	9	28	27	1
Pre-vocational Training	-	-	-	142	114	28	2,406	1,913	493	2,768	2,200	568	3,247	2,437	810
Full-time	-	-	-	142	114	28	2,406	1,913	493	2,768	2,200	568	3,247	2,437	810
Certificate in Business Studies	462	75	387	596	138	458	531	103	428	869	152	717	902	177	725
Full-time	462	75	387	596	138	458	531	103	428	869	152	717	902	177	725
Preliminary Certificate in Business Studies	901	92	809	914	103	811	851	87	764	1,464	155	1,309	1,775	209	1,566
Full-time	901	92	809	914	103	811	851	87	764	1,464	155	1,309	1,775	209	1,566
Ad-hoc	587	550	37	467	447	20	390	387	3	255	224	31	557	397	160
Full-time	256	256	-	73	73	-	10	10	-	-	-	-	-	-	-
Part-time	331	294	37	394	374	20	380	377	3	255	224	31	557	397	160

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, 1983-1987

Number

Course Level	1983			1984			1985			1986			1987*		
	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females
Total	16,874	15,125	1,749	17,113	14,392	2,721	18,049	14,847	3,202	21,180	17,266	3,914	23,963	19,000	4,963
Full-time	6,779	5,874	905	6,281	4,496	1,785	7,597	5,297	2,300	8,472	5,834	2,638	8,853	6,002	2,851
Part-time	10,095	9,251	844	10,832	9,896	936	10,452	9,550	902	12,708	11,432	1,276	15,110	12,998	2,112
Diploma in Applied Arts	37	13	24	30	13	17	59	22	37	64	25	39	65	22	43
Full-time	37	13	24	30	13	17	59	22	37	64	25	39	65	22	43
Industrial Technician Certificate	748	668	80	774	687	87	584	526	58	476	395	81	770	633	137
Full-time	716	640	76	748	669	79	532	480	52	425	348	77	641	517	124
Part-time	32	28	4	26	18	8	52	46	6	51	47	4	129	116	13
National Trade Certificate (Grade 2)	4,631	4,420	211	4,805	4,529	276	4,259	4,025	234	4,026	3,819	207	5,109	4,784	325
Full-time	249	221	28	509	465	44	462	422	40	646	585	61	1,009	911	98
Part-time	4,382	4,199	183	4,296	4,064	232	3,797	3,603	194	3,380	3,234	146	4,100	3,873	227
National Trade Certificate (Grade 3)	8,464	7,497	967	8,677	7,616	1,061	9,542	8,202	1,340	12,269	10,563	1,706	13,250	10,990	2,260
Full-time	3,723	3,285	438	2,818	2,411	407	3,302	2,662	640	3,344	2,727	617	2,820	2,282	538
Part-time	4,741	4,212	529	5,859	5,205	654	6,240	5,540	700	8,925	7,836	1,089	10,430	8,708	1,722
Artisan Certificate/Certificate of Competency	1,941	1,845	96	747	743	4	12	10	2	66	62	4	56	55	1
Full-time	1,395	1,395	-	573	569	4	12	10	2	30	30	-	28	28	-
Part-time	546	450	96	174	174	-	-	-	-	36	32	4	28	27	1
Pre-vocational Training	-	-	-	134	107	27	1,930	1,556	374	2,407	1,914	493	2,779	2,080	699
Full-time	-	-	-	134	107	27	1,930	1,556	374	2,407	1,914	493	2,779	2,080	699
Certificate in Business Studies ¹	311	77	234	433	81	352	415	68	347	424	88	336	382	54	328
Full-time	311	77	234	433	81	352	415	68	347	424	88	336	382	54	328
Preliminary Certificate in Business Studies	132	27	105	923	68	855	876	68	808	1,132	117	1,015	1,129	108	1,021
Full-time	132	27	105	923	68	855	876	68	808	1,132	117	1,015	1,129	108	1,021
Ad-hoc	610	578	32	590	548	42	372	370	2	316	283	33	423	274	149
Full-time	216	216	-	113	113	-	9	9	-	-	-	-	-	-	-
Part-time	394	362	32	477	435	42	363	361	2	316	283	33	423	274	149

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

Source : Vocational & Industrial Training Board

1. Figures include commercial courses.

15.16 GOVERNMENT EXPENDITURE ON EDUCATION

Thousand Dollars

	1977/78	1978/79	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88
TOTAL	428,297	464,373	557,528	688,329	942,517	1,358,430	1,611,647	1,769,728	1,775,580	1,638,767	1,768,955
Recurrent Expenditure	380,327	424,030	503,137	589,420	712,732	983,751	1,107,113	1,272,559	1,388,325	1,277,288	1,385,211
Primary Schools	139,735	156,499	186,266	210,143	241,364	337,339	357,249	403,915	422,806	384,044	403,151
Secondary Schools & Junior Colleges	103,202	119,794	181,545	211,840	244,940	323,163	348,200	392,387	431,866	402,396	426,611
Vocational & Industrial Training Board ¹	48,055	50,029	25,000	29,694	38,900	47,401	55,121	65,662	80,294	68,966	70,981
Tertiary	69,351	75,212	86,532	109,650	156,105	229,057	291,782	350,152	387,224	362,813	422,021
National University of Singapore & Nanyang Technological Institute ²	42,568	48,570	58,185	74,557	108,527	156,435	197,947	240,448	253,811	240,805	297,661
Institute of Education & College of Physical Education ³	11,043	10,257	7,831	11,089	13,955	17,746	18,817	21,268	22,979	19,883	24,291
Polytechnics	15,740	16,385	20,516	24,004	33,623	54,876	75,018	88,436	110,434	102,125	100,071
Others ⁴	19,984	22,496	23,794	28,092	31,423	46,791	54,761	60,443	66,135	59,069	62,431
Development Expenditure	47,970	40,343	54,391	98,910	229,785	374,679	504,534	497,169	387,255	361,479	383,744

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 and headquarters expenditure.

5 Based on Budget estimates.

Source : Ministry of Education

The health services provided by the Government are very comprehensive. The Ministry of Health is responsible for the overall policy, standards, the maintenance of public health standards, the development of health programmes and preventive measures, and the provision of treatment and hospital facilities. In addition, the Ministry undertakes the responsibility of monitoring family planning policies as well as providing advice and facilities on family planning.

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

Primary Health Care Services

The Primary Health Care Services which include Outpatient, Maternal and Child Health

16 HEALTH

Hospital Services

There are 10 Government hospitals in which 6 are general hospitals providing accident and emergency services and multi-specialty treatment, and 4 are specialist hospitals providing specialist treatment in obstetrics and gynaecology, paediatrics and infectious diseases. In addition, there are 12 private hospitals catering to the medical needs of the people.

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

Primary Health Care Services

The Primary Health Care Services which include Outpatient, Maternal and Child Health

and School Health Services are provided at 24 outpatient dispensaries and 23 maternal and child health clinics. The outpatient dispensaries offer general curative treatment while maternal and child health clinics concentrate on preventive health care for women of child-bearing age and pre-school children, implementing family planning programmes and immunization programmes for pre-school children. Health screening and immunization for school children is undertaken by School Health Services.

Hospital Services

There are 10 government hospitals of which 5 are general hospitals providing accident and emergency services and multi-disciplinary treatment, and 5 specialist hospitals providing specialist treatment in obstetrics and gynaecology, psychiatry, skin and infectious diseases. In addition, there are 12 private hospitals catering to the medical needs of the people.

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 183 dental clinics

located at various hospitals, outpatient/maternal and child health clinics and schools.

Medical Personnel

Data on medical personnel refer to the number of doctors, dentists, pharmacists, nurses and mid-wives registered under the respective Acts; namely, the Medical Registration Act, the Registration of Dentists Act, the Registration of Pharmacists Act, the Nurses Registration Act and the Mid-wives Act.

16.1 HOSPITALS, GOVERNMENT CLINICS AND DISPENSARIES

Number

Year	Hospitals		Government Dental Clinics ¹	Government Outpatient Dispensaries	Maternal & Child Health Clinics
	Government	Private			
1977	13	8	124	28	34
1978	13	10	134	26	32
1979	13	12	132	27	30
1980	13	13	133	27	29
1981	13	13	133	26	29
1982	13	13	137	26	29
1983	11	12	160	26	29
1984	11	11	162	26	29
1985	10	12	176	26	29
1986	10	12	183	26	28
1987	10	12	183	24	23

¹ Include dental clinics in schools.

Source : Ministry of Health

16.2 REGISTERED MEDICAL PERSONNEL

Number

Year	Doctors		Dentists ¹		Pharmacists		State Registered Nurses		State Enrolled Nurses		Midwives	
	Government	Private	Government	Private	Government	Private	Government	Private	Government	Private	Government	Private
1977	752	1,095	133	168	64	254	3,143	1,714	1,761	196	550	313
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

¹ Figures refer to those with professional degrees.

Source : Ministry of Health

16.3 GOVERNMENT HOSPITAL BEDS

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
TOTAL	8,574	8,493	8,485	8,078	8,365	8,246	8,222	8,085	8,047	7,889	7,797
General Hospitals											
Alexandra Hospital	479	483	503	503	503	545	545	545	560	600	594
Changi Hospital	180	180	180	202	202	202	203	203	203	182	182
Sembawang Hospital ¹	64	64	64	64	64	62	-	-	-	-	-
Singapore General Hospital	1,521	1,521	1,459	1,397	1,651	1,500	1,593	1,656	1,671	1,650	1,621
Tan Tock Seng Hospital	1,358	1,311	1,345	1,335	1,337	1,324	1,274	1,274	1,434	1,407	1,410
Toa Payoh Hospital	410	412	412	412	418	410	410	410	410	410	410
Specialised Hospitals											
Kandang Kerbau Hospital	727	687	687	687	687	687	681	681	681	561	561
St Andrew's Hospital	120	120	120	80	80	80	80	80	80	80	80
Middle Road Hospital	44	44	44	44	44	44	44	44	44	35	35
Middleton Hospital ²	228	228	228	228	228	228	228	228	-	-	-
Woodbridge Hospital ³	3,193	3,193	3,193	2,876	2,901	2,914	2,914	2,714	2,714	2,714	2,654
View Road Hospital	250	250	250	250	250	250	250	250	250	250	250

1 Closed with effect from 31 March 1983.

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

3 Includes Trafalgar Unit, Mental Defective Unit and Chronic Sick Unit.

Source : Ministry of Health

16.4 PRIVATE HOSPITAL BEDS

	Number										
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	1,097	1,138	1,379	1,507	1,542	1,633	1,637	1,602	1,941	2,300	2,388
Gleneagles Hospital	76	76	121	121	121	121	121	127	127	127	126
Jurong Hospital	62	62	62	62	40	40	40	40	40	40	40
Mt Alvernia Hospital	272	326	326	326	312	304	304	304	304	304	304
The American Hospital of Singapore ¹	45	45	45	21	21	149	149	149	149	149	149
Youngberg Hospital	79	79	79	72	68	68	68	55	55	38	38
St Andrew's Mission Hospital ²	80	50	50	50	50	50	-	-	-	-	-
Singapore Nursing Home	20	20	20	30	30	45	45	45	45	45	45
Kwong Wai Shiu Hospital	425	425	425	425	425	425	425	425	505	505	505
Shenton Nursing Home	-	13	13	15	15	15	18	18	18	16	16
Thomson Medical Centre	-	-	74	77	96	96	96	96	96	108	108
Mt Elizabeth Hospital	-	-	120	264	322	282	337	323	300	485	485
Eye Clinic	22	22	22	22	20	20	20	20	20	20	20
Gental Nursing & Health Centre ³	16	20	22	22	22	18	14	-	-	-	-
National University Hospital ⁴	-	-	-	-	-	-	-	-	282	463	552

- 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.
 4 Started functioning from 24 June 1985.

Source : Ministry of Health

16.5 ADMISSIONS IN GOVERNMENT HOSPITALS

Number

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	190,332	209,130	234,328	234,502	230,330	233,683	226,991	230,138	229,995	220,739	224,145
Alexandra Hospital	24,095	28,339	33,089	34,841	33,056	32,459	31,553	33,898	33,255	30,930	31,832
Changi Hospital	1,853	2,520	3,157	4,113	5,289	3,888	4,343	3,466	3,755	4,157	4,102
Sembawang Hospital ¹	874	745	994	1,076	1,078	1,058	119	-	-	-	-
Singapore General Hospital	54,444	53,036	60,208	58,637	54,655	60,552	60,685	62,310	64,982	65,473	73,950
Tan Tock Seng Hospital	19,490	28,590	37,789	37,680	35,961	36,671	39,915	38,459	42,987	45,475	47,672
Toa Payoh Hospital	25,245	26,740	30,414	31,937	31,852	29,280	29,410	29,925	29,477	28,070	26,961
Kandang Kerbau Hospital	49,879	53,451	55,236	53,437	53,904	54,280	48,072	48,436	48,442	39,620	32,648
St Andrew's Hospital	219	265	180	192	152	104	122	174	124	158	140
Middle Road Hospital	622	669	618	682	846	925	820	887	738	767	803
Middleton Hospital ²	8,997	9,965	7,347	6,066	7,811	9,215	6,562	6,587	-	-	-
Woodbridge Hospital ³	4,542	4,757	5,243	5,738	5,598	5,177	5,335	5,828	6,056	5,959	5,908
View Road Hospital	72	53	53	103	128	74	55	168	179	130	129

Note : See notes to Table 16.3.

Source : Ministry of Health

16.6 VISITS TO OUTPATIENT DISPENSARIES

Number

Year	Total	Outpatient Dispensaries	Sunday/Holiday Clinics	Island Dispensaries	Institutional Dispensaries
1977	2,748,869 ¹	2,555,489	23,083	4,610	157,819
1978	2,922,263	2,700,463	25,192	3,658	192,950
1979	2,907,204	2,799,451	23,809	2,989	80,955
1980	2,917,554	2,843,192	24,398	2,322	47,642
1981	2,833,394	2,756,642	22,880	2,792	51,080
1982	2,928,976	2,879,549	21,161	2,653	25,613
1983	2,662,370	2,618,141	19,871	1,801	22,557
1984	2,431,286	2,392,409	17,402	1,257	20,218
1985	2,346,344	2,304,773	15,751	226	25,594
1986	2,344,081	2,306,896	13,713	168	23,304
1987	2,199,875	2,165,076	13,015	102	21,682

¹ Includes 7,868 visits to mobile dispensaries which were closed with effect from 31 December 1977.

Source : Ministry of Health

16.7 VISITS TO GOVERNMENT DENTAL CLINICS

Num

Year	Total	School	Hospital	Outpatient Clinic
1977	900,127	551,787	178,014	170,326
1978	907,450	534,476	178,695	194,279
1979	1,045,226	516,572	198,186	330,468
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	1,133,261	660,597	146,949	325,715
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	172,066	157,992

Source : Ministry of Health

16.8 MATERNITY SERVICES

Number

Year	Maternal & Child Health Clinics			Government Hospitals	
	Ante-natal & Post-natal Attendances	Home Deliveries	Home Visits to Puerperal Mothers by Nurses & Midwives	Ante-natal & Post-natal Attendances	Deliveries
1977	97,114	9	112,307	141,435	32,540
1978	103,572	7	122,047	152,700	33,253
1979	106,873	3	127,822	162,375	34,362
1980	107,099	6	123,680	152,204	33,957
1981	98,219	3	112,901	159,965	33,899
1982	88,733	-	111,061	164,986	33,418
1983	75,415	-	102,216	156,872	30,663
1984	66,643	1	90,628	159,852	30,496
1985	54,299	-	84,941	164,226	30,191
1986	50,216	-	67,761	125,534	23,549
1987	50,881	-	43,703	117,399	23,151

Source : Ministry of Health

16.9 NOTIFICATIONS OF SPECIFIC NOTIFIABLE DISEASES

Num

Year	Cholera	Dengue/ DHF ¹	Diphtheria	Enteric Fever ²	Leprosy	Malaria	Poliomyelitis	Tuberculosis	Viral Hepatitis ³	Viral Encephalit
1977	11	92	1	216	90	184	2	2,760	na	na
1978	83	384	-	174	71	166	1	2,964	393	30
1979	10	156	-	208	96	208	1	2,800	392	24
1980	18	253	-	255	66	200	-	2,710	1,001	36
1981	34	136	-	209	64	261	-	2,425	425	27
1982	31	216	6	174	61	282	1	2,179	426	15
1983	14	205	4	137	69	219	2	2,065	626	16
1984	40	86	-	118	43	193	2	2,143	601	17
1985	27	126	-	148	57	166	-	1,952	610	5
1986	27	354	1	158	39	180	2	1,760	730	7
1987	63	436	1	132	44	165	-	1,630*	752	4

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

Source : Ministry of Health

1 Dengue/Dengue Haemorrhagic Fever was made a notifiable disease from August 1977. However, it was administratively notifiable within government institutions since October 1966.

2 Refer to Typhoid and Paratyphoid.

3 Viral Hepatitis and Viral Encephalitis were made notifiable diseases from August 1977. However, data are only available from 1978.

16.10 VACCINATION AND IMMUNIZATION OF PRE-SCHOOL CHILDREN

Thousand Doses

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
BCG Vaccination	34.2	34.6	35.3	35.0	35.2	34.1	31.4	30.6	30.8	23.8	2.9
Smallpox Vaccination	33.0	31.6	32.4	31.5	10.6	0.7	-	-	-	-	-
Diphtheria Immunization											
Diphtheria Tetanus											
1st Dose	2.2	2.0	1.8	1.7	1.4	1.5	1.3	0.9	0.9	0.7	0.3
2nd Dose	2.1	2.1	1.8	1.9	1.6	1.8	1.6	1.5	1.6	1.3	0.9
3rd Dose ¹	-	-	-	-	-	-	-	0.7	1.8	1.8	1.3
Boosters	14.5	14.2	11.9	10.8	10.0	9.5	9.7	9.7	8.9	7.8	6.0
Triple Antigen											
1st Dose	32.8	30.0	31.1	29.8	31.6	30.1	28.9	26.1	27.3	26.7	26.5
2nd Dose	31.7	28.4	29.5	28.3	30.0	28.3	27.6	25.1	25.8	26.0	25.3
3rd Dose	31.3	27.8	28.5	27.6	29.0	27.3	26.6	24.5	24.9	25.5	24.8
Boosters	19.8	21.4	20.2	20.2	19.6	20.2	20.1	19.5	18.7	20.7	21.8
Poliomyelitis Immunization											
1st Dose	34.5	31.6	32.5	31.2	32.8	31.0	29.9	27.0	28.0	27.3	26.9
2nd Dose	33.8	30.5	31.3	30.1	31.7	29.9	29.3	26.5	27.4	27.4	27.1
3rd Dose	34.0	30.2	30.8	30.0	31.3	29.9	29.5	26.6	27.2	27.6	26.2
Boosters	59.4	62.7	58.4	55.7	54.4	34.8	29.7	29.1	27.5	28.4	27.7
Measles	10.3	9.2	10.0	18.0	22.2	30.0	33.1	30.4	30.8	31.1	26.2

1 Given to pre-school children with effect from 16 July 1984.

Source : *Ministry of Health

16.11 VACCINATION AND IMMUNIZATION OF SCHOOL CHILDREN

Thousand Dose

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
BCG Vaccination	26.0	30.6	29.4	27.4	28.8	44.5	35.2	35.4	32.9	29.2	31.2
Smallpox Revaccination	43.5	40.0	43.5	42.9	11.4	-	-	-	-	-	-
Diphtheria Tetanus											
1st Dose	0.9	0.4	0.4	0.5	0.4	0.2	0.2	0.2	0.1	0.1	-
2nd Dose	0.8	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.1	-
Boosters	99.6	118.0	120.4	111.8	109.7	97.4	84.2	80.8	81.5	78.3	71.0
Poliomyelitis Immunization											
1st Dose	1.2	0.5	0.5	0.5	0.4	0.2	0.2	0.2	0.1	0.1	-
2nd Dose	1.3	0.6	0.5	0.4	0.4	0.3	0.2	0.2	0.1	0.1	-
3rd Dose	1.4	0.7	0.6	0.6	0.5	0.3	0.3	0.3	0.2	0.1	-
Boosters	98.7	102.6	104.5	97.7	101.7	90.6	83.5	74.9	79.9	76.8	57.0
Rubella	20.1	20.9	36.3	26.9	17.7	51.2	44.6	44.9	44.5	40.0	38.2

Source : Ministry of Health

16.12 STUDENT MEDICAL CHECK-UP

Thousand

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
TOTAL	205.4	214.2	214.7	218.5	225.3	204.0	185.0	174.3	196.6	195.6	469.6
By Category :											
New Entrants	43.6	44.4	46.5	45.8	41.9	39.4	42.7	38.4	39.1	39.9	39.9
Primary School Leavers	39.2	44.0	42.9	40.3	37.2	55.7	48.3	48.8	47.2	42.9	39.7
Secondary School Leavers	17.1	18.0	17.8	15.2	15.0	15.6	17.2	21.4	37.4	35.7	35.2
Re-examination	103.0	106.9	106.3	115.1	130.2	92.6	74.5	64.0	71.7	77.2	354.8
Others	2.5	0.9	1.2	2.0	1.0	0.7	2.3	1.7	1.3	-	-
By Sex :											
Males	96.3	100.3	98.8	101.9	106.1	95.9	86.3	79.0	100.4	98.9	242.8
Females	109.1	113.9	115.9	116.6	119.2	108.1	98.7	95.3	96.2	96.7	226.8

Note : Figures for 1987 refer to students of all levels.

Prior to 1987, re-examination figures refer to students in Primary 3 and Secondary 2.

Source : Ministry of Health

16.13 COMMON DEFECTS AMONG STUDENTS

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
	Per 10,000 Males Examined										
Defective Vision	2,382	2,476	2,885	2,939	3,114	3,161	2,690	2,786	3,490	4,062	3,598
Obesity — Primary School Entrants	-	-	-	441	255	250	380	622	777	952	1,174
— Primary School Leavers	-	-	-	762	1,040	1,064	1,204	1,123	1,144	1,443	1,570
— Secondary School Leavers	-	-	-	-	-	-	-	-	-	-	1,271
Scoliosis	-	-	-	33	61	78	127	331	587	477	538
Phimosis	-	585	720	939	658	462	434	444	493	514	489
Ear Wax ¹	-	23	68	182	217	46	93	83	16	171	384
	Per 10,000 Females Examined										
Defective Vision	3,439	3,433	3,851	3,779	4,158	3,558	3,747	3,773	4,409	4,514	3,998
Obesity — Primary School Entrants	-	-	-	386	195	181	239	555	650	761	973
— Primary School Leavers	-	-	-	572	799	944	952	757	716	930	1,023
— Secondary School Leavers	-	-	-	556	864	916	1,442	1,019	971	1,047	1,106
Scoliosis	-	-	-	67	177	278	529	622	937	852	791
Ear Wax ¹	-	60	106	204	164	123	70	62	12	179	469
Murmurs	-	206	198	210	190	193	373	138	201	147	147

1 Better pick-up rate in 1987 due to more detailed examination of ear with otoscope.

Source : Ministry of Health

16.14 FAMILY PLANNING

Number

Year	Visits to Government Family Planning Clinics							Sterilization		
	Total	First Visit			Re-visits			Total	Female Sterilization ¹	Vasectomy
		Contraceptive Pill	Condom	Others	Contraceptive Pill	Condom	Others			
1977	339,965	7,503	8,354	301	212,152	94,598	17,057	7,986	7,635	351
1978	308,769	6,229	8,730	233	186,829	90,010	16,738	7,245	6,905	340
1979	283,954	5,779	9,180	307	164,827	88,032	15,829	6,620	6,125	495
1980	269,294	5,539	9,166	304	152,557	85,740	15,988	6,266	5,808	458
1981	250,075	5,068	9,165	301	136,611	83,420	15,510	6,014	5,528	486
1982	235,709	4,873	9,418	360	123,600	82,932	14,526	5,637	5,143	494
1983	223,807	4,509	8,828	404	115,758	79,931	14,377	5,198	4,742	456
1984	207,214	4,162	7,876	443	107,172	74,274	13,287	5,786	5,417	369
1985	195,263	4,102	8,124	460	99,546	69,537	13,494	5,490	5,233	257
1986	188,291	3,692	7,233	535	94,173	68,574	14,084	4,768	4,504	264
1987	153,827	2,760	5,156	657	75,229	57,259	12,766	3,652	3,524	128

¹ Figures exclude hysterectomy.

Source : Ministry of Health

16.15 BLOOD DONATIONS AND TRANSFUSIONS

Year	Donors	Blood Donations	Transfusions Given							
			Total	Singapore General Hospital	Tan Tock Seng Hospital	Alexandra Hospital	Toa Payoh Hospital	Kandang Kerbau Hospital	Other Government Hospitals	Private Hospitals
	Persons		Number of Units ¹							
1977	33,948	48,390	44,261	17,428	7,427	3,522	6,573	6,231	458	2,622
1978	40,349	56,670	44,969	16,290	9,744	4,225	6,566	5,623	417	2,104
1979	35,384	51,897	45,261	16,937	11,030	4,626	5,333	4,787	475	2,073
1980	36,276	53,813	46,729	16,637	11,004	4,762	5,113	4,409	623	4,181
1981	36,526	55,038	49,059	18,006	10,585	5,369	4,817	4,270	1,024	4,988
1982	39,448	59,711	53,408	20,789	10,421	5,930	5,489	4,557	756	5,466
1983	38,808	59,474	52,507	19,728	10,378	5,538	4,954	5,432	839	5,638
1984	38,350	58,018	54,421	21,826	9,926	6,312	4,575	4,655	788	6,339
1985	39,772	59,308	52,411	21,937	8,645	5,560	4,529	4,386	536	6,818
1986	42,337	61,990	56,045	22,731	8,570	4,798	4,538	4,133	605	10,670
1987	39,654	59,985	53,658	21,535	8,666	4,387	4,407	3,117	507	11,039

1. One unit of blood is approximately 430 millilitres.

Source : Ministry of Health

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 of the channels from 6am 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 now the sale and marketing of TV and radio air time as well as the production of video commercials 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 6am 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 full-time branch libraries in Marine Parade, Queenstown, Toa Payoh, Ang Mo Kio, Bedok and Bukit Merah; and two mobile library vehicles providing weekly services to seven community centres. Two full-time branch libraries in Geylang East and Jurong East will be opened in 1988.

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, that is, slides, cassette tapes, video cassettes, 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 and loan services.

17.1 RADIO AND TELEVISION LICENCES AND REDIFFUSION SUBSCRIBERS

Num

End of Year	Radio Licences	Radio & Television Licences	Rediffusion Subscribers
1977	58,357	329,119	90,428
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

Source : Singapore Broadcasting Corporation
Rediffusion (Singapore) Pte Ltd

17.2 RADIO AND TELEVISION TRANSMISSION

Hours Per Week

Year	Radio						Television
	Total	AM/FM				FM Stereo	
		Malay	Chinese	Tamil	English		
1977	560	126	147	105	126	56	104.0
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

Source : Singapore Broadcasting Corporation

17.3 CINEMAS

Year	Cinemas			Total Seating Capacity	Attendances
	Total	Air Conditioned	Others		
	Number			Thousand	
1977	72	54	18	65	43,049
1978	72	56	16	67	44,676
1979	74	60	14	69	46,064
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

Source : Customs & Excise Department

17.4 NATIONAL LIBRARY MEMBERSHIP

Number

Year	Total	Persons Aged 12 Years & Over ¹	Children Under 12 Years ²
1977	341,288	162,850	178,438
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

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

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

Source : Singapore National Library

17.5 BOOK COLLECTIONS AT THE NATIONAL LIBRARY

N

Year	Total	Malay	Chinese	Tamil	English
1977	1,062,133	138,669	311,262	72,210	539,992
1978	1,138,803	143,247	329,959	72,592	593,005
1979	1,232,262	158,428	354,568	72,657	646,609
1980	1,352,276	169,530	390,491	73,314	718,941
1981	1,430,753	181,948	409,401	69,801	769,603
1982	1,601,680	202,528	447,000	66,806	885,346
1983	1,771,412	232,902	493,884	78,576	966,050
1984	2,162,231	263,118	615,236	87,589	1,196,288
1985	2,322,242	282,015	661,109	88,594	1,290,524
1986	2,541,556	304,274	701,125	83,675	1,452,482
1987	2,671,796	307,737	732,467	86,200	1,545,392

Source : Singapore National Library

17.6 LOANS OF BOOKS AT THE NATIONAL LIBRARY

Number

Year	Total	Adults and Young People	Children
1977	2,732,081	1,298,512	1,433,569
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

Source : Singapore National Library

17.7 DAILY NEWSPAPER CIRCULATION

Number

Year	Total	English	Chinese	Malay	Indian
1977	501,541	220,105	245,882	27,780	7,774
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	700,925	292,721	360,691	42,041	5,472

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