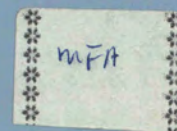


S68-Z00001



# YEARBOOK OF STATISTICS SINGAPORE 1992



DEPARTMENT OF STATISTICS  
SINGAPORE

## PREFACE

Extra  
RECEIVED

- 7 MAR 1992

LEGAL DEPOSIT  
NATIONAL LIBRARY BOARD  
SINGAPORE

The Yearbook of Statistics, Singapore, 1992 is the twenty-sixth edition published by the Department of Statistics. This Yearbook puts together important statistical series on the demographic, economic and social characteristics of Singapore and relevant statistical charts highlighting socio-economic trends. Annual series for eleven years are included wherever available to facilitate time series analysis.

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

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

**DR PAUL CHEUNG**  
CHIEF STATISTICIAN  
DEPARTMENT OF STATISTICS  
SINGAPORE

NATIONAL LIBRARY BOARD



B20911489A



|      |                                                                                |      |
|------|--------------------------------------------------------------------------------|------|
| 2.14 | Average Age at Marriage and Birth, 1983-1985                                   | 2.14 |
| 2.13 | Marriages by Age Group and Birth, 1983-1985                                    | 2.13 |
| 2.12 | Marriages by Ethnic Group and Birth, 1983-1985                                 | 2.12 |
| 2.11 | Deaths by Group of Cause, 1983-1985                                            | 2.11 |
| 2.10 | Male and Female Deaths by Cause, 1983-1985                                     | 2.10 |
| 2.09 | Live-births by Race of Occurrence, 1983-1985                                   | 2.09 |
| 2.08 | Live-births by Birth Order, 1983-1985                                          | 2.08 |
| 2.07 | Age Specific and Total Fertility Rates, 1983-1985                              | 2.07 |
| 2.06 | Vital Statistics, 1983-1985                                                    | 2.06 |
| 2.05 | Estimates of Singapore Residents by Age Group, Ethnic Group and Sex, 1983-1985 | 2.05 |
| 2.04 | Estimates of Singapore Residents (Female) by Age Group, 1983-1985              | 2.04 |
| 2.03 | Estimates of Singapore Residents (Male) by Age Group, 1983-1985                | 2.03 |
| 2.02 | Average Monthly Earnings by Ethnicity, 1983-1985                               | 2.02 |
| 2.01 | Changes in Productivity by Industry, 1983-1985                                 | 2.01 |
| 1.99 | Employed Persons Aged 15 Years and Over, 1983-1985                             | 1.99 |
| 1.98 | Employed Persons Aged 15 Years and Over by Sex, 1983-1985                      | 1.98 |
| 1.97 | Employed Persons Aged 15 Years and Over by Ethnicity, 1983-1985                | 1.97 |
| 1.96 | Weather Condition, 1983-1985                                                   | 1.96 |
| 1.95 | Land Use, 1983-1985                                                            | 1.95 |
| 1.94 | Atmospheric Environment and Land Use                                           | 1.94 |
| 1.93 | Labour Force, 1983-1985                                                        | 1.93 |
| 1.92 | Employment, Productivity Movement and Training                                 | 1.92 |
| 1.91 | Demography                                                                     | 1.91 |
| 1.90 | Population, 1983-1985                                                          | 1.90 |
| 1.89 | Age Specific Marriage Rates, 1983-1985                                         | 1.89 |
| 1.88 | Diagnosis by Ethnic Group of Couple, 1983-1985                                 | 1.88 |
| 1.87 | Diagnosis by Age Group and Sex, 1983-1985                                      | 1.87 |
| 1.86 | Economic Indicators I-V, 1983-1985                                             | 1.86 |
| 1.85 | Social Indicators I-V, 1983-1985                                               | 1.85 |

CONTENTS

# CONTENTS

|                                                                                            | Page               |
|--------------------------------------------------------------------------------------------|--------------------|
| <b>Key Indicators</b>                                                                      | <b>1 - 18</b>      |
| Economic Indicators I-VI, 1982-1992 .. .. .                                                | 2 - 13             |
| Social Indicators I-V, 1982-1992 .. .. .                                                   | 14 - 18            |
| <br><b>Climate, Atmospheric Environment and Land Use</b>                                   | <br><b>19 - 24</b> |
| 1.1 Weather condition, 1982-1992 .. .. .                                                   | 22                 |
| 1.2 Air Pollution Levels, 1982-1992 .. .. .                                                | 23                 |
| 1.3 Land Use, 1982-1992 .. .. .                                                            | 24                 |
| <br><b>Demography</b>                                                                      | <br><b>25 - 46</b> |
| 2.1 Population, 1901..., 1982-1992 .. .. .                                                 | 29                 |
| 2.2 Estimates of Singapore Residents (Males) by Age Group, 1982-1992 .. .. .               | 30                 |
| 2.3 Estimates of Singapore Residents (Females) by Age Group, 1982-1992 .. .. .             | 31                 |
| 2.4 Estimates of Singapore Residents by Age Group, Ethnic Group and Sex, End June 1992     | 32                 |
| 2.5 Vital Statistics, 1982-1992 .. .. .                                                    | 33                 |
| 2.6 Age Specific and Total Fertility Rates, Gross and Net Reproduction Rates, 1982-1992 .. | 34                 |
| 2.7 Live-births by Birth Order, 1982-1992 .. .. .                                          | 35                 |
| 2.8 Live-births by Place of Occurrence, 1982-1992 .. .. .                                  | 36                 |
| 2.9 Male and Female Age Specific Death Rates, 1987-1992 .. .. .                            | 37                 |
| 2.10 Deaths by Broad Groups of Causes, 1982-1992 .. .. .                                   | 38                 |
| 2.11 Resident Population Aged 60 Years and Over, 1982-1992 .. .. .                         | 39                 |
| 2.12 Marriages Registered by Ethnic Group of Couple, 1982-1992 .. .. .                     | 40                 |
| 2.13 Marriages by Age Group of Grooms and Brides, 1990-1992 .. .. .                        | 41                 |
| 2.14 Average Age at Marriage of Grooms and Brides, 1982-1992 .. .. .                       | 42                 |



**Demography (continued)**

|      |                                                            |    |
|------|------------------------------------------------------------|----|
| 2.15 | Age Specific Marriage Rates, 1970, 1980, 1985-1992 .. .. . | 43 |
| 2.16 | Divorces by Ethnic Group of Couple, 1985-1992 .. .. .      | 44 |
| 2.17 | Divorcees by Age Group and Sex, 1990-1992 .. .. .          | 45 |

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

|      |                                                                                                  |    |
|------|--------------------------------------------------------------------------------------------------|----|
| 3.1  | Labour Force, 1982-1992 .. .. .                                                                  | 53 |
| 3.2  | Age-Sex Specific Labour Force Participation Rates, 1982 and 1989-1992 .. .. .                    | 54 |
| 3.3  | Employed Persons Aged 15 Years and Over by Industry, 1982-1992 .. .. .                           | 55 |
| 3.4  | Employed Persons Aged 15 Years and Over by Occupation, 1982-1992 .. .. .                         | 56 |
| 3.5  | Employed Persons Aged 15 Years and Over by Industry and Occupational Status, 1992 .. .. .        | 57 |
| 3.6  | Employed Persons Aged 15 Years and Over by Industry and Occupation, 1992 .. .. .                 | 58 |
| 3.7  | Government Employees by Divisional Status, 1982-1992 .. .. .                                     | 59 |
| 3.8  | Changes in Productivity by Industry, 1982-1992 .. .. .                                           | 60 |
| 3.9  | Average Monthly Earnings by Industry, 1982-1992 .. .. .                                          | 61 |
| 3.10 | Average Basic and Gross Wages by Occupation, 1992 .. .. .                                        | 62 |
| 3.11 | Average Weekly Hours Worked by Industry, 1982-1992 .. .. .                                       | 63 |
| 3.12 | Employment Service, 1982-1992 .. .. .                                                            | 64 |
| 3.13 | Central Provident Fund Contributors by Age Group, 1982-1992 .. .. .                              | 65 |
| 3.14 | Central Provident Fund Contributors by Wage Level, 1982-1992 .. .. .                             | 66 |
| 3.15 | Central Provident Fund Contributors by Industry, 1982-1992 .. .. .                               | 67 |
| 3.16 | Central Provident Fund Members by Age Group, 1982-1992 .. .. .                                   | 68 |
| 3.17 | Participants in Courses and Seminars Conducted by National Productivity Board, 1987-1992 .. .. . | 69 |
| 3.18 | Quality Control Circles, 1983-1992 .. .. .                                                       | 70 |
| 3.19 | Trade Unions and Membership, 1982-1992 .. .. .                                                   | 71 |

## 75 - 91

**National Income, Balance of Payments and Foreign Equity Investment**

|      |                                                               |    |    |    |    |    |
|------|---------------------------------------------------------------|----|----|----|----|----|
| 4.1  | Indigenous Gross National Product, 1982-1992                  | .. | .. | .. | .. | 79 |
| 4.2  | Output, Saving and Investment, 1982-1992                      | .. | .. | .. | .. | 80 |
| 4.3  | Gross Domestic Product by Industry, 1982-1992                 | .. | .. | .. | .. | 81 |
| 4.4  | Gross Domestic Product Deflators by Industry, 1982-1992       | .. | .. | .. | .. | 82 |
| 4.5  | Expenditure on Gross Domestic Product, 1982-1992              | .. | .. | .. | .. | 83 |
| 4.6  | Deflators of Expenditure on Gross Domestic Product, 1982-1992 | .. | .. | .. | .. | 84 |
| 4.7  | Private Consumption Expenditure, 1982-1992                    | .. | .. | .. | .. | 85 |
| 4.8  | Gross Fixed Capital Formation, 1982-1992                      | .. | .. | .. | .. | 86 |
| 4.9  | Balance of Payments, 1982-1992                                | .. | .. | .. | .. | 87 |
| 4.10 | Foreign Equity Investment in Singapore by Industry, 1980-1990 | .. | .. | .. | .. | 88 |
| 4.11 | Foreign Equity Investment in Singapore by Country, 1980-1990  | .. | .. | .. | .. | 89 |

## 93 - 98

**Agriculture, Livestock and Fisheries**

|     |                                          |    |    |    |    |    |
|-----|------------------------------------------|----|----|----|----|----|
| 5.1 | Production of Principal Crops, 1982-1992 | .. | .. | .. | .. | 96 |
| 5.2 | Livestock Slaughtered, 1982-1992         | .. | .. | .. | .. | 97 |
| 5.3 | Fish Supply and Auction, 1982-1992       | .. | .. | .. | .. | 98 |

## 99 - 125

**Manufacturing**

|     |                                                                           |    |    |    |    |           |
|-----|---------------------------------------------------------------------------|----|----|----|----|-----------|
| 6.1 | Principal Manufacturing Statistics, 1982-1992                             | .. | .. | .. | .. | 102       |
| 6.2 | Selected Averages and Ratios in the Manufacturing Sector, 1982-1992       | .. | .. | .. | .. | 103       |
| 6.3 | Manufacturing Establishments by Industry, 1982-1992                       | .. | .. | .. | .. | 104 - 105 |
| 6.4 | Manufacturing Output by Industry, 1982-1992                               | .. | .. | .. | .. | 106 - 107 |
| 6.5 | Census Value Added of Manufacturing Establishments by Industry, 1982-1992 | .. | .. | .. | .. | 108 - 109 |
| 6.6 | Workers in Manufacturing by Industry, 1982-1992                           | .. | .. | .. | .. | 110 - 111 |
| 6.7 | Remuneration in Manufacturing by Industry, 1982-1992                      | .. | .. | .. | .. | 112 - 113 |
| 6.8 | Value of Output of Selected Manufactured Products, 1981-1991              | .. | .. | .. | .. | 114       |



**Manufacturing (continued)**

|      |                                                                                               |    |    |    |    |           |
|------|-----------------------------------------------------------------------------------------------|----|----|----|----|-----------|
| 6.9  | Quarterly Index of Industrial Production, 1991 and 1992                                       | .. | .. | .. | .. | 115 - 116 |
| 6.10 | Annual Index of Industrial Production, 1986-1992                                              | .. | .. | .. | .. | 117 - 118 |
| 6.11 | Net Investment Commitments in Manufacturing by Industry, 1982-1992                            | .. | .. | .. | .. | 119       |
| 6.12 | Net Investment Commitments in Manufacturing by Country of Origin, 1982-1992                   | .. | .. | .. | .. | 120       |
| 6.13 | Principal Statistics of Pioneer Manufacturing Establishments, 1981-1991                       | .. | .. | .. | .. | 121       |
| 6.14 | Principal Statistics of Pioneer Manufacturing Establishments by Industry Group, December 1991 | .. | .. | .. | .. | 122       |
| 6.15 | Indices of Unit Labour Cost and Unit Business Cost, 1982-1992                                 | .. | .. | .. | .. | 123       |

**Electricity, Water and Gas Supply**

127 - 132

|     |                                             |    |    |    |    |     |
|-----|---------------------------------------------|----|----|----|----|-----|
| 7.1 | Electricity Generation and Sales, 1982-1992 | .. | .. | .. | .. | 130 |
| 7.2 | Water Treatment and Sales, 1982-1992        | .. | .. | .. | .. | 131 |
| 7.3 | Gas Production and Sales, 1982-1992         | .. | .. | .. | .. | 132 |

**Building Construction and Housing**

133 - 154

|      |                                                                                               |    |    |    |    |     |
|------|-----------------------------------------------------------------------------------------------|----|----|----|----|-----|
| 8.1  | Planning Approvals, 1982-1992                                                                 | .. | .. | .. | .. | 136 |
| 8.2  | Commencement of Building Construction, 1982-1992                                              | .. | .. | .. | .. | 137 |
| 8.3  | Construction Projects Completed, 1982-1992                                                    | .. | .. | .. | .. | 138 |
| 8.4  | Planning Approvals by Type of Development, 1982-1992                                          | .. | .. | .. | .. | 139 |
| 8.5  | Planning Approvals by Type of Development in the Public Sector, 1982-1992                     | .. | .. | .. | .. | 140 |
| 8.6  | Planning Approvals by Type of Development in the Private Sector, 1982-1992                    | .. | .. | .. | .. | 141 |
| 8.7  | Commencement of Building Construction by Type of Development, 1982-1992                       | .. | .. | .. | .. | 142 |
| 8.8  | Commencement of Building Construction by Type of Development in the Public Sector, 1982-1992  | .. | .. | .. | .. | 143 |
| 8.9  | Commencement of Building Construction by Type of Development in the Private Sector, 1982-1992 | .. | .. | .. | .. | 144 |
| 8.10 | Construction Projects Completed by Type of Development, 1982-1992                             | .. | .. | .. | .. | 145 |

**Building Construction and Housing (continued)**

|      |                                                                                                 |     |
|------|-------------------------------------------------------------------------------------------------|-----|
| 8.11 | Public Sector Construction Projects Completed by Type of Development, 1982-1992 ..              | 146 |
| 8.12 | Private Sector Construction Projects Completed by Type of Development, 1982-1992 ..             | 147 |
| 8.13 | Building Plan Approvals by Type of Development in the Private Sector, 1982-1992 ..              | 148 |
| 8.14 | Residential Units in the Public Sector by Type of Building and Stage of Development, 1982-1992  | 149 |
| 8.15 | Residential Units in the Private Sector by Type of Building and Stage of Development, 1982-1992 | 150 |
| 8.16 | Properties Under the Management of Housing and Development Board, 1982-1992 ..                  | 151 |
| 8.17 | Residential Units Constructed and Sold by Housing and Development Board, 1982-1992              | 152 |
| 8.18 | Contracts Awarded by Sector and Type of Work, 1982-1992 .. .. .                                 | 153 |
| 8.19 | Progress Payments Certified by Sector and Type of Work, 1982-1992 .. .. .                       | 154 |

**Commerce and Services****155 - 165**

|     |                                                                            |     |
|-----|----------------------------------------------------------------------------|-----|
| 9.1 | Principal Statistics of the Commerce Sector by Industry, 1986-1990 .. .. . | 159 |
| 9.2 | Selected Averages and Ratios in the Commerce Sector, 1986-1990 .. .. .     | 160 |
| 9.3 | Principal Statistics of the Services Sector by Industry, 1986-1990 .. .. . | 161 |
| 9.4 | Selected Averages and Ratios in the Services Sector, 1986-1990 .. .. .     | 162 |
| 9.5 | Retail Sales Index, 1985-1992 .. .. .                                      | 163 |
| 9.6 | Sales Index of Catering Trade, 1985-1992 .. .. .                           | 164 |

**External Trade****167 - 186**

|       |                                                     |           |
|-------|-----------------------------------------------------|-----------|
| 10.1  | External Trade by Type, 1982-1992 .. .. .           | 171       |
| 10.2  | Total Trade by Country/Area, 1982-1992 .. .. .      | 172       |
| 10.3  | Imports by Country/Area, 1982-1992 .. .. .          | 173       |
| 10.4  | Exports by Country/Area, 1982-1992 .. .. .          | 174       |
| 10.5  | Domestic Exports by Country/Area, 1982-1992 .. .. . | 175       |
| 10.6  | Imports by Commodity, 1982-1992 .. .. .             | 176       |
| 10.7  | Exports by Commodity, 1982-1992 .. .. .             | 177       |
| 10.8  | Domestic Exports by Commodity, 1982-1992 .. .. .    | 178       |
| 10.9  | Imports of Specific Commodities, 1982-1992 .. .. .  | 179 - 181 |
| 10.10 | Exports of Specific Commodities, 1982-1992 .. .. .  | 182 - 184 |



**Transport, Communications and Tourism****187 - 216**

|       |                                                                                                     |     |
|-------|-----------------------------------------------------------------------------------------------------|-----|
| 11.1  | Vessels Registered in Singapore, 1987-1992                                                          | 190 |
| 11.2  | Age Distribution of Vessels Registered in Singapore, December 1992                                  | 190 |
| 11.3  | Vessels Licensed in Singapore, 1982-1992                                                            | 191 |
| 11.4  | Vessel Arrivals and Departures, 1982-1992                                                           | 192 |
| 11.5  | Vessel Arrivals by Flag, 1991 & 1992                                                                | 193 |
| 11.6  | Sea Cargo Handled, 1982-1992                                                                        | 194 |
| 11.7  | Containerised Cargo Handled by Country/Area, 1989-1992                                              | 195 |
| 11.8  | Mineral Oil Handled by Country/Area, 1989-1992                                                      | 196 |
| 11.9  | Civil Aircraft Landings, Passengers and Parcel Mail, 1982-1992                                      | 197 |
| 11.10 | Air Cargo Discharged and Loaded by Region and Selected Country of Origin and Destination, 1987-1992 | 198 |
| 11.11 | Air Passengers by Region and Selected Country of Embarkation and Disembarkation, 1987-1992          | 199 |
| 11.12 | Visitor Arrivals by Region and Selected Country of Residence, 1982-1992                             | 200 |
| 11.13 | Visitor Arrivals by Nationality, 1982-1992                                                          | 201 |
| 11.14 | Visitor Arrivals by a) Sex and b) Age Group, 1982-1992                                              | 202 |
| 11.15 | Visitor Arrivals by a) Purpose of Visit and b) Type of Accommodation, 1982-1992                     | 203 |
| 11.16 | Visitor Arrivals by Length of Stay, 1982-1992                                                       | 204 |
| 11.17 | Visitor Arrivals, Hotels and Cess Collection, 1982-1992                                             | 205 |
| 11.18 | Public Roads, 1982-1992                                                                             | 206 |
| 11.19 | Motor Vehicle Population, 1982-1992                                                                 | 207 |
| 11.20 | Road Casualties, 1982-1992                                                                          | 208 |
| 11.21 | Vehicles Involved in Road Accidents by Type of Vehicle, 1982-1992                                   | 209 |
| 11.22 | Postal Articles Handled, 1982-1992                                                                  | 210 |
| 11.23 | Telecommunications, 1982-1992                                                                       | 211 |

**Banking, Finance and Insurance****217 - 246**

|       |                                                                        |    |    |    |    |    |    |    |     |
|-------|------------------------------------------------------------------------|----|----|----|----|----|----|----|-----|
| 12.1  | Currency in Circulation, 1982-1992                                     | .. | .. | .. | .. | .. | .. | .. | 220 |
| 12.2  | Money Supply, 1982-1992                                                | .. | .. | .. | .. | .. | .. | .. | 221 |
| 12.3  | Changes in Money Supply and Underlying Factors, 1982-1992              | .. | .. | .. | .. | .. | .. | .. | 222 |
| 12.4  | Official Foreign Reserves, 1982-1992                                   | .. | .. | .. | .. | .. | .. | .. | 223 |
| 12.5  | Exchange Rates, 1982-1992                                              | .. | .. | .. | .. | .. | .. | .. | 224 |
| 12.6  | Assets of Banks, 1982-1992                                             | .. | .. | .. | .. | .. | .. | .. | 225 |
| 12.7  | Liabilities of Banks, 1982-1992                                        | .. | .. | .. | .. | .. | .. | .. | 226 |
| 12.8  | Banks' Loans and Advances to Non-bank Customers by Industry, 1982-1992 | .. | .. | .. | .. | .. | .. | .. | 227 |
| 12.9  | Assets and Liabilities of Asian Currency Units, 1982-1992              | .. | .. | .. | .. | .. | .. | .. | 228 |
| 12.10 | Assets and Liabilities of Finance Companies, 1982-1992                 | .. | .. | .. | .. | .. | .. | .. | 229 |
| 12.11 | Finance Companies' Loans and Advances by Industry, 1982-1992           | .. | .. | .. | .. | .. | .. | .. | 230 |
| 12.12 | Assets and Liabilities of Merchant Banks, 1982-1992                    | .. | .. | .. | .. | .. | .. | .. | 231 |
| 12.13 | Domestic Interest Rates, 1982-1992                                     | .. | .. | .. | .. | .. | .. | .. | 232 |
| 12.14 | Number of Accounts and Deposits of Post Office Savings Bank, 1982-1992 | .. | .. | .. | .. | .. | .. | .. | 233 |
| 12.15 | Contributions and Withdrawals of Central Provident Fund, 1982-1992     | .. | .. | .. | .. | .. | .. | .. | 233 |
| 12.16 | Withdrawals of Central Provident Fund by Type, 1982-1992               | .. | .. | .. | .. | .. | .. | .. | 234 |
| 12.17 | Turnover of Stocks and Shares, 1982-1992                               | .. | .. | .. | .. | .. | .. | .. | 235 |
| 12.18 | Stock Exchange of Singapore Indices, 1982-1992                         | .. | .. | .. | .. | .. | .. | .. | 236 |
| 12.19 | Pledges at Pawnshops, 1982-1992                                        | .. | .. | .. | .. | .. | .. | .. | 237 |
| 12.20 | Life Insurance Policies, 1981-1991                                     | .. | .. | .. | .. | .. | .. | .. | 238 |
| 12.21 | Revenue and Expenditure Accounts of Life Insurance Funds, 1981-1991    | .. | .. | .. | .. | .. | .. | .. | 239 |
| 12.22 | Assets of Life Insurance Funds, 1981-1991                              | .. | .. | .. | .. | .. | .. | .. | 240 |
| 12.23 | Premiums and Claims of General Insurance Funds, 1981-1991              | .. | .. | .. | .. | .. | .. | .. | 241 |
| 12.24 | Revenue and Expenditure Accounts of General Insurance Funds, 1981-1991 | .. | .. | .. | .. | .. | .. | .. | 242 |
| 12.25 | Assets of General Insurance Funds, 1981-1991                           | .. | .. | .. | .. | .. | .. | .. | 243 |



|                                                                                                            |                  |
|------------------------------------------------------------------------------------------------------------|------------------|
| <b>Public Finance</b>                                                                                      | <b>247 - 259</b> |
| 13.1 Government Operating Revenue, 1989-1992 .. .. .                                                       | 250              |
| 13.2 Government Operating Expenditure, 1989-1992 .. .. .                                                   | 251              |
| 13.3 Government Development Expenditure, 1989-1992 .. .. .                                                 | 252              |
| 13.4 Sources and Uses of Development Fund, 1982/83-1992/93 .. .. .                                         | 253              |
| 13.5 Government Debt, 1982-1992 .. .. .                                                                    | 254              |
| 13.6 Revenue Collected by Customs and Excise Department, 1982-1992 .. .. .                                 | 255              |
| 13.7 Revenue Collected by Inland Revenue Authority, 1982-1992 .. .. .                                      | 256              |
| 13.8 Taxpayers, Assessed Income and Gross Tax Assessed, 1990 and 1991 .. .. .                              | 257              |
| 13.9 Assessed Income and Gross Tax Assessed on Individuals by Assessed Income Group, 1990 and 1991 .. .. . | 258              |
| 13.10 Assessed Income and Gross Tax Assessed on Companies by Assessed Income Group, 1990 and 1991 .. .. .  | 259              |
| <b>Prices</b>                                                                                              | <b>261 - 281</b> |
| 14.1 Consumer Price Index, 1982-1992 .. .. .                                                               | 264              |
| 14.2 Price Indices of Selected Consumer Items, 1982-1992 .. .. .                                           | 265              |
| 14.3 Retail Prices of Selected Foodstuffs, 1982-1992 .. .. .                                               | 266 - 268        |
| 14.4 Domestic Supply Price Index, 1986-1992 .. .. .                                                        | 269 - 270        |
| 14.5 Singapore Manufactured Products Price Index, 1986-1992 .. .. .                                        | 271 - 272        |
| 14.6 Import Price Index, 1986-1992 .. .. .                                                                 | 273 - 274        |
| 14.7 Export Price Index, 1986-1992 .. .. .                                                                 | 275 - 276        |
| 14.8 Building Materials Price Index, 1982-1992 .. .. .                                                     | 277              |
| 14.9 Price Indices of Selected Farm Products, 1982-1992 .. .. .                                            | 278              |
| 14.10 Property Price Index by Type of Property, 1982-1992 .. .. .                                          | 279              |
| 14.11 Produce Prices, 1982-1992 .. .. .                                                                    | 280              |
| <b>Education</b>                                                                                           | <b>283 - 311</b> |
| 15.1 Enrolment in Educational Institutions, 1982-1992 .. .. .                                              | 288              |
| 15.2 Students and Teachers in Educational Institutions, End June 1992 .. .. .                              | 289              |
| 15.3 Primary Schools, Students and Teachers by Type of School, 1982-1992 .. .. .                           | 290              |

## Education (continued)

| Education (continued) |                                                                                                   |    |    |    |    |    |    |           |  |
|-----------------------|---------------------------------------------------------------------------------------------------|----|----|----|----|----|----|-----------|--|
| 15.4                  | Enrolment in Government and Government-Aided Primary Schools<br>by Level and Age, End June 1992   | .. | .. | .. | .. | .. | .. | 291 - 292 |  |
| 15.5                  | Secondary Schools, Students and Teachers by Type of School, 1982-1992                             | .. | .. |    |    |    |    | 293       |  |
| 15.6                  | Enrolment in Government and Government-Aided Secondary Schools<br>by Level and Age, End June 1992 | .. | .. | .. | .. | .. | .. | 294 - 295 |  |
| 15.7                  | Enrolment at Primary Levels in Private Regular Schools<br>by Level and Age, End June 1992         | .. | .. | .. | .. | .. | .. | 296       |  |
| 15.8                  | Enrolment at Secondary Levels in Private Regular Schools<br>by Level and Age, End June 1992       | .. | .. | .. | .. | .. | .. | 297       |  |
| 15.9                  | Enrolment in Institutions of Higher Learning, 1982-1992                                           | .. | .. | .. | .. | .. | .. | 298 - 299 |  |
| 15.10                 | Male Students Admitted to Institutions of Higher Learning, 1982/83-1992/93                        | .. | .. |    |    |    |    | 300 - 301 |  |
| 15.11                 | Female Students Admitted to Institutions of Higher Learning, 1982/83-1992/93                      | .. | .. |    |    |    |    | 302 - 303 |  |
| 15.12                 | Male Graduates from Institutions of Higher Learning, 1981/82-1991/92                              | .. | .. |    |    |    |    | 304 - 305 |  |
| 15.13                 | Female Graduates from Institutions of Higher Learning, 1981/82-1991/92                            | .. | .. |    |    |    |    | 306 - 307 |  |
| 15.14                 | Intake of Trainees of Institute of Technical Education, 1988-1992                                 | .. | .. |    |    |    |    | 308 - 309 |  |
| 15.15                 | Trainees who Completed Training at Institute of Technical Education, 1988-1992                    | .. | .. |    |    |    |    | 310       |  |
| 15.16                 | Government Expenditure on Education, 1982/83-1992/93                                              | .. | .. | .. | .. | .. | .. | 311       |  |

## Health and Medical Care

|       |                                                                         |    |    |    |    |    |     |
|-------|-------------------------------------------------------------------------|----|----|----|----|----|-----|
| 16.1  | Hospitals and Government Clinics, 1982-1992                             | .. | .. | .. | .. | .. | 316 |
| 16.2  | Registered Health Personnel, 1982-1992                                  | .. | .. | .. | .. | .. | 317 |
| 16.3  | Beds in Public Sector Hospitals, 1982-1992                              | .. | .. | .. | .. | .. | 318 |
| 16.4  | Beds in Private Sector Hospitals, 1982-1992                             | .. | .. | .. | .. | .. | 319 |
| 16.5  | Admissions to Public Sector Hospitals, 1982-1992                        | .. | .. | .. | .. | .. | 320 |
| 16.6  | Hospital Admissions and Public Sector Outpatient Attendances, 1982-1992 | .. | .. | .. | .. | .. | 321 |
| 16.7  | Visits to Government Dental Clinics, 1982-1992                          | .. | .. | .. | .. | .. | 322 |
| 16.8  | Notifications of Specific Notifiable Diseases, 1982-1992                | .. | .. | .. | .. | .. | 323 |
| 16.9  | Immunization Coverage by Public and Private Sectors, 1982-1992          | .. | .. | .. | .. | .. | 324 |
| 16.10 | Vaccination and Immunization of School Children, 1982-1992              | .. | .. | .. | .. | .. | 325 |
| 16.11 | Student Medical Check-up, 1982-1992                                     | .. | .. | .. | .. | .. | 326 |
| 16.12 | Common Defects of Students Examined, 1982-1992                          | .. | .. | .. | .. | .. | 327 |
| 16.13 | Blood Donations and Transfusions, 1982-1992                             | .. | .. | .. | .. | .. | 328 |



**Hawkers and Food Establishments****329 - 333**

|      |                                                                                     |     |
|------|-------------------------------------------------------------------------------------|-----|
| 17.1 | Licensed Hawkers by a) Type of Premises and b) Type of Goods Sold, 1982-1992 ..     | 331 |
| 17.2 | Licensed Hawkers by a) Management Authority and b) Type of Goods Sold, 1982-1992 .. | 332 |
| 17.3 | Licensed Food Establishments, 1982-1992 .. .. .                                     | 333 |

**Community Services****335 - 343**

|      |                                                                                     |     |
|------|-------------------------------------------------------------------------------------|-----|
| 18.1 | Grassroots Organisations, 1982-1992 .. .. .                                         | 338 |
| 18.2 | Volunteers by Volunteer Group and Type of Service, 1982-1992 .. .. .                | 339 |
| 18.3 | Enrolment in Child Care Centres by Type of Programme and Organisation, 1982-1992 .. | 340 |
| 18.4 | Public Assistance Recipients by Category, 1983-1992 .. .. .                         | 341 |
| 18.5 | Residents in Old Folks' Homes by Type of Organisation and Sex, 1984-1992 .. .. .    | 342 |

**Culture and Recreation****345 - 358**

|       |                                                                                |     |
|-------|--------------------------------------------------------------------------------|-----|
| 19.1  | Radio and Television Licences and Rediffusion Subscribers, 1982-1992 .. .. .   | 349 |
| 19.2  | Radio and Television Transmission, 1982-1992 .. .. .                           | 350 |
| 19.3  | Cinemas, 1982-1992 .. .. .                                                     | 351 |
| 19.4  | National Library Membership, 1982-1992 .. .. .                                 | 352 |
| 19.5  | Book Collections at the National Library, 1982-1992 .. .. .                    | 353 |
| 19.6  | Loans of Books at the National Library, 1982-1992 .. .. .                      | 354 |
| 19.7  | Daily Newspaper Circulation, 1982-1992 .. .. .                                 | 355 |
| 19.8  | Visitors to Places of Interest, 1982-1992 .. .. .                              | 356 |
| 19.9  | Utilisation of Sports Facilities, 1982-1992 .. .. .                            | 357 |
| 19.10 | Sports and Cultural Courses Conducted by Community Centres/Clubs, 1982-1992 .. | 358 |

**Miscellaneous****359 - 361**

|      |                                                                   |     |
|------|-------------------------------------------------------------------|-----|
| 20.1 | Fire Occurrences and Value of Property Damaged, 1982-1992 .. .. . | 361 |
|------|-------------------------------------------------------------------|-----|

| Chart | Title                                                                         | Page |
|-------|-------------------------------------------------------------------------------|------|
| 1     | Age Distribution of Singapore Residents, 1982 and 1992 .. .. .                | 46   |
| 2     | Labour Force, 1982-1992 .. .. .                                               | 72   |
| 3     | Age-Sex Specific Labour Force Participation Rates, 1982 and 1992 .. .. .      | 73   |
| 4     | Changes in Productivity by Industry, 1984-1992 .. .. .                        | 74   |
| 5     | Gross National Product (GNP) and Per Capita GNP, 1982-1992 .. .. .            | 90   |
| 6     | Real Annual Growth Rates of Major Industry, 1982-1992 .. .. .                 | 91   |
| 7     | Quarterly Index of Industrial Production, 1986-1992 .. .. .                   | 124  |
| 8     | Selected Ratios in Manufacturing, 1982-1992 .. .. .                           | 125  |
| 9     | Sales Indices of Retail and Catering Trade, 1985-1992 .. .. .                 | 165  |
| 10    | External Trade and Trade Balance, 1982-1992 .. .. .                           | 185  |
| 11    | Trade by Commodity, 1987 and 1992 .. .. .                                     | 186  |
| 12    | Sea Cargo Handled, 1982-1992 .. .. .                                          | 212  |
| 13    | Air Cargo Handled, 1982-1992 .. .. .                                          | 213  |
| 14    | Telecommunications, 1982-1992 .. .. .                                         | 214  |
| 15    | Visitor Arrivals by Air and Sea, 1982-1992 .. .. .                            | 215  |
| 16    | Hotel Rooms and Occupancy Rate, 1982-1992 .. .. .                             | 216  |
| 17    | Money Supply, 1982-1992 .. .. .                                               | 244  |
| 18    | Type of Bank Deposits and Loans and Advances to Industries, 1982-1992 .. .. . | 245  |
| 19    | Bank Interest Rates, 1982-1992 .. .. .                                        | 246  |
| 20    | Annual Changes in Consumer Price Index, 1982-1992 .. .. .                     | 281  |
| 21    | Enrolment in Child Care Centres, 1982-1992 .. .. .                            | 343  |

## NOTATIONS

p preliminary  
na not available

nec not elsewhere classified  
- nil or negligible



## NOTES ON CHANGES AND REVISIONS

From time to time, changes are made to the Yearbook of Statistics to maintain its currency and relevance. Such changes include addition of new series and replacement of existing series as a result of revision necessitated by changed circumstances. In this edition, the following changes are made:

### Replacement of Existing Series

Table 6.15 **Indices of Unit Labour Cost and Unit Business Cost, 1982 - 1992** using 1988 as base year replaces the previous series with 1983 as base year.

Table 9.5 **Retail Sales Index, 1985 - 1992** and Table 9.6 **Sales Index of Catering Trade, 1985 - 1992** using 1991 as base year replace the previous series with 1987 as base year.

Table 14.10 **Property Price Index by Type of Property, 1982 - 1992** using 1990 as base year replaces the previous series with 1985 as base year.

### Other Changes

A new classification for revenue and expenditure has been introduced in the following three tables :-

Table 13.1 Government Operating Revenue, 1989 - 1992;

13.2 Government Operating Expenditure, 1989 - 1992;

13.3 Government Development Expenditure, 1989 - 1992.

Table 3.2 **Persons Aged 15 Years and Over by Age Group, Activity Status and Sex** (in previous editions) has been discontinued.





# ECONOMIC INDICATORS I, 1982-1992

| 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 <sup>2</sup> | Index of Industrial Production <sup>2</sup> (1989 = 100) |
|                   |                          |                                              |                       |                         |                        |                               | Total                   | Public  | Private  |                            |                     |                                                          |
|                   | At Current Market Prices |                                              |                       |                         | At 1985 Market Prices  |                               |                         |         |          |                            |                     |                                                          |
|                   | \$ Million               | \$                                           | \$ Million            |                         |                        |                               |                         |         |          |                            |                     |                                                          |
| 1982              | 31,775.7                 | 11,085                                       | 12,885.2              | 15,658.8                | 33,772.3               | 15,405.7                      | 19,950.2                | 3,863.8 | 16,086.4 | 1,704.5                    | 37,141.1            | 58.3                                                     |
| 1983              | 36,561.1                 | 12,533                                       | 16,306.1              | 17,595.8                | 36,537.2               | 17,067.7                      | 21,088.0                | 4,235.9 | 16,852.1 | 1,775.8 <sup>1</sup>       | 37,888.3            | 59.5                                                     |
| 1984              | 40,815.1                 | 13,599                                       | 18,596.4              | 19,417.3                | 39,572.5               | 18,677.4                      | 22,168.8                | 4,457.2 | 17,711.6 | 1,828.4                    | 41,704.1            | 64.9                                                     |
| 1985              | 40,330.4                 | 13,044                                       | 16,543.4              | 16,551.2                | 38,923.5               | 16,424.8                      | 23,101.4                | 5,548.5 | 17,552.9 | 1,120.4                    | 38,817.8            | 60.2                                                     |
| 1986              | 39,612.5                 | 12,824                                       | 15,588.5              | 14,894.8                | 39,641.4               | 14,540.2                      | 23,894.5                | 5,606.8 | 18,287.7 | 1,450.0                    | 37,502.9            | 65.3                                                     |
| 1987              | 42,207.1                 | 13,733                                       | 16,304.8              | 16,636.6                | 43,371.8               | 15,028.0                      | 25,706.4                | 5,653.9 | 20,052.5 | 1,743.0                    | 46,337.7            | 76.7                                                     |
| 1988              | 49,862.0                 | 15,424                                       | 20,224.0              | 18,435.0                | 48,203.4               | 16,259.6                      | 28,096.9                | 5,339.1 | 22,757.8 | 2,007.4                    | 56,804.5            | 90.8                                                     |
| 1989              | 57,511.4                 | 17,304                                       | 24,763.6              | 19,915.6                | 52,657.4               | 18,610.9                      | 30,274.2                | 5,620.6 | 24,653.6 | 1,958.7                    | 63,924.1            | 100.0                                                    |
| 1990              | 64,023.1                 | 19,043                                       | 28,361.5              | 25,202.3                | 57,049.4               | 21,190.4                      | 32,545.5                | 6,234.0 | 26,311.5 | 2,487.4                    | 71,578.5            | 109.9                                                    |
| 1991              | 70,479.7                 | 20,305                                       | 32,261.3              | 26,550.6                | 60,884.0               | 24,329.0                      | 34,329.6                | 6,716.1 | 27,613.5 | 2,934.0                    | 74,794.4            | 115.8                                                    |
| 1992 <sup>p</sup> | 76,172.2                 | 21,271                                       | 35,347.4              | 30,576.2                | 64,415.9               | 26,591.6                      | 35,541.9                | 6,802.2 | 28,739.7 | 3,481.0                    | 76,260.0            | 118.5                                                    |

1 Exclude petrochemicals.

2 Refer to establishments engaging 10 or more workers.

**GROWTH RATES IN ECONOMIC INDICATORS I, 1982-1992** (continued)

Per Cent

| Year              | National Income          |                                              |                       |                         |                        |                               |                         |        |         | Manufacturing              |        |                                             |
|-------------------|--------------------------|----------------------------------------------|-----------------------|-------------------------|------------------------|-------------------------------|-------------------------|--------|---------|----------------------------|--------|---------------------------------------------|
|                   | Gross National Product   | Per Capita Indigenous Gross National Product | Gross National Saving | Gross Capital Formation | Gross Domestic Product | Gross Fixed Capital Formation | Consumption Expenditure |        |         | Net Investment Commitments | Output | Index of Industrial Production (1989 = 100) |
|                   |                          |                                              |                       |                         |                        |                               | Total                   | Public | Private |                            |        |                                             |
|                   | At Current Market Prices |                                              |                       |                         |                        | At 1985 Market Prices         |                         |        |         |                            |        |                                             |
| 1982              | 12.7                     | 12.5                                         | 22.9                  | 15.2                    | 6.9                    | 20.3                          | 5.5                     | 13.3   | 3.8     | -8.5                       | -1.5   | -5.5                                        |
| 1983              | 15.1                     | 13.1                                         | 26.5                  | 12.4                    | 8.2                    | 10.8                          | 5.7                     | 9.6    | 4.8     | 4.2                        | 2.0    | 2.1                                         |
| 1984              | 11.6                     | 8.5                                          | 14.0                  | 10.4                    | 8.3                    | 9.4                           | 5.1                     | 5.2    | 5.1     | 3.0                        | 10.1   | 9.1                                         |
| 1985              | -1.2                     | -4.1                                         | -11.0                 | -14.8                   | -1.6                   | -12.1                         | 4.2                     | 24.5   | -0.9    | -38.7                      | -6.9   | -7.2                                        |
| 1986              | -1.8                     | -1.7                                         | -5.8                  | -10.0                   | 1.8                    | -11.5                         | 3.4                     | 1.1    | 4.2     | 29.4                       | -3.4   | 8.5                                         |
| 1987              | 6.5                      | 7.1                                          | 4.6                   | 11.7                    | 9.4                    | 3.4                           | 7.6                     | 0.8    | 9.7     | 20.2                       | 23.6   | 17.5                                        |
| 1988              | 18.1                     | 12.3                                         | 24.0                  | 10.8                    | 11.1                   | 8.2                           | 9.3                     | -5.6   | 13.5    | 15.2                       | 22.6   | 18.4                                        |
| 1989              | 15.3                     | 12.2                                         | 22.4                  | 8.0                     | 9.2                    | 14.5                          | 7.7                     | 5.3    | 8.3     | -2.4                       | 12.5   | 10.1                                        |
| 1990              | 11.3                     | 10.0                                         | 14.5                  | 26.5                    | 8.3                    | 13.9                          | 7.5                     | 10.9   | 6.7     | 27.0                       | 12.0   | 9.9                                         |
| 1991              | 10.1                     | 6.6                                          | 13.8                  | 5.3                     | 6.7                    | 14.8                          | 5.5                     | 7.7    | 4.9     | 18.0                       | 4.5    | 5.4                                         |
| 1992 <sup>p</sup> | 8.1                      | 4.8                                          | 9.6                   | 15.2                    | 5.8                    | 9.3                           | 3.5                     | 1.3    | 4.1     | 18.6                       | 2.0    | 2.3                                         |



# ECONOMIC INDICATORS II, 1982-1992

| Year | Building & Construction |                                     |                        |                      | External Trade  |           |                  |          |          |            |         |          |           |
|------|-------------------------|-------------------------------------|------------------------|----------------------|-----------------|-----------|------------------|----------|----------|------------|---------|----------|-----------|
|      | Gross Floor Area        |                                     |                        |                      | Total           | Exports   |                  |          |          |            |         |          | Imports   |
|      | Planning Approval       | Building Plan Approval <sup>1</sup> | Building Commence-ment | Building Completed   |                 | Total     | Domestic Exports |          |          | Re-exports |         |          |           |
|      |                         |                                     |                        |                      |                 |           | Total            | Oil      | Non-oil  | Total      | Oil     | Non-oil  |           |
|      | Thousand Square Metres  |                                     |                        |                      | Million Dollars |           |                  |          |          |            |         |          |           |
| 1982 | 12,053.2                | 3,406.4                             | 12,445.7               | 6,123.3              | 104,717.4       | 44,472.8  | 29,157.8         | 17,161.2 | 11,996.6 | 15,315.0   | 770.1   | 14,544.9 | 60,244.6  |
| 1983 | 11,669.0                | 5,538.6                             | 12,454.5               | 6,725.1              | 105,659.1       | 46,154.9  | 29,206.4         | 15,233.6 | 13,972.8 | 16,948.5   | 776.7   | 16,171.8 | 59,504.2  |
| 1984 | 8,932.8                 | 2,822.2                             | 8,112.0                | 14,989.5             | 112,473.6       | 51,340.0  | 33,051.2         | 15,743.8 | 17,307.4 | 18,288.8   | 435.5   | 17,853.3 | 61,133.6  |
| 1985 | 7,769.0                 | 1,958.7                             | 6,141.2                | 11,423.9             | 107,996.3       | 50,178.8  | 32,575.5         | 15,840.1 | 16,735.4 | 17,603.3   | 612.1   | 16,991.2 | 57,817.5  |
| 1986 | 8,615.9                 | 889.1                               | 5,428.1                | 9,040.9              | 104,530.9       | 48,985.5  | 32,062.4         | 11,980.3 | 20,082.1 | 16,923.1   | 380.9   | 16,542.2 | 55,545.4  |
| 1987 | 7,517.1                 | 1,178.7                             | 4,309.9                | 7,160.0              | 128,680.9       | 60,265.7  | 39,070.6         | 11,753.5 | 27,317.1 | 21,195.1   | 444.5   | 20,750.6 | 68,415.2  |
| 1988 | 5,078.6                 | 1,900.9                             | 4,278.2                | 6,382.7              | 167,278.0       | 79,051.3  | 49,555.2         | 11,341.0 | 38,214.2 | 29,496.1   | 1,011.8 | 28,484.3 | 88,226.7  |
| 1989 | 5,234.5                 | 2,832.9                             | 6,635.3                | 4,167.9              | 183,980.2       | 87,116.5  | 55,251.7         | 13,223.9 | 42,027.8 | 31,864.8   | 219.1   | 31,645.7 | 96,863.7  |
| 1990 | 6,876.3                 | 2,836.9                             | 7,496.9                | 4,897.2              | 205,011.9       | 95,206.0  | 62,754.1         | 17,136.6 | 45,617.5 | 32,451.9   | 158.5   | 32,293.4 | 109,805.9 |
| 1991 | 7,700.8                 | 3,967.6                             | 8,714.3                | 4,597.6              | 216,074.4       | 101,879.5 | 66,031.1         | 17,201.8 | 48,829.3 | 35,848.4   | 169.2   | 35,679.2 | 114,194.9 |
| 1992 | 10,181.2 <sup>P</sup>   | 3,269.7 <sup>P</sup>                | 9,463.9 <sup>P</sup>   | 6,951.7 <sup>P</sup> | 220,880.7       | 103,351.0 | 66,336.8         | 13,408.8 | 52,928.0 | 37,014.2   | 101.0   | 36,913.2 | 117,529.7 |

<sup>1</sup> Refer to private sector only.

## GROWTH RATES IN ECONOMIC INDICATORS II, 1982-1992 (continued)

Per Cent

| Year | Building & Construction |                        |                        |                    | External Trade |         |                  |       |         |            |       |         |         | Per Cent |
|------|-------------------------|------------------------|------------------------|--------------------|----------------|---------|------------------|-------|---------|------------|-------|---------|---------|----------|
|      | Gross Floor Area        |                        |                        |                    | Total          | Exports |                  |       |         |            |       |         | Imports |          |
|      | Planning Approval       | Building Plan Approval | Building Commence-ment | Building Completed |                | Total   | Domestic Exports |       |         | Re-exports |       |         |         |          |
|      |                         |                        |                        |                    |                |         | Total            | Oil   | Non-oil | Total      | Oil   | Non-oil |         |          |
| 1982 | 21.1                    | -2.3                   | 40.6                   | 26.5               | 2.1            | 0.4     | -1.0             | 2.3   | -5.3    | 3.2        | 122.6 | 0.4     | 3.4     |          |
| 1983 | -3.2                    | 62.6                   | 0.1                    | 9.8                | 0.9            | 3.8     | 0.2              | -11.2 | 16.5    | 10.7       | 0.9   | 11.2    | -1.2    |          |
| 1984 | -23.4                   | -49.0                  | -34.9                  | 122.9              | 6.4            | 11.2    | 13.2             | 3.3   | 23.9    | 7.9        | -43.9 | 10.4    | 2.7     |          |
| 1985 | -13.0                   | -30.6                  | -24.3                  | -23.8              | -4.0           | -2.3    | -1.4             | 0.6   | -3.3    | -3.7       | 40.6  | -4.8    | -5.4    |          |
| 1986 | 10.9                    | -54.6                  | -11.6                  | -20.9              | -3.2           | -2.4    | -1.6             | -24.4 | 20.0    | -3.9       | -37.8 | -2.6    | -3.9    |          |
| 1987 | -12.8                   | 32.6                   | -20.6                  | -20.8              | 23.1           | 23.0    | 21.9             | -1.9  | 36.0    | 25.2       | 16.7  | 25.4    | 23.2    |          |
| 1988 | -32.4                   | 61.3                   | -0.7                   | -10.9              | 30.0           | 31.2    | 26.8             | -3.5  | 39.9    | 39.2       | 127.6 | 37.3    | 29.0    |          |
| 1989 | 3.1                     | 49.0                   | 55.1                   | -34.7              | 10.0           | 10.2    | 11.5             | 16.6  | 10.0    | 8.0        | -78.3 | 11.1    | 9.8     |          |
| 1990 | 31.4                    | 0.1                    | 13.0                   | 17.5               | 11.4           | 9.3     | 13.6             | 29.6  | 8.5     | 1.8        | -27.7 | 2.0     | 13.4    |          |
| 1991 | 12.0                    | 39.9                   | 16.2                   | -6.1               | 5.4            | 7.0     | 5.2              | 0.4   | 7.0     | 10.5       | 6.8   | 10.5    | 4.0     |          |
| 1992 | 32.2 <sup>P</sup>       | -17.6 <sup>P</sup>     | 8.6 <sup>P</sup>       | 51.2 <sup>P</sup>  | 2.2            | 1.4     | 0.5              | -22.1 | 8.4     | 3.3        | -40.3 | 3.5     | 2.9     |          |



# ECONOMIC INDICATORS III, 1982-1992

| Year | Transport & Communications |                        |                        |                   |            |         |                         |                                                       | Utilities                 |                   |                         |
|------|----------------------------|------------------------|------------------------|-------------------|------------|---------|-------------------------|-------------------------------------------------------|---------------------------|-------------------|-------------------------|
|      | Sea Cargo Handled          |                        |                        | Air Cargo Handled |            |         | Outgoing<br>Telex Calls | Inter-<br>national<br>Telephone<br>Calls <sup>1</sup> | Electricity<br>Generation | Gas<br>Production | Water<br>Consumption    |
|      | Total                      | Inward                 | Outward                | Total             | Discharged | Loaded  |                         |                                                       |                           |                   |                         |
|      | Thousand Freight Tonnes    |                        |                        | Tonnes            |            |         | Thousand                |                                                       | Million Kilowatt Hours    |                   | Million<br>Cubic Metres |
| 1982 | 101,489.3                  | 61,356.3               | 40,133.0               | 222,304           | 120,715    | 101,589 | 12,043                  | 7,091                                                 | 7,883.4                   | 624.8             | 288.5                   |
| 1983 | 106,348.4                  | 65,882.6               | 40,465.8               | 260,925           | 144,722    | 116,203 | 13,893                  | 9,673                                                 | 8,665.1                   | 605.4             | 307.3                   |
| 1984 | 111,897.3                  | 67,411.0               | 44,486.3               | 297,937           | 163,726    | 134,211 | 15,668                  | 12,643                                                | 9,451.8                   | 609.4             | 317.9                   |
| 1985 | 105,835.8                  | 62,086.2               | 43,749.6               | 300,019           | 167,388    | 132,631 | 16,243                  | 15,725                                                | 9,917.0                   | 569.9             | 322.7                   |
| 1986 | 120,715.9                  | 69,756.8               | 50,959.1               | 352,808           | 192,624    | 160,184 | 16,496                  | 21,611                                                | 10,576.5                  | 577.3             | 324.7                   |
| 1987 | 129,458.3                  | 75,779.7               | 53,678.6               | 419,097           | 222,160    | 196,937 | 16,026                  | 30,797                                                | 11,813.8                  | 623.5             | 334.7                   |
| 1988 | 154,738.8                  | 90,648.7               | 64,090.1               | 512,507           | 263,639    | 248,868 | 13,633                  | 43,672                                                | 13,017.5                  | 681.1             | 344.1                   |
| 1989 | 174,297.8                  | 98,367.0               | 75,930.8               | 577,610           | 297,198    | 280,412 | 11,419                  | 58,653                                                | 14,039.0                  | 722.4             | 355.6                   |
| 1990 | 187,789.3                  | 106,222.5              | 81,566.8               | 623,841           | 324,157    | 299,684 | 9,534                   | 73,888                                                | 15,617.6                  | 807.1             | 374.2                   |
| 1991 | 206,429.0                  | 116,525.1              | 89,903.9               | 643,209           | 342,261    | 300,948 | 7,808                   | 88,438                                                | 16,596.6                  | 883.7             | 399.0                   |
| 1992 | 238,400.0 <sup>P</sup>     | 136,400.0 <sup>P</sup> | 102,000.0 <sup>P</sup> | 719,004           | 386,792    | 332,212 | 6,274 <sup>P</sup>      | 105,263 <sup>P</sup>                                  | 17,543.3                  | 943.3             | 419.6                   |

<sup>1</sup> Exclude calls to Peninsular Malaysia.

## GROWTH RATES IN ECONOMIC INDICATORS III, 1982-1992 (continued)

Per Cent

| Year | Transport & Communications |                   |                   |                   |            |        |                         |                                          | Utilities                 |                   |                      |
|------|----------------------------|-------------------|-------------------|-------------------|------------|--------|-------------------------|------------------------------------------|---------------------------|-------------------|----------------------|
|      | Sea Cargo Handled          |                   |                   | Air Cargo Handled |            |        | Outgoing<br>Telex Calls | Inter-<br>national<br>Telephone<br>Calls | Electricity<br>Generation | Gas<br>Production | Water<br>Consumption |
|      | Total                      | Inward            | Outward           | Total             | Discharged | Loaded |                         |                                          |                           |                   |                      |
| 1982 | 9.6                        | 11.7              | 6.7               | 12.8              | 19.6       | 5.6    | 25.9                    | 40.2                                     | 5.7                       | -0.1              | 4.4                  |
| 1983 | 4.8                        | 7.4               | 0.8               | 17.4              | 19.9       | 14.4   | 15.4                    | 36.4                                     | 9.9                       | -3.1              | 6.5                  |
| 1984 | 5.2                        | 2.3               | 9.9               | 14.2              | 13.1       | 15.5   | 12.8                    | 30.7                                     | 9.1                       | 0.7               | 3.4                  |
| 1985 | -5.4                       | -7.9              | -1.7              | 0.7               | 2.2        | -1.2   | 3.7                     | 24.4                                     | 4.9                       | -6.5              | 1.5                  |
| 1986 | 14.1                       | 12.4              | 16.5              | 17.6              | 15.1       | 20.8   | 1.6                     | 37.4                                     | 6.7                       | 1.3               | 0.6                  |
| 1987 | 7.2                        | 8.6               | 5.3               | 18.8              | 15.3       | 22.9   | -2.8                    | 42.5                                     | 11.7                      | 8.0               | 3.1                  |
| 1988 | 19.5                       | 19.6              | 19.4              | 22.3              | 18.7       | 26.4   | -14.9                   | 41.8                                     | 10.2                      | 9.2               | 2.8                  |
| 1989 | 12.6                       | 8.5               | 18.5              | 12.7              | 12.7       | 12.7   | -16.2                   | 34.3                                     | 7.8                       | 6.1               | 3.3                  |
| 1990 | 7.7                        | 8.0               | 7.4               | 8.0               | 9.1        | 6.9    | -16.5                   | 26.0                                     | 11.2                      | 11.7              | 5.2                  |
| 1991 | 9.9                        | 9.7               | 10.2              | 3.1               | 5.6        | 0.4    | -18.1                   | 19.7                                     | 6.3                       | 9.5               | 6.6                  |
| 1992 | 15.5 <sup>P</sup>          | 17.1 <sup>P</sup> | 13.5 <sup>P</sup> | 11.8              | 13.0       | 10.4   | -19.6 <sup>P</sup>      | 19.0 <sup>P</sup>                        | 5.7                       | 6.7               | 5.2                  |



# ECONOMIC INDICATORS IV, 1982-1992

| 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 <sup>1</sup> | Prime Lending Rate | 12-month Deposit Rate | Total Assets/Liabilities |                |
|             |                                         |                   | \$ Million                | Months           | \$ Million               |                                |                                             | Per Cent           |                       | US\$ Million             | \$ Million     |
| 1982        | 2.1400                                  | 8,156.8           | 17,917.9                  | 3.57             | 48,537.2                 | 23,408.7                       | 29,442.9                                    | 9.33               | 7.08                  | 103,295.7                | 22,020.4       |
| 1983        | 2.1136                                  | 8,607.7           | 19,755.3                  | 3.98             | 56,537.8                 | 26,265.5                       | 34,045.8                                    | 8.98               | 6.75                  | 111,860.9                | 23,625.0       |
| 1984        | 2.1331                                  | 8,866.3           | 22,768.0                  | 4.47             | 65,707.2                 | 28,026.3                       | 36,867.5                                    | 9.40               | 6.80                  | 128,054.7                | 25,844.9       |
| 1985        | 2.2002                                  | 8,785.0           | 27,070.9                  | 5.62             | 70,618.0                 | 28,744.5                       | 37,403.1                                    | 7.20               | 4.88                  | 155,374.2                | 28,207.0       |
| 1986        | 2.1774                                  | 9,821.3           | 28,157.5                  | 6.08             | 76,833.3                 | 30,612.6                       | 35,792.8                                    | 6.10               | 3.30                  | 200,601.8                | 31,581.4       |
| 1987        | 2.1060                                  | 11,030.5          | 30,441.7                  | 5.34             | 86,483.6                 | 36,393.0                       | 37,868.6                                    | 6.10               | 3.56                  | 244,868.5                | 32,119.5       |
| 1988        | 2.0124                                  | 11,957.7          | 33,276.6                  | 4.53             | 96,441.2                 | 42,475.3                       | 41,848.8                                    | 6.13               | 4.03                  | 280,477.2                | 36,925.1       |
| 1989        | 1.9503                                  | 13,744.6          | 38,607.2                  | 4.78             | 127,201.7                | 53,351.1                       | 50,785.9                                    | 6.25               | 4.55                  | 336,581.8                | 34,048.0       |
| 1990        | 1.8125                                  | 15,260.9          | 48,521.3                  | 5.30             | 134,002.0                | 63,979.7                       | 57,696.4                                    | 7.73               | 5.48                  | 390,395.5                | 32,336.0       |
| 1991        | 1.7276                                  | 16,430.0          | 55,802.8                  | 5.86             | 136,093.4                | 72,241.1                       | 64,009.1                                    | 7.10               | 4.17                  | 357,725.0                | 30,022.5       |
| 1992        | 1.6290                                  | 18,515.6          | 65,788.4                  | 6.72             | 153,302.4                | 78,483.2                       | 69,138.9                                    | 5.55               | 2.97                  | 355,378.6                | 36,786.7       |

<sup>1</sup> Include bills financing.

**GROWTH RATES IN ECONOMIC INDICATORS IV, 1982-1992** (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 |                      |                |
| 1982        | 1.3                                     | 12.6              | 15.7                      | 8.8                      | 17.0                           | 16.7                           | -21.1              | -20.9                 | 20.4                 | 14.2           |
| 1983        | -1.2                                    | 5.5               | 10.3                      | 16.5                     | 12.2                           | 15.6                           | -3.8               | -4.7                  | 8.3                  | 7.3            |
| 1984        | 0.9                                     | 3.0               | 15.3                      | 16.2                     | 6.7                            | 8.3                            | 4.7                | 0.7                   | 14.5                 | 9.4            |
| 1985        | 3.1                                     | -0.9              | 18.9                      | 7.5                      | 2.6                            | 1.5                            | -23.4              | -28.2                 | 21.3                 | 9.1            |
| 1986        | -1.0                                    | 11.8              | 4.0                       | 8.8                      | 6.5                            | -4.3                           | -15.3              | -32.4                 | 29.1                 | 12.0           |
| 1987        | -3.3                                    | 12.3              | 8.1                       | 12.6                     | 18.9                           | 5.8                            | -                  | 7.9                   | 22.1                 | 1.7            |
| 1988        | -4.4                                    | 8.4               | 9.3                       | 11.5                     | 16.7                           | 10.5                           | 0.5                | 13.2                  | 14.5                 | 15.0           |
| 1989        | -3.1                                    | 14.9              | 16.0                      | 31.9                     | 25.6                           | 21.4                           | 2.0                | 12.9                  | 20.0                 | -7.8           |
| 1990        | -7.1                                    | 11.0              | 25.7                      | 5.3                      | 19.9                           | 13.6                           | 23.7               | 20.4                  | 16.0                 | -5.0           |
| 1991        | -4.7                                    | 7.7               | 15.0                      | 1.6                      | 12.9                           | 10.9                           | -8.2               | -23.9                 | -8.4                 | -7.2           |
| 1992        | -5.7                                    | 12.7              | 17.9                      | 12.6                     | 8.6                            | 8.0                            | -21.8              | -28.8                 | -0.7                 | 22.5           |



# ECONOMIC INDICATORS V, 1982-1992

| Year            | Finance Companies <sup>1</sup>           |                                 |         | POSBank <sup>1</sup> | CPF <sup>1</sup>      | Stock Exchange              |          | Insurance Companies            |                |                           |                         |
|-----------------|------------------------------------------|---------------------------------|---------|----------------------|-----------------------|-----------------------------|----------|--------------------------------|----------------|---------------------------|-------------------------|
|                 | Deposits from Individuals & Institutions | Loans for                       |         | Total Deposit Base   | Amount Due to Members | Turnover of Stocks & Shares |          | Life Insurance                 |                | General Insurance         |                         |
|                 |                                          | Hire Purchase of Motor Vehicles | Housing |                      |                       | Value                       | Volume   | Policies in Force <sup>1</sup> |                | Net Premiums <sup>2</sup> | Net Claims <sup>3</sup> |
|                 |                                          |                                 |         |                      |                       |                             |          | Number                         | Amount Insured |                           |                         |
|                 |                                          |                                 |         |                      |                       |                             |          |                                |                |                           |                         |
| Million Dollars |                                          |                                 |         |                      |                       | Million Units               | Number   | Million Dollars                |                |                           |                         |
| 1982            | 3,711.5                                  | 590.1                           | 879.7   | 5,076.1              | 15,655.5              | 5,176.7                     | 1,666.1  | 314,375                        | 10,721.0       | 431.0                     | 165.6                   |
| 1983            | 4,564.1                                  | 608.7                           | 1,165.8 | 6,240.9              | 19,504.7              | 11,807.1                    | 3,605.2  | 359,902                        | 13,810.3       | 441.0                     | 186.7                   |
| 1984            | 5,278.3                                  | 565.8                           | 1,348.9 | 7,333.1              | 22,670.4              | 8,211.2                     | 3,042.6  | 379,880                        | 16,421.8       | 440.9                     | 195.4                   |
| 1985            | 5,014.0                                  | 414.3                           | 1,386.5 | 9,192.6              | 26,829.5              | 6,319.3                     | 3,024.7  | 405,452                        | 19,466.9       | 433.6                     | 220.6                   |
| 1986            | 4,889.1                                  | 288.9                           | 1,445.1 | 10,637.5             | 28,341.4              | 8,000.5                     | 3,951.4  | 463,139                        | 23,439.8       | 421.4                     | 230.1                   |
| 1987            | 5,362.9                                  | 359.9                           | 1,544.6 | 11,281.1             | 30,607.8              | 22,478.2                    | 9,757.9  | 565,032                        | 28,612.3       | 442.9                     | 218.1                   |
| 1988            | 5,824.9                                  | 754.9                           | 1,506.7 | 12,261.7             | 32,529.3              | 12,817.0                    | 7,152.3  | 702,986                        | 38,472.5       | 508.6                     | 225.2                   |
| 1989            | 7,384.4                                  | 1,337.5                         | 1,683.4 | 13,210.1             | 36,051.6              | 39,149.9                    | 21,646.0 | 870,304                        | 48,676.9       | 588.8                     | 258.7                   |
| 1990            | 8,397.2                                  | 1,503.1                         | 1,606.2 | 13,387.6             | 40,646.4              | 36,756.0                    | 18,487.0 | 1,055,353                      | 59,455.1       | 692.7                     | 302.7                   |
| 1991            | 8,972.1                                  | 1,674.7                         | 1,523.9 | 15,645.5             | 46,049.0              | 30,549.1                    | 15,556.9 | 1,262,731                      | 73,255.7       | 750.2                     | 360.9                   |
| 1992            | 9,550.9                                  | 2,238.9                         | 1,473.5 | 18,126.8             | 51,526.9 <sup>P</sup> | 29,443.9                    | 13,904.3 | na                             | na             | na                        | na                      |

<sup>1</sup> Refer to end of year.

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

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

## GROWTH RATES IN ECONOMIC INDICATORS V, 1982-1992 (continued)

Per Cent

| Year | Finance Companies                        |                                 |         | POSBank            | CPF                   | Stock Exchange              |        | Insurance Companies |                |                   |            |
|------|------------------------------------------|---------------------------------|---------|--------------------|-----------------------|-----------------------------|--------|---------------------|----------------|-------------------|------------|
|      | Deposits from Individuals & Institutions | Loans for                       |         | Total Deposit Base | Amount Due to Members | Turnover of Stocks & Shares |        | Life Insurance      |                | General Insurance |            |
|      |                                          | Hire Purchase of Motor Vehicles | Housing |                    |                       | Value                       | Volume | Policies in Force   |                | Net Premiums      | Net Claims |
|      |                                          |                                 |         |                    |                       |                             |        | Number              | Amount Insured |                   |            |
| 1982 | 26.1                                     | -6.1                            | 15.2    | 54.1               | 28.9                  | -61.6                       | -40.0  | 15.9                | 37.8           | 8.4               | 12.9       |
| 1983 | 23.0                                     | 3.2                             | 32.5    | 22.9               | 24.6                  | 128.1                       | 116.4  | 14.5                | 28.8           | 2.3               | 12.7       |
| 1984 | 15.6                                     | -7.0                            | 15.7    | 17.5               | 16.2                  | -30.5                       | -15.6  | 5.6                 | 18.9           | -                 | 4.7        |
| 1985 | -5.0                                     | -26.8                           | 2.8     | 25.4               | 18.3                  | -23.0                       | -0.6   | 6.7                 | 18.5           | -1.7              | 12.9       |
| 1986 | -2.5                                     | -30.3                           | 4.2     | 15.7               | 5.6                   | 26.6                        | 30.6   | 14.2                | 20.4           | -2.8              | 4.3        |
| 1987 | 9.7                                      | 24.6                            | 6.9     | 6.1                | 8.0                   | 181.0                       | 146.9  | 22.0                | 22.1           | 5.1               | -5.2       |
| 1988 | 8.6                                      | 109.8                           | -2.5    | 8.7                | 6.3                   | -43.0                       | -26.7  | 24.4                | 34.5           | 14.8              | 3.3        |
| 1989 | 26.8                                     | 77.2                            | 11.7    | 7.7                | 10.8                  | 205.5                       | 202.6  | 23.8                | 26.5           | 15.8              | 14.9       |
| 1990 | 13.7                                     | 12.4                            | -4.6    | 1.3                | 12.7                  | -6.1                        | -14.6  | 21.3                | 22.1           | 17.6              | 17.0       |
| 1991 | 6.8                                      | 11.4                            | -5.1    | 16.9               | 13.3                  | -16.9                       | -15.8  | 19.7                | 23.2           | 8.3               | 19.2       |
| 1992 | 6.5                                      | 33.7                            | -3.3    | 15.9               | 11.9                  | -3.6                        | -10.6  | na                  | na             | na                | na         |



# ECONOMIC INDICATORS VI, 1982-1992

| Year | Government Finance             |                                         |                          |          |          |                            | Measures of Inflation                                   |                                                      |                                                          | Tourism                          |                            |
|------|--------------------------------|-----------------------------------------|--------------------------|----------|----------|----------------------------|---------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------|----------------------------------|----------------------------|
|      | Operating Revenue <sup>1</sup> | Operating Expendi-<br>ture <sup>2</sup> | Public Debt <sup>3</sup> |          |          | Debt<br>Servicing<br>Ratio | Consumer<br>Price<br>Index<br>(Sep 87-<br>Aug 88 = 100) | Domestic<br>Supply<br>Price<br>Index<br>(1985 = 100) | Gross<br>Domestic<br>Product<br>Deflator<br>(1985 = 100) | Visitor<br>Arrivals <sup>4</sup> | Hotel<br>Occupancy<br>Rate |
|      |                                |                                         | Total                    | Domestic | External |                            |                                                         |                                                      |                                                          |                                  |                            |
|      | Million Dollars                |                                         |                          |          |          |                            |                                                         |                                                      |                                                          | Per Cent                         |                            |
|      |                                |                                         |                          |          |          |                            |                                                         |                                                      |                                                          |                                  |                            |
| 1982 | )                              | )                                       | 20,730.4                 | 19,855.7 | 874.7    | 0.8                        | 95.7                                                    | 106.8                                                | 96.7                                                     | 2,956.7                          | 80.8                       |
| 1983 | )                              | )                                       | 25,031.5                 | 24,359.9 | 671.6    | 1.3                        | 96.8                                                    | 102.9                                                | 100.5                                                    | 2,853.6                          | 75.5                       |
| 1984 | )                              | )                                       | 28,077.3                 | 27,435.9 | 641.4    | 1.0                        | 99.3                                                    | 102.3                                                | 101.2                                                    | 2,991.4                          | 75.5                       |
| 1985 | ) na                           | ) na                                    | 32,164.4                 | 31,568.1 | 596.3    | 2.4                        | 99.8                                                    | 100.0                                                | 100.0                                                    | 3,031.0                          | 65.9                       |
| 1986 | )                              | )                                       | 33,793.1                 | 33,341.7 | 451.4    | 2.3                        | 98.4                                                    | 84.9                                                 | 97.5                                                     | 3,191.1                          | 64.7                       |
| 1987 | )                              | )                                       | 38,274.3                 | 37,971.1 | 303.2    | 1.3                        | 98.9                                                    | 91.3                                                 | 98.3                                                     | 3,678.8                          | 68.7                       |
| 1988 | )                              | )                                       | 41,830.7                 | 41,589.9 | 240.8    | 0.4                        | 100.4                                                   | 89.6                                                 | 103.7                                                    | 4,186.1                          | 79.3                       |
| 1989 | 11,546.9                       | 6,105.8                                 | 46,209.7                 | 46,071.0 | 138.7    | 0.7                        | 102.8                                                   | 91.9                                                 | 108.0                                                    | 4,830.0                          | 86.4                       |
| 1990 | 13,102.3                       | 7,061.6                                 | 51,425.6                 | 51,357.7 | 67.9     | 0.2                        | 106.3                                                   | 93.5                                                 | 111.2                                                    | 5,322.9                          | 84.0                       |
| 1991 | 14,851.6                       | 7,813.4                                 | 59,041.1                 | 59,000.3 | 40.8     | 0.1                        | 110.0                                                   | 88.2                                                 | 114.1                                                    | 5,414.7                          | 76.7                       |
| 1992 | 17,218.5 <sup>P</sup>          | 8,477.5 <sup>P</sup>                    | 67,255.1                 | 67,228.2 | 26.9     | 0.2                        | 112.5                                                   | 84.6                                                 | 116.4                                                    | 5,989.9                          | 79.8                       |

- 1 Refer to receipts credited to the Consolidated Revenue Account, Development Fund Account and Sinking Fund Account, but excludes investment income and capital receipts.
- 2 Refer to Expenditure on Manpower, other Operating Expenditure (excluding expenses on investment and agency fees on land sales), Grants-in-Aid to statutory boards and Pensions.
- 3 Refer to end of year.
- 4 Exclude Malaysian arrivals by land.

## GROWTH RATES IN ECONOMIC INDICATORS VI, 1982-1992 (continued)

Per Cent

| Year | Government Finance |                       |             |          |          | Measures of Inflation                         |                                             |                                                 | Tourism          |                      |
|------|--------------------|-----------------------|-------------|----------|----------|-----------------------------------------------|---------------------------------------------|-------------------------------------------------|------------------|----------------------|
|      | Operating Revenue  | Operating Expenditure | Public Debt |          |          | Consumer Price Index<br>(Sep 87-Aug 88 = 100) | Domestic Supply Price Index<br>(1985 = 100) | Gross Domestic Product Deflator<br>(1985 = 100) | Visitor Arrivals | Hotel Occupancy Rate |
|      |                    |                       | Total       | Domestic | External |                                               |                                             |                                                 |                  |                      |
| 1982 | )                  | )                     | 21.0        | 22.3     | -2.4     | 3.9                                           | -4.2                                        | 4.2                                             | 4.5              | -5.7                 |
| 1983 | )                  | )                     | 20.7        | 22.7     | -23.2    | 1.2                                           | -3.7                                        | 3.9                                             | -3.5             | -6.6                 |
| 1984 | )                  | )                     | 12.2        | 12.6     | -4.5     | 2.6                                           | -0.6                                        | 0.7                                             | 4.8              | -                    |
| 1985 | )                  | )                     | 14.6        | 15.1     | -7.0     | 0.5                                           | -2.3                                        | -1.2                                            | 1.3              | -12.7                |
| 1986 | ) na               | ) na                  | 5.1         | 5.6      | -24.3    | -1.4                                          | -15.1                                       | -2.5                                            | 5.3              | -1.8                 |
| 1987 | )                  | )                     | 13.3        | 13.9     | -32.8    | 0.5                                           | 7.5                                         | 0.8                                             | 15.3             | 6.2                  |
| 1988 | )                  | )                     | 9.3         | 9.5      | -20.6    | 1.5                                           | -1.9                                        | 5.5                                             | 13.8             | 15.4                 |
| 1989 | )                  | )                     | 10.5        | 10.8     | -42.4    | 2.4                                           | 2.6                                         | 4.1                                             | 15.4             | 9.0                  |
| 1990 | 13.5               | 15.7                  | 11.3        | 11.5     | -51.0    | 3.4                                           | 1.7                                         | 3.0                                             | 10.2             | -2.8                 |
| 1991 | 13.4               | 10.6                  | 14.8        | 14.9     | -39.9    | 3.4                                           | -5.7                                        | 2.6                                             | 1.7              | -8.7                 |
| 1992 | 15.9 <sup>P</sup>  | 8.5 <sup>P</sup>      | 13.9        | 13.9     | -34.1    | 2.3                                           | -4.1                                        | 2.0                                             | 10.6             | 4.0                  |



# SOCIAL INDICATORS I, 1982-1992

| Year | Resident Population |                |                      |            |                               |                              | Vital Statistics              |                  |                                           |                       |                                                       |                         |
|------|---------------------|----------------|----------------------|------------|-------------------------------|------------------------------|-------------------------------|------------------|-------------------------------------------|-----------------------|-------------------------------------------------------|-------------------------|
|      | Mid-year Estimates  | Rate of Growth | Population Density   | Median Age | Dependency Ratio <sup>1</sup> | Index of Ageing <sup>2</sup> | Crude Birth Rate              | Crude Death Rate | Proportional Mortality Ratio <sup>3</sup> | Infant Mortality Rate | Total Fertility Rate                                  | Gross Reproduction Rate |
|      | Thousand            | Per Cent       | Per Square Kilometre | Years      | Per Cent                      |                              | Per 1,000 Resident Population |                  | Per Cent                                  | Per 1,000 Live-births | Per 1,000 Resident Female population Aged 15-44 years |                         |
| 1982 | 2,365.7             | 1.8            | 3,827                | 25.5       | 51.0                          | 29.5                         | 17.5                          | 4.9              | 78.0                                      | 10.7                  | 1,707                                                 | 817                     |
| 1983 | 2,406.2             | 1.7            | 3,893                | 26.1       | 50.1                          | 30.6                         | 16.3                          | 5.0              | 79.2                                      | 9.4                   | 1,575                                                 | 758                     |
| 1984 | 2,443.7             | 1.6            | 3,940                | 26.7       | 49.4                          | 31.7                         | 16.5                          | 4.8              | 79.1                                      | 8.8                   | 1,582                                                 | 756                     |
| 1985 | 2,482.6             | 1.6            | 4,001                | 27.2       | 48.9                          | 32.7                         | 16.6                          | 4.9              | 79.9                                      | 9.3                   | 1,580                                                 | 761                     |
| 1986 | 2,518.6             | 1.5            | 4,051                | 27.8       | 48.3                          | 34.1                         | 14.8                          | 4.6              | 80.0                                      | 9.4                   | 1,396                                                 | 670                     |
| 1987 | 2,553.9             | 1.4            | 4,102                | 28.3       | 47.6                          | 35.9                         | 16.6                          | 4.7              | 80.7                                      | 7.4                   | 1,583                                                 | 762                     |
| 1988 | 2,598.5             | 1.7            | 4,154                | 28.8       | 47.3                          | 37.4                         | 19.8                          | 4.9              | 80.9                                      | 6.9                   | 1,902                                                 | 920                     |
| 1989 | 2,647.6             | 1.9            | 4,227                | 29.3       | 47.5                          | 38.4                         | 17.5                          | 4.9              | 82.2                                      | 6.6                   | 1,707                                                 | 822                     |
| 1990 | 2,705.1             | 2.2            | 4,273                | 29.8       | 47.7                          | 39.4                         | 18.4                          | 4.8              | 81.6                                      | 6.7                   | 1,823                                                 | 878                     |
| 1991 | 2,762.7             | 2.1            | 4,323                | 30.2       | 48.0                          | 40.0                         | 17.3                          | 4.7              | 82.7                                      | 5.5                   | 1,734                                                 | 840                     |
| 1992 | 2,818.2             | 2.0            | 4,397                | 30.6       | 48.1                          | 40.7                         | 17.1 <sup>P</sup>             | 4.7 <sup>P</sup> | 82.2 <sup>P</sup>                         | 5.0 <sup>P</sup>      | 1,740 <sup>P</sup>                                    | 842 <sup>P</sup>        |

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

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

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

# SOCIAL INDICATORS II, 1982-1992

| Year   | Education          |           |                                                          |                                            |                               |           |                  |                  |                                                 |           |          |
|--------|--------------------|-----------|----------------------------------------------------------|--------------------------------------------|-------------------------------|-----------|------------------|------------------|-------------------------------------------------|-----------|----------|
|        | Pupils Per Teacher |           | Graduates of<br>Institutions<br>of<br>Higher<br>Learning | Student<br>Enrolment<br>Ratio <sup>1</sup> | Literacy<br>Rate <sup>2</sup> | Passes at |                  |                  | Government Recurrent Expenditure<br>Per Student |           |          |
|        | Primary            | Secondary |                                                          |                                            |                               | PSLE      | GCE 'O'<br>Level | GCE 'A'<br>Level | Primary                                         | Secondary | Tertiary |
|        |                    |           |                                                          |                                            |                               |           |                  |                  |                                                 |           |          |
| Number |                    |           | Per Cent                                                 |                                            |                               |           |                  |                  | Dollars                                         |           |          |
| 1982   | 30                 | 21        | 6,519                                                    | 86.7                                       | 84.8                          | 87.3      | 75.4             | 64.1             | 1,176                                           | 1,827     | 8,496    |
| 1983   | 29                 | 21        | 6,951                                                    | 90.8                                       | 85.5                          | 87.0      | 74.5             | 65.4             | 1,229                                           | 1,910     | 9,369    |
| 1984   | 28                 | 23        | 8,332                                                    | 93.6                                       | 86.1                          | 85.5      | 79.9             | 65.3             | 1,399                                           | 2,090     | 9,742    |
| 1985   | 27                 | 22        | 8,955                                                    | 94.0                                       | 86.7                          | 85.9      | 89.0             | 66.2             | 1,521                                           | 2,269     | 9,702    |
| 1986   | 26                 | 23        | 10,418                                                   | 95.5                                       | 87.3                          | 85.6      | 85.3             | 70.8             | 1,429                                           | 1,981     | 8,574    |
| 1987   | 26                 | 22        | 11,883                                                   | 94.5                                       | 88.0                          | 86.5      | 88.1             | 73.9             | 1,501                                           | 2,092     | 9,195    |
| 1988   | 26                 | 22        | 12,582                                                   | 93.9                                       | 88.6                          | 86.5      | 89.2             | 72.5             | 1,723                                           | 2,410     | 8,370    |
| 1989   | 26                 | 22        | 12,815                                                   | 93.5                                       | 89.3                          | 88.4      | 88.1             | 68.5             | 1,929                                           | 2,678     | 8,570    |
| 1990   | 26                 | 21        | 13,711                                                   | 92.4                                       | 90.0                          | 88.2      | 88.9             | 76.5             | 2,061                                           | 2,982     | 9,457    |
| 1991   | 26                 | 20        | 14,552                                                   | 92.3                                       | 90.6                          | 89.8      | 89.9             | 83.0             | 2,117                                           | 3,217     | 17,207   |
| 1992   | 26                 | 20        | 16,299                                                   | 92.8                                       | 91.1                          | 91.2      | 89.0             | 82.7             | 2,202                                           | 3,477     | 9,652    |

- <sup>1</sup> Students aged 6-17 years divided by resident population of same age group.
- <sup>2</sup> For population 10 years and over. The rates have been revised to refer only to Singapore residents. For 1990, the figure is based on the 1990 Population Census.



# SOCIAL INDICATORS III, 1982-1992

| Year | Employment                           |                                              |                                                            |                                           |                                       | Health                                                            |                          |         |              |
|------|--------------------------------------|----------------------------------------------|------------------------------------------------------------|-------------------------------------------|---------------------------------------|-------------------------------------------------------------------|--------------------------|---------|--------------|
|      | Labour Force<br>(15 Years<br>& Over) | Unemployment<br>Rate<br>(15 Years<br>& Over) | Labour Force<br>Participation<br>Rate (15 Years<br>& Over) | CPF<br>Contributors<br>in<br>Labour Force | Union<br>Members<br>Among<br>Employed | Per Capita <sup>1</sup><br>Government<br>Expenditure<br>on Health | Persons Per <sup>2</sup> |         |              |
|      | Thousand                             |                                              | Per Cent                                                   |                                           |                                       | Dollar                                                            | Doctor                   | Dentist | Hospital Bed |
| 1982 | 1,253                                | 2.6                                          | 63.4                                                       | 74.0                                      | 17.6                                  | 140                                                               | 1,063                    | 5,885   | 241          |
| 1983 | 1,293                                | 3.2                                          | 63.8                                                       | 71.0                                      | 16.4                                  | 168                                                               | 1,019                    | 5,519   | 244          |
| 1984 | 1,304                                | 2.7                                          | 63.4                                                       | 72.3                                      | 15.2                                  | 183                                                               | 976                      | 5,145   | 252          |
| 1985 | 1,288                                | 4.1                                          | 62.2                                                       | 69.1                                      | 16.3                                  | 195                                                               | 944                      | 5,005   | 248          |
| 1986 | 1,299                                | 6.5                                          | 62.3                                                       | 70.2                                      | 16.5                                  | 163                                                               | 906                      | 4,788   | 249          |
| 1987 | 1,329                                | 4.7                                          | 62.7                                                       | 70.4                                      | 16.2                                  | 176                                                               | 869                      | 4,585   | 255          |
| 1988 | 1,378                                | 3.3                                          | 62.9                                                       | 70.0                                      | 15.8                                  | 197                                                               | 822                      | 4,382   | 267          |
| 1989 | 1,425                                | 2.2                                          | 63.1                                                       | 69.4                                      | 15.3                                  | 240                                                               | 779                      | 4,118   | 275          |
| 1990 | 1,516                                | 2.0                                          | 64.9                                                       | 67.4                                      | 14.3                                  | 269                                                               | 757                      | 4,025   | 277          |
| 1991 | 1,554                                | 1.9                                          | 64.8                                                       | 67.7                                      | 14.2                                  | 310                                                               | 731                      | 4,051   | 282          |
| 1992 | 1,620                                | 2.7                                          | 65.3                                                       | 66.3                                      | 14.5                                  | 429                                                               | 711                      | 3,992   | 290          |

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

1 Data refer to resident population and the period refers to financial year beginning on 1 April and ending on 31 March the following year.

2 Data refer to resident population.

# SOCIAL INDICATORS IV, 1982-1992

| Year | Culture & Recreation         |                                                          |                 |                           | Communications       |                             |             |             |      |
|------|------------------------------|----------------------------------------------------------|-----------------|---------------------------|----------------------|-----------------------------|-------------|-------------|------|
|      | Daily Newspapers Circulation | Per Cent of National Library Members to Total Population |                 | Annual Cinema Attendances | Television Licences  | Residential Telephone Lines | Persons Per |             |      |
|      | Per 1,000 Population         | Under 12 Years                                           | 12 Years & Over | Per Person                | Per 1,000 Population |                             | Public Bus  | Private Car | Taxi |
| 1982 | 278                          | 42.1                                                     | 17.8            | 15                        | 179                  | 194                         | 312         | 15          | 230  |
| 1983 | 289                          | 44.8                                                     | 22.0            | 13                        | 193                  | 204                         | 301         | 13          | 225  |
| 1984 | 290                          | 46.3                                                     | 25.1            | 11                        | 194                  | 219                         | 295         | 12          | 221  |
| 1985 | 288                          | 49.9                                                     | 29.7            | 9                         | 194                  | 234                         | 285         | 12          | 227  |
| 1986 | 272                          | 51.3                                                     | 33.3            | 8                         | 202                  | 241                         | 292         | 13          | 236  |
| 1987 | 274                          | 45.9                                                     | 32.4            | 8                         | 208                  | 245                         | 292         | 13          | 242  |
| 1988 | 286                          | 27.6                                                     | 14.6            | 9                         | 213                  | 249                         | 291         | 12          | 248  |
| 1989 | 293                          | 33.4                                                     | 20.9            | 8                         | 201                  | 255                         | 290         | 11          | 249  |
| 1990 | 301                          | 34.7                                                     | 24.8            | 8                         | 215                  | 258                         | 286         | 11          | 221  |
| 1991 | 318                          | 33.9                                                     | 27.7            | 8                         | 216                  | 260                         | 291         | 11          | 217  |
| 1992 | 325                          | 33.6                                                     | 30.5            | 7                         | 218                  | 265                         | 292         | 10          | 210  |

Note : Data refer to resident population.



# SOCIAL INDICATORS V, 1982-1992

| Year | Public Housing <sup>1</sup>       |                                      |                                                     |                             | Utilities                                     |                                         | Fire   |                           | Public Order                   |              |
|------|-----------------------------------|--------------------------------------|-----------------------------------------------------|-----------------------------|-----------------------------------------------|-----------------------------------------|--------|---------------------------|--------------------------------|--------------|
|      | Public Flats                      |                                      | Per Cent of Total Population Living In <sup>4</sup> |                             | Domestic Electricity Consumption Per Resident | Domestic Water Consumption Per Resident | Number | Value of Property Damaged | Total Offences                 | Police Force |
|      | Total <sup>2</sup> Number Managed | Per Cent Owner-occupied <sup>3</sup> | Public Flats                                        | Owner-occupied Public Flats | Kilowatt Hour                                 | Cubic Metre                             |        | Million Dollars           | Per 10,000 Resident Population |              |
| 1982 | 399,935                           | 66                                   | 75                                                  | 50                          | 493.3                                         | 52.5                                    | 6,093  | 26.5                      | 167                            | 31           |
| 1983 | 430,169                           | 70                                   | 77                                                  | 54                          | 545.7                                         | 55.0                                    | 6,802  | 47.1                      | 171                            | 32           |
| 1984 | 506,340                           | 74                                   | 81                                                  | 60                          | 546.8                                         | 55.7                                    | 4,646  | 28.0                      | 184                            | 32           |
| 1985 | 551,767                           | 76                                   | 84                                                  | 64                          | 588.8                                         | 57.1                                    | 5,384  | 18.8                      | 188                            | 33           |
| 1986 | 585,445                           | 78                                   | 85                                                  | 66                          | 621.5                                         | 57.4                                    | 5,306  | 17.3                      | 198                            | 33           |
| 1987 | 612,826                           | 80                                   | 86                                                  | 69                          | 676.9                                         | 59.4                                    | 5,206  | 17.9                      | 194                            | 31           |
| 1988 | 630,645                           | 82                                   | 87                                                  | 71                          | 717.4                                         | 61.4                                    | 4,718  | 39.9                      | 223                            | 30           |
| 1989 | 610,955                           | 87                                   | 88                                                  | 79                          | 735.0                                         | 62.5                                    | 5,177  | 75.6                      | 211                            | 29           |
| 1990 | 623,821                           | 87                                   | 87                                                  | 80                          | 884.3                                         | 65.6                                    | 6,444  | 43.7                      | 204                            | 29           |
| 1991 | 626,313                           | 88                                   | 87                                                  | 82                          | 962.0                                         | 67.9                                    | 5,740  | 23.2                      | 193                            | 29           |
| 1992 | 641,016                           | 89                                   | 87                                                  | 82                          | 1,024.9                                       | 70.0                                    | 5,102  | 9.2 <sup>p</sup>          | 183                            | 29           |

1 Refer to flats managed by Housing and Development Board.

2 As at end of year.

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

4 Data from 1990 refer to resident population.

# 1 CLIMATE, ATMOSPHERIC ENVIRONMENT AND LAND USE

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

The land area of Singapore is approximately 147.9 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 22 kilometres from north to south with a coastline of 193.2 kilometres.

## Geography

Location  
Singapore is situated in the southern tip of the Malay Peninsula, about 140 kilometres north of the equator. It is located at the intersection of the equator and the 101st meridian. Its coordinates are 1° 17' N and 103° 45' E. The island is situated at the focal point of the trade routes connecting the development of Singapore as a regional centre for commerce, finance, transport and communications, and other services.

## Land Use

CLIMATE, ATMOSPHERIC ENVIRONMENT AND LAND USE

## Climate

The climate of Singapore is hot and humid throughout the year. The average annual rainfall is 2150 millimetres. The climate is characterized by high humidity and high rainfall. The average annual rainfall is 2150 millimetres. The climate is characterized by high humidity and high rainfall.



## 1 CLIMATE, ATMOSPHERIC ENVIRONMENT AND LAND USE

### Location

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

### Geography

The land area of Singapore is approximately 641.0 square kilometres. It comprises the main island and a number of islets scattered off its north-east and south. The main island measures about 42 kilometres from east to west and 23 kilometres from north to south with a coastline of 150.5 kilometres.

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

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

### Climate

The main features of the climate of Singapore are the relatively stable temperature throughout the year 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  $31^{\circ}C$  and  $24^{\circ}C$  respectively. The relative humidity is usually between 65 and 70 per cent on dry afternoons but frequently exceeds 90 per cent in the early hours of the morning before sunrise. Although rain falls throughout the year, the wettest months are usually during the first part of the Northeast Monsoon season from November to January. During the Southwest Monsoon season, from May to September, early morning line squalls occasionally hit the island.

## Air Pollution

The Ministry of the Environment monitors the ambient air quality through 11 stations located in urban, industrial and rural areas. Some of the pollutants commonly monitored are sulphur dioxide, smoke, nitrogen oxides and dust fallout. The sulphur dioxide and dust fallout are monitored at 9 stations, nitrogen oxides at 10 stations and smoke levels at 6 stations. The overall air pollution levels in 1992 were

generally low and were within the accepted international standards.

## Land Use

Of the total land area, about 49.2 per cent has been developed for residential, commercial and industrial usage and another 1.1 per cent used for agriculture. The rest consists of forest reserves, marsh and other non-built up areas.



# 1.1 WEATHER CONDITION, 1982-1992

| Year | Mean Temperature (°C) |         | Mean Relative Humidity at 2.00pm <sup>1</sup> (%) | Rainfall   |                       |                      | Bright Sunshine  |
|------|-----------------------|---------|---------------------------------------------------|------------|-----------------------|----------------------|------------------|
|      | Maximum               | Minimum |                                                   | Total (mm) | Maximum in a Day (mm) | Number of Rainy days | Daily Mean Hours |
| 1982 | 31.4                  | 24.6    | 69                                                | 1,582      | 109                   | 130                  | 5.7              |
| 1983 | 31.7                  | 24.9    | 70                                                | 1,994      | 182                   | 145                  | 5.6              |
| 1984 | 30.8                  | 24.0    | 74                                                | 2,687      | 154                   | 191                  | 5.1              |
| 1985 | 31.3                  | 24.3    | 71                                                | 1,484      | 87                    | 181                  | 5.6              |
| 1986 | 31.1                  | 24.4    | 71                                                | 2,536      | 132                   | 174                  | 5.5              |
| 1987 | 31.5                  | 24.7    | 71                                                | 2,103      | 127                   | 151                  | 5.9              |
| 1988 | 31.3                  | 24.6    | 72                                                | 2,599      | 187                   | 173                  | 5.4              |
| 1989 | 31.2                  | 24.1    | 72                                                | 2,463      | 149                   | 173                  | 5.5              |
| 1990 | 31.8                  | 24.8    | 69                                                | 1,524      | 154                   | 142                  | 6.2              |
| 1991 | 31.5                  | 24.7    | 71                                                | 1,877      | 130                   | 146                  | 5.4              |
| 1992 | 31.5                  | 24.4    | 71                                                | 2,261      | 121                   | 163                  | 5.5              |

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

Source : Meteorological Service

## 1.2 AIR POLLUTION LEVELS, 1982-1992

| Year | Sulphur Dioxide <sup>1</sup>                               |            |       | Smoke Levels |            |       | Nitrogen Oxides Levels |            |       | Dust Fallout Levels              |            |       |
|------|------------------------------------------------------------|------------|-------|--------------|------------|-------|------------------------|------------|-------|----------------------------------|------------|-------|
|      | Urban                                                      | Industrial | Rural | Urban        | Industrial | Rural | Urban                  | Industrial | Rural | Urban                            | Industrial | Rural |
|      | Microgram per cubic metre at normal temperature & pressure |            |       |              |            |       |                        |            |       | Grams per square metre per month |            |       |
| 1982 | 31                                                         | 34         | 25    | 24           | 20         | 20    | 61                     | 50         | 48    | 0.69                             | 1.36       | 0.70  |
| 1983 | 34                                                         | 32         | 21    | 25           | 19         | 15    | 50                     | 31         | -     | 1.10                             | 1.31       | 1.01  |
| 1984 | 35                                                         | 28         | 24    | 26           | 18         | 16    | 62                     | 38         | -     | 0.87                             | 0.92       | 0.83  |
| 1985 | 24                                                         | 20         | 14    | 26           | 19         | 15    | 64                     | 38         | -     | 1.07                             | 0.85       | 0.92  |
| 1986 | 18                                                         | 14         | 9     | 25           | 17         | 15    | 65                     | 44         | -     | 0.90                             | 0.70       | 0.79  |
| 1987 | 14                                                         | 11         | 14    | 24           | 24         | 18    | 97                     | 45         | -     | 0.77                             | 0.90       | 0.72  |
| 1988 | 17                                                         | 21         | 16    | 26           | 23         | 16    | 37                     | 35         | -     | 0.75                             | 0.80       | 0.61  |
| 1989 | 25                                                         | 18         | 24    | 24           | 20         | 17    | 42                     | 31         | -     | 0.75                             | 0.82       | 0.53  |
| 1990 | 21                                                         | 29         | 14    | 22           | 21         | 16    | 45                     | 34         | -     | 0.70                             | 0.69       | 0.59  |
| 1991 | 16                                                         | 28         | 13    | 19           | 21         | 15    | 29                     | 44         | -     | 0.54                             | 0.69       | 0.60  |
| 1992 | 20                                                         | 24         | 12    | 24           | 27         | -     | 43                     | 41         | -     | 0.45                             | 0.49       | 0.35  |

<sup>1</sup> Prior to 1992, figures refer to Total Acidity Levels.

Source : Ministry of the Environment



### 1.3 LAND USE, 1982-1992

Square Kilometres

| Year | Total | Built-up Area <sup>1</sup> | Farm Holding Area <sup>2</sup> | Forest | Marsh & Tidal Waste | Others <sup>3</sup> |
|------|-------|----------------------------|--------------------------------|--------|---------------------|---------------------|
| 1982 | 618.1 | 289.9                      | 67.7                           | 28.6   | 21.4                | 210.5               |
| 1983 | 618.1 | 291.7                      | 64.3                           | 28.6   | 21.1                | 212.4               |
| 1984 | 620.2 | 295.0                      | 58.9                           | 28.6   | 18.7                | 219.0               |
| 1985 | 620.5 | 298.8                      | 47.1                           | 28.6   | 18.5                | 227.5               |
| 1986 | 621.7 | 300.3                      | 39.7                           | 28.6   | 18.2                | 234.9               |
| 1987 | 622.6 | 302.9                      | 32.6                           | 28.6   | 15.7                | 242.8               |
| 1988 | 625.6 | 304.2                      | 20.4                           | 28.6   | 15.7                | 256.7               |
| 1989 | 626.4 | 307.4                      | 12.0                           | 28.6   | 15.7                | 262.8               |
| 1990 | 633.0 | 311.6                      | 10.8                           | 28.6   | 15.7                | 266.4               |
| 1991 | 639.1 | 312.4                      | 6.8                            | 28.6   | 15.7                | 275.7               |
| 1992 | 641.0 | 315.7                      | 6.8                            | 28.6   | 15.7                | 274.2               |

1 Include new industrial sites.

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

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

Source : Survey Department

## 2 DEMOGRAPHY



## 2 DEMOGRAPHY

### Population Census

Singapore's first census was taken in April 1871. After that, regular censuses were undertaken in ten-year intervals up to 1931. The Second World War delayed the next census till 1947. In the pre-war censuses, Singapore was included as part of the Straits Settlements and, later, part of Malaya. Separate censuses for Singapore were carried out since 1947. The 1990 Census was Singapore's third census since independence. The other two censuses were conducted in 1970 and 1980.

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

### Mid-Year Estimates

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

### Births and Deaths

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

Registration facilities for births and deaths are available at the Registry of Births and Deaths, and at designated government hospitals. Deaths and still-births can also be registered at gazetted police stations/sub-stations/neighbourhood police posts. The registration system is comprehensive and the records of vital statistics are virtually complete.

Measures of natality and mortality include the crude birth and crude death rates. From 1981 onwards, these are defined as the number of live-births and deaths respectively of Singapore residents, per thousand mid-year resident population.

## Marriages

Registration of marriages is compulsory in Singapore. Marriages other than Muslim marriages are registered under the Women's Charter, 1961. Notices of such marriages have to be lodged with the Registrar of Marriages regardless of the venue of solemnization.

Registration of Muslim marriages in Singapore became compulsory from 1 July 1909 when the Mohammadan Marriage Ordinance, 1908 (Ordinance No. XXV of 1908) was enacted. This Ordinance was subsequently repealed and replaced by the Administration of Muslim Law Act, 1966.

## Divorces

Pertinent information on Muslim divorces are compiled from records maintained by the Syariah Court while those on non-Muslim divorces are compiled from petitions submitted to the Supreme Court. Time-dependent variables, eg, the year of occurrence, age of divorcees, and duration of marriage are based on the date of registration for Muslim divorces and date decree made absolute for non-Muslim divorces.

## Definitions

Rates on fertility and reproduction refer to residents only.

*Age-specific fertility rate (ASFR)* : It refers to the number of births by mothers of a specific age group during a given year, per thousand females in that age group.

*Total fertility rate (TFR)* : It is the average number of children that would be born per female, if all females lived to the end of their childbearing years and bore children according to a given set of age-specific fertility rates. It is derived by aggregating the age-specific fertility rates of females in each of the reproductive ages for a specific year.

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

*Net reproduction rate (NRR)* : It is a refinement of the gross reproduction rate, in that it takes into account the mortality of females from birth to the end of their reproductive years. It is the average number of female children that would replace one female if current fertility and mortality levels prevail. It is also the measure of replacement of population.

*Age-specific marriage rate (ASMR)* : It is defined as the number of persons within a specific age group marrying in a given year, out of every thousand unmarried persons in the same age group. From 1984 onwards, the rates refer to Singapore residents only.



## Other References

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

Annual data on marriages and divorces are available in the publication "Statistics on Marriages and Divorces". This publication analyses annual marriage trends and the socio-economic characteristics of grooms and brides, as well as provides insight into the nature of divorces and the socio-

economic characteristics of divorcees.

The annual "Report on Registration of Births and Deaths" published by the Registrar-General of Births and Deaths also provides demographic and socio-economic characteristics of parents and characteristics of births, detailed causes of death, together with statistical tables and charts.

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

# 2.1 POPULATION, 1901 ..., 1982-1992

| Year               | Population |         |         |         |         |        |         |                      |         |        |         | Rate of<br>Population<br>Increase | Sex Ratio<br>(Males<br>Per 1,000<br>Females) |
|--------------------|------------|---------|---------|---------|---------|--------|---------|----------------------|---------|--------|---------|-----------------------------------|----------------------------------------------|
|                    | Total      |         |         | Chinese |         | Malays |         | Indians <sup>1</sup> |         | Others |         |                                   |                                              |
|                    | Persons    | Males   | Females | Males   | Females | Males  | Females | Males                | Females | Males  | Females |                                   |                                              |
|                    | Thousand   |         |         |         |         |        |         |                      |         |        |         | Per Cent                          |                                              |
| Census             |            |         |         |         |         |        |         |                      |         |        |         |                                   |                                              |
| 1901               | 227.6      | 170.0   | 57.6    | 130.4   | 33.7    | 20.2   | 15.8    | 14.3                 | 3.4     | 5.1    | 4.7     | 2.3                               | 2,951                                        |
| 1911               | 303.3      | 215.5   | 87.8    | 161.6   | 57.9    | 22.6   | 19.2    | 23.1                 | 4.7     | 8.2    | 6.0     | 2.9                               | 2,453                                        |
| 1921               | 418.3      | 280.9   | 137.4   | 214.2   | 100.9   | 29.6   | 24.0    | 26.9                 | 5.4     | 10.2   | 7.1     | 3.3                               | 2,044                                        |
| 1931               | 557.7      | 352.1   | 205.6   | 261.0   | 157.6   | 34.9   | 30.1    | 42.8                 | 8.0     | 13.4   | 9.9     | 2.9                               | 1,713                                        |
| 1947               | 938.2      | 515.0   | 423.2   | 387.4   | 342.1   | 62.3   | 51.5    | 51.7                 | 17.3    | 13.6   | 12.3    | 3.3                               | 1,217                                        |
| 1957               | 1,445.9    | 762.8   | 683.1   | 555.7   | 534.9   | 103.2  | 93.8    | 86.0                 | 38.1    | 17.9   | 16.3    | 4.4                               | 1,117                                        |
| 1970               | 2,074.5    | 1,062.1 | 1,012.4 | 796.5   | 783.4   | 158.4  | 153.0   | 87.5                 | 57.6    | 19.7   | 18.4    | 2.8                               | 1,049                                        |
| 1980               | 2,282.1    | 1,159.0 | 1,123.1 | 900.2   | 887.6   | 167.3  | 161.4   | 80.4                 | 63.0    | 11.1   | 11.1    | 1.3 <sup>2</sup>                  | 1,032                                        |
| 1990               | 2,705.1    | 1,370.1 | 1,335.0 | 1,057.6 | 1,045.2 | 195.2  | 187.4   | 103.4                | 87.5    | 13.9   | 14.9    | 2.2                               | 1,026                                        |
| Mid-year Estimates |            |         |         |         |         |        |         |                      |         |        |         |                                   |                                              |
| 1982               | 2,365.7    | 1,200.3 | 1,165.4 | 931.8   | 919.4   | 171.9  | 165.9   | 85.0                 | 68.2    | 11.6   | 11.9    | 1.8                               | 1,030                                        |
| 1983               | 2,406.2    | 1,220.5 | 1,185.7 | 946.8   | 934.5   | 174.4  | 168.3   | 87.4                 | 70.6    | 11.9   | 12.3    | 1.7                               | 1,029                                        |
| 1984               | 2,443.7    | 1,239.1 | 1,204.6 | 960.5   | 948.3   | 176.9  | 170.6   | 89.5                 | 73.1    | 12.2   | 12.6    | 1.6                               | 1,029                                        |
| 1985               | 2,482.6    | 1,258.5 | 1,224.1 | 974.6   | 962.5   | 179.6  | 173.0   | 91.8                 | 75.5    | 12.5   | 13.1    | 1.6                               | 1,028                                        |
| 1986               | 2,518.6    | 1,276.5 | 1,242.1 | 987.4   | 975.4   | 182.4  | 175.5   | 94.0                 | 77.7    | 12.7   | 13.5    | 1.5                               | 1,028                                        |
| 1987               | 2,553.9    | 1,294.2 | 1,259.7 | 1,000.0 | 988.1   | 185.0  | 178.0   | 96.2                 | 79.9    | 13.0   | 13.7    | 1.4                               | 1,027                                        |
| 1988               | 2,598.5    | 1,316.6 | 1,281.9 | 1,016.8 | 1,004.7 | 188.1  | 180.9   | 98.4                 | 82.3    | 13.3   | 14.0    | 1.7                               | 1,027                                        |
| 1989               | 2,647.6    | 1,341.3 | 1,306.3 | 1,035.6 | 1,023.5 | 191.5  | 183.9   | 100.7                | 84.6    | 13.5   | 14.3    | 1.9                               | 1,027                                        |
| 1990 (Census)      | 2,705.1    | 1,370.1 | 1,335.0 | 1,057.6 | 1,045.2 | 195.2  | 187.4   | 103.4                | 87.5    | 13.9   | 14.9    | 2.2                               | 1,026                                        |
| 1991               | 2,762.7    | 1,398.0 | 1,364.7 | 1,078.7 | 1,067.4 | 199.5  | 191.7   | 105.1                | 90.0    | 14.7   | 15.6    | 2.1                               | 1,024                                        |
| 1992               | 2,818.2    | 1,423.7 | 1,394.5 | 1,097.8 | 1,089.4 | 203.5  | 195.9   | 107.1                | 92.5    | 15.3   | 16.7    | 2.0                               | 1,021                                        |

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

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



## 2.2 ESTIMATES OF SINGAPORE RESIDENTS (MALES) BY AGE GROUP, 1982-1992

Thousand

| Age Group<br>(Years) | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990 <sup>1</sup> | 1991    | 1992    |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|---------|---------|
| <b>Total</b>         | 1,200.3 | 1,220.5 | 1,239.1 | 1,258.5 | 1,276.5 | 1,294.2 | 1,316.6 | 1,341.3 | 1,370.1           | 1,398.0 | 1,423.7 |
| 0 - 4                | 99.8    | 103.0   | 103.6   | 105.5   | 105.3   | 103.8   | 106.2   | 112.2   | 115.7             | 121.4   | 126.3   |
| 5 - 9                | 106.9   | 102.1   | 100.2   | 99.7    | 101.0   | 102.1   | 104.7   | 105.0   | 106.4             | 106.6   | 106.0   |
| 10 - 14              | 112.6   | 113.3   | 114.1   | 113.5   | 110.9   | 108.5   | 103.9   | 102.1   | 102.3             | 103.7   | 104.4   |
| 15 - 19              | 132.5   | 128.1   | 121.8   | 116.9   | 113.7   | 113.0   | 113.9   | 114.8   | 114.5             | 112.0   | 109.7   |
| 20 - 24              | 143.4   | 142.7   | 141.6   | 138.6   | 135.5   | 131.7   | 127.7   | 122.0   | 118.4             | 116.5   | 116.6   |
| 25 - 29              | 131.9   | 137.8   | 141.9   | 145.6   | 147.7   | 147.2   | 146.5   | 145.5   | 143.7             | 142.1   | 139.7   |
| 30 - 34              | 109.1   | 113.6   | 118.9   | 123.9   | 130.1   | 136.5   | 141.5   | 145.3   | 149.3             | 151.9   | 152.2   |
| 35 - 39              | 71.5    | 80.5    | 89.2    | 100.8   | 109.1   | 112.2   | 117.1   | 122.6   | 128.7             | 135.0   | 141.2   |
| 40 - 44              | 66.6    | 66.8    | 66.8    | 63.7    | 63.9    | 72.8    | 81.9    | 90.5    | 103.3             | 112.2   | 115.4   |
| 45 - 49              | 53.9    | 55.0    | 58.4    | 61.0    | 64.2    | 66.2    | 66.7    | 66.9    | 64.3              | 64.7    | 73.8    |
| 50 - 54              | 48.8    | 49.7    | 49.9    | 51.3    | 52.2    | 52.4    | 53.4    | 56.4    | 59.1              | 62.8    | 65.2    |
| 55 - 59              | 38.4    | 40.3    | 42.4    | 44.2    | 45.7    | 46.4    | 47.3    | 47.9    | 49.7              | 50.2    | 50.2    |
| 60 - 64              | 30.7    | 31.4    | 32.1    | 33.0    | 34.1    | 35.6    | 37.4    | 39.1    | 40.9              | 42.1    | 42.7    |
| 65 - 69              | 23.3    | 23.7    | 24.2    | 25.0    | 25.9    | 26.6    | 27.5    | 28.4    | 29.3              | 30.4    | 31.7    |
| 70 & Over            | 30.9    | 32.5    | 34.1    | 35.8    | 37.2    | 39.2    | 40.9    | 42.6    | 44.5              | 46.4    | 48.6    |

1 Census of Population.

# 2.3 ESTIMATES OF SINGAPORE RESIDENTS (FEMALES) BY AGE GROUP, 1982-1992

Thousand

| Age Group<br>(Years) | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990 <sup>1</sup> | 1991    | 1992    |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|---------|---------|
| Total                | 1,165.4 | 1,185.7 | 1,204.6 | 1,224.1 | 1,242.1 | 1,259.7 | 1,281.9 | 1,306.3 | 1,335.0           | 1,364.7 | 1,394.5 |
| 0 - 4                | 92.2    | 94.8    | 95.6    | 97.8    | 97.0    | 96.3    | 98.7    | 104.5   | 107.7             | 113.1   | 118.4   |
| 5 - 9                | 99.7    | 95.4    | 93.2    | 92.4    | 93.8    | 94.5    | 96.8    | 97.1    | 98.6              | 98.4    | 98.1    |
| 10 - 14              | 105.8   | 106.2   | 106.5   | 105.9   | 103.6   | 101.3   | 97.1    | 95.1    | 95.6              | 96.9    | 97.2    |
| 15 - 19              | 126.6   | 122.3   | 116.3   | 111.0   | 107.2   | 105.5   | 106.3   | 107.1   | 106.9             | 105.1   | 103.3   |
| 20 - 24              | 135.6   | 135.6   | 135.1   | 133.1   | 131.1   | 127.7   | 123.6   | 117.5   | 113.9             | 112.4   | 113.5   |
| 25 - 29              | 127.3   | 132.6   | 136.8   | 139.6   | 141.1   | 140.9   | 140.6   | 140.5   | 140.0             | 140.0   | 139.1   |
| 30 - 34              | 107.7   | 111.7   | 115.9   | 120.7   | 126.3   | 131.8   | 136.5   | 140.2   | 143.7             | 146.2   | 147.4   |
| 35 - 39              | 70.5    | 79.5    | 87.8    | 99.2    | 107.5   | 110.3   | 114.2   | 118.7   | 124.0             | 130.0   | 135.8   |
| 40 - 44              | 66.8    | 67.1    | 66.6    | 63.2    | 62.9    | 71.5    | 80.6    | 88.8    | 100.7             | 109.2   | 112.2   |
| 45 - 49              | 53.0    | 54.2    | 57.7    | 60.3    | 63.9    | 66.2    | 66.7    | 66.4    | 63.3              | 63.1    | 71.9    |
| 50 - 54              | 46.9    | 47.9    | 48.6    | 50.6    | 51.8    | 51.8    | 52.9    | 56.0    | 58.4              | 62.7    | 65.6    |
| 55 - 59              | 36.3    | 38.2    | 40.6    | 43.1    | 44.7    | 45.8    | 46.5    | 47.7    | 50.1              | 50.7    | 50.3    |
| 60 - 64              | 30.5    | 31.3    | 32.0    | 32.3    | 33.4    | 35.1    | 37.1    | 39.6    | 41.9              | 43.2    | 44.0    |
| 65 - 69              | 25.7    | 25.9    | 26.5    | 27.3    | 28.0    | 28.6    | 29.3    | 29.9    | 30.4              | 31.6    | 33.2    |
| 70 & Over            | 40.8    | 43.3    | 45.4    | 47.6    | 49.8    | 52.4    | 55.0    | 57.2    | 59.8              | 62.1    | 64.5    |

1 Census of Population.



# 2.4 ESTIMATES OF SINGAPORE RESIDENTS BY AGE GROUP, ETHNIC GROUP AND SEX, END JUNE 1992

| Age Group<br>(Years) | Total   |         |         | Chinese |         |         | Malays  |       |         | Indians |       |         | Others  |       |         |
|----------------------|---------|---------|---------|---------|---------|---------|---------|-------|---------|---------|-------|---------|---------|-------|---------|
|                      | Persons | Males   | Females | Persons | Males   | Females | Persons | Males | Females | Persons | Males | Females | Persons | Males | Females |
| Thousand             |         |         |         |         |         |         |         |       |         |         |       |         |         |       |         |
| <b>Total</b>         | 2,818.2 | 1,423.7 | 1,394.5 | 2,187.2 | 1,097.8 | 1,089.4 | 399.4   | 203.5 | 195.9   | 199.6   | 107.1 | 92.5    | 32.0    | 15.3  | 16.7    |
| 0 - 4                | 244.7   | 126.3   | 118.4   | 172.5   | 89.3    | 83.2    | 48.3    | 24.7  | 23.6    | 19.2    | 9.8   | 9.4     | 4.7     | 2.5   | 2.2     |
| 5 - 9                | 204.1   | 106.0   | 98.1    | 145.0   | 75.6    | 69.4    | 40.2    | 20.6  | 19.6    | 16.0    | 8.3   | 7.7     | 2.9     | 1.5   | 1.4     |
| 10 - 14              | 201.6   | 104.4   | 97.2    | 154.8   | 80.2    | 74.6    | 31.0    | 16.1  | 14.9    | 13.7    | 7.1   | 6.6     | 2.1     | 1.0   | 1.1     |
| 15 - 19              | 213.0   | 109.7   | 103.3   | 168.9   | 86.9    | 82.0    | 29.2    | 15.2  | 14.0    | 13.2    | 6.7   | 6.5     | 1.7     | 0.9   | 0.8     |
| 20 - 24              | 230.1   | 116.6   | 113.5   | 178.4   | 90.3    | 88.1    | 34.0    | 17.4  | 16.6    | 15.8    | 8.1   | 7.7     | 1.9     | 0.8   | 1.1     |
| 25 - 29              | 278.8   | 139.7   | 139.1   | 209.7   | 105.1   | 104.6   | 45.6    | 23.2  | 22.4    | 20.6    | 10.3  | 10.3    | 2.9     | 1.1   | 1.8     |
| 30 - 34              | 299.6   | 152.2   | 147.4   | 231.1   | 117.1   | 114.0   | 43.7    | 22.6  | 21.1    | 21.7    | 11.2  | 10.5    | 3.1     | 1.3   | 1.8     |
| 35 - 39              | 277.0   | 141.2   | 135.8   | 222.0   | 113.3   | 108.7   | 34.1    | 17.4  | 16.7    | 18.2    | 9.3   | 8.9     | 2.7     | 1.2   | 1.5     |
| 40 - 44              | 227.6   | 115.4   | 112.2   | 186.5   | 94.9    | 91.6    | 24.0    | 11.8  | 12.2    | 14.8    | 7.5   | 7.3     | 2.3     | 1.2   | 1.1     |
| 45 - 49              | 145.7   | 73.8    | 71.9    | 120.4   | 60.9    | 59.5    | 14.5    | 7.1   | 7.4     | 9.4     | 5.0   | 4.4     | 1.4     | 0.8   | 0.6     |
| 50 - 54              | 130.8   | 65.2    | 65.6    | 107.5   | 53.5    | 54.0    | 12.9    | 6.1   | 6.8     | 9.0     | 4.9   | 4.1     | 1.4     | 0.7   | 0.7     |
| 55 - 59              | 100.5   | 50.2    | 50.3    | 78.9    | 39.3    | 39.6    | 12.9    | 6.2   | 6.7     | 7.4     | 4.1   | 3.3     | 1.3     | 0.6   | 0.7     |
| 60 - 64              | 86.7    | 42.7    | 44.0    | 67.1    | 31.5    | 35.6    | 10.5    | 5.1   | 5.4     | 8.0     | 5.6   | 2.4     | 1.1     | 0.5   | 0.6     |
| 65 - 69              | 64.9    | 31.7    | 33.2    | 49.4    | 22.2    | 27.2    | 8.5     | 4.6   | 3.9     | 6.0     | 4.4   | 1.6     | 1.0     | 0.5   | 0.5     |
| 70 & Over            | 113.1   | 48.6    | 64.5    | 95.0    | 37.7    | 57.3    | 10.0    | 5.4   | 4.6     | 6.6     | 4.8   | 1.8     | 1.5     | 0.7   | 0.8     |
| Per Cent             |         |         |         |         |         |         |         |       |         |         |       |         |         |       |         |
| <b>Total</b>         | 100.0   | 100.0   | 100.0   | 100.0   | 100.0   | 100.0   | 100.0   | 100.0 | 100.0   | 100.0   | 100.0 | 100.0   | 100.0   | 100.0 | 100.0   |
| 0 - 14               | 23.1    | 23.6    | 22.5    | 21.6    | 22.3    | 20.9    | 29.9    | 30.2  | 29.6    | 24.5    | 23.5  | 25.6    | 30.3    | 32.7  | 28.1    |
| 15 - 59              | 67.5    | 67.7    | 67.3    | 68.7    | 69.4    | 68.1    | 62.8    | 62.4  | 63.3    | 65.2    | 62.7  | 68.1    | 58.4    | 56.2  | 60.5    |
| 60 & Over            | 9.4     | 8.7     | 10.2    | 9.7     | 8.3     | 11.0    | 7.3     | 7.4   | 7.1     | 10.3    | 13.8  | 6.3     | 11.3    | 11.1  | 11.4    |

## 2.5 VITAL STATISTICS, 1982-1992

| Year              | Live-births        |        |         | Deaths |         | Natural Increase | Crude Birth Rate <sup>2</sup> | Crude Death Rate <sup>2</sup> | Rate of Natural Increase <sup>2</sup> | Infant Mortality Rate |
|-------------------|--------------------|--------|---------|--------|---------|------------------|-------------------------------|-------------------------------|---------------------------------------|-----------------------|
|                   | Total <sup>1</sup> | Males  | Females | Total  | Infants |                  |                               |                               |                                       |                       |
|                   | Number             |        |         |        |         |                  | Per 1,000 Resident Population |                               |                                       | Per 1,000 Live-births |
| 1982              | 42,654             | 22,285 | 20,367  | 12,896 | 456     | 29,758           | 17.5                          | 4.9                           | 12.5                                  | 10.7                  |
| 1983              | 40,585             | 21,049 | 19,533  | 13,321 | 382     | 27,264           | 16.3                          | 5.0                           | 11.3                                  | 9.4                   |
| 1984              | 41,556             | 21,661 | 19,894  | 13,162 | 365     | 28,394           | 16.5                          | 4.8                           | 11.6                                  | 8.8                   |
| 1985              | 42,484             | 22,027 | 20,452  | 13,348 | 394     | 29,136           | 16.6                          | 4.9                           | 11.7                                  | 9.3                   |
| 1986              | 38,379             | 19,929 | 18,447  | 12,821 | 359     | 25,558           | 14.8                          | 4.6                           | 10.1                                  | 9.4                   |
| 1987              | 43,616             | 22,570 | 21,042  | 13,173 | 324     | 30,443           | 16.6                          | 4.7                           | 11.9                                  | 7.4                   |
| 1988              | 52,957             | 27,332 | 25,624  | 13,690 | 368     | 39,267           | 19.8                          | 4.9                           | 15.0                                  | 6.9                   |
| 1989              | 47,669             | 24,712 | 22,951  | 14,069 | 315     | 33,600           | 17.5                          | 4.9                           | 12.6                                  | 6.6                   |
| 1990              | 51,142             | 26,500 | 24,641  | 13,891 | 341     | 37,251           | 18.4                          | 4.8                           | 13.6                                  | 6.7                   |
| 1991              | 49,114             | 25,314 | 23,798  | 13,876 | 269     | 35,283           | 17.3                          | 4.7                           | 12.6                                  | 5.5                   |
| 1992 <sup>P</sup> | 49,675             | 25,626 | 24,048  | 14,337 | 249     | 35,338           | 17.1                          | 4.7                           | 12.4                                  | 5.0                   |

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

2 Rates refer to those of Singapore residents only.

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



# 2.6 AGE SPECIFIC AND TOTAL FERTILITY RATES, GROSS AND NET REPRODUCTION RATES, 1982-1992

Per 1000 Resident Females

| Age Group<br>(Years)    | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992 <sup>p</sup> |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 15 - 19                 | 11.2  | 10.2  | 10.1  | 9.4   | 8.4   | 7.6   | 7.2   | 7.0   | 8.1   | 8.3   | 7.7               |
| 20 - 24                 | 78.6  | 70.9  | 67.2  | 66.5  | 59.0  | 58.5  | 63.2  | 57.9  | 58.6  | 53.2  | 52.1              |
| 25 - 29                 | 133.6 | 122.9 | 121.6 | 121.3 | 107.6 | 122.0 | 143.4 | 126.0 | 135.9 | 129.8 | 130.2             |
| 30 - 34                 | 82.8  | 78.3  | 81.3  | 83.8  | 72.5  | 90.4  | 116.1 | 102.1 | 110.8 | 107.4 | 109.0             |
| 35 - 39                 | 30.4  | 28.9  | 31.4  | 30.5  | 27.4  | 32.6  | 43.6  | 40.9  | 44.1  | 41.8  | 42.2              |
| 40 - 44                 | 4.8   | 3.8   | 4.8   | 4.4   | 4.4   | 5.6   | 7.1   | 7.5   | 7.1   | 6.4   | 6.7               |
| Total Fertility Rate    | 1,707 | 1,575 | 1,582 | 1,580 | 1,396 | 1,583 | 1,902 | 1,707 | 1,823 | 1,734 | 1,740             |
| Gross Reproduction Rate | 817   | 758   | 756   | 761   | 670   | 762   | 920   | 822   | 878   | 840   | 842               |
| Net Reproduction Rate   | 796   | 739   | 737   | 741   | 653   | 743   | 896   | 801   | 864   | 827   | 829               |

Source : Population Planning Unit  
Ministry of Health

# 2.7 LIVE-BIRTHS BY BIRTH ORDER, 1982-1992

| Birth Order        | 1982       | 1983   | 1984   | 1985   | 1986   | 1987   | 1988   | 1989   | 1990   | 1991   | 1992 <sup>1</sup> |
|--------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|
| Total <sup>1</sup> | Number     |        |        |        |        |        |        |        |        |        |                   |
|                    | 42,654     | 40,585 | 41,556 | 42,484 | 38,379 | 43,616 | 52,957 | 47,669 | 51,142 | 49,114 | 49,675            |
|                    | 1st        | 19,105 | 18,255 | 18,071 | 18,638 | 17,336 | 17,586 | 20,522 | 19,465 | 20,325 | 20,380            |
|                    | 2nd        | 14,593 | 14,078 | 15,171 | 15,498 | 13,406 | 16,441 | 19,495 | 16,631 | 18,232 | 17,444            |
|                    | 3rd        | 6,228  | 5,757  | 5,877  | 5,900  | 5,443  | 6,966  | 9,806  | 8,845  | 9,624  | 8,933             |
|                    | 4th        | 1,777  | 1,655  | 1,606  | 1,525  | 1,337  | 1,590  | 2,036  | 2,017  | 2,258  | 2,250             |
|                    | 5th        | 506    | 470    | 436    | 443    | 382    | 398    | 459    | 471    | 481    | 448               |
|                    | 6th & Over | 391    | 302    | 276    | 236    | 205    | 235    | 229    | 237    | 218    | 220               |
| Total              | Per Cent   |        |        |        |        |        |        |        |        |        |                   |
|                    | 100.0      | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0             |
|                    | 1st        | 44.8   | 45.0   | 43.5   | 43.9   | 45.2   | 40.3   | 38.8   | 40.8   | 39.8   | 41.0              |
|                    | 2nd        | 34.2   | 34.7   | 36.5   | 36.5   | 34.9   | 37.7   | 36.8   | 34.9   | 35.7   | 35.1              |
|                    | 3rd        | 14.6   | 14.2   | 14.1   | 13.9   | 14.2   | 16.0   | 18.5   | 18.6   | 18.8   | 18.0              |
|                    | 4th        | 4.2    | 4.1    | 3.9    | 3.6    | 3.5    | 3.6    | 3.8    | 4.2    | 4.4    | 4.5               |
|                    | 5th        | 1.2    | 1.2    | 1.0    | 1.0    | 1.0    | 0.9    | 0.9    | 1.0    | 0.9    | 0.9               |
|                    | 6th & Over | 0.9    | 0.7    | 0.7    | 0.6    | 0.5    | 0.5    | 0.4    | 0.5    | 0.4    | 0.5               |

<sup>1</sup> Include birth order not stated.

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



## 2.8 LIVE-BIRTHS BY PLACE OF OCCURRENCE, 1982-1992

| Place of Occurrence      | 1982   | 1983   | 1984   | 1985   | 1986   | 1987   | 1988   | 1989   | 1990   | 1991   | 1992 <sup>p</sup> |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|
| Number                   |        |        |        |        |        |        |        |        |        |        |                   |
| <b>Total</b>             | 42,654 | 40,585 | 41,556 | 42,484 | 38,379 | 43,616 | 52,957 | 47,669 | 51,142 | 49,114 | 49,675            |
| Public Sector Hospitals  | 33,437 | 30,695 | 30,500 | 30,456 | 25,896 | 26,212 | 28,695 | 24,991 | 24,214 | 23,265 | 23,466            |
| Private Sector Hospitals | 7,892  | 8,858  | 10,337 | 11,375 | 12,054 | 17,004 | 23,908 | 22,364 | 26,618 | 25,622 | 26,007            |
| Nursing Homes            | 412    | 337    | 296    | 259    | 137    | 131    | 119    | 81     | 71     | 36     | 38                |
| Other Locations          | 913    | 695    | 423    | 394    | 292    | 269    | 235    | 233    | 239    | 191    | 164               |
| Per Cent                 |        |        |        |        |        |        |        |        |        |        |                   |
| <b>Total</b>             | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0             |
| Public Sector Hospitals  | 78.4   | 75.7   | 73.4   | 71.7   | 67.5   | 60.1   | 54.2   | 52.4   | 47.3   | 47.4   | 47.2              |
| Private Sector Hospitals | 18.5   | 21.8   | 24.9   | 26.8   | 31.4   | 39.0   | 45.1   | 46.9   | 52.1   | 52.1   | 52.4              |
| Nursing Homes            | 1.0    | 0.8    | 0.7    | 0.6    | 0.3    | 0.3    | 0.2    | 0.2    | 0.1    | 0.1    | 0.1               |
| Other Locations          | 2.1    | 1.7    | 1.0    | 0.9    | 0.8    | 0.6    | 0.5    | 0.5    | 0.5    | 0.4    | 0.3               |

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

# 2.9 MALE AND FEMALE AGE SPECIFIC DEATH RATES, 1987-1992

Per Thousand Residents

| Age Group<br>(Years) | Males |      |      |      |      |      | Females |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|---------|------|------|------|------|------|
|                      | 1987  | 1988 | 1989 | 1990 | 1991 | 1992 | 1987    | 1988 | 1989 | 1990 | 1991 | 1992 |
| Total                | 5.2   | 5.3  | 5.4  | 5.2  | 5.2  | 5.2  | 4.3     | 4.5  | 4.4  | 4.3  | 4.2  | 4.2  |
| Under 1 <sup>1</sup> | 8.5   | 7.1  | 7.0  | 7.1  | 5.9  | 5.4  | 6.2     | 6.8  | 6.0  | 6.2  | 4.9  | 4.5  |
| 1 - 4                | 0.4   | 0.4  | 0.3  | 0.4  | 0.3  | 0.3  | 0.3     | 0.4  | 0.4  | 0.2  | 0.3  | 0.3  |
| 5 - 9                | 0.3   | 0.2  | 0.3  | 0.2  | 0.2  | 0.3  | 0.2     | 0.2  | 0.2  | 0.1  | 0.2  | 0.1  |
| 10 - 14              | 0.3   | 0.2  | 0.3  | 0.3  | 0.2  | 0.4  | 0.2     | 0.2  | 0.2  | 0.2  | 0.3  | 0.2  |
| 15 - 19              | 0.5   | 0.5  | 0.6  | 0.5  | 0.5  | 0.5  | 0.3     | 0.3  | 0.4  | 0.2  | 0.3  | 0.3  |
| 20 - 24              | 0.8   | 0.9  | 0.7  | 0.8  | 0.7  | 0.8  | 0.4     | 0.5  | 0.5  | 0.4  | 0.4  | 0.3  |
| 25 - 29              | 0.8   | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.5     | 0.5  | 0.5  | 0.5  | 0.4  | 0.4  |
| 30 - 34              | 1.0   | 0.9  | 1.0  | 1.0  | 0.9  | 0.9  | 0.7     | 0.7  | 0.6  | 0.6  | 0.5  | 0.6  |
| 35 - 39              | 1.5   | 1.6  | 1.3  | 1.4  | 1.2  | 1.2  | 1.0     | 1.2  | 1.0  | 1.0  | 0.7  | 0.7  |
| 40 - 44              | 2.2   | 2.4  | 2.3  | 2.2  | 1.9  | 2.1  | 1.7     | 1.4  | 1.6  | 1.4  | 1.5  | 1.4  |
| 45 - 49              | 4.0   | 3.7  | 3.6  | 4.0  | 3.5  | 3.7  | 2.7     | 2.6  | 2.4  | 2.4  | 1.9  | 2.3  |
| 50 - 54              | 8.1   | 7.9  | 7.8  | 6.9  | 6.8  | 6.1  | 5.0     | 4.8  | 4.0  | 4.2  | 3.7  | 3.9  |
| 55 - 59              | 14.0  | 13.6 | 14.0 | 12.0 | 12.6 | 11.0 | 7.7     | 7.4  | 6.7  | 7.4  | 6.6  | 6.4  |
| 60 - 64              | 22.2  | 20.0 | 21.2 | 20.9 | 20.8 | 20.4 | 12.8    | 12.1 | 12.3 | 10.9 | 11.1 | 10.7 |
| 65 - 69              | 30.7  | 32.5 | 32.9 | 30.2 | 30.3 | 31.1 | 20.0    | 20.4 | 19.6 | 18.7 | 18.0 | 17.8 |
| 70 & Over            | 70.9  | 71.9 | 73.8 | 68.2 | 68.0 | 68.4 | 56.0    | 58.6 | 56.4 | 55.4 | 53.3 | 53.0 |

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



# 2.10 DEATHS BY BROAD GROUPS OF CAUSES, 1982-1992

|                                               | Number |        |        |        |        |        |        |        |        |        |                    |
|-----------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------|
| Causes of Death                               | 1982   | 1983   | 1984   | 1985   | 1986   | 1987   | 1988   | 1989   | 1990   | 1991   | 1992 <sup>P</sup>  |
| <b>All Causes</b>                             | 12,896 | 13,321 | 13,162 | 13,348 | 12,821 | 13,173 | 13,690 | 14,069 | 13,891 | 13,876 | 14,337             |
| Infective & Parasitic Diseases                | 393    | 432    | 390    | 375    | 402    | 432    | 430    | 439    | 347    | 321    | 327                |
| of which : Tuberculosis                       | 207    | 224    | 163    | 177    | 177    | 186    | 168    | 132    | 113    | 104    | 96                 |
| Neoplasms                                     | 2,729  | 2,903  | 2,817  | 2,939  | 2,921  | 3,169  | 3,233  | 3,321  | 3,314  | 3,405  | 3,480              |
| of which : Cancer                             | 2,668  | 2,858  | 2,776  | 2,893  | 2,887  | 3,131  | 3,194  | 3,283  | 3,269  | 3,361  | 3,440              |
| Endocrine, Nutritional & Metabolic Diseases   | 397    | 423    | 512    | 492    | 508    | 521    | 525    | 461    | 388    | 359    | 267                |
| of which : Diabetes                           | 361    | 373    | 469    | 464    | 479    | 492    | 501    | 419    | 332    | 320    | 236                |
| Diseases of the Blood & Blood-forming Organs  | 33     | 33     | 28     | 29     | 30     | 35     | 35     | 48     | 50     | 40     | 33                 |
| Diseases of the Nervous System & Sense Organs | 121    | 92     | 97     | 87     | 87     | 102    | 133    | 111    | 143    | 117    | 121                |
| Diseases of the Circulatory System            | 4,430  | 4,436  | 4,637  | 4,651  | 4,482  | 4,675  | 4,847  | 5,082  | 5,152  | 5,070  | 5,183              |
| of which : Heart & Hypertensive Diseases      | 2,866  | 2,911  | 3,156  | 3,129  | 3,028  | 3,251  | 3,318  | 3,416  | 3,385  | 3,234  | 3,385              |
| Cerebrovascular Disease                       | 1,469  | 1,454  | 1,413  | 1,418  | 1,355  | 1,343  | 1,414  | 1,551  | 1,666  | 1,700  | 1,685              |
| Diseases of the Respiratory System            | 2,257  | 2,429  | 2,096  | 2,241  | 1,974  | 1,942  | 2,110  | 2,167  | 2,112  | 2,289  | 2,441              |
| of which : Pneumonia                          | 1,375  | 1,513  | 1,204  | 1,287  | 1,082  | 998    | 1,039  | 1,130  | 1,191  | 1,285  | 1,360              |
| Bronchitis                                    | 68     | 77     | 55     | 63     | 53     | 49     | 52     | 33     | 32     | 27     | 46                 |
| Diseases of the Digestive System              | 400    | 403    | 369    | 394    | 326    | 329    | 380    | 363    | 374    | 406    | 338                |
| Diseases of the Genito-Urinary System         | 319    | 375    | 405    | 319    | 343    | 393    | 380    | 370    | 346    | 369    | 353                |
| Congenital Anomalies                          | 182    | 155    | 172    | 189    | 202    | 171    | 201    | 170    | 189    | 164    | 154                |
| of which : Congenital Anomalies of Heart      | 101    | 86     | 91     | 84     | 101    | 87     | 98     | 75     | 84     | 82     | 87                 |
| Certain Causes of Perinatal Mortality         | 215    | 149    | 151    | 147    | 128    | 128    | 127    | 135    | 123    | 89     | 85                 |
| Accidents, Poisonings & Violence              | 966    | 1,085  | 1,095  | 1,082  | 1,025  | 931    | 958    | 1,042  | 1,008  | 1,074  | 541                |
| of which : Motor Vehicle Accidents            | 326    | 323    | 343    | 292    | 265    | 233    | 242    | 245    | 246    | 258    | 192                |
| Other Accidents                               | 198    | 231    | 194    | 214    | 223    | 198    | 168    | 206    | 200    | 229    | 53                 |
| Suicides                                      | 239    | 267    | 211    | 327    | 329    | 302    | 367    | 395    | 354    | 319    | 153                |
| Other Diseases & Causes                       | 454    | 406    | 393    | 403    | 393    | 345    | 331    | 360    | 345    | 173    | 1,014 <sup>1</sup> |
| of which : Senility                           | 219    | 208    | 236    | 170    | 140    | 125    | 112    | 113    | 108    | 16     | 5                  |

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

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

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

# 2.11 RESIDENT POPULATION AGED 60 YEARS AND OVER, 1982-1992

|                                                                                                       | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992    |
|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>Demographic Characteristics<sup>1</sup></b>                                                        |         |         |         |         |         |         |         |         |         |         |         |
| Resident Population ('000)                                                                            | 2,365.7 | 2,406.2 | 2,443.7 | 2,482.6 | 2,518.6 | 2,553.9 | 2,598.5 | 2,647.6 | 2,705.1 | 2,762.7 | 2,818.2 |
| Residents Aged 60 Years & Over ('000)                                                                 | 181.9   | 188.1   | 194.3   | 201.0   | 208.4   | 217.5   | 227.2   | 236.8   | 246.8   | 255.8   | 264.7   |
| Percentage of Resident Population                                                                     | 7.7     | 7.8     | 7.9     | 8.1     | 8.3     | 8.5     | 8.7     | 8.9     | 9.1     | 9.2     | 9.4     |
| Sex Ratios (Males Per 1,000 Females)<br>of Residents Aged                                             |         |         |         |         |         |         |         |         |         |         |         |
| 60 - 69 Years                                                                                         | 960.9   | 963.3   | 962.4   | 973.2   | 977.2   | 976.5   | 977.4   | 971.2   | 971.0   | 969.3   | 963.7   |
| 70 Years & Over                                                                                       | 757.4   | 750.6   | 751.1   | 752.1   | 747.0   | 748.1   | 743.6   | 744.8   | 744.1   | 747.2   | 753.5   |
| 60 Years & Over                                                                                       | 875.3   | 871.6   | 870.1   | 875.0   | 874.1   | 873.4   | 871.5   | 869.0   | 868.3   | 868.5   | 868.0   |
| Literacy Rate of Residents<br>Aged 60 Years & Over <sup>2</sup><br>(Per Thousand Resident Population) |         |         |         |         |         |         |         |         |         |         |         |
| Males                                                                                                 | 716     | 727     | 739     | 751     | 762     | 774     | 785     | 797     | 808     | 822     | 834     |
| Females                                                                                               | 220     | 234     | 248     | 262     | 275     | 289     | 303     | 317     | 330     | 366     | 401     |
| <b>Economic Characteristics<sup>3</sup></b>                                                           |         |         |         |         |         |         |         |         |         |         |         |
| Economically Active Persons<br>Aged 60 Years & Over ('000)                                            | 42.5    | 45.5    | 45.6    | 44.0    | 40.7    | 40.6    | 40.6    | 43.4    | 49.7    | 47.0    | 52.5    |
| Percentage of Total Economically Active                                                               | 3.4     | 3.5     | 3.5     | 3.4     | 3.1     | 3.1     | 3.0     | 3.0     | 3.3     | 3.0     | 3.2     |
| Employed Persons Aged 15-59 Years ('000)                                                              | 1,179.0 | 1,206.4 | 1,224.4 | 1,191.4 | 1,175.3 | 1,227.1 | 1,291.4 | 1,351.0 | 1,419.6 | 1,477.9 | 1,524.1 |
| Self-employed (%)                                                                                     | 12.0    | 12.4    | 12.7    | 12.7    | 12.8    | 12.6    | 12.0    | 12.1    | na      | 11.5    | 11.7    |
| Employees (%)                                                                                         | 85.7    | 85.5    | 85.4    | 85.4    | 85.4    | 85.2    | 86.3    | 86.6    | na      | 87.4    | 87.4    |
| Employed Persons Aged 60 Years & Over ('000)                                                          | 42.1    | 44.8    | 44.7    | 43.2    | 39.1    | 39.7    | 40.2    | 43.0    | 49.6    | 46.5    | 52.0    |
| Self-employed (%)                                                                                     | 39.9    | 42.8    | 39.8    | 37.9    | 43.0    | 44.3    | 40.9    | 41.4    | na      | 35.9    | 37.7    |
| Employees (%)                                                                                         | 56.9    | 53.8    | 56.3    | 58.4    | 52.5    | 52.0    | 55.8    | 56.1    | na      | 61.7    | 60.0    |

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

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

3 Figures refer to Singapore residents and non-residents.



## 2.12 MARRIAGES REGISTERED BY ETHNIC GROUP OF COUPLE, 1982-1992

Number

| Year | All Marriages Registered | Women's Charter |         |         |        |              | Muslim Law Act |        |        |              |
|------|--------------------------|-----------------|---------|---------|--------|--------------|----------------|--------|--------|--------------|
|      |                          | Total           | Chinese | Indians | Others | Inter-ethnic | Total          | Malays | Others | Inter-ethnic |
| 1982 | 22,999                   | 18,177          | 16,370  | 1,009   | 119    | 679          | 4,822          | 3,791  | 257    | 774          |
| 1983 | 21,711                   | 17,117          | 15,226  | 1,029   | 124    | 738          | 4,594          | 3,657  | 255    | 682          |
| 1984 | 24,467                   | 19,973          | 18,049  | 1,076   | 106    | 742          | 4,494          | 3,496  | 260    | 738          |
| 1985 | 23,058                   | 18,495          | 16,603  | 1,117   | 82     | 693          | 4,563          | 3,576  | 261    | 726          |
| 1986 | 19,760                   | 15,375          | 13,705  | 987     | 94     | 589          | 4,385          | 3,415  | 241    | 729          |
| 1987 | 23,100                   | 18,635          | 16,769  | 1,050   | 99     | 717          | 4,465          | 3,545  | 248    | 672          |
| 1988 | 24,583                   | 19,782          | 17,750  | 1,088   | 88     | 856          | 4,801          | 3,787  | 227    | 787          |
| 1989 | 23,340                   | 18,546          | 16,468  | 1,134   | 110    | 834          | 4,794          | 3,763  | 269    | 762          |
| 1990 | 23,953                   | 19,191          | 16,899  | 1,140   | 106    | 1,046        | 4,762          | 3,718  | 259    | 785          |
| 1991 | 24,791                   | 19,985          | 17,740  | 1,128   | 116    | 1,001        | 4,806          | 3,724  | 260    | 822          |
| 1992 | 25,784                   | 21,025          | 18,709  | 1,069   | 124    | 1,123        | 4,759          | 3,658  | 266    | 835          |

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

Source : Registry of Marriages  
Registry of Muslim Marriages

# 2.13 MARRIAGES BY AGE GROUP OF GROOMS AND BRIDES, 1990-1992

| Age Group<br>(Years) | Number             |                   |                    |                   |                    |                   |                    |                   |                    |                   |                    |                   |
|----------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|
|                      | 1990               |                   |                    |                   | 1991               |                   |                    |                   | 1992               |                   |                    |                   |
|                      | Grooms             |                   | Brides             |                   | Grooms             |                   | Brides             |                   | Grooms             |                   | Brides             |                   |
|                      | Women's<br>Charter | Muslim<br>Law Act | Women's<br>Charter | Muslim<br>Law Act | Women's<br>Charter | Muslim<br>Law Act | Women's<br>Charter | Muslim<br>Law Act | Women's<br>Charter | Muslim<br>Law Act | Women's<br>Charter | Muslim<br>Law Act |
| All Ages             | 19,191             | 4,762             | 19,191             | 4,762             | 19,985             | 4,806             | 19,985             | 4,806             | 21,025             | 4,759             | 21,025             | 4,759             |
| Under 20             | 68                 | 67                | 765                | 558               | 89                 | 69                | 716                | 563               | 89                 | 56                | 749                | 492               |
| 20 - 24              | 2,988              | 1,164             | 7,160              | 2,109             | 3,051              | 1,103             | 7,440              | 2,066             | 2,854              | 967               | 7,583              | 2,006             |
| 25 - 29              | 8,654              | 2,198             | 7,678              | 1,307             | 9,005              | 2,183             | 8,046              | 1,316             | 9,311              | 2,170             | 8,478              | 1,330             |
| 30 - 34              | 4,834              | 746               | 2,462              | 407               | 5,079              | 829               | 2,564              | 481               | 5,507              | 859               | 2,821              | 489               |
| 35 - 39              | 1,689              | 293               | 791                | 226               | 1,736              | 285               | 818                | 191               | 2,075              | 358               | 928                | 223               |
| 40 - 44              | 567                | 117               | 232                | 92                | 586                | 150               | 261                | 109               | 682                | 151               | 325                | 121               |
| 45 - 49              | 196                | 60                | 62                 | 23                | 203                | 52                | 77                 | 40                | 252                | 78                | 88                 | 53                |
| 50 & Over            | 195                | 117               | 41                 | 40                | 236                | 135               | 63                 | 40                | 255                | 120               | 53                 | 45                |

Note : See note to Table 2.12.

Source : Registry of Marriages  
Registry of Muslim Marriages



## 2.14 AVERAGE AGE AT MARRIAGE OF GROOMS AND BRIDES, 1982-1992

Years

| Year | All Marriages |        | Women's Charter |        | Muslim Law Act |        |
|------|---------------|--------|-----------------|--------|----------------|--------|
|      | Grooms        | Brides | Grooms          | Brides | Grooms         | Brides |
| 1982 | 28.0          | 24.8   | 28.2            | 25.0   | 27.4           | 24.0   |
| 1983 | 28.1          | 24.9   | 28.3            | 25.2   | 27.3           | 24.0   |
| 1984 | 28.3          | 25.2   | 28.5            | 25.4   | 27.6           | 24.3   |
| 1985 | 28.3          | 25.3   | 28.5            | 25.5   | 27.7           | 24.5   |
| 1986 | 28.8          | 25.6   | 28.9            | 25.8   | 28.3           | 25.0   |
| 1987 | 29.0          | 25.9   | 29.1            | 26.1   | 28.5           | 25.2   |
| 1988 | 29.1          | 26.0   | 29.1            | 26.1   | 28.8           | 25.6   |
| 1989 | 29.3          | 26.2   | 29.4            | 26.3   | 28.7           | 25.4   |
| 1990 | 29.6          | 26.4   | 29.8            | 26.6   | 28.9           | 25.7   |
| 1991 | 29.7          | 26.5   | 29.8            | 26.7   | 29.2           | 25.8   |
| 1992 | 30.0          | 26.7   | 30.1            | 26.8   | 29.6           | 26.2   |

Source : Registry of Marriages  
Registry of Muslim Marriages

# 2.15 AGE SPECIFIC MARRIAGE RATES, 1970, 1980, 1985-1992

| Age Group<br>(Years)                              | 1970  | 1980  | 1985  | 1986 | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  |
|---------------------------------------------------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Males (Per Thousand Unmarried Resident Males)     |       |       |       |      |       |       |       |       |       |       |
| 15 - 19                                           | 1.6   | 1.7   | 1.2   | 1.0  | 1.0   | 0.8   | 1.1   | 1.2   | 1.4   | 1.3   |
| 20 - 24                                           | 52.4  | 49.9  | 43.8  | 35.8 | 37.9  | 38.8  | 39.3  | 36.0  | 36.1  | 32.9  |
| 25 - 29                                           | 173.0 | 140.1 | 110.3 | 87.3 | 104.1 | 112.1 | 104.3 | 110.7 | 112.2 | 116.7 |
| 30 - 34                                           | 171.7 | 138.0 | 109.8 | 92.5 | 107.8 | 111.7 | 103.9 | 98.2  | 108.5 | 109.9 |
| 35 - 39                                           | 113.1 | 106.3 | 83.2  | 70.4 | 87.7  | 77.1  | 77.6  | 69.4  | 78.2  | 79.9  |
| 40 - 44                                           | 59.5  | 62.8  | 54.5  | 60.6 | 61.1  | 59.5  | 63.3  | 42.1  | 51.4  | 50.5  |
| General Marriage Rate (15-44)                     | 51.6  | 55.0  | 54.4  | 45.7 | 53.4  | 56.3  | 55.2  | 53.6  | 56.6  | 57.7  |
| Females (Per Thousand Unmarried Resident Females) |       |       |       |      |       |       |       |       |       |       |
| 15 - 19                                           | 19.1  | 18.4  | 15.2  | 12.4 | 11.9  | 10.8  | 10.7  | 11.1  | 10.9  | 10.1  |
| 20 - 24                                           | 123.8 | 110.5 | 95.5  | 77.5 | 87.9  | 94.6  | 88.5  | 87.4  | 86.9  | 80.4  |
| 25 - 29                                           | 192.3 | 136.5 | 111.8 | 94.1 | 124.3 | 130.3 | 114.4 | 136.0 | 139.4 | 134.7 |
| 30 - 34                                           | 99.1  | 74.3  | 62.6  | 59.2 | 74.3  | 76.7  | 76.7  | 70.3  | 76.8  | 74.9  |
| 35 - 39                                           | 46.0  | 43.6  | 33.4  | 31.9 | 37.8  | 38.1  | 35.8  | 37.0  | 37.7  | 36.9  |
| 40 - 44                                           | 18.1  | 22.0  | 18.5  | 17.3 | 19.3  | 20.7  | 20.3  | 14.8  | 15.7  | 17.6  |
| General Marriage Rate (15-44)                     | 67.3  | 68.9  | 64.0  | 53.9 | 63.9  | 67.1  | 61.7  | 62.1  | 63.9  | 61.3  |

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

Source : Registry of Marriages  
Registry of Muslim Marriages



## 2.16 DIVORCES BY ETHNIC GROUP OF COUPLE, 1985-1992

| Year     | Women's Charter |         |         |        |              | Muslim Law Act |        |         |        |              |
|----------|-----------------|---------|---------|--------|--------------|----------------|--------|---------|--------|--------------|
|          | Total           | Chinese | Indians | Others | Inter-ethnic | Total          | Malays | Indians | Others | Inter-ethnic |
| Number   |                 |         |         |        |              |                |        |         |        |              |
| 1985     | 1,606           | 1,382   | 127     | 11     | 86           | 738            | 579    | 30      | 8      | 121          |
| 1986     | 1,822           | 1,578   | 137     | 18     | 89           | 786            | 617    | 35      | 9      | 125          |
| 1987     | 1,912           | 1,648   | 131     | 24     | 109          | 796            | 636    | 27      | 5      | 128          |
| 1988     | 2,023           | 1,792   | 122     | 16     | 93           | 893            | 714    | 31      | 9      | 139          |
| 1989     | 2,002           | 1,756   | 138     | 16     | 92           | 907            | 712    | 34      | 11     | 150          |
| 1990     | 2,662           | 2,339   | 192     | 22     | 109          | 972            | 762    | 53      | 9      | 148          |
| 1991     | 3,398           | 3,033   | 200     | 14     | 151          | 1,021          | 801    | 40      | 6      | 174          |
| 1992     | 2,942           | 2,552   | 227     | 17     | 146          | 1,002          | 790    | 38      | 6      | 168          |
| Per Cent |                 |         |         |        |              |                |        |         |        |              |
| 1985     | 100.0           | 86.0    | 7.9     | 0.7    | 5.4          | 100.0          | 78.4   | 4.1     | 1.1    | 16.4         |
| 1986     | 100.0           | 86.6    | 7.5     | 1.0    | 4.9          | 100.0          | 78.5   | 4.5     | 1.1    | 15.9         |
| 1987     | 100.0           | 86.2    | 6.8     | 1.3    | 5.7          | 100.0          | 79.9   | 3.4     | 0.6    | 16.1         |
| 1988     | 100.0           | 88.6    | 6.0     | 0.8    | 4.6          | 100.0          | 79.9   | 3.5     | 1.0    | 15.6         |
| 1989     | 100.0           | 87.7    | 6.9     | 0.8    | 4.6          | 100.0          | 78.5   | 3.8     | 1.2    | 16.5         |
| 1990     | 100.0           | 87.9    | 7.2     | 0.8    | 4.1          | 100.0          | 78.4   | 5.5     | 0.9    | 15.2         |
| 1991     | 100.0           | 89.3    | 5.9     | 0.4    | 4.4          | 100.0          | 78.5   | 3.9     | 0.6    | 17.0         |
| 1992     | 100.0           | 86.7    | 7.7     | 0.6    | 5.0          | 100.0          | 78.8   | 3.8     | 0.6    | 16.8         |

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

Source : Supreme Court  
Syariah Court

# 2.17 DIVORCEES BY AGE GROUP AND SEX, 1990-1992

Number

| Age Group<br>(Years) | 1990               |                   |                    |                   | 1991               |                   |                    |                   | 1992               |                   |                    |                   |
|----------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|
|                      | Males              |                   | Females            |                   | Males              |                   | Females            |                   | Males              |                   | Females            |                   |
|                      | Women's<br>Charter | Muslim<br>Law Act | Women's<br>Charter | Muslim<br>Law Act | Women's<br>Charter | Muslim<br>Law Act | Women's<br>Charter | Muslim<br>Law Act | Women's<br>Charter | Muslim<br>Law Act | Women's<br>Charter | Muslim<br>Law Act |
| Total                | 2,662              | 972               | 2,662              | 972               | 3,398              | 1,021             | 3,398              | 1,021             | 2,942              | 1,002             | 2,942              | 1,002             |
| Under 20             | 1                  | 2                 | 3                  | 18                | -                  | 5                 | 3                  | 26                | -                  | 3                 | 1                  | 18                |
| 20 - 24              | 35                 | 59                | 180                | 162               | 69                 | 52                | 249                | 136               | 40                 | 47                | 195                | 120               |
| 25 - 29              | 443                | 233               | 761                | 301               | 557                | 201               | 904                | 276               | 423                | 190               | 708                | 253               |
| 30 - 34              | 746                | 269               | 736                | 178               | 886                | 268               | 913                | 221               | 696                | 254               | 736                | 225               |
| 35 - 39              | 606                | 155               | 455                | 155               | 779                | 214               | 620                | 168               | 688                | 189               | 579                | 181               |
| 40 - 44              | 393                | 109               | 288                | 79                | 545                | 130               | 361                | 101               | 520                | 119               | 362                | 99                |
| 45 - 49              | 181                | 49                | 104                | 36                | 222                | 46                | 156                | 47                | 221                | 77                | 163                | 50                |
| 50 & Over            | 191                | 96                | 68                 | 43                | 260                | 105               | 111                | 46                | 279                | 123               | 124                | 56                |
| Not Stated           | 66                 | -                 | 67                 | -                 | 80                 | -                 | 81                 | -                 | 75                 | -                 | 74                 | -                 |
| Mean Age (Years)     | 37.0               | 35.9              | 33.5               | 32.2              | 37.2               | 36.7              | 33.8               | 33.0              | 38.1               | 37.4              | 34.7               | 33.7              |

Note : See note to Table 2.16.

Source : Supreme Court  
Syariah Court

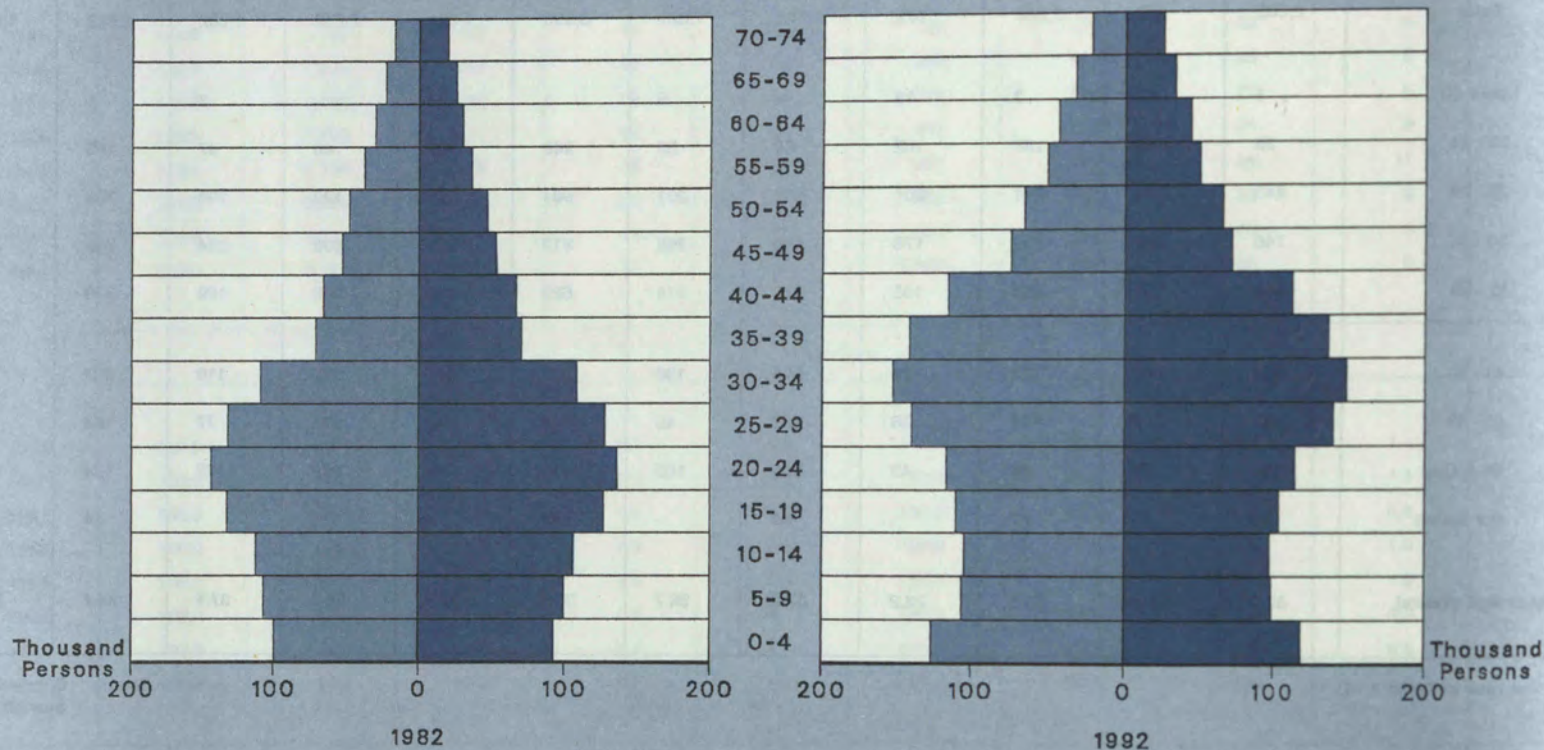


# CHART 1

## AGE DISTRIBUTION OF SINGAPORE RESIDENTS, 1982 AND 1992

Male Female

Age Group  
in Years



continued

Labour Force Survey: Each employee has a unique identifier (ID) which is used to track their employment status over time. The survey is conducted annually and covers the entire population of the country.

Productivity Survey: This survey is conducted annually and covers the entire population of the country. It measures the output per worker in different sectors of the economy. The data is used to calculate the productivity growth rate.

Survey Methodology

The data for the Labour Force Survey and the Productivity Survey is collected through a series of interviews with households and businesses. The Labour Force Survey is a household survey, while the Productivity Survey is a business survey. The data is then processed and analysed to produce the final results.

Unemployed Persons

Refers to those who are not working but are available for work. This category includes people who are looking for work, people who are on sick leave, and people who are on maternity leave. The unemployment rate is calculated as the number of unemployed persons divided by the total labour force.

Economically Active Persons

Refers to those who are working or are actively seeking work. This category includes people who are employed, people who are on sick leave, and people who are on maternity leave. The economically active population is calculated as the sum of the employed and unemployed populations.

### 3 LABOUR, EMPLOYMENT, PRODUCTIVITY MOVEMENT AND TRAINING

Labour Force Survey: Each employee has a unique identifier (ID) which is used to track their employment status over time. The survey is conducted annually and covers the entire population of the country.

Productivity Survey: This survey is conducted annually and covers the entire population of the country. It measures the output per worker in different sectors of the economy. The data is used to calculate the productivity growth rate.

Survey Methodology

The data for the Labour Force Survey and the Productivity Survey is collected through a series of interviews with households and businesses. The Labour Force Survey is a household survey, while the Productivity Survey is a business survey. The data is then processed and analysed to produce the final results.

Monthly Earnings and Occupational Wages

Refers to the monthly earnings of workers in different occupations. The data is used to calculate the average monthly earnings for each occupation. The occupational wage index is calculated as the ratio of the average monthly earnings for a given occupation to the average monthly earnings for all occupations.



### 3 LABOUR, EMPLOYMENT AND PRODUCTIVITY MOVEMENT

#### Labour Force

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

#### Definitions

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

*Unemployed Persons* : Refers to those who did not work during the reference period but were available for work and were looking for a job with pay. Persons in the process of starting their own business or taking up a new job after the reference period were also considered as unemployed.

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

*Economically Inactive Persons* : Refers to those who were not working, did not have a job to return to and were not looking for a job during the reference period.

*Age-Sex Specific Participation Rate* : This refers to the percentage of economically active population to the total population in the specific age-sex groups.

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

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

#### Monthly Earnings and Occupational Wages

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

## Definitions

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

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

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

## Hours Worked

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

## Definitions

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

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

## Employment Service

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

## Definitions

A registrant refers to an unemployed job seeker who is registered for employment assistance at the Department. Each registration is valid for 6 months. If a registrant wants further assistance after the period, he has to renew his registration.

A new registrant refers to an unemployed registrant seeking employment assistance the first time or an ex-



registrant who is re-registered for employment assistance after a break between his previous and current registration.

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

### **Central Provident Fund**

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

Both the worker and his employer contribute to the worker's savings with the CPF. Different contribution rates apply to workers in different age groups. Each member has three accounts: the Ordinary, Medisave and Special Accounts.

Members can withdraw their CPF savings when they reach 55 years of age after setting aside a minimum sum in their Retirement Account. This is to ensure that they have a minimum regular income to meet their basic needs during retirement. Since 1 April 1987, Singaporeans and permanent residents can also top up their own or their parents' Retirement Accounts through transfers from their own CPF savings or with cash. Members can also withdraw their CPF savings if they leave Singapore and West Malaysia permanently or if they are permanently disabled.

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

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

**CPF Contribution Rates wef 1 July 1992 for Employees other than those in the Pensionable Civil Service**

|                                                | Contribution by the employer                                                  | Contribution by the employee                                                  |
|------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <b>For employees who are below 55 years</b>    |                                                                               |                                                                               |
| <b>Employee's total wages for the month</b>    |                                                                               |                                                                               |
| Not exceeding \$50                             | Nil                                                                           | Nil                                                                           |
| Between \$50 and \$200                         | 18% of total wages                                                            | Nil                                                                           |
| Between \$200 and \$363                        | 18% of ordinary wages                                                         | 7% plus one-third of (total wages minus \$200)                                |
| Exceeding \$363                                | 18% of ordinary wages up to a maximum of \$1,080 plus 18% of additional wages | 22% of ordinary wages up to a maximum of \$1,320 plus 22% of additional wages |
| <b>For employees who are 55 years or older</b> |                                                                               |                                                                               |
| <b>Age of employee</b>                         |                                                                               |                                                                               |
| 55 to 59 years                                 | 12.5% of total wages                                                          | 12.5% of total wages                                                          |
| 60 to 64 years                                 | 7.5% of total wages                                                           | 7.5% of total wages                                                           |
| 65 and older                                   | 5% of total wages                                                             | 5% of total wages                                                             |



## **The Productivity Movement**

The National Productivity movement officially started in 1981, with the setting up of the National Productivity Council (NPC). The executive arm of the Council is the National Productivity Board (NPB). The objective of the Board is to inculcate quality work values in all levels of the workforce and stimulate them to improve productivity.

Besides campaigning activities aimed at influencing productive work habits, NPB also provides direct assistance to companies, mainly by offering training programmes and consultancy services.

NPB's training programmes are implemented through its Institute for Productivity Training (IPT) which runs a wide spectrum of productivity enhancing courses, ranging from examinable management programmes for company executives, to short productivity seminars and conferences. It also

trains workers for participation in Quality Control Circles (QCCs).

The Board's management consultancy services are provided by its Management Guidance Centre (MGC) which offers services such as Total Quality Programme (TQP) 5S consultancy, and productivity measurement.

A new training series was launched by the NPB in 1990. Known as the FAST FORWARD programme, the initiative is a national televideo training course. The programme provides flexibility and extensive use of dramatic video to instruct, entertain and motivate workers to learn, especially the older workers.

## **Trade Unions**

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

### 3.1 LABOUR FORCE, 1982-1992

| 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           |         |                   |
| 1982              | 1,253.2                             | 805.8 | 447.4   | 786.5    | 434.7   | 19.3       | 12.7    | 81.5               | 45.2    | 2.6               |
| 1983              | 1,292.8                             | 833.6 | 459.3   | 806.7    | 444.6   | 26.9       | 14.6    | 81.6               | 45.7    | 3.2               |
| 1984              | 1,304.4                             | 829.9 | 474.4   | 808.1    | 461.1   | 21.8       | 13.4    | 81.2               | 45.8    | 2.7               |
| 1985              | 1,287.8                             | 819.4 | 468.4   | 785.4    | 449.2   | 34.1       | 19.1    | 79.9               | 44.9    | 4.1               |
| 1986              | 1,298.5                             | 817.4 | 481.1   | 759.9    | 454.6   | 57.5       | 26.5    | 79.4               | 45.6    | 6.5               |
| 1987              | 1,329.3                             | 827.2 | 502.1   | 785.0    | 481.8   | 42.2       | 20.3    | 78.6               | 47.0    | 4.7               |
| 1988              | 1,377.7                             | 846.3 | 531.5   | 813.9    | 517.7   | 32.4       | 13.8    | 78.5               | 47.8    | 3.3               |
| 1989              | 1,424.7                             | 865.1 | 559.7   | 844.8    | 549.2   | 20.2       | 10.5    | 78.6               | 48.4    | 2.2               |
| 1990 <sup>1</sup> | 1,516.0                             | 933.0 | 583.0   | 912.2    | 573.6   | 20.8       | 9.4     | 79.2               | 50.3    | 2.0               |
| 1991              | 1,554.3                             | 936.4 | 617.9   | 917.8    | 606.5   | 18.7       | 11.3    | 79.8               | 50.5    | 1.9               |
| 1992              | 1,619.6                             | 970.8 | 648.8   | 944.3    | 631.8   | 26.4       | 17.0    | 79.9               | 51.3    | 2.7               |

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

Source : Ministry of Labour  
(Other than Census year)



### 3.2 AGE-SEX SPECIFIC LABOUR FORCE PARTICIPATION RATES, 1982 AND 1989-1992

Per Cent

| Age Group<br>(Years) | 1982    |       |         | 1989    |       |         | 1990 <sup>1</sup> |       |         | 1991    |       |         | 1992    |       |         |
|----------------------|---------|-------|---------|---------|-------|---------|-------------------|-------|---------|---------|-------|---------|---------|-------|---------|
|                      | Persons | Males | Females | Persons | Males | Females | Persons           | Males | Females | Persons | Males | Females | Persons | Males | Females |
| <b>Total</b>         | 63.4    | 81.5  | 45.2    | 63.1    | 78.6  | 48.4    | 64.9              | 79.2  | 50.3    | 64.8    | 79.8  | 50.5    | 65.3    | 79.9  | 51.3    |
| 15 - 19              | 43.1    | 42.2  | 43.9    | 26.8    | 25.5  | 28.2    | 28.1              | 28.4  | 27.8    | 30.4    | 31.1  | 29.8    | 29.3    | 30.0  | 28.6    |
| 20 - 24              | 86.0    | 92.2  | 79.4    | 83.0    | 84.8  | 81.3    | 82.0              | 84.3  | 79.6    | 82.9    | 83.1  | 82.6    | 81.2    | 82.3  | 80.2    |
| 25 - 29              | 80.3    | 97.8  | 62.6    | 85.2    | 96.6  | 74.1    | 86.0              | 95.4  | 76.3    | 86.0    | 97.0  | 75.6    | 87.0    | 97.0  | 77.8    |
| 30 - 34              | 72.7    | 98.5  | 46.7    | 78.7    | 98.3  | 59.8    | 80.2              | 96.6  | 63.0    | 79.8    | 98.7  | 61.9    | 81.5    | 98.6  | 64.7    |
| 35 - 39              | 69.8    | 98.3  | 41.4    | 75.8    | 99.0  | 53.3    | 76.5              | 97.3  | 54.9    | 77.5    | 99.1  | 56.0    | 77.3    | 98.5  | 56.9    |
| 40 - 44              | 67.8    | 98.0  | 38.5    | 73.6    | 97.8  | 50.2    | 75.1              | 97.6  | 51.9    | 75.9    | 98.4  | 54.2    | 76.0    | 98.2  | 54.5    |
| 45 - 49              | 64.2    | 96.6  | 33.2    | 68.1    | 96.1  | 41.3    | 70.3              | 95.2  | 45.0    | 70.3    | 96.5  | 46.2    | 71.6    | 96.1  | 47.6    |
| 50 - 54              | 57.2    | 90.4  | 23.1    | 59.5    | 89.2  | 30.7    | 61.2              | 88.2  | 34.1    | 63.2    | 92.5  | 34.1    | 62.6    | 89.4  | 36.6    |
| 55 - 59              | 47.8    | 75.4  | 18.6    | 42.2    | 66.6  | 19.4    | 44.3              | 68.3  | 21.4    | 46.3    | 71.0  | 21.2    | 47.3    | 71.3  | 22.7    |
| 60 - 64              | 31.4    | 53.9  | 10.0    | 28.9    | 48.2  | 11.0    | 30.1              | 48.4  | 12.8    | 29.7    | 46.9  | 12.3    | 30.5    | 49.2  | 12.6    |
| 65 - 69              | 23.5    | 39.1  | 9.6     | 18.6    | 31.1  | 7.6     | 20.0              | 32.7  | 8.4     | 17.3    | 29.3  | 6.3     | 20.5    | 33.8  | 7.4     |
| 70 - 74              | 16.3    | 27.7  | 6.7     | 11.1    | 18.0  | 5.6     | 13.3              | 22.5  | 5.8     | 10.2    | 17.4  | 4.2     | 11.8    | 20.1  | 5.3     |
| 75 & Over            | 6.9     | 13.0  | 3.0     | 4.7     | 9.0   | 1.8     | 5.6               | 11.1  | 1.9     | 4.9     | 9.6   | 1.9     | 4.7     | 9.6   | 1.3     |

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

Source : Ministry of Labour  
(Other than Census year)

### 3.3 EMPLOYED PERSONS AGED 15 YEARS AND OVER BY INDUSTRY, 1982-1992

Thousand

| Industry                          | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990 <sup>1</sup> | 1991    | 1992    |
|-----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|---------|---------|
| <b>Total</b>                      | 1,221.2 | 1,251.2 | 1,269.1 | 1,234.6 | 1,214.4 | 1,266.9 | 1,331.6 | 1,394.1 | 1,485.8           | 1,524.3 | 1,576.2 |
| Agriculture & Fishing             | 12.4    | 12.6    | 9.5     | 8.7     | 10.1    | 11.0    | 5.8     | 6.3     | 5.7               | 4.3     | 5.0     |
| Quarrying                         | 2.7     | 2.5     | 2.1     | 2.6     | 1.4     | 0.6     | 0.9     | 0.9     | 0.5               | 0.4     | 0.5     |
| Manufacturing                     | 359.7   | 347.6   | 348.1   | 314.2   | 306.6   | 338.7   | 379.1   | 403.7   | 421.9             | 429.6   | 434.1   |
| Utilities                         | 8.5     | 9.1     | 9.9     | 8.2     | 8.2     | 7.6     | 8.4     | 7.5     | 6.8               | 7.1     | 8.0     |
| Construction                      | 77.0    | 90.0    | 107.8   | 110.0   | 105.2   | 97.2    | 89.6    | 92.2    | 134.4             | 99.0    | 103.2   |
| Commerce                          | 271.5   | 284.0   | 285.8   | 290.0   | 280.7   | 296.7   | 304.9   | 318.1   | 327.2             | 345.3   | 356.0   |
| Transport & Communications        | 139.0   | 141.3   | 132.2   | 125.1   | 120.6   | 128.5   | 129.2   | 137.7   | 140.0             | 152.9   | 158.4   |
| Financial & Business Services     | 96.1    | 101.8   | 109.0   | 107.7   | 105.6   | 112.3   | 119.8   | 127.8   | 158.9             | 163.3   | 171.4   |
| Other Services                    | 252.1   | 260.5   | 261.7   | 265.6   | 274.0   | 272.6   | 292.0   | 298.5   | 290.3             | 322.0   | 339.2   |
| Activities Not Adequately Defined | 2.1     | 1.7     | 3.0     | 2.6     | 1.9     | 1.7     | 1.9     | 1.3     | -                 | 0.3     | 0.2     |

Notes : Data for 1990 to 1992 were classified according to the Singapore Standard Industrial Classification (SSIC) 1990, while those from 1982 to 1987 were classified according to SSIC 1978 and those for 1988 to 1989 were according to SSIC 1986. Owing to differences between SSIC 1978, SSIC 1986 and SSIC 1990, the data are strictly not comparable.

Source : Ministry of Labour  
(Other than Census year)

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



### 3.4 EMPLOYED PERSONS AGED 15 YEARS AND OVER BY OCCUPATION, 1982-1992

Thousand

| Occupation                                     | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990 <sup>1</sup> | 1991    | 1992    |
|------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|---------|---------|
| <b>Total</b>                                   | 1,221.2 | 1,251.2 | 1,269.1 | 1,234.6 | 1,214.4 | 1,266.9 | 1,331.6 | 1,394.1 | 1,485.8           | 1,524.3 | 1,576.2 |
| Professional & Technical Workers               | 113.8   | 119.4   | 128.7   | 128.9   | 133.6   | 141.9   | 153.5   | 166.4   | 233.9             | 262.9   | 308.1   |
| Administrative, Managerial & Executive Workers | 62.4    | 66.8    | 75.6    | 70.5    | 72.0    | 76.4    | 92.8    | 106.6   | 122.2             | 137.4   | 157.6   |
| Clerical Workers                               | 200.1   | 210.1   | 210.4   | 197.6   | 190.9   | 196.3   | 205.0   | 211.2   | 197.0             | 225.5   | 225.2   |
| Sales and Service Workers                      | 297.1   | 308.6   | 315.4   | 317.7   | 308.7   | 328.6   | 339.8   | 353.4   | 196.0             | 215.7   | 214.5   |
| Agricultural Workers & Fishermen               | 16.5    | 16.8    | 13.7    | 13.4    | 13.5    | 15.2    | 9.6     | 9.9     | 4.8               | 2.8     | 3.1     |
| Production, Transport & Other Manual Workers   | 470.0   | 472.6   | 474.7   | 448.2   | 434.4   | 449.0   | 470.1   | 488.6   | 651.0             | 616.4   | 602.3   |
| Workers Not Classifiable by Occupation         | 61.2    | 56.9    | 50.5    | 58.4    | 61.2    | 59.7    | 60.9    | 57.8    | 80.8              | 63.6    | 65.4    |

Notes : Data for 1990 to 1992 were classified according to the Singapore Standard Occupational Classification (SSOC) 1990, while those from 1982 to 1989 were classified according to SSOC 1978. Owing to differences between SSOC 1978 and SSOC 1990, the data are strictly not comparable.

Source : Ministry of Labour  
(Other than Census year)

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

### 3.5 EMPLOYED PERSONS AGED 15 YEARS AND OVER BY INDUSTRY AND OCCUPATIONAL STATUS, 1992

Thousand

| Industry                          | Occupational Status |             |                     |                |                       |
|-----------------------------------|---------------------|-------------|---------------------|----------------|-----------------------|
|                                   | Total               | Employers   | Own Account Workers | Employees      | Unpaid Family Workers |
| <b>Total</b>                      | <b>1,576.2</b>      | <b>92.3</b> | <b>106.2</b>        | <b>1,362.8</b> | <b>14.9</b>           |
| Agriculture & Fishing             | 5.0                 | 0.7         | 1.1                 | 3.0            | 0.2                   |
| Quarrying                         | 0.5                 | -           | -                   | 0.5            | -                     |
| Manufacturing                     | 434.1               | 15.5        | 5.8                 | 412.1          | 0.8                   |
| Utilities                         | 8.0                 | -           | -                   | 8.0            | -                     |
| Construction                      | 103.2               | 12.6        | 7.6                 | 82.9           | 0.2                   |
| Commerce                          | 356.0               | 41.8        | 43.5                | 258.0          | 12.7                  |
| Transport & Communications        | 158.4               | 4.9         | 26.8                | 126.6          | 0.2                   |
| Financial & Business Services     | 171.4               | 9.1         | 6.4                 | 155.5          | 0.5                   |
| Other Services                    | 339.2               | 7.7         | 14.9                | 316.0          | 0.5                   |
| Activities Not Adequately Defined | 0.2                 | -           | -                   | 0.2            | -                     |

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

Source : Ministry of Labour



### 3.6 EMPLOYED PERSONS AGED 15 YEARS AND OVER BY INDUSTRY AND OCCUPATION, 1992

Thousand

| Industry \ Occupation             |         |                                                  |               |                                                  |                     |                                                         |                                        |                                                                                          |                                              |
|-----------------------------------|---------|--------------------------------------------------|---------------|--------------------------------------------------|---------------------|---------------------------------------------------------|----------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------|
|                                   | Total   | Legislators,<br>Senior Officials<br>and Managers | Professionals | Technicians<br>and<br>Associate<br>Professionals | Clerical<br>Workers | Service<br>Workers, Shop<br>and Market<br>Sales Workers | Agricultural<br>and Fishery<br>Workers | Production<br>Craftsmen, Plant<br>and Machine<br>Operators,<br>Cleaners and<br>Labourers | Workers Not<br>Classifiable by<br>Occupation |
| <b>Total</b>                      | 1,576.2 | 157.6                                            | 91.6          | 216.5                                            | 225.2               | 214.5                                                   | 3.1                                    | 602.3                                                                                    | 65.4                                         |
| Agriculture & Fishing             | 5.0     | 0.5                                              | -             | 0.1                                              | 0.1                 | -                                                       | 2.9                                    | 1.4                                                                                      | -                                            |
| Quarrying                         | 0.5     | 0.1                                              | 0.1           | -                                                | 0.1                 | 0.1                                                     | -                                      | 0.2                                                                                      | -                                            |
| Manufacturing                     | 434.1   | 34.0                                             | 20.5          | 47.0                                             | 45.0                | 3.7                                                     | -                                      | 283.9                                                                                    | -                                            |
| Utilities                         | 8.0     | -                                                | 0.8           | 2.0                                              | 1.2                 | 0.2                                                     | -                                      | 3.8                                                                                      | -                                            |
| Construction                      | 103.2   | 15.0                                             | 4.9           | 6.0                                              | 7.4                 | 0.2                                                     | -                                      | 69.5                                                                                     | 0.2                                          |
| Commerce                          | 356.0   | 69.9                                             | 4.8           | 25.2                                             | 52.1                | 160.3                                                   | -                                      | 43.7                                                                                     | -                                            |
| Transport & Communications        | 158.4   | 10.8                                             | 3.9           | 21.7                                             | 34.3                | 11.1                                                    | -                                      | 76.6                                                                                     | -                                            |
| Financial & Business Services     | 171.4   | 19.8                                             | 21.3          | 47.6                                             | 51.8                | 8.7                                                     | -                                      | 22.4                                                                                     | -                                            |
| Other Services                    | 339.2   | 7.4                                              | 35.4          | 67.0                                             | 33.3                | 30.3                                                    | 0.2                                    | 100.5                                                                                    | 65.2                                         |
| Activities Not Adequately Defined | 0.2     | -                                                | -             | -                                                | -                   | -                                                       | -                                      | 0.2                                                                                      | -                                            |

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

Source : Ministry of Labour

### 3.7 GOVERNMENT EMPLOYEES BY DIVISIONAL STATUS, 1982-1992

| Divisional Status | 1982     | 1983   | 1984   | 1985   | 1986   | 1987   | 1988   | 1989   | 1990   | 1991   | 1992 <sup>P</sup> |
|-------------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|
| Total             | Number   |        |        |        |        |        |        |        |        |        |                   |
|                   | 68,677   | 69,051 | 69,298 | 69,630 | 70,001 | 69,494 | 68,336 | 65,753 | 63,392 | 62,062 | 59,753            |
|                   | 8,467    | 8,911  | 9,547  | 10,158 | 11,047 | 11,433 | 11,518 | 12,029 | 12,348 | 12,534 | 13,067            |
|                   | 22,962   | 23,441 | 23,101 | 22,915 | 22,942 | 22,611 | 22,766 | 21,782 | 21,095 | 20,646 | 20,065            |
|                   | 22,778   | 22,162 | 22,251 | 22,369 | 21,963 | 21,794 | 20,901 | 20,110 | 20,150 | 20,369 | 18,962            |
| Division IV       | 14,470   | 14,537 | 14,399 | 14,188 | 14,049 | 13,656 | 13,151 | 11,832 | 9,799  | 8,513  | 7,659             |
| Total             | Per Cent |        |        |        |        |        |        |        |        |        |                   |
|                   | 100.0    | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0             |
|                   | 12.3     | 12.9   | 13.8   | 14.6   | 15.8   | 16.4   | 16.9   | 18.3   | 19.5   | 20.2   | 21.9              |
|                   | 33.4     | 33.9   | 33.3   | 32.9   | 32.8   | 32.5   | 33.3   | 33.1   | 33.3   | 33.3   | 33.6              |
|                   | 33.2     | 32.1   | 32.1   | 32.1   | 31.4   | 31.4   | 30.6   | 30.6   | 31.8   | 32.8   | 31.7              |
| Division IV       | 21.1     | 21.1   | 20.8   | 20.4   | 20.0   | 19.7   | 19.2   | 18.0   | 15.4   | 13.7   | 12.8              |

Note : Figures exclude daily-rated employees.

Source : Public Service Commission



### 3.8 CHANGES IN PRODUCTIVITY BY INDUSTRY, 1982-1992

| Industry                      |      |      |      |      |      |      |      |      |      |      | Per Cent          |
|-------------------------------|------|------|------|------|------|------|------|------|------|------|-------------------|
|                               | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 <sup>P</sup> |
| Total                         | 1.6  | 5.3  | 6.9  | 3.1  | 6.3  | 4.8  | 4.5  | 4.8  | 3.5  | 1.5  | 3.1               |
| Total excluding Construction  | 1.9  | 5.1  | 6.7  | 2.4  | 7.1  | 4.8  | 4.4  | 5.0  | 3.6  | 1.8  | 2.7               |
| Manufacturing                 | -0.7 | 9.1  | 7.2  | -1.5 | 13.6 | 3.7  | 2.0  | 3.8  | 4.6  | 3.5  | 3.7               |
| Construction                  | 4.2  | 10.1 | 9.0  | 5.7  | -4.3 | 0.8  | 2.2  | -    | 1.4  | 2.8  | 10.0              |
| Commerce                      | 1.2  | 2.1  | 4.5  | 0.4  | 5.5  | 5.9  | 10.8 | 4.1  | 3.7  | 0.8  | 0.5               |
| Transport & Communications    | 8.0  | 8.8  | 11.9 | 5.2  | 10.7 | 6.3  | 6.6  | 5.0  | 4.9  | 4.8  | 6.0               |
| Financial & Business Services | -0.1 | 4.3  | 7.7  | 12.0 | 0.7  | 8.3  | 1.3  | 2.3  | 2.5  | -1.4 | 1.0               |

Source : Department of Statistics  
Ministry of Labour

### 3.9 AVERAGE MONTHLY EARNINGS BY INDUSTRY, 1982-1992

Dollars

| Industry                                                 | 1982    | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  |
|----------------------------------------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                                          | Nominal |       |       |       |       |       |       |       |       |       |       |
| <b>Total</b>                                             | 859     | 947   | 1,048 | 1,131 | 1,140 | 1,176 | 1,273 | 1,398 | 1,528 | 1,669 | 1,794 |
| Manufacturing                                            | 732     | 818   | 892   | 964   | 976   | 1,009 | 1,116 | 1,243 | 1,395 | 1,552 | 1,686 |
| Construction                                             | 761     | 863   | 908   | 939   | 929   | 926   | 1,005 | 1,128 | 1,275 | 1,426 | 1,622 |
| Commerce                                                 | 725     | 799   | 892   | 935   | 945   | 977   | 1,049 | 1,174 | 1,305 | 1,419 | 1,534 |
| Transport, Storage & Communications                      | 951     | 1,024 | 1,131 | 1,213 | 1,233 | 1,305 | 1,373 | 1,488 | 1,610 | 1,677 | 1,799 |
| Financing, Insurance, Real Estate<br>& Business Services | 1,153   | 1,246 | 1,390 | 1,491 | 1,507 | 1,564 | 1,686 | 1,835 | 1,996 | 2,158 | 2,245 |
| Community, Social & Personal Services                    | 1,021   | 1,116 | 1,257 | 1,375 | 1,364 | 1,400 | 1,517 | 1,621 | 1,678 | 1,844 | 1,977 |

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

Source : Ministry of Labour



### 3.10 AVERAGE BASIC AND GROSS WAGES BY OCCUPATION, 1992

Dollars

| Occupation                                        | Basic Wage |       |         | Gross Wage |       |         |
|---------------------------------------------------|------------|-------|---------|------------|-------|---------|
|                                                   | Persons    | Males | Females | Persons    | Males | Females |
| Managers                                          | 4,851      | 5,179 | 3,858   | 4,997      | 5,347 | 3,943   |
| Professionals                                     | 2,900      | 3,044 | 2,613   | 3,163      | 3,399 | 2,706   |
| Technicians and Associate Professionals           | 1,915      | 2,028 | 1,744   | 2,310      | 2,567 | 1,904   |
| Clerical Workers                                  | 1,083      | 1,160 | 1,059   | 1,242      | 1,422 | 1,186   |
| Service Workers and Shop and Market Sales Workers | 940        | 1,002 | 852     | 1,296      | 1,368 | 1,205   |
| Production Craftsmen and Related Workers          | 1,083      | 1,145 | 725     | 1,454      | 1,553 | 929     |
| Plant and Machine Operators and Assemblers        | 837        | 1,028 | 666     | 1,184      | 1,503 | 901     |
| Cleaners, Labourers and Related Workers           | 749        | 780   | 705     | 963        | 1,024 | 879     |

Source : Ministry of Labour

### 3.11 AVERAGE WEEKLY HOURS WORKED BY INDUSTRY, 1982-1992

Hours

| Industry                      | 1982         | 1983 | 1984 | 1985 | 1986       | 1987 | 1988            | 1989 | 1990 | 1991 | 1992 |
|-------------------------------|--------------|------|------|------|------------|------|-----------------|------|------|------|------|
|                               | As at August |      |      |      | As at June |      | As at September |      |      |      |      |
| All Industries                | 45.4         | 45.6 | 45.6 | 44.6 | 45.1       | 45.5 | 45.6            | 46.6 | 46.5 | 46.7 | 46.6 |
| Agriculture & Fishing         | 43.9         | 44.4 | 44.2 | 44.1 | 44.9       | 44.8 | 44.9            | 46.4 | 45.8 | 46.5 | 45.2 |
| Quarrying                     | 49.6         | 49.2 | 48.0 | 46.5 | 46.6       | 49.4 | 52.3            | 51.1 | 57.0 | 53.0 | 54.7 |
| Manufacturing                 | 47.6         | 48.1 | 47.8 | 46.5 | 47.7       | 48.4 | 47.4            | 48.6 | 48.5 | 48.7 | 48.7 |
| Utilities                     | 48.0         | 48.3 | 47.7 | 47.3 | 47.3       | 46.6 | na              | na   | na   | na   | na   |
| Construction                  | 50.5         | 50.5 | 52.2 | 51.0 | 50.0       | 49.5 | 48.2            | 50.0 | 49.7 | 50.0 | 50.5 |
| Commerce                      | 44.0         | 43.9 | 43.5 | 43.3 | 42.9       | 42.8 | 41.7            | 42.0 | 42.3 | 42.7 | 42.6 |
| Transport & Communications    | 46.8         | 46.5 | 46.0 | 45.1 | 45.8       | 46.0 | 45.6            | 47.8 | 47.5 | 47.6 | 46.8 |
| Financial & Business Services | 43.5         | 43.3 | 43.3 | 43.3 | 43.7       | 43.6 | 44.2            | 44.6 | 44.7 | 44.0 | 44.1 |
| Other Services                | 39.9         | 39.9 | 39.4 | 39.2 | 39.8       | 40.8 | 41.7            | 41.4 | 41.4 | 41.5 | 42.0 |

Note : The data for 1988-1992 refer to private sector firms with at least 25 workers, while those for 1982-1987 refer to private and public sector firms with at least 10 workers. They are thus not strictly comparable.

Source : Ministry of Labour



### 3.12 EMPLOYMENT SERVICE, 1982-1992

| Year | Number on<br>'Live'<br>Register <sup>1</sup> | New Registrants |        |         | Vacancies Notified   |        |         | Vacancies Filled |       |         |
|------|----------------------------------------------|-----------------|--------|---------|----------------------|--------|---------|------------------|-------|---------|
|      |                                              | Persons         | Males  | Females | Persons <sup>2</sup> | Males  | Females | Persons          | Males | Females |
| 1982 | 6,661                                        | 13,518          | 7,611  | 5,907   | 21,908               | 13,052 | 8,856   | 5,432            | 3,446 | 1,986   |
| 1983 | 6,053                                        | 12,686          | 7,968  | 4,718   | 29,449               | 16,261 | 13,188  | 4,345            | 2,986 | 1,359   |
| 1984 | 6,026                                        | 11,162          | 6,928  | 4,234   | 25,632               | 14,974 | 10,658  | 3,743            | 2,268 | 1,475   |
| 1985 | 9,897                                        | 18,155          | 11,104 | 7,051   | 26,176               | 13,348 | 12,828  | 3,424            | 2,072 | 1,352   |
| 1986 | 8,910                                        | 18,345          | 12,997 | 5,348   | 38,242               | 18,262 | 19,980  | 2,863            | 2,049 | 814     |
| 1987 | 5,703                                        | 15,655          | 10,801 | 4,854   | 48,633               | 21,738 | 26,895  | 3,228            | 2,168 | 1,060   |
| 1988 | 3,389                                        | 9,191           | 6,177  | 3,014   | 37,798               | 20,380 | 17,418  | 2,344            | 1,509 | 835     |
| 1989 | 1,885                                        | 5,260           | 3,569  | 1,691   | 41,268               | 22,742 | 18,526  | 1,574            | 1,099 | 475     |
| 1990 | 1,187                                        | 3,462           | 2,396  | 1,066   | 27,624               | 14,658 | 12,966  | 982              | 643   | 339     |
| 1991 | 1,037                                        | 2,669           | 1,773  | 896     | 28,385               | 3,649  | 2,992   | 933              | 557   | 376     |
| 1992 | 891                                          | 2,332           | 1,540  | 792     | 23,890               | 2,971  | 1,665   | 797              | 560   | 237     |

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

2 Figures from 1991 include those unspecified by sex.

Source : Ministry of Labour

### 3.13 CENTRAL PROVIDENT FUND CONTRIBUTORS BY AGE GROUP, 1982-1992 (End of Period)

| Age Group<br>(Years) | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990    | 1991    | 1992    |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|
| Thousand             |       |       |       |       |       |       |       |       |         |         |         |
| Total                | 927.5 | 917.9 | 943.0 | 889.6 | 912.0 | 935.3 | 963.8 | 988.6 | 1,021.7 | 1,052.4 | 1,074.0 |
| Under 20             | 81.1  | 72.1  | 69.1  | 47.6  | 44.4  | 43.5  | 40.2  | 41.4  | 42.8    | 42.2    | 39.6    |
| 20 - 24              | 212.7 | 203.3 | 202.2 | 181.0 | 177.3 | 168.7 | 159.3 | 148.5 | 143.0   | 137.8   | 135.7   |
| 25 - 29              | 197.0 | 197.0 | 203.0 | 198.1 | 203.8 | 206.1 | 208.8 | 207.8 | 206.9   | 207.0   | 205.4   |
| 30 - 34              | 139.1 | 142.4 | 149.5 | 149.8 | 159.8 | 168.9 | 178.3 | 184.2 | 190.4   | 194.3   | 196.8   |
| 35 - 39              | 83.4  | 91.8  | 104.9 | 113.2 | 119.6 | 126.6 | 135.3 | 142.9 | 151.6   | 161.1   | 168.3   |
| 40 - 44              | 64.1  | 63.9  | 63.5  | 59.4  | 65.2  | 77.6  | 89.3  | 103.0 | 117.9   | 125.6   | 130.7   |
| 45 - 49              | 48.2  | 50.5  | 54.0  | 54.3  | 56.5  | 57.5  | 59.8  | 60.5  | 60.6    | 68.0    | 79.0    |
| 50 - 54              | 37.3  | 37.6  | 38.4  | 38.8  | 39.2  | 40.3  | 44.0  | 48.2  | 51.7    | 55.2    | 55.3    |
| 55 - 59              | 22.9  | 23.1  | 24.2  | 23.4  | 22.9  | 23.5  | 25.0  | 27.1  | 30.1    | 31.9    | 32.8    |
| 60 & Over            | 22.0  | 21.4  | 21.6  | 20.5  | 19.7  | 20.1  | 21.5  | 23.8  | 26.2    | 28.6    | 29.9    |
| Not specified        | 19.7  | 14.8  | 12.6  | 3.5   | 3.6   | 2.5   | 2.3   | 1.2   | 0.7     | 0.5     | 0.5     |
| Per Cent             |       |       |       |       |       |       |       |       |         |         |         |
| Total                | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0   | 100.0   | 100.0   |
| Under 20             | 8.8   | 7.9   | 7.4   | 5.3   | 4.8   | 4.7   | 4.2   | 4.2   | 4.2     | 4.0     | 3.7     |
| 20 - 24              | 22.9  | 22.1  | 21.4  | 20.4  | 19.4  | 18.0  | 16.5  | 15.0  | 14.0    | 13.1    | 12.6    |
| 25 - 29              | 21.2  | 21.5  | 21.5  | 22.3  | 22.4  | 22.0  | 21.7  | 21.0  | 20.3    | 19.7    | 19.1    |
| 30 - 34              | 15.0  | 15.5  | 15.9  | 16.8  | 17.5  | 18.1  | 18.5  | 18.6  | 18.6    | 18.5    | 18.3    |
| 35 - 39              | 9.0   | 10.0  | 11.1  | 12.7  | 13.1  | 13.5  | 14.0  | 14.5  | 14.8    | 15.3    | 15.7    |
| 40 - 44              | 6.9   | 7.0   | 6.7   | 6.7   | 7.2   | 8.3   | 9.3   | 10.4  | 11.5    | 11.9    | 12.2    |
| 45 - 49              | 5.2   | 5.5   | 5.7   | 6.1   | 6.2   | 6.2   | 6.2   | 6.1   | 5.9     | 6.5     | 7.4     |
| 50 - 54              | 4.0   | 4.1   | 4.1   | 4.4   | 4.3   | 4.3   | 4.6   | 4.9   | 5.1     | 5.3     | 5.1     |
| 55 - 59              | 2.5   | 2.5   | 2.6   | 2.6   | 2.5   | 2.5   | 2.6   | 2.8   | 2.9     | 3.0     | 3.1     |
| 60 & Over            | 2.4   | 2.3   | 2.3   | 2.3   | 2.2   | 2.1   | 2.2   | 2.4   | 2.6     | 2.7     | 2.8     |
| Not specified        | 2.1   | 1.6   | 1.3   | 0.4   | 0.4   | 0.3   | 0.2   | 0.1   | 0.1     | -       | -       |

Note : Data for 1991 and before include self-employed who had made CPF contributions while those for 1992 exclude all self-employed.

Source : Central Provident Fund Board



**3.14 CENTRAL PROVIDENT FUND CONTRIBUTORS BY WAGE LEVEL, 1982-1992**  
(End of Period)

| Monthly Wage Level (\$) | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990    | 1991    | 1992    |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|
| Thousand                |       |       |       |       |       |       |       |       |         |         |         |
| Total                   | 927.5 | 917.9 | 943.0 | 889.6 | 912.0 | 935.3 | 963.8 | 988.6 | 1,021.7 | 1,052.4 | 1,074.0 |
| Below 200               | 68.7  | 34.3  | 35.5  | 24.6  | 23.8  | 23.0  | 19.4  | 20.1  | 19.4    | 18.4    | 16.6    |
| 200 - 299               | 81.7  | 77.4  | 73.1  | 57.4  | 55.1  | 51.4  | 42.9  | 36.0  | 32.3    | 29.0    | 22.9    |
| 300 - 399               | 108.2 | 85.0  | 64.8  | 56.6  | 60.6  | 55.4  | 40.4  | 38.3  | 33.5    | 29.8    | 24.7    |
| 400 - 499               | 119.1 | 110.7 | 91.6  | 81.3  | 82.0  | 76.4  | 60.2  | 41.9  | 36.8    | 29.4    | 25.8    |
| 500 - 599               | 91.8  | 102.5 | 105.6 | 101.1 | 101.7 | 100.4 | 87.6  | 70.5  | 54.1    | 41.9    | 37.8    |
| 600 - 799               | 129.4 | 140.0 | 153.5 | 150.7 | 157.2 | 156.7 | 172.0 | 170.7 | 149.6   | 126.3   | 106.4   |
| 800 - 999               | 89.2  | 97.3  | 102.0 | 101.2 | 105.3 | 111.0 | 126.7 | 135.3 | 139.9   | 139.7   | 133.5   |
| 1,000 - 1,499           | 113.5 | 129.1 | 147.3 | 144.9 | 148.8 | 158.1 | 186.9 | 206.1 | 229.7   | 251.2   | 263.2   |
| 1,500 - 1,999           | 47.0  | 55.6  | 66.3  | 65.2  | 67.5  | 74.4  | 89.9  | 105.1 | 125.2   | 144.6   | 165.3   |
| 2,000 - 2,499           | 24.1  | 29.6  | 35.7  | 36.2  | 36.8  | 41.2  | 47.9  | 54.6  | 68.1    | 79.7    | 90.5    |
| 2,500 - 2,999           | 13.1  | 17.0  | 19.6  | 20.7  | 21.5  | 24.4  | 26.8  | 33.5  | 40.0    | 45.9    | 53.1    |
| 3,000 & Over            | 27.3  | 32.2  | 43.4  | 45.9  | 47.9  | 59.8  | 61.5  | 73.9  | 91.1    | 113.7   | 130.2   |
| Not specified           | 14.4  | 7.2   | 4.6   | 3.8   | 3.8   | 3.1   | 1.6   | 2.6   | 2.1     | 2.8     | 4.0     |
| Per Cent                |       |       |       |       |       |       |       |       |         |         |         |
| Total                   | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0   | 100.0   | 100.0   |
| Below 200               | 7.5   | 3.7   | 3.8   | 2.7   | 2.6   | 2.5   | 2.0   | 2.0   | 1.9     | 1.8     | 1.6     |
| 200 - 299               | 8.8   | 8.4   | 7.7   | 6.5   | 6.0   | 5.5   | 4.5   | 3.6   | 3.2     | 2.7     | 2.1     |
| 300 - 399               | 11.7  | 9.3   | 6.9   | 6.4   | 6.6   | 5.9   | 4.2   | 3.9   | 3.3     | 2.8     | 2.3     |
| 400 - 499               | 12.8  | 12.1  | 9.7   | 9.1   | 9.0   | 8.2   | 6.2   | 4.2   | 3.6     | 2.8     | 2.4     |
| 500 - 599               | 9.9   | 11.2  | 11.2  | 11.4  | 11.2  | 10.7  | 9.1   | 7.1   | 5.3     | 4.0     | 3.5     |
| 600 - 799               | 13.9  | 15.2  | 16.3  | 16.9  | 17.2  | 16.7  | 17.8  | 17.3  | 14.6    | 12.0    | 9.9     |
| 800 - 999               | 9.6   | 10.6  | 10.8  | 11.4  | 11.6  | 11.9  | 13.1  | 13.7  | 13.7    | 13.3    | 12.4    |
| 1,000 - 1,499           | 12.2  | 14.1  | 15.6  | 16.3  | 16.3  | 16.9  | 19.4  | 20.9  | 22.5    | 23.9    | 24.5    |
| 1,500 - 1,999           | 5.1   | 6.1   | 7.0   | 7.3   | 7.4   | 8.0   | 9.3   | 10.6  | 12.2    | 13.7    | 15.4    |
| 2,000 - 2,499           | 2.6   | 3.2   | 3.8   | 4.1   | 4.0   | 4.4   | 5.0   | 5.5   | 6.7     | 7.6     | 8.4     |
| 2,500 - 2,999           | 1.4   | 1.8   | 2.1   | 2.3   | 2.4   | 2.6   | 2.8   | 3.4   | 3.9     | 4.4     | 5.0     |
| 3,000 & Over            | 2.9   | 3.5   | 4.6   | 5.2   | 5.3   | 6.4   | 6.4   | 7.5   | 8.9     | 10.8    | 12.1    |
| Not specified           | 1.6   | 0.8   | 0.5   | 0.4   | 0.4   | 0.3   | 0.2   | 0.3   | 0.2     | 0.2     | 0.4     |

Note : See note to Table 3.13.

Source : Central Provident Fund Board

**3.15 CENTRAL PROVIDENT FUND CONTRIBUTORS BY INDUSTRY, 1982-1992**  
(End of Period)

| Industry       | 1982                              | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990    | 1991    | 1992    |       |
|----------------|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|-------|
| All Industries | Thousand                          |       |       |       |       |       |       |       |         |         |         |       |
|                | 927.5                             | 917.9 | 943.0 | 889.6 | 912.0 | 935.3 | 963.8 | 988.6 | 1,021.7 | 1,052.4 | 1,074.0 |       |
|                | Agriculture & Fishing             | 2.3   | 2.3   | 2.4   | 2.4   | 2.6   | 2.4   | 2.3   | 2.2     | 2.0     | 1.9     | 2.4   |
|                | Quarrying                         | 1.6   | 1.7   | 0.9   | 0.7   | 0.7   | 0.6   | 0.6   | 0.4     | 0.4     | 0.4     | 0.4   |
|                | Manufacturing                     | 274.6 | 261.0 | 283.0 | 251.4 | 271.1 | 287.5 | 297.6 | 301.5   | 298.4   | 297.9   | 298.0 |
|                | Utilities                         | 7.8   | 7.7   | 7.7   | 7.8   | 7.7   | 7.3   | 7.0   | 6.9     | 6.8     | 6.8     | 6.7   |
|                | Construction                      | 43.0  | 47.9  | 58.6  | 54.2  | 51.6  | 44.2  | 41.3  | 38.7    | 40.1    | 42.0    | 48.5  |
|                | Commerce                          | 212.7 | 210.6 | 208.3 | 194.1 | 195.4 | 204.1 | 215.0 | 223.4   | 241.8   | 254.6   | 262.3 |
|                | Transport & Communications        | 98.0  | 95.1  | 93.3  | 90.3  | 90.0  | 91.9  | 98.0  | 103.1   | 107.4   | 110.0   | 106.6 |
|                | Financial & Business Services     | 102.1 | 107.0 | 111.6 | 108.9 | 109.0 | 111.8 | 117.4 | 128.1   | 138.5   | 145.9   | 162.8 |
|                | Other Services                    | 175.3 | 174.3 | 176.7 | 179.8 | 183.9 | 185.5 | 184.5 | 184.2   | 186.4   | 192.6   | 186.2 |
|                | Activities Not Adequately Defined | 10.1  | 10.3  | 0.5   | -     | -     | -     | 0.1   | 0.1     | 0.1     | 0.2     | 0.1   |
| All Industries | Per Cent                          |       |       |       |       |       |       |       |         |         |         |       |
|                | 100.0                             | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0   | 100.0   | 100.0   |       |
|                | Agriculture & Fishing             | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.2   | 0.2     | 0.2     | 0.2     | 0.2   |
|                | Quarrying                         | 0.2   | 0.2   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | -       | -       | -       | -     |
|                | Manufacturing                     | 29.6  | 28.4  | 30.0  | 28.3  | 29.7  | 30.7  | 30.9  | 30.5    | 29.2    | 28.3    | 27.8  |
|                | Utilities                         | 0.8   | 0.8   | 0.8   | 0.9   | 0.8   | 0.8   | 0.7   | 0.7     | 0.7     | 0.7     | 0.6   |
|                | Construction                      | 4.6   | 5.2   | 6.2   | 6.1   | 5.6   | 4.7   | 4.3   | 3.9     | 3.9     | 4.0     | 4.5   |
|                | Commerce                          | 22.9  | 22.9  | 22.1  | 21.8  | 21.4  | 21.8  | 22.3  | 22.6    | 23.7    | 24.2    | 24.4  |
|                | Transport & Communications        | 10.6  | 10.4  | 9.9   | 10.1  | 9.9   | 9.8   | 10.2  | 10.4    | 10.5    | 10.4    | 10.0  |
|                | Financial & Business Services     | 11.0  | 11.7  | 11.8  | 12.2  | 12.0  | 12.0  | 12.2  | 13.0    | 13.6    | 13.9    | 15.2  |
|                | Other Services                    | 18.9  | 19.0  | 18.8  | 20.2  | 20.2  | 19.8  | 19.1  | 18.7    | 18.2    | 18.3    | 17.3  |
|                | Activities Not Adequately Defined | 1.1   | 1.1   | -     | -     | -     | -     | -     | -       | -       | -       | -     |

Note : See note to Table 3.13.

Source : Central Provident Fund Board



### 3.16 CENTRAL PROVIDENT FUND MEMBERS BY AGE GROUP, 1982-1992 (End of Period)

| Age Group<br>(Years) | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992    |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Thousand             |         |         |         |         |         |         |         |         |         |         |         |
| <b>Total</b>         | 1,725.3 | 1,778.9 | 1,852.5 | 1,891.7 | 1,933.8 | 1,988.5 | 2,063.4 | 2,126.9 | 2,195.2 | 2,255.7 | 2,322.8 |
| Under 20             | 166.1   | 152.2   | 142.3   | 118.9   | 98.3    | 95.4    | 95.8    | 104.5   | 112.6   | 112.6   | 108.2   |
| 20 - 24              | 367.5   | 368.6   | 369.9   | 355.0   | 337.6   | 316.4   | 290.2   | 266.5   | 252.5   | 239.9   | 234.0   |
| 25 - 29              | 353.2   | 362.8   | 374.7   | 383.3   | 389.3   | 393.3   | 395.3   | 393.0   | 385.9   | 375.8   | 361.0   |
| 30 - 34              | 271.4   | 290.6   | 310.4   | 327.0   | 345.7   | 359.2   | 370.0   | 380.1   | 391.0   | 398.2   | 404.3   |
| 35 - 39              | 163.2   | 184.4   | 212.3   | 242.2   | 261.2   | 278.4   | 297.2   | 315.1   | 332.2   | 350.7   | 365.4   |
| 40 - 44              | 128.0   | 131.8   | 132.3   | 130.2   | 144.5   | 169.1   | 190.6   | 217.9   | 248.2   | 266.4   | 284.3   |
| 45 - 49              | 92.9    | 101.2   | 111.1   | 118.4   | 128.0   | 132.0   | 135.8   | 136.1   | 133.7   | 147.9   | 174.3   |
| 50 - 54              | 71.4    | 74.2    | 78.0    | 84.0    | 88.8    | 92.2    | 99.8    | 109.3   | 116.2   | 125.2   | 130.9   |
| 55 & Over            | 86.6    | 88.3    | 94.7    | 105.5   | 112.6   | 122.0   | 157.2   | 173.6   | 192.1   | 208.4   | 229.9   |
| Not specified        | 25.0    | 24.8    | 26.8    | 27.2    | 27.8    | 30.5    | 31.5    | 30.8    | 30.8    | 30.5    | 30.5    |
| Per Cent             |         |         |         |         |         |         |         |         |         |         |         |
| <b>Total</b>         | 100.0   | 100.0   | 100.0   | 100.0   | 100.0   | 100.0   | 100.0   | 100.0   | 100.0   | 100.0   | 100.0   |
| Under 20             | 9.7     | 8.6     | 7.7     | 6.2     | 5.1     | 4.8     | 4.7     | 4.9     | 5.1     | 5.0     | 4.7     |
| 20 - 24              | 21.3    | 20.7    | 20.0    | 18.8    | 17.5    | 15.9    | 14.1    | 12.5    | 11.5    | 10.6    | 10.1    |
| 25 - 29              | 20.5    | 20.4    | 20.2    | 20.3    | 20.1    | 19.8    | 19.2    | 18.5    | 17.6    | 16.7    | 15.5    |
| 30 - 34              | 15.7    | 16.3    | 16.8    | 17.3    | 17.9    | 18.1    | 17.9    | 17.9    | 17.8    | 17.7    | 17.4    |
| 35 - 39              | 9.5     | 10.4    | 11.5    | 12.8    | 13.5    | 14.0    | 14.4    | 14.8    | 15.1    | 15.4    | 15.7    |
| 40 - 44              | 7.4     | 7.4     | 7.1     | 6.9     | 7.5     | 8.5     | 9.2     | 10.2    | 11.3    | 11.8    | 12.2    |
| 45 - 49              | 5.4     | 5.7     | 6.0     | 6.3     | 6.6     | 6.7     | 6.6     | 6.4     | 6.1     | 6.6     | 7.5     |
| 50 - 54              | 4.1     | 4.2     | 4.2     | 4.4     | 4.6     | 4.6     | 4.8     | 5.1     | 5.3     | 5.6     | 5.6     |
| 55 & Over            | 5.0     | 5.9     | 5.1     | 5.6     | 5.8     | 6.1     | 7.6     | 8.2     | 8.8     | 9.2     | 10.0    |
| Not specified        | 1.4     | 1.4     | 1.4     | 1.4     | 1.4     | 1.5     | 1.5     | 1.5     | 1.4     | 1.4     | 1.3     |

Note : Data include self-employed who had made CPF contributions.

Source : Central Provident Fund Board

### 3.17 PARTICIPANTS IN COURSES AND SEMINARS CONDUCTED BY NATIONAL PRODUCTIVITY BOARD, 1987-1992

| Courses and Seminars                                       | Number |        |        |                    |                    |        |
|------------------------------------------------------------|--------|--------|--------|--------------------|--------------------|--------|
|                                                            | 1987   | 1988   | 1989   | 1990               | 1991               | 1992   |
| <b>TOTAL (Courses &amp; Seminars)</b>                      | 27,766 | 24,112 | 31,510 | 37,139             | 43,039             | 42,527 |
| <b>TRAINING COURSES</b>                                    |        |        |        |                    |                    |        |
| <b>Total</b>                                               | 12,814 | 13,175 | 20,608 | 21,823             | 18,991             | 26,013 |
| Executive Development Programmes                           | 2,017  | 2,834  | 4,294  | 4,270              | 4,502              | 3,833  |
| Productivity Improvement Programmes                        | 3,899  | 4,239  | 6,954  | 7,226              | 4,525              | 4,728  |
| Quality Control Circles (QCC) <sup>1</sup>                 | 3,610  | 3,705  | 5,528  | 3,988              | 4,286              | 4,230  |
| Total Quality Programmes (TQP)                             | -      | -      | -      | -                  | 1,198 <sup>2</sup> | 3,453  |
| Productivity-Related Management Seminars/Conferences/Talks | 3,288  | 2,397  | 3,832  | 4,299              | 1,725              | 2,469  |
| FAST FORWARD Courses                                       | -      | -      | -      | 2,040 <sup>3</sup> | 2,755              | 7,300  |
| <b>PROMOTIONAL SEMINARS</b>                                | 14,952 | 10,937 | 10,902 | 15,316             | 24,048             | 16,514 |

1 Prior to 1992, figures include Labour Management Relations.

2 Refers to period Apr 91 - Dec 91.

3 Refers to period Jul 90 - Dec 90.

Source : National Productivity Board



### 3.18 QUALITY CONTROL CIRCLES, 1983-1992 (End of Period)

|                                                                 | 1983   | 1984   | 1985   | 1986   | 1987   | 1988   | 1989   | 1990   | 1991   | 1992    |
|-----------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Registered Quality Control Circles                              | 1,460  | 2,534  | 3,519  | 4,670  | 5,750  | 7,493  | 9,000  | 10,363 | 11,720 | 13,627  |
| Organisations (Companies, Government Bodies & Statutory Boards) | 98     | 128    | 143    | 156    | 168    | 186    | 199    | 212    | 234    | 278     |
| Membership                                                      | 10,861 | 18,723 | 25,670 | 33,971 | 41,164 | 53,935 | 65,032 | 76,228 | 81,169 | 100,089 |

Source : National Productivity Board

### 3.19 TRADE UNIONS AND MEMBERSHIP, 1982-1992

| End of Year | Employee Class |         | Employer Class |         | Number |
|-------------|----------------|---------|----------------|---------|--------|
|             | Unions         | Members | Unions         | Members |        |
|             |                |         |                |         |        |
| 1982        | 89             | 214,337 | 45             | 7,008   |        |
| 1983        | 90             | 205,155 | 42             | 6,579   |        |
| 1984        | 86             | 192,394 | 7              | 997     |        |
| 1985        | 84             | 201,132 | 5              | 1,170   |        |
| 1986        | 83             | 200,613 | 5              | 1,146   |        |
| 1987        | 93             | 205,717 | 5              | 1,188   |        |
| 1988        | 83             | 210,918 | 5              | 1,203   |        |
| 1989        | 86             | 212,874 | 5              | 1,207   |        |
| 1990        | 83             | 212,204 | 5              | 1,039   |        |
| 1991        | 83             | 217,086 | 4              | 1,064   |        |
| 1992        | 81             | 228,686 | 3              | 1,052   |        |

Source : Ministry of Labour



CHART 2

LABOUR FORCE, 1982-1992  
(Aged 15 Years and Over)

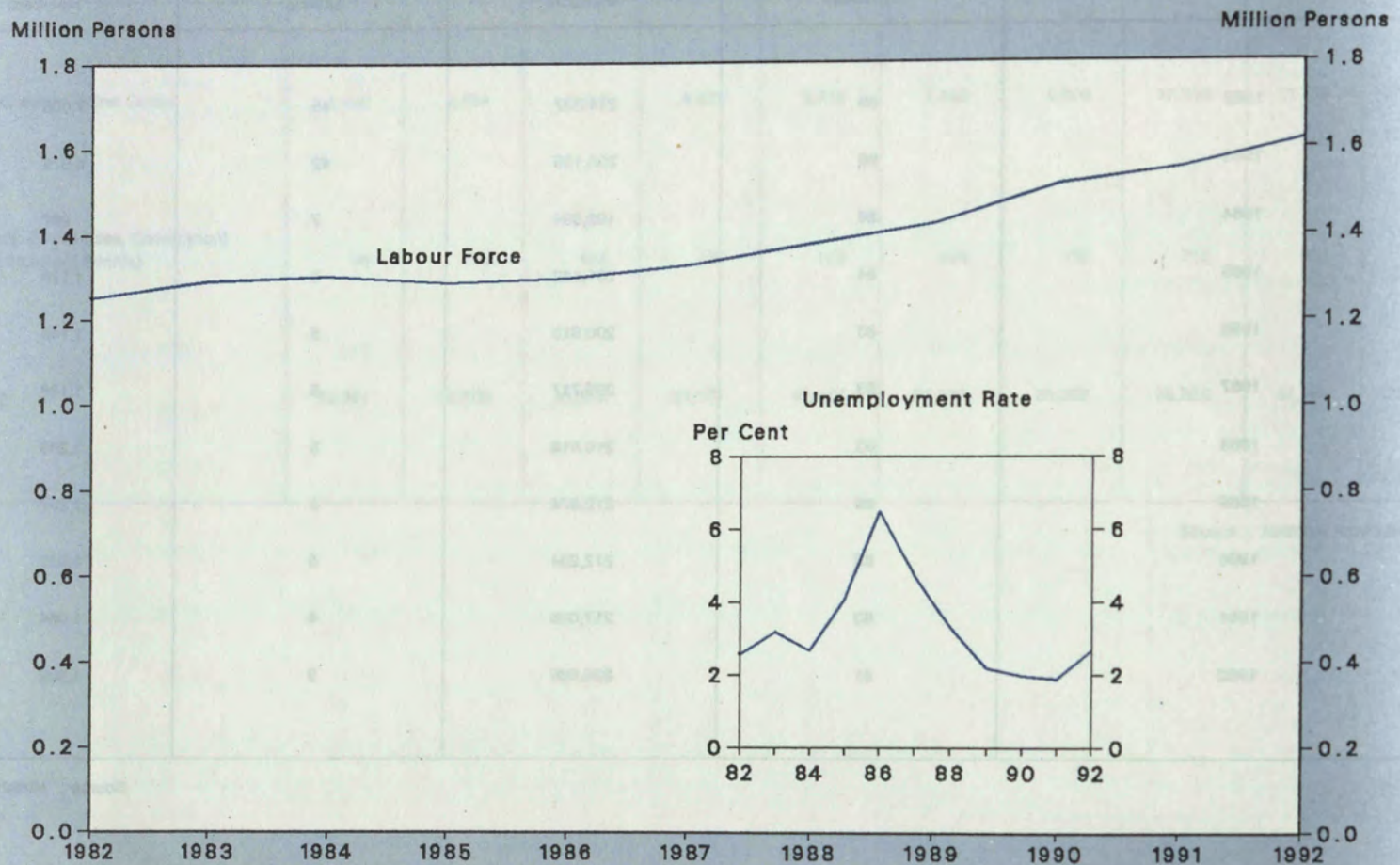
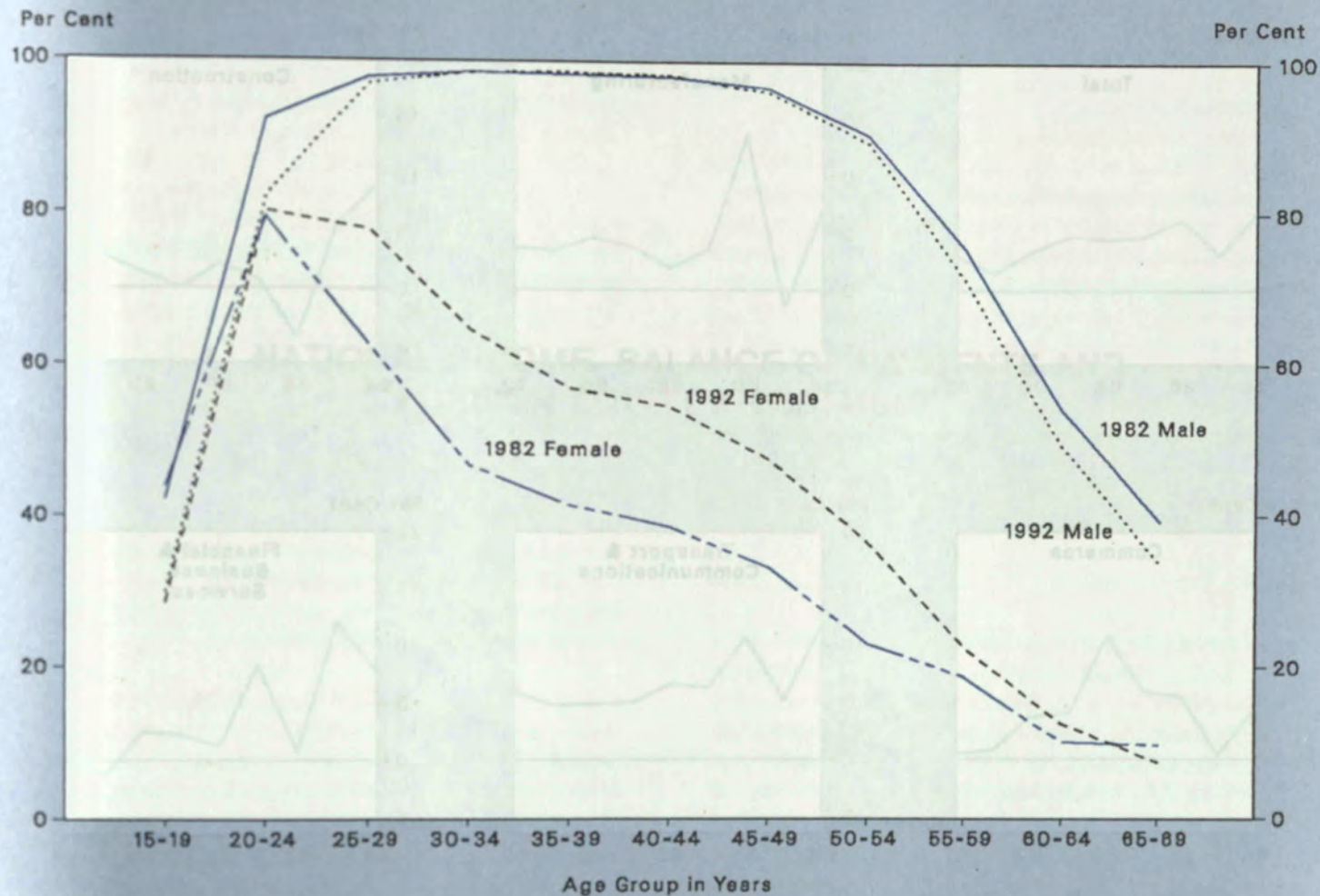


CHART 3

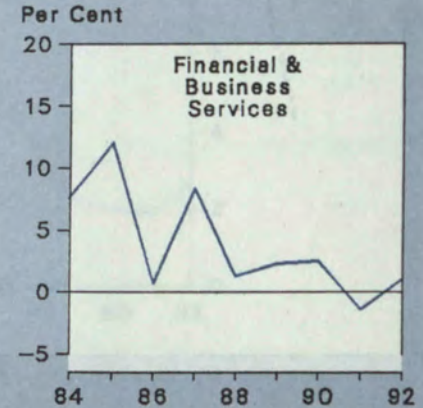
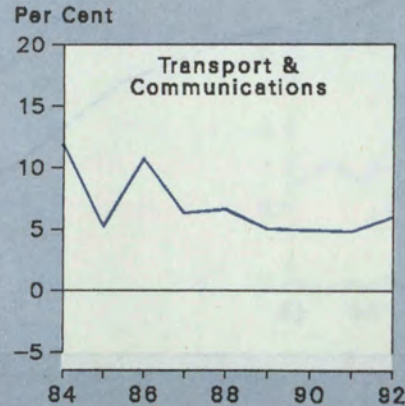
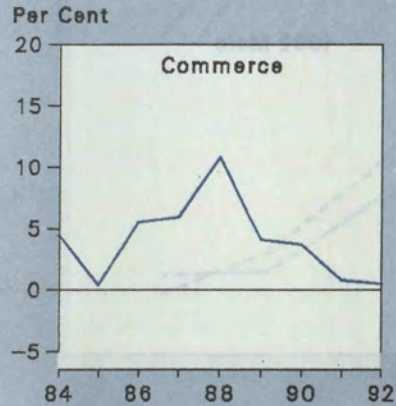
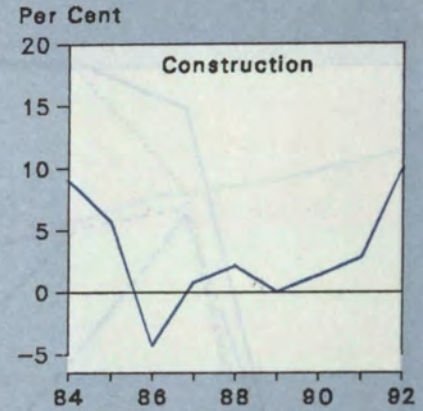
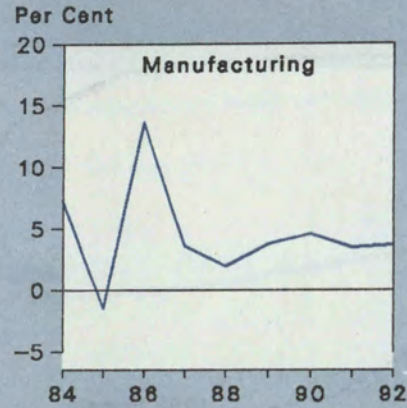
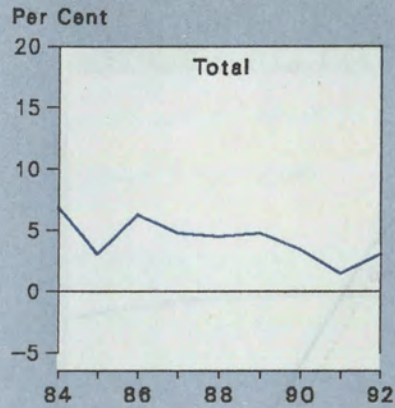
# AGE-SEX SPECIFIC LABOUR FORCE PARTICIPATION RATES, 1982 AND 1992





# CHART 4

## CHANGES IN PRODUCTIVITY BY INDUSTRY, 1984-1992



## 4 NATIONAL INCOME, BALANCE OF PAYMENTS AND FOREIGN EQUITY INVESTMENT



## 4 NATIONAL INCOME, BALANCE OF PAYMENTS AND FOREIGN EQUITY INVESTMENT

### National Income Estimates

The output and expenditure approaches are adopted for compiling national income aggregates of Singapore. The concepts, definitions and methodology given in the United Nations' publication, "A System of National Accounts, 1968" are closely followed.

The development of the Singapore economy depends heavily on foreign capital, foreign technology and foreign workers. Consequently a large share of the compensation of employees and of the operating surplus as recorded in national accounts, accrue to foreigners and foreign enterprises.

The per capita GNP as conventionally defined on a residential basis is therefore not a true reflection of the income of Singaporeans. Hence, a series on indigenous per capita GNP which excludes the foreigners' contribution is compiled. This involves the calculation of income accruing to foreign workers and foreign enterprises which are residents of Singapore and the exclusion of this amount from the GNP.

### Definitions

*Gross National Product (GNP)* : It refers to the aggregate value of output produced by productive factors owned by Singapore residents irrespective of whether they are located within Singapore's domestic territory or abroad.

*Indigenous GNP* : It refers to the aggregate value of output accrued to Singaporeans.

*Gross Domestic Product (GDP)* : It refers to the aggregate value of output produced within the domestic territory of Singapore.

*Expenditure on GDP* : It refers to the sum of private consumption expenditure of households including non-profit institutions, government consumption expenditure, gross capital formation and net exports.

*GDP at Constant Prices* : In order to compare the real value of output/expenditure over time, it is necessary to remove the effect of price changes. This is achieved by selecting the price structure of 1985 as the base according to which the goods and services in other years are revalued. The

resulting aggregates after adjustment for price changes are known as constant-price estimates.

**GDP Deflators :** They are the aggregate price indices of the GDP of the economy. They measure implicitly the price level of the current GDP relative to the base year 1985 which is set at 100. The deflators are derived as the ratio of current price estimates of the year in question to the corresponding estimates according to the base year price structure.

**Valuation of GDP Estimates :** GNP, GDP and Expenditure on GDP are valued at market prices, that is, they are valued at the actual transacted prices and include customs and excise duties and other indirect taxes levied but exclude government grants and subsidies.

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

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

### **Balance of Payments Estimates**

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

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

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

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

Studies to improve the balance of payments estimates are an on-going process and the estimates are revised as and when appropriate.

### **Sources of Data**

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

The transactions recorded in the balance of payments fall into the following two broad categories:



- a) The current account which consists of transactions relating to Singapore's current national income and expenditure. These include exports and imports of goods and services and unrequited transfers.
- b) The capital account which covers transactions affecting the wealth and debt or the net claims and liabilities of Singapore. Hence, it records transactions that affect the national income in future periods.

## Definitions

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

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

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

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

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

## Foreign Equity Investment

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

## Definition

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

## Other References

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

# 4.1 INDIGENOUS GROSS NATIONAL PRODUCT, 1982-1992 (At Current Market Prices)

Million Dollars

|                                                                  | 1982   | 1983   | 1984   | 1985   | 1986   | 1987   | 1988   | 1989   | 1990   | 1991   | 1992 <sup>P</sup> |
|------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|
| <b>Total Gross Domestic Product</b>                              | 32,670 | 36,733 | 40,048 | 38,924 | 38,664 | 42,636 | 49,998 | 56,844 | 63,439 | 69,452 | 74,975            |
| Share of Resident Foreigners & Resident Foreign Companies in GDP | 8,460  | 8,774  | 9,578  | 9,837  | 10,350 | 12,302 | 15,977 | 18,221 | 21,308 | 23,721 | 25,653            |
| Indigenous GDP                                                   | 24,210 | 27,959 | 30,470 | 29,087 | 28,314 | 30,333 | 34,021 | 38,623 | 42,131 | 45,731 | 49,322            |
| Factor Receipts of Singaporeans from Rest of the World           | 2,014  | 2,198  | 2,762  | 3,297  | 3,985  | 4,740  | 6,057  | 7,190  | 9,381  | 10,367 | 10,624            |
| Indigenous GNP                                                   | 26,224 | 30,157 | 33,232 | 32,384 | 32,298 | 35,073 | 40,079 | 45,813 | 51,512 | 56,098 | 59,946            |
| Per Capita Indigenous GNP (\$)                                   | 11,085 | 12,533 | 13,599 | 13,044 | 12,824 | 13,733 | 15,424 | 17,304 | 19,043 | 20,305 | 21,271            |



## 4.2 OUTPUT, SAVING AND INVESTMENT, 1982-1992 (At Current Market Prices)

Million Dollars

|                                                        | 1982     | 1983     | 1984     | 1985     | 1986     | 1987     | 1988     | 1989     | 1990     | 1991     | 1992 <sup>P</sup> |
|--------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------------|
| <b>Gross National Product</b>                          |          |          |          |          |          |          |          |          |          |          |                   |
| Gross National Product at Market Prices                | 31,775.7 | 36,561.1 | 40,815.1 | 40,330.4 | 39,612.5 | 42,207.1 | 49,862.0 | 57,511.4 | 64,023.1 | 70,479.7 | 76,172.2          |
| Gross Domestic Product at Factor Cost                  | 30,190.4 | 33,718.8 | 36,551.7 | 35,619.4 | 36,069.1 | 39,766.8 | 46,637.5 | 52,440.4 | 58,377.1 | 63,950.1 | 68,700.4          |
| Indirect Taxes                                         | 2,479.5  | 3,014.0  | 3,496.2  | 3,304.1  | 2,594.4  | 2,869.0  | 3,360.5  | 4,403.8  | 5,061.8  | 5,501.6  | 6,274.1           |
| Net Factor Income from Abroad                          | -894.2   | -171.7   | 767.2    | 1,406.9  | 949.0    | -428.7   | -136.0   | 667.2    | 584.2    | 1,028.0  | 1,197.7           |
| <b>Generation of Gross National Saving</b>             |          |          |          |          |          |          |          |          |          |          |                   |
| Gross National Saving                                  | 12,885.2 | 16,306.1 | 18,596.4 | 16,543.4 | 15,588.5 | 16,304.8 | 20,224.0 | 24,763.6 | 28,361.5 | 32,261.3 | 35,347.4          |
| Gross Domestic Saving                                  | 14,218.2 | 16,932.0 | 18,304.3 | 15,605.5 | 15,037.9 | 17,225.7 | 20,962.2 | 24,811.0 | 28,580.2 | 32,163.8 | 35,200.3          |
| Gross Domestic Product at Market Prices                | 32,669.9 | 36,732.8 | 40,047.9 | 38,923.5 | 38,663.5 | 42,635.8 | 49,998.0 | 56,844.2 | 63,438.9 | 69,451.7 | 74,974.5          |
| Less : Private & Government<br>Consumption Expenditure | 18,852.9 | 20,197.4 | 21,902.5 | 23,101.4 | 23,462.0 | 25,564.0 | 28,752.0 | 31,777.2 | 34,840.0 | 37,609.3 | 39,624.4          |
| Statistical Discrepancy                                | 401.2    | 396.6    | 158.9    | -216.6   | -163.6   | 153.9    | -283.8   | -256.0   | -18.7    | 321.4    | -149.8            |
| Net Factor Income from Abroad                          | -894.2   | -171.7   | 767.2    | 1,406.9  | 949.0    | -428.7   | -136.0   | 667.2    | 584.2    | 1,028.0  | 1,197.7           |
| Net Transfers from Abroad                              | -438.8   | -454.2   | -475.1   | -469.0   | -398.4   | -492.2   | -602.2   | -714.6   | -802.9   | -930.5   | -1,050.6          |
| <b>Finance of Gross Capital Formation</b>              |          |          |          |          |          |          |          |          |          |          |                   |
| Gross Capital Formation                                | 15,658.8 | 17,595.8 | 19,417.3 | 16,551.2 | 14,894.8 | 16,636.6 | 18,435.0 | 19,915.6 | 25,202.3 | 26,550.6 | 30,576.2          |
| Gross National Saving                                  | 12,885.2 | 16,306.1 | 18,596.4 | 16,543.4 | 15,588.5 | 16,304.8 | 20,224.0 | 24,763.6 | 28,361.5 | 32,261.3 | 35,347.4          |
| Net Borrowing from/Lending (-)<br>to Abroad            | 2,773.6  | 1,289.7  | 820.9    | 7.8      | -693.7   | 331.8    | -1,789.0 | -4,848.0 | -3,159.2 | -5,710.7 | -4,771.2          |

# 4.3 GROSS DOMESTIC PRODUCT BY INDUSTRY, 1982-1992

Million Dollars

| Industry                           | 1982     | 1983     | 1984     | 1985     | 1986     | 1987     | 1988     | 1989     | 1990     | 1991     | 1992 <sup>P</sup> |
|------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------------|
| At Current Market Prices           |          |          |          |          |          |          |          |          |          |          |                   |
| <b>Total</b>                       | 32,669.9 | 36,732.8 | 40,047.9 | 38,923.5 | 38,663.5 | 42,635.8 | 49,998.0 | 56,844.2 | 63,438.9 | 69,451.7 | 74,974.5          |
| Agriculture & Fishing              | 349.1    | 330.9    | 339.7    | 292.3    | 244.5    | 221.5    | 203.5    | 190.0    | 176.6    | 165.4    | 169.8             |
| Quarrying                          | 128.1    | 140.6    | 132.2    | 111.3    | 75.6     | 57.3     | 62.2     | 69.0     | 95.6     | 96.3     | 68.5              |
| Manufacturing                      | 8,153.5  | 8,907.9  | 9,863.4  | 9,184.3  | 10,185.5 | 12,090.6 | 14,963.0 | 16,684.8 | 18,755.6 | 20,214.2 | 20,902.5          |
| Utilities                          | 600.9    | 702.7    | 773.0    | 796.0    | 1,075.4  | 962.4    | 1,155.5  | 1,131.6  | 1,250.0  | 1,303.7  | 1,346.5           |
| Construction                       | 3,146.1  | 4,202.5  | 4,943.7  | 4,167.9  | 3,149.1  | 2,885.0  | 2,811.7  | 3,106.7  | 3,614.3  | 4,706.3  | 5,934.1           |
| Commerce                           | 6,387.5  | 6,667.4  | 6,885.5  | 6,636.3  | 6,516.3  | 7,368.5  | 8,877.4  | 9,871.6  | 10,902.0 | 11,597.6 | 11,888.4          |
| Transport & Communications         | 4,435.8  | 4,891.9  | 5,222.3  | 5,234.5  | 5,315.6  | 5,922.8  | 6,878.1  | 7,911.7  | 8,394.3  | 9,353.7  | 10,266.6          |
| Financial & Business Services      | 7,756.6  | 8,872.0  | 9,962.7  | 10,652.0 | 9,798.3  | 10,869.9 | 12,181.3 | 14,246.6 | 17,078.9 | 18,279.8 | 20,207.8          |
| Other Services                     | 3,340.7  | 3,812.7  | 4,238.7  | 4,577.3  | 4,509.9  | 4,691.3  | 5,208.9  | 5,882.2  | 6,596.2  | 7,323.8  | 7,795.9           |
| Less : Imputed Bank Service Charge | 2,109.9  | 2,306.8  | 2,827.4  | 3,196.5  | 2,600.3  | 2,887.3  | 2,939.9  | 2,929.3  | 4,033.5  | 4,226.8  | 4,341.2           |
| Add : Import Duties                | 481.5    | 511.0    | 514.1    | 468.1    | 393.6    | 453.8    | 596.3    | 679.3    | 608.9    | 637.7    | 735.6             |
| At 1985 Market Prices              |          |          |          |          |          |          |          |          |          |          |                   |
| <b>Total</b>                       | 33,772.3 | 36,537.2 | 39,572.5 | 38,923.5 | 39,641.4 | 43,371.8 | 48,203.4 | 52,657.4 | 57,049.4 | 60,884.0 | 64,415.9          |
| Agriculture & Fishing              | 303.4    | 311.0    | 326.5    | 292.3    | 260.8    | 234.0    | 205.4    | 191.8    | 177.3    | 160.6    | 161.7             |
| Quarrying                          | 104.0    | 122.0    | 120.2    | 111.3    | 94.3     | 93.4     | 88.1     | 89.4     | 81.4     | 89.3     | 76.0              |
| Manufacturing                      | 8,965.4  | 9,216.4  | 9,907.6  | 9,184.3  | 9,955.8  | 11,673.2 | 13,773.2 | 15,121.5 | 16,557.6 | 17,458.2 | 17,868.2          |
| Utilities                          | 650.2    | 707.8    | 762.1    | 796.0    | 839.9    | 926.6    | 1,012.1  | 1,085.9  | 1,203.3  | 1,281.1  | 1,353.5           |
| Construction                       | 3,299.0  | 4,266.7  | 4,927.2  | 4,167.9  | 3,234.2  | 2,916.8  | 2,804.3  | 2,845.0  | 3,050.0  | 3,690.5  | 4,340.6           |
| Commerce                           | 6,091.9  | 6,374.2  | 6,738.9  | 6,636.3  | 6,641.8  | 7,346.5  | 8,560.8  | 9,268.9  | 10,038.2 | 10,677.1 | 11,033.9          |
| Transport & Communications         | 4,351.7  | 4,678.1  | 5,131.8  | 5,234.5  | 5,657.7  | 6,137.5  | 6,787.7  | 7,445.2  | 8,119.5  | 8,758.4  | 9,562.0           |
| Financial & Business Services      | 7,563.6  | 8,400.0  | 9,441.0  | 10,652.0 | 10,463.3 | 11,587.0 | 12,198.2 | 13,378.2 | 14,954.0 | 15,770.8 | 16,624.9          |
| Other Services                     | 3,840.0  | 4,142.7  | 4,372.3  | 4,577.3  | 4,802.5  | 5,060.3  | 5,231.0  | 5,492.2  | 5,917.8  | 6,279.9  | 6,596.5           |
| Less : Imputed Bank Service Charge | 1,925.4  | 2,191.7  | 2,666.6  | 3,196.5  | 2,702.5  | 3,001.5  | 2,968.6  | 2,845.1  | 3,576.3  | 3,813.7  | 3,817.5           |
| Add : Import Duties                | 528.5    | 510.0    | 511.5    | 468.1    | 393.6    | 398.0    | 511.2    | 584.4    | 526.6    | 531.7    | 616.1             |



#### 4.4 GROSS DOMESTIC PRODUCT DEFLATORS BY INDUSTRY, 1982-1992 (1985 = 100)

| Industry                      | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992 <sup>p</sup> |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| <b>Total</b>                  | 96.7  | 100.5 | 101.2 | 100.0 | 97.5  | 98.3  | 103.7 | 108.0 | 111.2 | 114.1 | 116.4             |
| Agriculture & Fishing         | 115.1 | 106.4 | 104.0 | 100.0 | 93.8  | 94.7  | 99.1  | 99.1  | 99.6  | 103.0 | 105.0             |
| Quarrying                     | 123.2 | 115.2 | 110.0 | 100.0 | 80.2  | 61.3  | 70.6  | 77.2  | 117.4 | 107.8 | 90.1              |
| Manufacturing                 | 90.9  | 96.7  | 99.6  | 100.0 | 102.3 | 103.6 | 108.6 | 110.3 | 113.3 | 115.8 | 117.0             |
| Utilities                     | 92.4  | 99.3  | 101.4 | 100.0 | 128.0 | 103.9 | 114.2 | 104.2 | 103.9 | 101.8 | 99.5              |
| Construction                  | 95.4  | 98.5  | 100.3 | 100.0 | 97.4  | 98.9  | 100.3 | 109.2 | 118.5 | 127.5 | 136.7             |
| Commerce                      | 104.9 | 104.6 | 102.2 | 100.0 | 98.1  | 100.3 | 103.7 | 106.5 | 108.6 | 108.6 | 107.7             |
| Transport & Communications    | 101.9 | 104.6 | 101.8 | 100.0 | 94.0  | 96.5  | 101.3 | 106.3 | 103.4 | 106.8 | 107.4             |
| Financial & Business Services | 102.6 | 105.6 | 105.5 | 100.0 | 93.6  | 93.8  | 99.9  | 106.5 | 114.2 | 115.9 | 121.6             |
| Other Services                | 87.0  | 92.0  | 96.9  | 100.0 | 93.9  | 92.7  | 99.6  | 107.1 | 111.5 | 116.6 | 118.2             |

Note : Refer to gross domestic product at market prices.

# 4.5 EXPENDITURE ON GROSS DOMESTIC PRODUCT, 1982-1992

Million Dollars

|                                    | 1982     | 1983     | 1984     | 1985     | 1986     | 1987     | 1988     | 1989     | 1990     | 1991     | 1992 <sup>P</sup> |
|------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------------|
| At Current Market Prices           |          |          |          |          |          |          |          |          |          |          |                   |
| <b>Total</b>                       | 32,669.9 | 36,732.8 | 40,047.9 | 38,923.5 | 38,663.5 | 42,635.8 | 49,998.0 | 56,844.2 | 63,438.9 | 69,451.7 | 74,974.5          |
| Private Consumption Expenditure    | 15,282.5 | 16,202.1 | 17,569.5 | 17,552.9 | 18,191.8 | 20,249.4 | 23,415.1 | 25,879.0 | 28,198.7 | 30,361.4 | 32,288.9          |
| Government Consumption Expenditure | 3,570.4  | 3,995.3  | 4,333.0  | 5,548.5  | 5,270.2  | 5,314.6  | 5,336.9  | 5,898.2  | 6,641.3  | 7,247.9  | 7,335.5           |
| Gross Fixed Capital Formation      | 15,505.7 | 17,464.2 | 19,122.2 | 16,424.8 | 14,310.2 | 15,164.9 | 17,344.1 | 20,355.9 | 23,350.5 | 27,334.8 | 30,288.5          |
| Increase in Stocks                 | 153.1    | 131.6    | 295.1    | 126.4    | 584.6    | 1,471.7  | 1,090.9  | -440.3   | 1,851.8  | -784.2   | 287.7             |
| Net Exports of Goods & Services    | -1,440.6 | -663.8   | -1,113.0 | -945.7   | 143.1    | 589.1    | 2,527.2  | 4,895.4  | 3,377.9  | 5,613.2  | 4,624.1           |
| Statistical Discrepancy            | -401.2   | -396.6   | -158.9   | 216.6    | 163.6    | -153.9   | 283.8    | 256.0    | 18.7     | -321.4   | 149.8             |
| At 1985 Market Prices              |          |          |          |          |          |          |          |          |          |          |                   |
| <b>Total</b>                       | 33,772.3 | 36,537.2 | 39,572.5 | 38,923.5 | 39,641.4 | 43,371.8 | 48,203.4 | 52,657.4 | 57,049.4 | 60,884.0 | 64,415.9          |
| Private Consumption Expenditure    | 16,086.4 | 16,852.1 | 17,711.6 | 17,552.9 | 18,287.7 | 20,052.5 | 22,757.8 | 24,653.6 | 26,311.5 | 27,613.5 | 28,739.7          |
| Government Consumption Expenditure | 3,863.8  | 4,235.9  | 4,457.2  | 5,548.5  | 5,606.8  | 5,653.9  | 5,339.1  | 5,620.6  | 6,234.0  | 6,716.1  | 6,802.2           |
| Gross Fixed Capital Formation      | 15,405.7 | 17,067.7 | 18,677.4 | 16,424.8 | 14,540.2 | 15,028.0 | 16,259.6 | 18,610.9 | 21,190.4 | 24,329.0 | 26,591.6          |
| Increase in Stocks                 | 144.0    | 242.2    | 273.0    | 126.4    | 637.4    | 1,478.0  | 578.4    | -426.9   | 1,774.6  | -293.9   | 151.8             |
| Net Exports of Goods & Services    | -2,044.9 | -1,669.6 | -1,431.4 | -945.7   | 349.3    | 1,248.5  | 3,489.0  | 4,446.0  | 1,889.2  | 2,701.7  | 2,333.5           |
| Statistical Discrepancy            | 317.3    | -191.1   | -115.3   | 216.6    | 220.0    | -89.1    | -220.5   | -246.8   | -350.3   | -182.4   | -202.9            |



**4.6 DEFLATORS OF EXPENDITURE ON GROSS DOMESTIC PRODUCT, 1982-1992**  
(1985 = 100)

|                                    | 1982  | 1983  | 1984  | 1985  | 1986 | 1987  | 1988  | 1989  | 1990  | 1991  | 1992 <sup>P</sup> |
|------------------------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------------------|
| <b>Total</b>                       | 96.7  | 100.5 | 101.2 | 100.0 | 97.5 | 98.3  | 103.7 | 108.0 | 111.2 | 114.1 | 116.4             |
| Private Consumption Expenditure    | 95.0  | 96.1  | 99.2  | 100.0 | 99.5 | 101.0 | 102.9 | 105.0 | 107.2 | 110.0 | 112.3             |
| Government Consumption Expenditure | 92.4  | 94.3  | 97.2  | 100.0 | 94.0 | 94.0  | 100.0 | 104.9 | 106.5 | 107.9 | 107.8             |
| Gross Fixed Capital Formation      | 100.6 | 102.3 | 102.4 | 100.0 | 98.4 | 100.9 | 106.7 | 109.4 | 110.2 | 112.4 | 113.9             |
| Exports of Goods & Services        | 112.9 | 107.5 | 101.5 | 100.0 | 86.4 | 93.1  | 93.3  | 95.3  | 95.5  | 92.5  | 89.9              |
| Imports of Goods & Services        | 111.5 | 105.8 | 101.1 | 100.0 | 86.6 | 93.8  | 94.0  | 94.8  | 94.3  | 90.3  | 88.2              |

# 4.7 PRIVATE CONSUMPTION EXPENDITURE, 1982-1992

Million Dollars

|                                           | 1982                     | 1983     | 1984     | 1985     | 1986     | 1987     | 1988     | 1989     | 1990     | 1991     | 1992 <sup>p</sup> |
|-------------------------------------------|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------------|
|                                           | At Current Market Prices |          |          |          |          |          |          |          |          |          |                   |
| <b>Total</b>                              | 15,282.5                 | 16,202.1 | 17,569.5 | 17,552.9 | 18,191.8 | 20,249.4 | 23,415.1 | 25,879.0 | 28,198.7 | 30,361.4 | 32,288.9          |
| Food & Beverages                          | 4,800.1                  | 4,932.0  | 5,185.9  | 5,121.5  | 5,096.9  | 5,430.2  | 6,007.8  | 6,241.4  | 6,388.8  | 6,739.2  | 7,058.6           |
| Clothing & Footwear                       | 1,555.2                  | 1,681.8  | 1,665.1  | 1,569.4  | 1,656.6  | 1,870.4  | 2,092.3  | 2,203.9  | 2,603.2  | 2,578.6  | 2,668.9           |
| Rent & Utilities                          | 1,623.4                  | 1,745.3  | 1,976.6  | 2,184.9  | 2,299.3  | 2,430.4  | 2,637.4  | 2,816.3  | 3,137.4  | 3,484.8  | 3,867.7           |
| Furniture & Household Equipment           | 1,602.1                  | 1,719.3  | 1,943.2  | 2,015.3  | 2,051.6  | 2,157.1  | 2,541.4  | 2,736.7  | 2,997.8  | 3,185.3  | 3,371.3           |
| Medical Services                          | 502.8                    | 567.4    | 643.1    | 702.2    | 898.1    | 962.8    | 1,139.3  | 1,244.8  | 1,459.4  | 1,661.4  | 1,757.3           |
| Transport & Communications                | 2,560.2                  | 2,743.1  | 2,816.7  | 2,678.7  | 2,609.3  | 2,997.0  | 3,696.2  | 4,309.7  | 4,776.0  | 4,970.9  | 5,496.8           |
| Recreation & Education                    | 2,229.1                  | 2,421.0  | 2,543.0  | 2,453.5  | 2,817.4  | 3,258.9  | 4,000.6  | 4,501.2  | 5,269.7  | 5,353.4  | 5,499.9           |
| Other Goods & Services                    | 3,684.4                  | 3,829.6  | 3,910.1  | 3,562.4  | 3,700.1  | 4,532.7  | 5,311.5  | 6,405.5  | 7,627.6  | 7,576.0  | 8,127.0           |
| Add : Residents' Expenditure Abroad       | 843.3                    | 973.4    | 1,049.5  | 1,103.5  | 1,145.8  | 1,362.3  | 1,521.3  | 2,106.9  | 2,668.7  | 2,740.3  | 3,078.6           |
| Less : Non-residents' Expenditure Locally | 4,118.1                  | 4,410.8  | 4,163.7  | 3,838.5  | 4,083.3  | 4,752.4  | 5,532.7  | 6,687.4  | 8,729.9  | 7,928.5  | 8,637.2           |
|                                           | At 1985 Market Prices    |          |          |          |          |          |          |          |          |          |                   |
| <b>Total</b>                              | 16,086.4                 | 16,852.1 | 17,711.6 | 17,552.9 | 18,287.7 | 20,052.5 | 22,757.8 | 24,653.6 | 26,311.5 | 27,613.5 | 28,739.7          |
| Food & Beverages                          | 4,876.0                  | 4,962.4  | 5,111.3  | 5,121.5  | 5,206.7  | 5,469.0  | 5,884.5  | 5,976.9  | 6,068.0  | 6,332.6  | 6,524.8           |
| Clothing & Footwear                       | 1,580.0                  | 1,642.4  | 1,647.3  | 1,569.4  | 1,663.7  | 1,852.5  | 2,010.5  | 2,100.5  | 2,467.5  | 2,416.9  | 2,453.6           |
| Rent & Utilities                          | 1,694.2                  | 1,794.9  | 1,984.8  | 2,184.9  | 2,372.1  | 2,559.4  | 2,760.1  | 2,892.4  | 3,104.7  | 3,283.8  | 3,473.4           |
| Furniture & Household Equipment           | 1,641.4                  | 1,747.1  | 1,953.3  | 2,015.3  | 2,011.9  | 2,099.0  | 2,428.8  | 2,577.5  | 2,776.1  | 2,921.7  | 3,059.8           |
| Medical Services                          | 620.1                    | 633.1    | 654.6    | 702.2    | 902.1    | 967.5    | 1,123.8  | 1,205.0  | 1,341.4  | 1,391.0  | 1,426.2           |
| Transport & Communications                | 2,861.2                  | 2,995.0  | 2,967.3  | 2,678.7  | 2,698.7  | 2,985.4  | 3,553.5  | 4,010.6  | 4,296.7  | 4,250.8  | 4,605.1           |
| Recreation & Education                    | 2,168.9                  | 2,480.4  | 2,534.9  | 2,453.5  | 2,761.5  | 3,155.8  | 3,836.6  | 4,298.3  | 5,025.9  | 5,107.9  | 5,128.1           |
| Other Goods & Services                    | 3,633.1                  | 3,779.3  | 3,884.1  | 3,562.4  | 3,699.4  | 4,465.1  | 5,158.8  | 5,993.7  | 6,743.2  | 6,545.2  | 7,001.9           |
| Add : Residents' Expenditure Abroad       | 896.0                    | 992.2    | 1,049.7  | 1,103.5  | 1,161.0  | 1,366.1  | 1,496.6  | 1,998.1  | 2,461.6  | 2,468.6  | 2,704.7           |
| Less : Non-residents' Expenditure Locally | 3,884.5                  | 4,174.7  | 4,075.7  | 3,838.5  | 4,189.4  | 4,867.3  | 5,495.4  | 6,399.4  | 7,973.6  | 7,105.0  | 7,637.9           |



## 4.8 GROSS FIXED CAPITAL FORMATION, 1982-1992

Million Dollars

|                            | 1982                     | 1983     | 1984     | 1985     | 1986     | 1987     | 1988     | 1989     | 1990     | 1991     | 1992 <sup>P</sup> |
|----------------------------|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------------|
|                            | At Current Market Prices |          |          |          |          |          |          |          |          |          |                   |
|                            |                          |          |          |          |          |          |          |          |          |          |                   |
| <b>Total</b>               | 15,505.7                 | 17,464.2 | 19,122.2 | 16,424.8 | 14,310.2 | 15,164.9 | 17,344.1 | 20,355.9 | 23,350.5 | 27,334.8 | 30,288.5          |
| Construction & Works       | 8,280.1                  | 10,876.6 | 11,954.6 | 10,007.4 | 7,908.9  | 6,986.3  | 6,666.3  | 7,436.0  | 8,365.1  | 10,957.1 | 13,694.0          |
| Residential Buildings      | 3,395.5                  | 5,516.8  | 6,591.2  | 5,265.4  | 3,569.9  | 3,021.0  | 3,199.7  | 3,270.7  | 3,527.8  | 4,342.1  | 5,524.4           |
| Non-residential Buildings  | 3,912.4                  | 4,336.7  | 4,200.5  | 3,284.8  | 2,133.7  | 1,772.6  | 2,054.4  | 2,819.9  | 3,638.1  | 5,061.1  | 6,403.8           |
| Other Construction & Works | 972.2                    | 1,023.1  | 1,162.9  | 1,457.2  | 2,205.3  | 2,192.7  | 1,412.2  | 1,345.4  | 1,199.2  | 1,553.9  | 1,765.8           |
| Transport Equipment        | 2,595.9                  | 2,435.5  | 2,376.1  | 1,908.0  | 1,674.1  | 1,991.3  | 2,096.8  | 3,130.5  | 3,546.9  | 4,259.9  | 4,745.2           |
| Machinery & Equipment      | 4,629.7                  | 4,152.1  | 4,791.5  | 4,509.4  | 4,727.2  | 6,187.3  | 8,581.0  | 9,789.4  | 11,438.5 | 12,117.8 | 11,849.3          |
|                            | At 1985 Market Prices    |          |          |          |          |          |          |          |          |          |                   |
|                            |                          |          |          |          |          |          |          |          |          |          |                   |
| <b>Total</b>               | 15,405.7                 | 17,067.7 | 18,677.4 | 16,424.8 | 14,540.2 | 15,028.0 | 16,259.6 | 18,610.9 | 21,190.4 | 24,329.0 | 26,591.6          |
| Construction & Works       | 8,106.4                  | 10,647.4 | 11,780.7 | 10,007.4 | 8,232.5  | 7,277.4  | 6,661.5  | 6,825.2  | 7,174.2  | 8,891.8  | 10,695.9          |
| Residential Buildings      | 3,403.2                  | 5,551.4  | 6,549.5  | 5,265.4  | 3,722.8  | 3,135.4  | 3,186.2  | 2,989.6  | 3,011.2  | 3,491.6  | 4,230.6           |
| Non-residential Buildings  | 3,788.2                  | 4,123.8  | 4,098.5  | 3,284.8  | 2,219.1  | 1,849.9  | 2,055.0  | 2,586.4  | 3,118.0  | 4,117.4  | 5,053.8           |
| Other Construction & Works | 915.0                    | 972.2    | 1,132.7  | 1,457.2  | 2,290.6  | 2,292.1  | 1,420.3  | 1,249.2  | 1,045.0  | 1,282.8  | 1,411.5           |
| Transport Equipment        | 2,857.0                  | 2,344.0  | 2,207.0  | 1,908.0  | 1,708.5  | 1,925.1  | 1,919.5  | 2,865.5  | 3,240.3  | 3,905.4  | 4,329.3           |
| Machinery & Equipment      | 4,442.3                  | 4,076.3  | 4,689.7  | 4,509.4  | 4,599.2  | 5,825.5  | 7,678.6  | 8,920.2  | 10,775.9 | 11,531.8 | 11,566.4          |

# 4.9 BALANCE OF PAYMENTS, 1982-1992

Million Dollars

|                                                | 1982      | 1983      | 1984     | 1985     | 1986     | 1987     | 1988     | 1989      | 1990      | 1991      | 1992 <sup>p</sup> |
|------------------------------------------------|-----------|-----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-------------------|
| <b>A Current Account Balance</b>               | -2,773.6  | -1,289.7  | -820.9   | -7.8     | 693.7    | -331.8   | 1,789.0  | 4,848.0   | 3,159.2   | 5,710.7   | 4,771.2           |
| Goods & Services (Net)                         | -2,334.8  | -835.5    | -345.8   | 461.2    | 1,092.1  | 160.4    | 2,391.2  | 5,562.6   | 3,962.1   | 6,641.2   | 5,821.8           |
| Merchandise Trade Balance                      | -14,470.1 | -12,304.1 | -8,684.2 | -6,223.5 | -4,497.3 | -5,152.0 | -4,719.3 | -4,772.2  | -9,296.7  | -7,131.8  | -7,982.4          |
| Exports fob                                    | 41,590.6  | 43,168.0  | 48,340.9 | 47,376.3 | 46,457.7 | 57,838.5 | 76,458.1 | 84,328.4  | 91,865.4  | 98,158.0  | 100,295.0         |
| Imports fob                                    | 56,060.7  | 55,472.1  | 57,025.1 | 53,599.8 | 50,955.0 | 62,990.5 | 81,177.4 | 89,100.6  | 101,162.1 | 105,289.8 | 108,277.4         |
| Services Balance                               | 12,135.3  | 11,468.6  | 8,338.4  | 6,684.7  | 5,589.4  | 5,312.4  | 7,110.5  | 10,334.8  | 13,258.8  | 13,773.0  | 13,804.2          |
| Exports of Services                            | 23,436.9  | 22,398.2  | 19,590.9 | 18,034.3 | 18,375.3 | 21,792.0 | 26,487.5 | 31,855.3  | 39,546.4  | 41,104.8  | 42,702.1          |
| Shipment                                       | 1,471.5   | 1,472.2   | 1,512.8  | 1,501.1  | 1,521.9  | 1,877.7  | 2,459.3  | 2,696.4   | 2,962.1   | 3,121.1   | 3,182.6           |
| Travel                                         | 4,034.2   | 4,214.8   | 3,965.0  | 3,653.0  | 3,847.9  | 4,506.2  | 5,275.5  | 6,448.9   | 8,553.4   | 7,769.7   | 8,477.9           |
| Investment Income                              | 2,658.7   | 2,747.7   | 3,418.4  | 3,990.9  | 4,831.9  | 6,108.2  | 7,627.4  | 9,082.9   | 11,482.0  | 12,633.0  | 12,907.8          |
| Official Transaction                           | 223.0     | 214.0     | 232.4    | 217.8    | 211.1    | 206.6    | 210.7    | 189.8     | 184.1     | 171.3     | 172.3             |
| Other Transportation & Services nec            | 15,049.5  | 13,749.5  | 10,462.3 | 8,671.5  | 7,962.5  | 9,093.3  | 10,914.6 | 13,437.3  | 16,364.8  | 17,409.7  | 17,961.5          |
| Imports of Services                            | 11,301.6  | 10,929.6  | 11,252.5 | 11,349.6 | 12,785.9 | 16,479.6 | 19,377.0 | 21,520.5  | 26,287.6  | 27,331.8  | 28,897.9          |
| Shipment                                       | 3,274.5   | 3,078.8   | 3,201.9  | 3,317.6  | 3,443.2  | 3,983.9  | 5,191.0  | 5,669.3   | 6,784.0   | 6,973.4   | 7,442.1           |
| Travel                                         | 1,027.8   | 1,187.4   | 1,282.3  | 1,349.4  | 1,404.3  | 1,674.0  | 1,871.7  | 2,600.8   | 3,301.0   | 3,389.9   | 3,812.0           |
| Investment Income                              | 3,570.2   | 2,937.4   | 2,670.3  | 2,602.4  | 3,715.9  | 5,916.8  | 6,846.0  | 7,272.1   | 9,402.3   | 10,232.2  | 10,274.0          |
| Official Transaction                           | 66.4      | 75.3      | 81.0     | 91.8     | 89.7     | 94.4     | 129.8    | 104.0     | 132.8     | 141.6     | 183.2             |
| Other Transportation & Services nec            | 3,362.7   | 3,650.7   | 4,017.0  | 3,988.4  | 4,132.8  | 4,810.5  | 5,338.5  | 5,874.3   | 6,667.5   | 6,594.7   | 7,186.6           |
| Unrequited Transfers (Net)                     | -438.8    | -454.2    | -475.1   | -469.0   | -398.4   | -492.2   | -602.2   | -714.6    | -802.9    | -930.5    | -1,050.6          |
| Private                                        | -415.5    | -436.9    | -456.5   | -451.2   | -374.0   | -357.8   | -420.3   | -470.1    | -497.0    | -587.1    | -676.1            |
| Official                                       | -23.3     | -17.3     | -18.6    | -17.8    | -24.4    | -134.4   | -181.9   | -244.5    | -305.9    | -343.4    | -374.5            |
| <b>B Capital Account Balance</b>               | 4,940.6   | 5,204.4   | 3,369.9  | 1,536.9  | -967.7   | 989.6    | 1,987.6  | 667.3     | 9,815.7   | 5,104.8   | 6,871.2           |
| Non monetary Sector (Net)                      | 4,224.7   | 2,378.4   | 1,769.7  | 2,554.8  | 2,820.8  | 2,799.8  | 3,982.9  | 3,285.9   | 6,770.4   | 6,775.6   | 8,039.2           |
| Private                                        | 4,256.6   | 2,558.0   | 1,794.7  | 2,594.3  | 2,997.0  | 2,842.8  | 4,023.5  | 3,368.7   | 6,834.8   | 6,802.8   | 8,054.5           |
| Official                                       | -31.9     | -179.6    | -25.0    | -39.5    | -176.2   | -43.0    | -40.6    | -82.8     | -64.4     | -27.2     | -15.3             |
| Monetary Sector (Net)                          | 715.9     | 2,826.0   | 1,600.2  | -1,017.9 | -3,788.5 | -1,810.2 | -1,995.3 | -2,618.6  | 3,045.3   | -1,670.8  | -1,168.0          |
| Commercial Banks : Foreign Assets <sup>1</sup> | 833.8     | -1,690.3  | -4,751.9 | -3,057.9 | -6,017.0 | -3,285.7 | -5,071.4 | -14,198.2 | 4,909.1   | 1,771.1   | -9,568.2          |
| Foreign Liabilities                            | -117.9    | 4,516.3   | 6,352.1  | 2,040.0  | 2,228.5  | 1,475.5  | 3,076.1  | 11,579.6  | -1,863.8  | -3,441.9  | 8,400.2           |
| <b>C Allocation of Special Drawing Rights</b>  | -         | -         | -        | -        | -        | -        | -        | -         | -         | -         | -                 |
| <b>D Balancing Item</b>                        | 350.5     | -1,677.0  | 701.6    | 1,412.6  | 1,482.6  | 1,670.7  | -433.0   | -181.1    | -3,082.4  | -3,552.7  | -1,683.4          |
| <b>E Overall Balance (A+B+C+D)</b>             | 2,517.5   | 2,237.7   | 3,250.6  | 2,941.7  | 1,208.6  | 2,328.5  | 3,343.6  | 5,334.2   | 9,892.5   | 7,262.8   | 9,959.0           |
| <b>F Official Reserves (Net)<sup>1</sup></b>   | -2,517.5  | -2,237.7  | -3,250.6 | -2,941.7 | -1,208.6 | -2,328.5 | -3,343.6 | -5,334.2  | -9,892.5  | -7,262.8  | -9,959.0          |
| Special Drawing Rights                         | -51.9     | -23.4     | 3.6      | -17.6    | -31.4    | -29.1    | -8.2     | -14.4     | -27.8     | -4.2      | 76.1              |
| Reserve Position in the Fund                   | -10.1     | -1.8      | -1.3     | -26.0    | -24.8    | -11.7    | 12.2     | 12.8      | 3.0       | 12.8      | -146.7            |
| Foreign Exchange Assets                        | -2,455.5  | -2,212.5  | -3,252.9 | -2,898.1 | -1,152.4 | -2,287.7 | -3,347.6 | -5,332.6  | -9,867.7  | -7,271.4  | -9,888.4          |

<sup>1</sup> Increase in assets is indicated by a minus (-) sign.



# 4.10 FOREIGN EQUITY INVESTMENT IN SINGAPORE BY INDUSTRY, 1980 -1990 (End of Period)

Million Dollars

| Industry                    | 1980     | 1981     | 1982     | 1983     | 1984     | 1985     | 1986     | 1987     | 1988     | 1989     | 1990     |
|-----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>Total</b>                | 13,002.4 | 16,681.4 | 20,355.3 | 22,120.3 | 24,801.2 | 25,502.7 | 28,584.0 | 34,540.3 | 41,276.7 | 47,030.1 | 57,927.0 |
| Agriculture & Fishing       | 14.4     | 62.0     | 56.9     | 81.5     | 83.5     | 75.6     | 29.7     | 45.7     | 44.8     | 50.7     | 119.6    |
| Mining & Quarrying          | 11.4     | 18.7     | 9.4      | -2.9     | -23.5    | -39.4    | -48.6    | -50.4    | -55.2    | -44.6    | -39.8    |
| Manufacturing               | 6,927.8  | 8,097.6  | 9,048.8  | 10,404.7 | 11,415.3 | 11,912.0 | 13,156.2 | 15,892.7 | 17,769.2 | 19,841.9 | 22,657.3 |
| Construction                | 173.0    | 211.6    | 205.1    | 54.2     | 153.2    | 246.2    | 314.9    | 199.6    | 361.2    | 716.3    | 614.7    |
| Commerce                    | 2,181.0  | 2,697.5  | 3,451.1  | 3,732.6  | 3,765.6  | 3,512.2  | 3,493.8  | 3,848.7  | 4,592.3  | 5,447.4  | 7,541.4  |
| Transport & Storage         | 445.7    | 553.9    | 596.5    | 483.4    | 372.2    | 107.8    | 201.9    | 516.4    | 864.9    | 1,524.2  | 1,886.6  |
| Financial/Business Services | 3,205.2  | 4,977.5  | 6,936.0  | 7,214.5  | 8,882.4  | 9,511.2  | 11,249.2 | 13,890.1 | 17,486.1 | 19,181.8 | 24,797.9 |
| Social & Personal Services  | 43.8     | 62.5     | 51.5     | 152.3    | 152.5    | 177.1    | 186.9    | 197.5    | 213.4    | 312.4    | 349.1    |

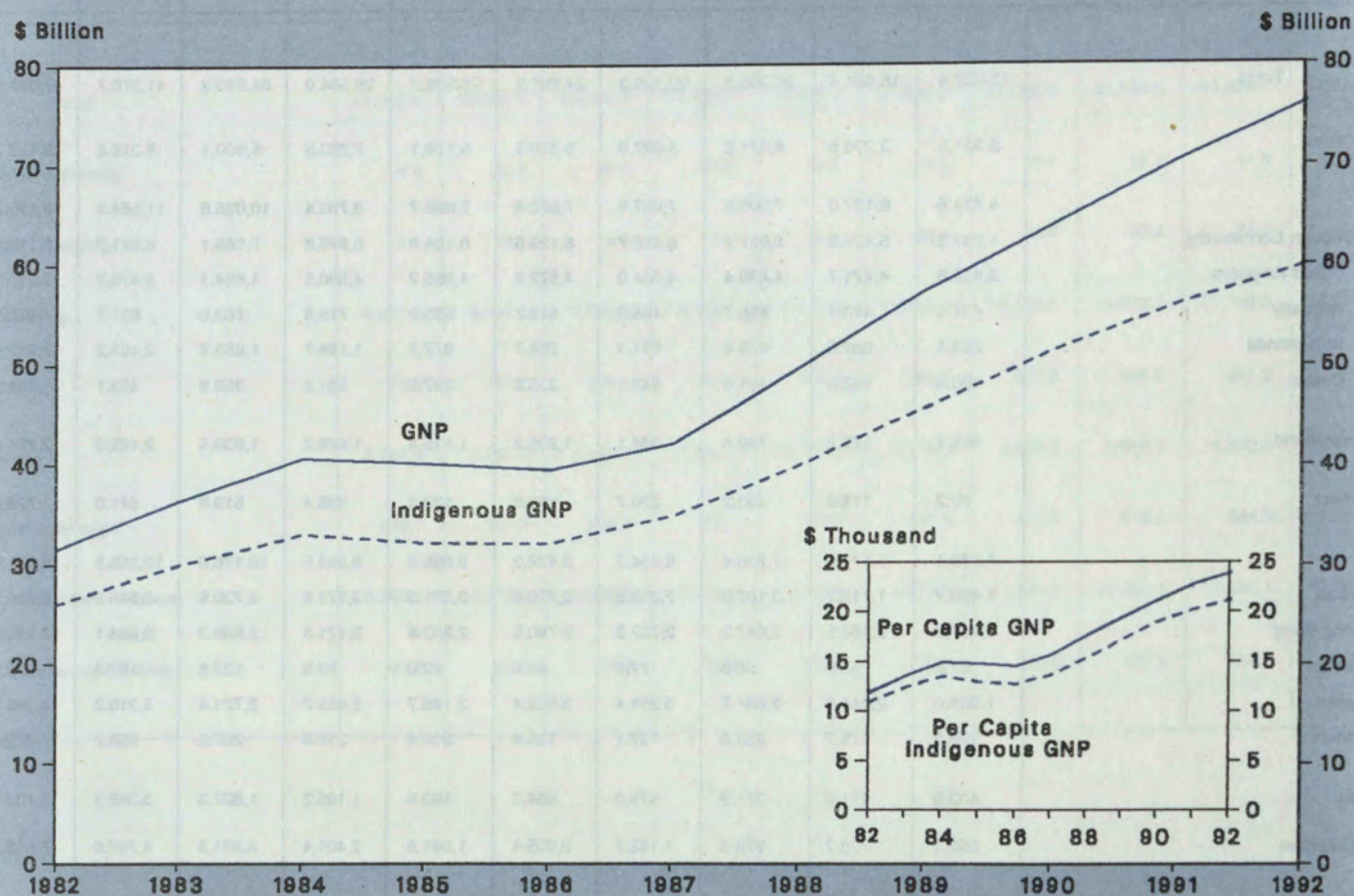
**4.11 FOREIGN EQUITY INVESTMENT IN SINGAPORE BY COUNTRY, 1980-1990**  
(End of Period)

Million Dollars

| Country            | 1980     | 1981     | 1982     | 1983     | 1984     | 1985     | 1986     | 1987     | 1988     | 1989     | 1990     |
|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>Total</b>       | 13,002.4 | 16,681.4 | 20,355.3 | 22,120.3 | 24,801.2 | 25,502.7 | 28,584.0 | 34,540.3 | 41,276.7 | 47,030.1 | 57,927.0 |
| United States      | 2,551.5  | 3,236.8  | 4,271.2  | 5,027.9  | 5,210.5  | 6,170.1  | 7,233.5  | 8,500.1  | 8,319.2  | 9,157.7  | 9,950.2  |
| Europe             | 4,814.8  | 6,127.0  | 7,006.2  | 7,057.5  | 7,522.8  | 7,688.7  | 8,790.4  | 10,025.6 | 11,584.8 | 13,135.2 | 16,277.5 |
| European Community | 4,237.5  | 5,429.3  | 6,027.2  | 5,852.7  | 6,129.6  | 6,134.9  | 6,876.8  | 7,668.1  | 8,941.2  | 10,112.4 | 13,237.1 |
| United Kingdom     | 3,432.8  | 4,471.7  | 4,899.4  | 4,534.0  | 4,572.6  | 4,365.2  | 4,590.5  | 4,894.4  | 5,473.2  | 5,615.3  | 6,957.2  |
| Germany            | 421.6    | 413.1    | 456.7    | 465.3    | 512.7    | 565.2    | 715.8    | 763.0    | 851.7    | 910.5    | 902.1    |
| Netherlands        | 253.1    | 382.2    | 479.6    | 611.3    | 708.7    | 877.2    | 1,188.7  | 1,653.8  | 2,163.2  | 2,952.4  | 4,356.3  |
| Others             | 130.0    | 162.3    | 191.5    | 242.1    | 335.6    | 327.3    | 381.8    | 356.9    | 453.1    | 634.2    | 1,021.6  |
| Switzerland        | 505.1    | 579.2    | 788.8    | 984.1    | 1,206.3  | 1,415.4  | 1,628.2  | 1,838.5  | 2,102.6  | 2,294.0  | 2,362.3  |
| Others             | 72.2     | 118.5    | 190.2    | 220.7    | 186.9    | 138.4    | 285.4    | 519.0    | 541.0    | 728.8    | 678.1    |
| Asia               | 4,679.1  | 6,177.6  | 7,730.4  | 8,454.2  | 9,478.2  | 9,068.2  | 9,053.5  | 10,476.0 | 13,258.8 | 15,991.0 | 20,315.8 |
| Japan              | 1,420.7  | 1,713.7  | 2,102.9  | 2,252.8  | 2,926.0  | 3,261.3  | 3,771.8  | 4,730.6  | 6,646.0  | 8,606.7  | 11,255.7 |
| Hong Kong          | 1,707.0  | 2,187.5  | 2,647.2  | 2,732.3  | 2,780.6  | 2,352.8  | 2,121.8  | 2,636.2  | 2,886.1  | 3,530.3  | 4,231.4  |
| Taiwan             | 61.6     | 55.9     | 58.8     | 77.6     | 82.6     | 82.0     | 83.9     | 120.6    | 161.3    | 208.1    | 254.1    |
| Asean              | 1,361.0  | 2,044.8  | 2,687.7  | 3,254.4  | 3,553.4  | 3,165.7  | 2,859.2  | 2,721.4  | 3,310.2  | 3,343.5  | 4,335.4  |
| Others             | 128.8    | 175.7    | 233.8    | 137.1    | 135.6    | 206.4    | 216.8    | 267.2    | 255.2    | 302.4    | 239.1    |
| Australia          | 403.9    | 411.3    | 371.2    | 478.0    | 584.3    | 593.9    | 1,105.2  | 1,607.3  | 3,346.3  | 3,132.6  | 3,033.8  |
| Other Countries    | 553.1    | 728.7    | 976.3    | 1,102.7  | 2,005.4  | 1,981.8  | 2,401.4  | 3,931.3  | 4,767.6  | 5,613.6  | 8,349.8  |

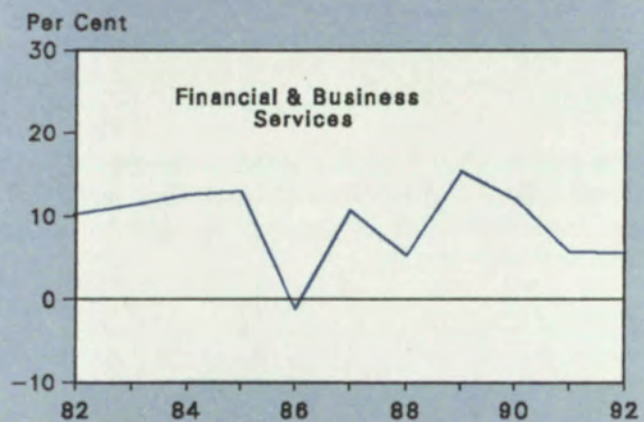
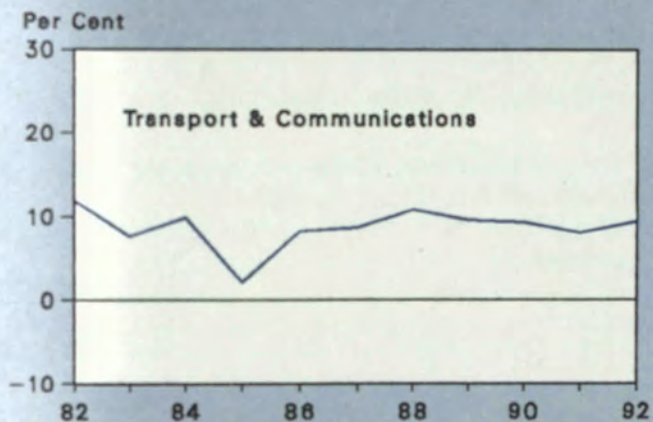
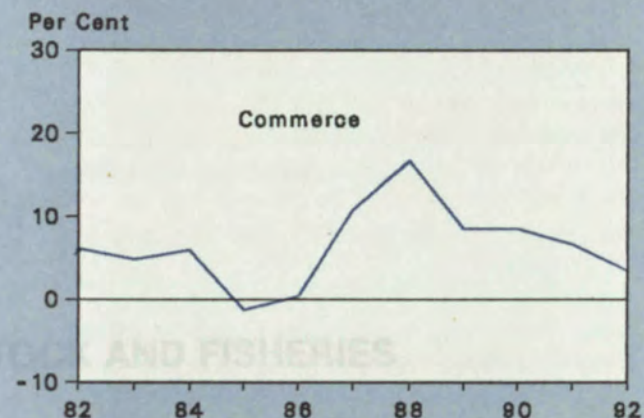
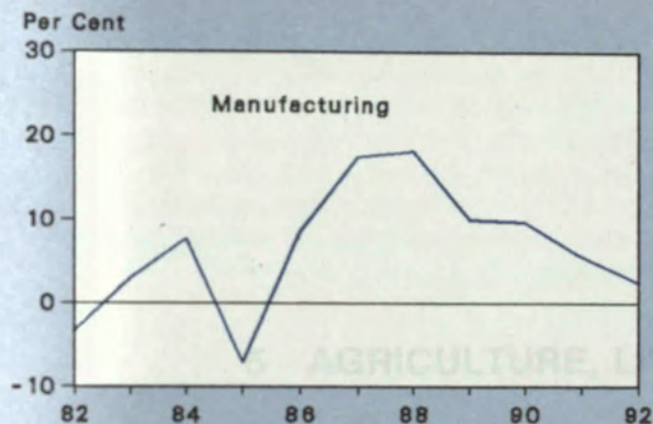


## GROSS NATIONAL PRODUCT (GNP) AND PER CAPITA GNP, 1982-1992



# CHART 6

## REAL ANNUAL GROWTH RATES OF MAJOR INDUSTRY, 1982-1992 (At 1985 Market Prices)





## 5 AGRICULTURE, LIVESTOCK AND FISHERIES

### Horticulture

The main crops cultivated are vegetables and orchids. Vegetable cultivation is highly intensive, producing mainly leafy vegetables like oil, leaf, wing, oil and bean, and mushrooms and bean sprouts.

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

General

Singapore's climate and terrain lend themselves to the production of eggs, leaf and vegetable, for local consumption and orchids and ornamental fish for export. About one per cent of Singapore's land area is used for agricultural purposes.

logging. The fish is then frozen by liquid nitrogen and packed in ice. The fish is then frozen by liquid nitrogen and packed in ice. The fish is then frozen by liquid nitrogen and packed in ice.

plantlets.

Singapore imports about 55 per cent of eggs consumed locally. The seven highly intensive large scale poultry farms in the Agrotech Park are expected to produce 80 per cent of eggs consumed locally when in full production. Singapore also exports day-old chicks to countries in the region.

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

## 5 AGRICULTURE, LIVESTOCK AND FISHERIES

### General

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

Land for farming has declined over the years. To achieve a significant measure of local production of fresh food supply, the government has initiated the development of agrotechnology parks to house large scale intensive farms using such technology.

### Horticulture

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

A number of farms and nurseries grow orchids, ornamental and foliage plants for export and domestic sale. Singapore is renowned for her exotic orchid cut-flowers which are exported to many countries. The orchid and other horticultural enterprises are supported by plant tissue laboratories which produce several hundred thousand of plantlets.

### Poultry and Livestock

Hen egg production, an important farming activity in Singapore, meets about 32 per cent of eggs consumed locally. The seven highly intensive large scale poultry farms in the Agrotechnology Parks are expected to produce 80 per cent of eggs consumed locally when in full production. Singapore also exports day-old chicks to countries in the region.

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



## Fisheries

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

The Jurong Fishing Port with its Central Fish Market Complex plays an important role as a major fish landing point

in Singapore. The complex handles the bulk of fresh fish, especially those landed by foreign vessels. The Punggol Fishing Port and Wholesale Fish Market Complex handle much smaller quantities which are landed mainly by local fishing vessels.

There are 80 licensed marine fish farms covering about 44 hectares of coastal waters, culturing high-value fish like groupers and seabass.

# 5.1 PRODUCTION OF PRINCIPAL CROPS, 1982-1992

| Year | Vegetables | Fruits | Orchids        | Ornamental Plants |
|------|------------|--------|----------------|-------------------|
|      | Tonnes     |        | Million Sprays | Million Plants    |
| 1982 | 41,388     | 8,090  | )              | )                 |
| 1983 | 35,326     | 8,070  | )              | )                 |
| 1984 | 32,767     | 6,950  | )              | )                 |
| 1985 | 28,648     | 5,610  | )              | )                 |
| 1986 | 20,876     | 5,450  | ) na           | ) na              |
| 1987 | 16,810     | 5,080  | )              | )                 |
| 1988 | 10,154     | 2,815  | )              | )                 |
| 1989 | 6,462      | 1,446  | )              | )                 |
| 1990 | 8,907      | 1,060  | )              | )                 |
| 1991 | 4,597      | 280    | )              | )                 |
| 1992 | 5,189      | na     | 42.2           | 2.3               |

Source : Primary Production Department



# 5.2 LIVESTOCK SLAUGHTERED, 1982-1992

| Year | Number    |        |       |       |
|------|-----------|--------|-------|-------|
|      | Pigs      | Sheep  | Goats | Oxen  |
| 1982 | 883,666   | 56,999 | 204   | 1,496 |
| 1983 | 926,005   | 59,012 | 249   | 1,414 |
| 1984 | 1,026,287 | 58,045 | 212   | 1,471 |
| 1985 | 1,093,272 | 53,579 | 121   | 1,383 |
| 1986 | 1,086,304 | 54,666 | 747   | 1,537 |
| 1987 | 1,106,678 | 52,363 | 1,432 | 1,703 |
| 1988 | 1,148,832 | 41,642 | 310   | 1,668 |
| 1989 | 1,134,357 | 29,643 | 265   | 1,423 |
| 1990 | 1,152,395 | 28,111 | 227   | 1,260 |
| 1991 | 1,231,648 | 26,783 | 385   | 1,288 |
| 1992 | 1,266,718 | 26,677 | 947   | 1,409 |

Source : Primary Production Department

### 5.3 FISH SUPPLY AND AUCTION, 1982-1992

Tonnes

| Year | Fish Supply      |         |         | Fish Auction |
|------|------------------|---------|---------|--------------|
|      | Local Production | Imports | Exports |              |
| 1982 | 18,830           | 89,104  | 50,995  | 93,430       |
| 1983 | 19,099           | 99,099  | 56,046  | 102,573      |
| 1984 | 25,041           | 107,784 | 61,239  | 117,638      |
| 1985 | 22,761           | 102,139 | 56,841  | 112,290      |
| 1986 | 20,279           | 135,034 | 80,455  | 109,531      |
| 1987 | 15,096           | 133,976 | 93,724  | 111,864      |
| 1988 | 13,152           | 155,588 | 107,074 | 103,135      |
| 1989 | 10,565           | 144,714 | 103,052 | 110,774      |
| 1990 | 11,400           | 161,719 | 116,213 | 106,829      |
| 1991 | 11,022           | 171,551 | 133,809 | 106,537      |
| 1992 | 9,198            | 180,403 | 121,941 | 108,589      |

Note : Exclude dried, salted and fish in brine.

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





## 6 MANUFACTURING

### Census of Industrial Production

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

The activities covered in the census include manufacturing, industrial servicing and granite quarrying. They are classified according to the Singapore Standard Industrial Classification of All Economic Activities, 1990 edition which is adapted from the International Standard Industrial Classification of All Economic Activities of the United Nations.

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

### Definitions

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

*Workers* : They refer to all persons engaged in the industrial activity of the establishment, that is, all employees, the self-employed and their relatives. Data generally refer to employment as at 30 June, except where establishments commence operation after June.

*Remuneration* : It refers to the amount expended for the whole year. For employees, total remuneration comprises salaries (include bonuses), contributions to the Central Provident Fund and pensions paid by employers, and other benefits provided. For working proprietors, it refers to the amount withdrawn for their personal use. For unpaid family workers, it refers to allowances.

*Gross Output* : The gross output of industries refers to the total value of all commodities produced (including by-products) and industrial services rendered during the year

*Materials Used* : Materials used cover raw or basic materials, chemicals and packing materials consumed in the production. They refer to the actual consumption during the year.



**Census Value Added :** Census value added is the additional value generated by the industrial activity of the establishment. It is derived as the difference between the value of gross output and that of total input and work given out.

### **Index of Industrial Production**

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

The Quarterly Index of Industrial Production covers all manufacturing activities classified under Major 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 Industrial Production is the average of the four quarterly indices.

### **Investment Commitments**

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

### **Pioneer Manufacturing Establishments**

These are establishments which had been granted approval under the Pioneer Industries Programme of the Economic Expansion Incentives Act. The principal statistics of these establishments were obtained from the Census of Industrial Production.

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

# 6.1 PRINCIPAL MANUFACTURING STATISTICS, 1982-1992

| Year              | Establishments | Workers | Materials       | Output   | Census Value Added | Remuneration | Capital Expenditure | Direct Exports |
|-------------------|----------------|---------|-----------------|----------|--------------------|--------------|---------------------|----------------|
|                   | Number         |         | Million Dollars |          |                    |              |                     |                |
| 1982              | 3,617          | 277,803 | 25,318.0        | 37,141.1 | 9,505.8            | 3,302.5      | 2,253.6             | 22,227.3       |
| 1983              | 3,643          | 273,228 | 25,512.8        | 37,888.3 | 10,012.4           | 3,604.6      | 2,132.4             | 22,921.6       |
| 1984              | 3,675          | 276,225 | 27,861.4        | 41,704.1 | 11,268.9           | 4,073.6      | 2,191.3             | 25,331.6       |
| 1985              | 3,529          | 254,802 | 25,661.7        | 38,817.8 | 10,812.8           | 4,075.9      | 1,982.6             | 24,389.7       |
| 1986              | 3,472          | 247,732 | 23,353.7        | 37,502.9 | 11,978.3           | 3,784.6      | 1,747.6             | 24,476.9       |
| 1987              | 3,535          | 277,031 | 29,196.4        | 46,337.7 | 14,539.6           | 4,189.9      | 2,739.4             | 30,500.8       |
| 1988              | 3,643          | 325,235 | 35,518.6        | 56,804.5 | 17,986.2           | 5,068.4      | 3,551.0             | 37,999.2       |
| 1989              | 3,678          | 338,043 | 40,392.8        | 63,924.1 | 19,746.2           | 5,974.6      | 4,518.1             | 42,545.9       |
| 1990              | 3,716          | 352,067 | 45,515.5        | 71,578.5 | 21,694.3           | 6,861.9      | 4,190.3             | 47,099.9       |
| 1991              | 3,795          | 358,723 | 46,492.3        | 74,794.4 | 23,545.8           | 7,667.6      | 4,038.8             | 45,533.6       |
| 1992 <sup>P</sup> | 3,852          | 354,222 | 47,064.2        | 76,260.0 | 24,334.4           | 8,155.6      | na                  | 47,511.6       |

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

Source : Economic Development Board  
with effect from April 1987



# 6.2 SELECTED AVERAGES AND RATIOS IN THE MANUFACTURING SECTOR, 1982-1992

| 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                     |                                    |                        |                               |                          |
| 1982              | 34,218                        | 133,696           | 25.6                         | 34.7                               | 8.9                    | 59.9                          | 59.8                     |
| 1983              | 36,645                        | 138,669           | 26.4                         | 36.5                               | 9.7                    | 60.2                          | 60.5                     |
| 1984              | 40,796                        | 150,979           | 27.0                         | 36.1                               | 9.8                    | 61.0                          | 60.7                     |
| 1985              | 42,436                        | 152,345           | 27.9                         | 37.7                               | 10.5                   | 63.0                          | 62.8                     |
| 1986              | 48,352                        | 151,385           | 31.9                         | 31.6                               | 10.1                   | 64.7                          | 65.3                     |
| 1987              | 52,483                        | 167,265           | 31.4                         | 28.8                               | 9.0                    | 65.9                          | 65.8                     |
| 1988              | 55,302                        | 174,657           | 31.7                         | 28.2                               | 8.9                    | 67.1                          | 66.9                     |
| 1989              | 58,413                        | 189,100           | 30.9                         | 30.3                               | 9.3                    | 66.9                          | 66.6                     |
| 1990              | 61,620                        | 203,309           | 30.3                         | 31.6                               | 9.6                    | 65.5                          | 65.8                     |
| 1991              | 65,639                        | 208,503           | 31.5                         | 32.6                               | 10.3                   | 61.8                          | 61.9                     |
| 1992 <sup>P</sup> | 68,698                        | 215,289           | 31.9                         | 33.5                               | 10.7                   | 62.2                          | 62.3                     |

Note : See notes to Table 6.1.

Source : Economic Development Board  
with effect from April 1987

### 6.3 MANUFACTURING ESTABLISHMENTS BY INDUSTRY, 1982-1992

Number

| Industrial Code | Industry                                                         | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 <sup>P</sup> |
|-----------------|------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 311/2           | Food                                                             | 282  | 288  | 300  | 284  | 287  | 283  | 272  | 263  | 265  | 271  | 277               |
| 313             | Beverage                                                         | 16   | 16   | 14   | 14   | 15   | 15   | 14   | 14   | 14   | 14   | 14                |
| 314             | Tobacco Products                                                 | 6    | 6    | 4    | 4    | 4    | 4    | 4    | 4    | 5    | 4    | 4                 |
| 321             | Textiles & Textile Manufactures                                  | 92   | 86   | 79   | 64   | 65   | 63   | 67   | 67   | 65   | 64   | 65                |
| 322             | Wearing Apparel except Footwear                                  | 406  | 391  | 387  | 370  | 370  | 373  | 370  | 372  | 370  | 351  | 354               |
| 323             | Leather & Leather Products                                       | 43   | 37   | 38   | 28   | 26   | 24   | 21   | 19   | 17   | 19   | 19                |
| 324             | Footwear                                                         | 53   | 51   | 58   | 50   | 50   | 51   | 39   | 35   | 32   | 29   | 29                |
| 331             | Sawn Timber & Other Wood Products except Furniture               | 119  | 111  | 103  | 108  | 100  | 94   | 89   | 91   | 82   | 76   | 76                |
| 332             | Furniture & Fixtures except primarily of Metal, Stone & Plastics | 125  | 125  | 142  | 145  | 156  | 148  | 154  | 153  | 141  | 139  | 142               |
| 341             | Paper & Paper Products                                           | 94   | 90   | 88   | 83   | 80   | 81   | 88   | 89   | 92   | 95   | 95                |
| 342             | Printing & Publishing                                            | 312  | 313  | 317  | 297  | 311  | 315  | 308  | 324  | 327  | 342  | 343               |
| 351             | Industrial Chemicals & Gases                                     | 49   | 52   | 57   | 57   | 59   | 62   | 65   | 73   | 77   | 77   | 76                |
| 352             | Paints, Pharmaceuticals & Other Chemical Products                | 85   | 86   | 90   | 89   | 88   | 86   | 88   | 88   | 93   | 94   | 94                |
| 353/4           | Petroleum Refineries & Petroleum Products                        | 11   | 11   | 12   | 12   | 11   | 11   | 11   | 11   | 15   | 17   | 17                |
| 355             | Processing of Jelutong & Gum Damar                               | 6    | 7    | 7    | 7    | 7    | 7    | 5    | 5    | 4    | 4    | 4                 |
| 356             | Rubber Products except Footwear & Toys                           | 28   | 29   | 31   | 24   | 22   | 26   | 25   | 24   | 26   | 27   | 27                |
| 357             | Plastic Products                                                 | 228  | 229  | 237  | 229  | 217  | 239  | 279  | 278  | 285  | 288  | 292               |
| 361/2           | Pottery, China, Earthenware & Glass Products                     | 10   | 10   | 13   | 12   | 10   | 8    | 8    | 9    | 8    | 10   | 10                |
| 363             | Structural Clay Products                                         | 11   | 11   | 11   | 10   | 9    | 8    | 8    | 8    | 7    | 6    | 6                 |
| 364             | Cement                                                           | 5    | 5    | 5    | 6    | 6    | 6    | 5    | 5    | 5    | 5    | 5                 |



# 6.3 MANUFACTURING ESTABLISHMENTS BY INDUSTRY, 1982-1992 (continued)

|                 |                                                         |       |       |       |       |       |       |       |       |       |       | Number            |
|-----------------|---------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| Industrial Code | Industry                                                | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992 <sup>p</sup> |
| 365             | Structural Cement & Concrete Products                   | 40    | 49    | 52    | 52    | 51    | 45    | 36    | 32    | 31    | 32    | 32                |
| 369             | Non-metallic Mineral Products                           | 22    | 25    | 27    | 29    | 29    | 25    | 24    | 23    | 22    | 24    | 24                |
| 371             | Iron & Steel                                            | 17    | 16    | 16    | 16    | 14    | 12    | 10    | 11    | 14    | 13    | 13                |
| 372             | Non-ferrous Metals                                      | 14    | 16    | 17    | 16    | 15    | 18    | 19    | 19    | 21    | 21    | 20                |
| 381             | Fabricated Metal Products except Machinery & Equipment  | 419   | 432   | 444   | 444   | 425   | 434   | 454   | 463   | 479   | 518   | 534               |
| 382             | Machinery except Electrical & Electronic                | 314   | 344   | 348   | 355   | 355   | 372   | 378   | 385   | 406   | 414   | 421               |
| 383             | Electrical Machinery, Apparatus, Appliances & Supplies  | 122   | 123   | 123   | 125   | 112   | 115   | 133   | 129   | 132   | 139   | 140               |
| 384             | Electronic Products & Components                        | 153   | 166   | 172   | 167   | 161   | 202   | 225   | 233   | 240   | 243   | 249               |
| 385             | Transport Equipment                                     | 293   | 286   | 250   | 217   | 197   | 183   | 218   | 225   | 217   | 238   | 248               |
| 386             | Instrumentation Equipment, Photographic & Optical Goods | 49    | 46    | 46    | 41    | 40    | 45    | 47    | 49    | 57    | 61    | 60                |
| 390             | Other Manufacturing Industries                          | 162   | 159   | 160   | 149   | 157   | 159   | 160   | 159   | 154   | 150   | 153               |
|                 | Total Manufacturing excluding Rubber Processing         | 3,586 | 3,616 | 3,648 | 3,504 | 3,449 | 3,514 | 3,624 | 3,660 | 3,703 | 3,785 | 3,843             |
|                 | Rubber Processing                                       | 11    | 10    | 8     | 7     | 7     | 5     | 5     | 5     | 4     | 3     | 3                 |
|                 | Total Manufacturing including Rubber Processing         | 3,597 | 3,626 | 3,656 | 3,511 | 3,456 | 3,519 | 3,629 | 3,665 | 3,707 | 3,788 | 3,846             |
|                 | Granite Quarrying                                       | 20    | 17    | 19    | 18    | 16    | 16    | 14    | 13    | 9     | 7     | 6                 |
|                 | Total                                                   | 3,617 | 3,643 | 3,675 | 3,529 | 3,472 | 3,535 | 3,643 | 3,678 | 3,716 | 3,795 | 3,852             |

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

Source : Economic Development Board  
with effect from April 1987

# 6.4 MANUFACTURING OUTPUT BY INDUSTRY, 1982-1992

Million Dollars

| Industrial Code | Industry                                                         | 1982     | 1983     | 1984     | 1985     | 1986    | 1987    | 1988    | 1989    | 1990     | 1991     | 1992 <sup>P</sup> |
|-----------------|------------------------------------------------------------------|----------|----------|----------|----------|---------|---------|---------|---------|----------|----------|-------------------|
| 311/2           | Food                                                             | 1,801.1  | 1,931.3  | 2,236.7  | 2,309.1  | 2,198.0 | 1,872.3 | 2,111.8 | 2,228.6 | 2,044.1  | 2,102.8  | 2,201.1           |
| 313             | Beverage                                                         | 317.1    | 318.1    | 309.5    | 319.5    | 365.3   | 408.8   | 464.7   | 537.7   | 510.6    | 525.1    | 594.0             |
| 314             | Tobacco Products                                                 | 219.3    | 206.6    | 184.5    | 188.4    | 176.1   | 172.8   | 188.4   | 220.3   | 287.6    | 330.5    | 361.4             |
| 321             | Textiles & Textile Manufactures                                  | 316.4    | 269.3    | 248.2    | 197.8    | 239.2   | 317.1   | 360.6   | 395.5   | 394.6    | 401.7    | 358.2             |
| 322             | Wearing Apparel except Footwear                                  | 929.0    | 938.9    | 1,084.9  | 1,035.4  | 1,241.3 | 1,562.3 | 1,694.3 | 1,790.4 | 1,729.8  | 1,739.1  | 1,627.4           |
| 323             | Leather & Leather Products                                       | 47.3     | 41.2     | 40.1     | 35.9     | 34.3    | 38.0    | 58.2    | 62.3    | 54.8     | 62.7     | 69.8              |
| 324             | Footwear                                                         | 45.3     | 44.2     | 48.1     | 35.5     | 37.9    | 42.5    | 45.1    | 49.4    | 50.4     | 52.6     | 41.0              |
| 331             | Sawn Timber & Other Wood Products except Furniture               | 532.1    | 473.5    | 398.5    | 338.0    | 293.4   | 321.0   | 390.6   | 396.7   | 350.1    | 297.4    | 300.0             |
| 332             | Furniture & Fixtures except primarily of Metal, Stone & Plastics | 264.6    | 278.4    | 350.9    | 359.9    | 353.2   | 374.2   | 464.7   | 488.1   | 516.3    | 517.2    | 506.8             |
| 341             | Paper & Paper Products                                           | 345.6    | 357.1    | 396.8    | 408.3    | 439.2   | 591.2   | 701.2   | 760.1   | 816.3    | 869.5    | 774.7             |
| 342             | Printing & Publishing                                            | 708.4    | 812.4    | 913.8    | 895.7    | 952.2   | 1,119.1 | 1,334.0 | 1,551.6 | 1,742.9  | 1,929.2  | 2,096.1           |
| 351             | Industrial Chemicals & Gases                                     | 424.1    | 522.8    | 1,239.9  | 1,690.7  | 1,724.2 | 2,387.2 | 3,259.3 | 3,067.9 | 3,150.0  | 3,091.8  | 2,678.4           |
| 352             | Paints, Pharmaceuticals & Other Chemical Products                | 675.4    | 764.8    | 940.2    | 891.1    | 1,094.0 | 1,275.6 | 1,429.2 | 1,592.9 | 1,771.9  | 2,251.8  | 2,272.0           |
| 353/4           | Petroleum Refineries & Petroleum Products                        | 14,641.2 | 13,163.6 | 12,448.8 | 11,031.3 | 6,990.3 | 7,491.1 | 7,663.1 | 8,765.1 | 11,364.5 | 11,288.4 | 10,498.7          |
| 355             | Processing of Jelutong & Gum Damar                               | 25.9     | 25.2     | 21.2     | 20.6     | 19.2    | 18.9    | 19.1    | 25.6    | 23.0     | 15.4     | 15.4              |
| 356             | Rubber Products except Footwear & Toys                           | 74.4     | 76.7     | 83.5     | 70.1     | 71.8    | 95.6    | 120.0   | 136.9   | 123.7    | 145.9    | 139.1             |
| 357             | Plastic Products                                                 | 530.6    | 580.0    | 670.4    | 612.4    | 611.3   | 843.5   | 1,234.3 | 1,349.6 | 1,428.6  | 1,608.5  | 1,572.3           |
| 361/2           | Pottery, China, Earthenware & Glass Products                     | 72.8     | 94.3     | 80.7     | 29.5     | 15.6    | 10.7    | 13.6    | 108.2   | 145.5    | 149.0    | 160.6             |
| 363             | Structural Clay Products                                         | 43.3     | 58.9     | 67.4     | 46.8     | 29.5    | 33.9    | 30.5    | 31.1    | 30.5     | 41.6     | 54.5              |
| 364             | Cement                                                           | 405.7    | 441.4    | 281.3    | 164.7    | 152.6   | 121.5   | 128.6   | 175.0   | 232.8    | 333.6    | 375.0             |



# 6.4 MANUFACTURING OUTPUT BY INDUSTRY, 1982-1992 (continued)

Million Dollars

| Industrial Code | Industry                                                | 1982     | 1983     | 1984     | 1985     | 1986     | 1987     | 1988     | 1989     | 1990     | 1991     | 1992 <sup>p</sup> |
|-----------------|---------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------------|
| 365             | Structural Cement & Concrete Products                   | 379.1    | 600.9    | 657.2    | 585.8    | 487.4    | 372.6    | 341.1    | 376.1    | 473.1    | 624.1    | 667.8             |
| 369             | Non-metallic Mineral Products                           | 131.4    | 137.2    | 113.8    | 98.2     | 98.4     | 110.7    | 136.2    | 138.7    | 126.1    | 133.0    | 144.3             |
| 371             | Iron & Steel                                            | 359.5    | 335.7    | 336.2    | 340.2    | 376.3    | 382.6    | 427.6    | 525.9    | 581.9    | 536.4    | 550.0             |
| 372             | Non-ferrous Metals                                      | 148.2    | 142.3    | 197.3    | 224.8    | 245.6    | 167.2    | 205.4    | 184.9    | 216.0    | 198.3    | 216.2             |
| 381             | Fabricated Metal Products except Machinery & Equipment  | 1,732.6  | 1,897.8  | 2,032.7  | 1,832.9  | 1,936.5  | 2,381.7  | 3,110.6  | 3,547.5  | 3,804.5  | 4,129.2  | 4,406.1           |
| 382             | Machinery except Electrical & Electronic                | 2,259.7  | 1,972.2  | 1,831.0  | 1,768.9  | 1,652.3  | 1,960.3  | 2,481.1  | 3,056.3  | 3,380.7  | 3,723.0  | 3,810.2           |
| 383             | Electrical Machinery, Apparatus, Appliances & Supplies  | 1,017.6  | 1,224.3  | 1,482.5  | 1,337.2  | 1,458.5  | 1,843.0  | 2,182.5  | 2,517.2  | 2,433.9  | 2,639.9  | 2,689.8           |
| 384             | Electronic Products & Components                        | 5,195.4  | 6,891.0  | 9,569.5  | 9,014.0  | 11,214.5 | 16,409.6 | 21,590.3 | 24,692.3 | 27,878.1 | 28,957.7 | 30,840.0          |
| 385             | Transport Equipment                                     | 2,074.8  | 1,867.8  | 1,956.0  | 1,789.0  | 1,803.3  | 2,093.3  | 2,717.8  | 3,165.4  | 3,790.9  | 4,014.1  | 4,323.1           |
| 386             | Instrumentation Equipment, Photographic & Optical Goods | 288.1    | 269.4    | 300.1    | 329.0    | 375.3    | 456.7    | 576.5    | 671.8    | 783.0    | 860.5    | 940.5             |
| 390             | Other Manufacturing Industries                          | 461.4    | 484.1    | 556.1    | 494.3    | 571.8    | 809.1    | 989.5    | 1,017.5  | 1,097.1  | 1,005.0  | 789.0             |
|                 | Total Manufacturing excluding Rubber Processing         | 36,467.4 | 37,221.5 | 41,077.9 | 38,495.1 | 37,258.7 | 46,084.0 | 56,470.0 | 63,626.3 | 71,333.2 | 74,575.0 | 76,073.1          |
|                 | Rubber Processing                                       | 494.2    | 428.7    | 402.4    | 160.0    | 126.8    | 155.8    | 243.7    | 205.0    | 124.7    | 71.3     | 71.7              |
|                 | Total Manufacturing including Rubber Processing         | 36,961.6 | 37,650.2 | 41,480.2 | 38,655.1 | 37,385.5 | 46,239.8 | 56,713.7 | 63,831.3 | 71,457.9 | 74,646.3 | 76,144.9          |
|                 | Granite Quarrying                                       | 179.5    | 238.1    | 223.8    | 162.7    | 117.4    | 97.9     | 90.8     | 92.9     | 120.6    | 148.1    | 115.1             |
|                 | Total                                                   | 37,141.1 | 37,888.3 | 41,704.1 | 38,817.8 | 37,502.9 | 46,337.7 | 56,804.5 | 63,924.1 | 71,578.5 | 74,794.4 | 76,260.0          |

Note : See notes to Table 6.3.

Source : Economic Development Board  
with effect from April 1987

# 6.5 CENSUS VALUE ADDED OF MANUFACTURING ESTABLISHMENTS BY INDUSTRY, 1982-1992

Million Dollars

| Industrial Code | Industry                                                         | 1982    | 1983    | 1984  | 1985  | 1986  | 1987  | 1988    | 1989    | 1990    | 1991    | 1992 <sup>P</sup> |
|-----------------|------------------------------------------------------------------|---------|---------|-------|-------|-------|-------|---------|---------|---------|---------|-------------------|
| 311/2           | Food                                                             | 323.7   | 351.5   | 377.9 | 395.3 | 405.7 | 451.6 | 527.1   | 567.5   | 583.4   | 625.5   | 654.7             |
| 313             | Beverage                                                         | 140.8   | 147.9   | 152.1 | 166.9 | 190.4 | 205.7 | 243.0   | 247.4   | 251.7   | 265.0   | 316.9             |
| 314             | Tobacco Products                                                 | 91.0    | 89.4    | 79.4  | 77.7  | 78.4  | 87.0  | 88.7    | 97.6    | 116.1   | 127.3   | 136.6             |
| 321             | Textiles & Textile Manufactures                                  | 103.6   | 92.2    | 81.0  | 64.3  | 77.7  | 101.2 | 113.6   | 122.4   | 129.8   | 125.6   | 115.2             |
| 322             | Wearing Apparel except Footwear                                  | 326.0   | 333.0   | 364.5 | 345.7 | 361.9 | 464.8 | 534.6   | 544.5   | 532.8   | 522.0   | 497.4             |
| 323             | Leather & Leather Products                                       | 14.0    | 12.7    | 13.6  | 11.4  | 10.6  | 12.0  | 17.2    | 22.7    | 19.8    | 21.7    | 24.1              |
| 324             | Footwear                                                         | 17.0    | 18.1    | 19.4  | 12.6  | 12.0  | 13.1  | 12.3    | 14.4    | 16.4    | 15.6    | 12.2              |
| 331             | Sawn Timber & Other Wood Products except Furniture               | 136.4   | 140.9   | 115.8 | 94.5  | 82.3  | 81.9  | 101.9   | 112.9   | 98.8    | 79.1    | 76.6              |
| 332             | Furniture & Fixtures except primarily of Metal, Stone & Plastics | 103.4   | 108.6   | 129.9 | 132.9 | 131.0 | 133.1 | 154.4   | 164.2   | 161.9   | 171.4   | 166.8             |
| 341             | Paper & Paper Products                                           | 126.0   | 149.2   | 166.9 | 180.1 | 191.1 | 239.6 | 269.3   | 293.2   | 343.0   | 358.9   | 314.6             |
| 342             | Printing & Publishing                                            | 374.1   | 452.1   | 522.9 | 511.4 | 531.4 | 603.8 | 697.9   | 788.6   | 932.5   | 1,043.5 | 1,140.3           |
| 351             | Industrial Chemicals & Gases                                     | 159.5   | 191.6   | 310.3 | 358.4 | 574.1 | 915.0 | 1,376.5 | 1,184.2 | 1,058.2 | 960.7   | 812.3             |
| 352             | Paints, Pharmaceuticals & Other Chemical Products                | 344.8   | 451.5   | 592.4 | 536.1 | 700.3 | 815.1 | 877.6   | 952.1   | 1,088.1 | 1,486.9 | 1,487.0           |
| 353/4           | Petroleum Refineries & Petroleum Products                        | 1,617.7 | 1,382.6 | 955.6 | 873.7 | 779.9 | 728.2 | 993.5   | 1,248.4 | 1,662.3 | 2,022.8 | 1,791.6           |
| 355             | Processing of Jelutong & Gum Damar                               | 3.1     | 3.8     | 3.8   | 3.6   | 3.7   | 3.6   | 3.5     | 3.5     | 3.3     | 3.1     | 3.1               |
| 356             | Rubber Products except Footwear & Toys                           | 35.6    | 36.1    | 40.3  | 34.8  | 37.0  | 45.2  | 54.2    | 63.4    | 59.6    | 70.9    | 67.5              |
| 357             | Plastic Products                                                 | 189.4   | 209.9   | 243.6 | 231.0 | 232.4 | 297.3 | 409.2   | 476.5   | 538.9   | 609.4   | 595.7             |
| 361/2           | Pottery, China, Earthenware & Glass Products                     | 24.8    | 33.9    | 35.0  | 10.9  | 6.1   | 5.8   | 6.4     | 22.3    | 60.7    | 65.1    | 70.2              |
| 363             | Structural Clay Products                                         | 21.3    | 29.5    | 36.6  | 25.0  | 19.0  | 21.4  | 18.2    | 17.7    | 16.0    | 24.3    | 31.3              |
| 364             | Cement                                                           | 88.5    | 105.4   | 46.1  | 34.1  | 34.5  | 27.8  | 30.8    | 51.0    | 70.2    | 126.2   | 148.4             |



6.5 CENSUS VALUE ADDED OF MANUFACTURING ESTABLISHMENTS BY INDUSTRY, 1982-1992 (continued)

Million Dollars

| Industrial Code | Industry                                                | 1982           | 1983            | 1984            | 1985            | 1986            | 1987            | 1988            | 1989            | 1990            | 1991            | 1992 <sup>p</sup> |
|-----------------|---------------------------------------------------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| 365             | Structural Cement & Concrete Products                   | 118.2          | 192.1           | 235.0           | 213.6           | 150.7           | 110.4           | 93.8            | 105.9           | 123.9           | 151.9           | 162.5             |
| 369             | Non-metallic Mineral Products                           | 60.2           | 56.4            | 45.8            | 35.4            | 39.9            | 51.3            | 62.7            | 56.3            | 59.2            | 60.9            | 66.4              |
| 371             | Iron & Steel                                            | 137.6          | 124.7           | 123.7           | 108.1           | 119.2           | 139.9           | 167.5           | 188.5           | 175.9           | 176.5           | 180.9             |
| 372             | Non-ferrous Metals                                      | 20.9           | 26.3            | 35.1            | 30.3            | 29.9            | 41.4            | 53.9            | 57.2            | 73.6            | 67.0            | 75.0              |
| 381             | Fabricated Metal Products except Machinery & Equipment  | 666.3          | 706.4           | 761.9           | 681.2           | 720.4           | 859.5           | 1,081.6         | 1,229.0         | 1,323.8         | 1,503.5         | 1,641.9           |
| 382             | Machinery except Electrical & Electronic                | 976.3          | 819.8           | 821.3           | 788.7           | 739.1           | 731.6           | 962.2           | 1,142.8         | 1,267.6         | 1,417.3         | 1,446.3           |
| 383             | Electrical Machinery, Apparatus, Appliances & Supplies  | 404.0          | 464.5           | 573.4           | 519.8           | 545.1           | 663.7           | 784.1           | 893.8           | 879.8           | 967.4           | 986.2             |
| 384             | Electronic Products & Components                        | 1,465.6        | 1,890.9         | 2,894.7         | 2,838.8         | 3,676.9         | 5,011.7         | 6,278.5         | 6,979.8         | 7,716.6         | 8,027.6         | 8,669.8           |
| 385             | Transport Equipment <sup>1</sup>                        | 1,007.3        | 933.0           | 1,011.1         | 1,034.4         | 1,011.8         | 1,106.8         | 1,323.8         | 1,422.1         | 1,613.7         | 1,712.6         | 1,936.9           |
| 386             | Instrumentation Equipment, Photographic & Optical Goods | 120.6          | 120.3           | 163.7           | 196.0           | 227.1           | 261.4           | 316.0           | 340.2           | 363.4           | 396.7           | 437.7             |
| 390             | Other Manufacturing Industries                          | 138.2          | 148.0           | 153.3           | 155.5           | 180.4           | 240.0           | 264.3           | 265.3           | 265.6           | 243.4           | 192.6             |
|                 | <b>Total Manufacturing excluding Rubber Processing</b>  | <b>9,355.9</b> | <b>9,822.1</b>  | <b>11,106.3</b> | <b>10,702.3</b> | <b>11,900.0</b> | <b>14,470.8</b> | <b>17,918.2</b> | <b>19,675.7</b> | <b>21,606.8</b> | <b>23,449.9</b> | <b>24,258.7</b>   |
|                 | Rubber Processing                                       | 27.5           | 33.5            | 16.2            | 7.3             | 8.0             | 9.9             | 14.1            | 14.4            | 8.5             | 3.6             | 3.6               |
|                 | <b>Total Manufacturing including Rubber Processing</b>  | <b>9,383.4</b> | <b>9,855.6</b>  | <b>11,122.4</b> | <b>10,709.6</b> | <b>11,908.0</b> | <b>14,480.7</b> | <b>17,932.3</b> | <b>19,690.1</b> | <b>21,615.3</b> | <b>23,453.5</b> | <b>24,262.4</b>   |
|                 | Granite Quarrying                                       | 122.3          | 156.9           | 146.4           | 103.2           | 70.3            | 58.8            | 53.9            | 56.1            | 79.0            | 92.3            | 72.0              |
|                 | <b>Total</b>                                            | <b>9,505.8</b> | <b>10,012.4</b> | <b>11,268.9</b> | <b>10,812.8</b> | <b>11,978.3</b> | <b>14,539.6</b> | <b>17,986.2</b> | <b>19,746.2</b> | <b>21,694.3</b> | <b>23,545.8</b> | <b>24,334.4</b>   |

Note : See notes to Table 6.3 and Table 6.4.

Source : Economic Development Board  
with effect from April 1987

# 6.6 WORKERS IN MANUFACTURING BY INDUSTRY, 1982-1992

|                 |                                                                  | Number |        |        |        |        |        |        |        |        |        |                   |
|-----------------|------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|
| Industrial Code | Industry                                                         | 1982   | 1983   | 1984   | 1985   | 1986   | 1987   | 1988   | 1989   | 1990   | 1991   | 1992 <sup>P</sup> |
| 311/2           | Food                                                             | 10,181 | 10,290 | 10,264 | 9,718  | 9,606  | 10,163 | 10,408 | 10,391 | 10,615 | 11,104 | 11,289            |
| 313             | Beverage                                                         | 2,594  | 2,494  | 2,398  | 2,273  | 2,264  | 2,258  | 2,304  | 2,406  | 2,439  | 2,440  | 2,423             |
| 314             | Tobacco Products                                                 | 882    | 865    | 809    | 753    | 752    | 709    | 564    | 583    | 731    | 816    | 804               |
| 321             | Textiles & Textile Manufactures                                  | 6,238  | 4,542  | 3,903  | 2,814  | 2,662  | 2,918  | 3,324  | 3,355  | 3,406  | 3,343  | 3,013             |
| 322             | Wearing Apparel except Footwear                                  | 28,608 | 27,234 | 25,710 | 24,782 | 24,812 | 27,718 | 29,402 | 29,105 | 27,694 | 25,915 | 23,805            |
| 323             | Leather & Leather Products                                       | 1,152  | 971    | 950    | 646    | 577    | 598    | 686    | 717    | 677    | 788    | 860               |
| 324             | Footwear                                                         | 1,408  | 1,248  | 1,249  | 889    | 922    | 946    | 832    | 725    | 781    | 638    | 577               |
| 331             | Sawn Timber & Other Wood Products except Furniture               | 7,188  | 6,081  | 4,930  | 4,100  | 3,274  | 3,022  | 3,173  | 3,002  | 2,574  | 2,204  | 1,895             |
| 332             | Furniture & Fixtures except primarily of Metal, Stone & Plastics | 6,743  | 6,737  | 7,466  | 7,045  | 7,404  | 7,457  | 7,719  | 7,143  | 6,521  | 6,463  | 6,172             |
| 341             | Paper & Paper Products                                           | 4,526  | 3,860  | 3,675  | 3,462  | 3,315  | 3,590  | 4,093  | 4,341  | 4,604  | 4,932  | 4,834             |
| 342             | Printing & Publishing                                            | 13,046 | 13,308 | 13,820 | 12,948 | 12,886 | 13,023 | 14,202 | 15,299 | 15,805 | 16,835 | 17,113            |
| 351             | Industrial Chemicals & Gases                                     | 2,338  | 2,382  | 3,315  | 3,279  | 3,180  | 3,311  | 3,716  | 4,326  | 4,750  | 4,814  | 4,761             |
| 352             | Paints, Pharmaceuticals & Other Chemical Products                | 4,485  | 4,531  | 4,520  | 4,485  | 4,264  | 4,394  | 4,591  | 4,685  | 5,168  | 5,282  | 5,262             |
| 353/4           | Petroleum Refineries & Petroleum Products                        | 3,784  | 3,755  | 3,605  | 3,494  | 3,367  | 3,245  | 3,125  | 3,113  | 3,291  | 3,725  | 3,766             |
| 355             | Processing of Jelutong & Gum Damar                               | 160    | 173    | 145    | 126    | 143    | 139    | 90     | 93     | 74     | 81     | 81                |
| 356             | Rubber Products except Footwear & Toys                           | 1,287  | 1,283  | 1,307  | 1,055  | 1,015  | 1,171  | 1,419  | 1,433  | 1,537  | 1,679  | 1,654             |
| 357             | Plastic Products                                                 | 9,527  | 9,340  | 9,160  | 8,706  | 8,109  | 9,977  | 12,214 | 12,967 | 13,881 | 15,505 | 15,737            |
| 361/2           | Pottery, China, Earthenware & Glass Products                     | 820    | 993    | 1,010  | 347    | 233    | 144    | 163    | 853    | 798    | 880    | 864               |
| 363             | Structural Clay Products                                         | 688    | 679    | 641    | 549    | 436    | 383    | 361    | 358    | 305    | 293    | 297               |
| 364             | Cement                                                           | 538    | 579    | 552    | 547    | 424    | 408    | 366    | 380    | 416    | 420    | 439               |



# 6.6 WORKERS IN MANUFACTURING BY INDUSTRY, 1982-1992 (continued)

| Industrial Code | Industry                                                | Number         |                |                |                |                |                |                |                |                |                |                   |
|-----------------|---------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|
|                 |                                                         | 1982           | 1983           | 1984           | 1985           | 1986           | 1987           | 1988           | 1989           | 1990           | 1991           | 1992 <sup>P</sup> |
| 365             | Structural Cement & Concrete Products                   | 2,135          | 3,697          | 4,559          | 4,367          | 4,367          | 2,777          | 2,206          | 2,213          | 2,160          | 2,260          | 2,147             |
| 369             | Non-metallic Mineral Products                           | 1,488          | 1,600          | 1,418          | 1,384          | 1,387          | 1,470          | 1,820          | 1,764          | 1,475          | 1,332          | 1,328             |
| 371             | Iron & Steel                                            | 1,777          | 1,701          | 1,667          | 1,564          | 1,349          | 1,329          | 1,516          | 1,615          | 1,730          | 1,787          | 1,790             |
| 372             | Non-ferrous Metals                                      | 481            | 441            | 504            | 490            | 454            | 616            | 670            | 737            | 815            | 824            | 805               |
| 381             | Fabricated Metal Products except Machinery & Equipment  | 21,723         | 21,313         | 20,923         | 20,061         | 18,900         | 21,365         | 26,004         | 27,085         | 28,440         | 30,593         | 30,858            |
| 382             | Machinery except Electrical & Electronic                | 21,680         | 20,334         | 18,833         | 18,470         | 17,062         | 18,471         | 20,695         | 22,606         | 24,189         | 24,113         | 24,703            |
| 383             | Electrical Machinery, Apparatus, Appliances & Supplies  | 15,128         | 16,347         | 17,348         | 16,892         | 16,241         | 18,836         | 22,064         | 22,366         | 21,989         | 20,768         | 19,749            |
| 384             | Electronic Products & Components                        | 60,760         | 65,837         | 73,022         | 65,617         | 68,772         | 84,910         | 111,559        | 116,080        | 122,797        | 123,358        | 120,384           |
| 385             | Transport Equipment                                     | 30,750         | 26,845         | 24,759         | 21,748         | 17,062         | 17,442         | 20,257         | 22,396         | 26,133         | 29,737         | 31,967            |
| 386             | Instrumentation Equipment, Photographic & Optical Goods | 5,804          | 5,224          | 5,395          | 5,119          | 5,252          | 6,151          | 7,392          | 7,634          | 8,263          | 8,577          | 8,497             |
| 390             | Other Manufacturing Industries                          | 7,531          | 6,422          | 6,534          | 5,780          | 6,191          | 7,368          | 7,778          | 7,804          | 7,616          | 6,768          | 5,920             |
|                 | <b>Total Manufacturing excluding Rubber Processing</b>  | <b>275,450</b> | <b>271,106</b> | <b>274,391</b> | <b>253,510</b> | <b>246,682</b> | <b>276,309</b> | <b>324,713</b> | <b>337,575</b> | <b>351,674</b> | <b>358,274</b> | <b>353,794</b>    |
|                 | Rubber Processing                                       | 1,303          | 980            | 689            | 516            | 425            | 216            | 197            | 187            | 169            | 179            | 168               |
|                 | <b>Total Manufacturing including Rubber Processing</b>  | <b>276,753</b> | <b>272,086</b> | <b>275,080</b> | <b>254,026</b> | <b>247,107</b> | <b>276,525</b> | <b>324,910</b> | <b>337,762</b> | <b>351,843</b> | <b>358,453</b> | <b>353,962</b>    |
|                 | Granite Quarrying                                       | 1,050          | 1,142          | 1,145          | 776            | 625            | 506            | 325            | 281            | 224            | 270            | 260               |
|                 | <b>Total</b>                                            | <b>277,803</b> | <b>273,228</b> | <b>276,225</b> | <b>254,802</b> | <b>247,732</b> | <b>277,031</b> | <b>325,235</b> | <b>338,043</b> | <b>352,067</b> | <b>358,723</b> | <b>354,222</b>    |

Note : See notes to Table 6.3.

Source : Economic Development Board  
with effect from April 1987

# 6.7 REMUNERATION IN MANUFACTURING BY INDUSTRY, 1982-1992

Million Dollars

| Industrial Code | Industry                                                         | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992 <sup>P</sup> |
|-----------------|------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 311/2           | Food                                                             | 114.1 | 128.8 | 147.6 | 156.5 | 146.5 | 151.2 | 164.5 | 183.6 | 203.9 | 235.6 | 253.0             |
| 313             | Beverage                                                         | 35.3  | 36.5  | 40.6  | 44.1  | 40.7  | 39.6  | 45.2  | 49.5  | 63.7  | 72.8  | 77.0              |
| 314             | Tobacco Products                                                 | 17.3  | 19.2  | 21.1  | 20.8  | 18.8  | 17.9  | 18.9  | 21.5  | 25.4  | 28.9  | 31.3              |
| 321             | Textiles & Textile Manufactures                                  | 59.4  | 49.1  | 45.9  | 35.1  | 32.7  | 39.0  | 45.1  | 51.1  | 55.1  | 60.4  | 59.6              |
| 322             | Wearing Apparel except Footwear                                  | 203.4 | 216.1 | 236.9 | 227.3 | 222.7 | 255.6 | 289.2 | 316.5 | 320.7 | 322.0 | 311.6             |
| 323             | Leather & Leather Products                                       | 8.5   | 8.2   | 8.7   | 6.9   | 6.0   | 6.4   | 8.6   | 10.3  | 10.2  | 13.2  | 15.4              |
| 324             | Footwear                                                         | 10.7  | 10.3  | 11.3  | 7.4   | 6.6   | 6.9   | 7.1   | 8.1   | 8.9   | 8.4   | 8.1               |
| 331             | Sawn Timber & Other Wood Products except Furniture               | 69.0  | 66.3  | 56.2  | 47.9  | 37.5  | 37.4  | 41.6  | 45.8  | 43.2  | 41.9  | 38.3              |
| 332             | Furniture & Fixtures except primarily of Metal, Stone & Plastics | 59.0  | 62.5  | 73.6  | 74.3  | 75.1  | 76.9  | 90.9  | 92.0  | 97.6  | 103.2 | 105.6             |
| 341             | Paper & Paper Products                                           | 52.0  | 52.3  | 53.3  | 54.8  | 54.3  | 63.8  | 74.7  | 87.3  | 98.2  | 115.0 | 119.3             |
| 342             | Printing & Publishing                                            | 169.6 | 193.3 | 231.4 | 233.7 | 234.7 | 243.5 | 285.8 | 345.0 | 375.6 | 462.6 | 488.3             |
| 351             | Industrial Chemicals & Gases                                     | 43.0  | 46.9  | 89.5  | 100.3 | 91.4  | 99.2  | 117.1 | 150.3 | 195.2 | 213.5 | 223.7             |
| 352             | Paints, Pharmaceuticals & Other Chemical Products                | 76.3  | 88.6  | 96.3  | 101.4 | 98.0  | 100.8 | 111.9 | 127.2 | 155.4 | 171.4 | 185.1             |
| 353/4           | Petroleum Refineries & Petroleum Products                        | 138.6 | 148.0 | 151.4 | 154.6 | 148.8 | 148.4 | 154.2 | 174.3 | 204.0 | 241.5 | 263.8             |
| 355             | Processing of Jelutong & Gum Damar                               | 1.6   | 1.9   | 1.9   | 1.9   | 1.7   | 1.5   | 1.4   | 1.5   | 1.5   | 1.7   | 1.7               |
| 356             | Rubber Products except Footwear & Toys                           | 14.7  | 17.0  | 19.6  | 17.3  | 16.0  | 19.9  | 23.7  | 26.4  | 30.5  | 36.7  | 38.4              |
| 357             | Plastic Products                                                 | 83.6  | 92.7  | 104.7 | 104.9 | 101.9 | 121.9 | 160.7 | 193.9 | 228.8 | 270.6 | 296.5             |
| 361/2           | Pottery, China, Earthenware & Glass Products                     | 12.8  | 16.3  | 17.8  | 5.9   | 3.1   | 1.9   | 2.2   | 12.7  | 18.2  | 22.4  | 23.8              |
| 363             | Structural Clay Products                                         | 9.7   | 11.2  | 11.7  | 9.3   | 6.5   | 5.6   | 5.3   | 6.1   | 6.2   | 6.4   | 7.0               |
| 364             | Cement                                                           | 10.5  | 12.3  | 12.4  | 12.2  | 9.2   | 8.4   | 8.5   | 10.5  | 13.3  | 17.8  | 20.2              |



**6.7 REMUNERATION IN MANUFACTURING BY INDUSTRY, 1982-1992** (continued)

Million Dollars

| Industrial Code | Industry                                                | 1982           | 1983           | 1984           | 1985           | 1986           | 1987           | 1988           | 1989           | 1990           | 1991           | 1992 <sup>p</sup> |
|-----------------|---------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|
| 365             | Structural Cement & Concrete Products                   | 30.4           | 57.2           | 72.6           | 74.9           | 69.3           | 40.5           | 34.1           | 37.3           | 40.3           | 49.8           | 49.8              |
| 369             | Non-metallic Mineral Products                           | 21.1           | 24.3           | 20.4           | 21.3           | 21.2           | 21.6           | 26.0           | 27.8           | 27.4           | 31.6           | 33.3              |
| 371             | Iron & Steel                                            | 33.1           | 36.9           | 39.6           | 39.6           | 33.7           | 33.1           | 37.1           | 44.9           | 48.7           | 53.2           | 57.5              |
| 372             | Non-ferrous Metals                                      | 7.3            | 7.1            | 8.6            | 8.7            | 9.2            | 11.1           | 14.3           | 17.3           | 21.1           | 23.0           | 24.8              |
| 381             | Fabricated Metal Products except Machinery & Equipment  | 261.0          | 279.4          | 304.7          | 316.4          | 289.4          | 334.6          | 409.9          | 487.8          | 559.4          | 653.5          | 700.4             |
| 382             | Machinery except Electrical & Electronic                | 324.1          | 341.1          | 362.6          | 377.0          | 319.2          | 335.5          | 403.9          | 488.5          | 567.0          | 630.7          | 689.3             |
| 383             | Electrical Machinery, Apparatus, Appliances & Supplies  | 179.2          | 203.9          | 244.9          | 251.9          | 221.0          | 245.9          | 303.7          | 340.2          | 367.4          | 409.1          | 420.5             |
| 384             | Electronic Products & Components                        | 618.9          | 750.1          | 936.6          | 959.6          | 975.9          | 1,188.4        | 1,559.5        | 1,836.0        | 2,159.8        | 2,325.9        | 2,442.2           |
| 385             | Transport Equipment                                     | 487.7          | 467.6          | 478.9          | 445.6          | 336.8          | 351.4          | 417.0          | 541.4          | 628.7          | 730.1          | 844.0             |
| 386             | Instrumentation Equipment, Photographic & Optical Goods | 54.6           | 60.5           | 69.6           | 69.9           | 68.3           | 83.6           | 99.5           | 119.4          | 158.3          | 183.6          | 197.7             |
| 390             | Other Manufacturing Industries                          | 64.2           | 66.3           | 74.4           | 72.2           | 72.8           | 84.4           | 94.9           | 107.7          | 118.5          | 119.4          | 116.4             |
|                 | <b>Total Manufacturing excluding Rubber Processing</b>  | <b>3,270.6</b> | <b>3,571.9</b> | <b>4,045.0</b> | <b>4,053.7</b> | <b>3,769.1</b> | <b>4,176.0</b> | <b>5,056.5</b> | <b>5,961.6</b> | <b>6,852.2</b> | <b>7,655.9</b> | <b>8,143.5</b>    |
|                 | Rubber Processing                                       | 16.1           | 15.0           | 9.3            | 7.9            | 4.7            | 4.5            | 4.1            | 5.9            | 3.5            | 4.5            | 4.5               |
|                 | <b>Total Manufacturing including Rubber Processing</b>  | <b>3,286.8</b> | <b>3,586.9</b> | <b>4,054.3</b> | <b>4,061.6</b> | <b>3,773.8</b> | <b>4,180.5</b> | <b>5,060.7</b> | <b>5,967.5</b> | <b>6,855.7</b> | <b>7,660.4</b> | <b>8,148.0</b>    |
|                 | Granite Quarrying                                       | 15.7           | 17.7           | 19.3           | 14.3           | 10.8           | 9.4            | 7.7            | 7.1            | 6.2            | 7.3            | 7.6               |
|                 | <b>Total</b>                                            | <b>3,302.5</b> | <b>3,604.6</b> | <b>4,073.6</b> | <b>4,075.9</b> | <b>3,784.6</b> | <b>4,189.9</b> | <b>5,068.4</b> | <b>5,974.6</b> | <b>6,861.9</b> | <b>7,667.6</b> | <b>8,155.6</b>    |

Note : See notes to Table 6.3.

Source : Economic Development Board  
with effect from April 1987

# 6.8 VALUE OF OUTPUT OF SELECTED MANUFACTURED PRODUCTS, 1981-1991

Million Dollars

| Commodity                                      | 1981    | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    |
|------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Soft Drinks                                    | 172.2   | 164.8   | 171.1   | 157.5   | 159.2   | 201.5   | 236.9   | 255.6   | 254.8   | 267.5   | 243.8   |
| Fabrics                                        | 200.1   | 156.8   | 107.9   | 108.6   | 88.4    | 123.8   | 111.2   | 142.8   | 164.7   | 154.3   | 150.4   |
| Newspapers                                     | 55.7    | 68.1    | 67.5    | 68.9    | 68.9    | 76.9    | 79.0    | 82.1    | 91.2    | 96.2    | 102.6   |
| Paints                                         | 119.4   | 117.2   | 119.1   | 137.8   | 135.1   | 136.9   | 165.4   | 207.4   | 238.8   | 267.0   | 309.8   |
| Pharmaceutical Products                        | 269.6   | 283.1   | 370.0   | 504.3   | 475.7   | 691.1   | 811.2   | 871.8   | 972.0   | 1,032.0 | 1,436.6 |
| Aviation Kerosene                              | 3,001.2 | 2,961.7 | 2,645.6 | 2,686.5 | 2,030.2 | 1,377.0 | 1,565.5 | 1,717.8 | 1,670.1 | 2,290.2 | 2,062.4 |
| Diesel Oil                                     | 4,202.1 | 4,295.6 | 3,510.4 | 2,937.2 | 2,918.6 | 1,565.7 | 2,110.1 | 2,264.9 | 2,638.9 | 3,970.1 | 3,889.8 |
| Fuel Oil                                       | 3,413.8 | 3,509.6 | 3,201.5 | 3,584.9 | 2,872.3 | 1,666.7 | 1,586.9 | 1,472.2 | 1,805.0 | 1,905.8 | 1,465.9 |
| Lubricating Oil                                | -       | 713.7   | 711.1   | 606.5   | 378.5   | 529.3   | 406.0   | 457.4   | 532.1   | 523.3   | 601.0   |
| Motor Spirit                                   | -       | -       | 967.3   | 826.6   | 863.3   | 590.2   | 702.1   | 701.2   | 918.8   | 1,278.5 | 1,177.6 |
| Naphtha                                        | 1,338.2 | 1,302.5 | 1,155.7 | 1,085.4 | 904.6   | 514.8   | 527.9   | 490.4   | 562.8   | 717.3   | 865.0   |
| Cement                                         | 347.2   | 405.7   | 441.4   | 280.0   | 164.4   | 151.8   | 120.8   | 127.5   | 173.4   | 231.3   | 333.6   |
| Ready-mixed Concrete                           | 186.1   | 281.3   | 361.3   | 359.9   | 305.2   | 257.9   | 215.5   | 195.5   | 238.6   | 316.9   | 434.2   |
| Metal Stampings                                | 118.3   | 83.8    | 105.4   | 146.1   | 115.8   | 168.6   | 231.6   | 328.4   | 405.9   | 530.1   | 598.6   |
| Oil Rigs & Oilfield Equipment                  | 1,437.5 | 1,341.1 | 938.3   | 706.9   | 609.1   | 490.5   | 467.2   | 480.2   | 583.0   | 780.1   | 985.6   |
| Motors                                         | 122.2   | 81.2    | 108.0   | 136.7   | 153.1   | 180.5   | 264.3   | 345.6   | 426.6   | 388.1   | 416.4   |
| Disk Drives                                    | -       | -       | 544.6   | 439.8   | 1,112.2 | 2,044.4 | 3,653.2 | 4,800.7 | 5,002.6 | 6,967.0 | 6,545.1 |
| Telephones                                     | -       | -       | -       | -       | -       | 203.6   | 474.2   | 764.6   | 714.6   | 587.9   | 528.9   |
| Television Receivers                           | 667.8   | 495.7   | 470.3   | 469.1   | 566.0   | 578.4   | 860.4   | 1,172.0 | 1,221.3 | 1,441.2 | 1,452.0 |
| Radios (excluding Radio<br>Cassette Recorders) | 249.9   | 206.5   | 217.3   | 101.0   | 156.1   | 151.8   | 178.3   | 208.5   | 174.3   | 141.5   | 126.3   |
| Cassette Recorders (with or<br>without radio)  | 738.1   | 524.2   | 569.8   | 809.7   | 702.9   | 730.5   | 1,176.8 | 1,157.3 | 1,229.5 | 1,285.0 | 1,347.6 |
| Capacitors                                     | 93.9    | 84.8    | 86.8    | 100.8   | 84.4    | 101.7   | 136.7   | 202.2   | 274.6   | 307.2   | 394.1   |
| Shipbuilding & Repairing                       | 1,727.8 | 1,502.7 | 1,237.5 | 1,240.3 | 923.1   | 913.0   | 1,047.4 | 1,549.9 | 2,030.4 | 2,405.4 | 2,567.7 |
| Marine Engines & Parts                         | 137.2   | 151.4   | 110.5   | 106.1   | 89.0    | 99.0    | 100.9   | 158.3   | 202.0   | 183.3   | 221.8   |
| Jewellery                                      | 179.9   | 143.0   | 150.7   | 203.4   | 144.0   | 142.7   | 153.1   | 243.4   | 271.4   | 343.0   | 341.6   |
| Toys                                           | 126.7   | 93.3    | 94.7    | 119.2   | 135.1   | 187.9   | 339.6   | 384.1   | 306.6   | 265.6   | 275.3   |

Source : Economic Development Board  
with effect from April 1987



**6.9 QUARTERLY INDEX OF INDUSTRIAL PRODUCTION, 1991 AND 1992**  
(1989 = 100)

| Industrial Code | Major Industry Group                                             | 1991    |         |         |         | 1992    |         |         |                      |
|-----------------|------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|----------------------|
|                 |                                                                  | 1st Qtr | 2nd Qtr | 3rd Qtr | 4th Qtr | 1st Qtr | 2nd Qtr | 3rd Qtr | 4th Qtr <sup>P</sup> |
|                 | <b>Total Manufacturing excluding Rubber Processing</b>           | 110.4   | 115.6   | 118.6   | 118.6   | 109.6   | 116.3   | 121.8   | 126.4                |
| 311/2           | Food                                                             | 99.2    | 101.1   | 103.9   | 107.2   | 105.4   | 100.4   | 110.1   | 107.0                |
| 313             | Beverage                                                         | 108.4   | 106.8   | 119.1   | 102.6   | 120.4   | 117.5   | 127.9   | 124.2                |
| 314             | Cigarettes & Other Tobacco Products                              | 163.9   | 168.1   | 130.3   | 188.0   | 187.7   | 192.1   | 145.7   | 208.5                |
| 321             | Textiles & Textile Manufactures                                  | 81.8    | 97.9    | 112.2   | 111.2   | 88.4    | 86.2    | 91.8    | 85.9                 |
| 322             | Wearing Apparel except Footwear                                  | 77.3    | 92.5    | 99.3    | 102.5   | 74.9    | 86.0    | 93.3    | 81.3                 |
| 323             | Leather & Leather Products                                       | 79.0    | 72.2    | 77.5    | 88.4    | 78.1    | 94.3    | 80.8    | 115.2                |
| 324             | Footwear                                                         | 180.7   | 142.7   | 142.2   | 133.4   | 137.3   | 119.8   | 119.7   | 125.5                |
| 331             | Sawn Timber & Other Wood Products except Furniture               | 80.4    | 82.2    | 83.1    | 72.4    | 76.5    | 80.8    | 80.9    | 82.6                 |
| 332             | Furniture & Fixtures except primarily of Metal, Stone & Plastics | 95.8    | 102.4   | 112.8   | 110.7   | 95.7    | 101.9   | 109.8   | 119.7                |
| 341             | Paper & Paper Products                                           | 104.4   | 117.8   | 112.5   | 103.1   | 93.3    | 97.9    | 99.4    | 96.4                 |
| 342             | Printing & Publishing                                            | 105.7   | 116.6   | 126.7   | 129.5   | 112.8   | 127.7   | 132.7   | 137.4                |
| 351             | Industrial Chemicals & Gases                                     | 112.7   | 114.6   | 117.9   | 117.9   | 117.4   | 117.7   | 98.9    | 107.6                |
| 352             | Paints & Pharmaceutical & Other Chemical Products                | 161.3   | 173.0   | 175.3   | 173.7   | 164.2   | 150.2   | 157.9   | 153.8                |
| 353/4           | Petroleum Refineries & Petroleum Products                        | 121.5   | 107.0   | 118.6   | 121.6   | 125.0   | 109.7   | 105.6   | 132.3                |
| 356             | Rubber Products except Footwear & Toys                           | 97.5    | 95.6    | 102.7   | 108.5   | 89.8    | 91.4    | 99.9    | 93.3                 |
| 357             | Plastic Products                                                 | 102.0   | 107.5   | 116.6   | 111.5   | 98.1    | 104.3   | 115.9   | 108.9                |
| 361/2           | Pottery, China, Earthenware & Glass Products                     | 131.4   | 89.9    | 124.0   | 157.8   | 129.3   | 118.0   | 159.5   | 168.0                |

**6.9 QUARTERLY INDEX OF INDUSTRIAL PRODUCTION, 1991 AND 1992** *(continued)*  
(1989 = 100)

| Industrial Code | Major Industry Group                                    | 1991    |         |         |         | 1992    |         |         |                      |
|-----------------|---------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|----------------------|
|                 |                                                         | 1st Qtr | 2nd Qtr | 3rd Qtr | 4th Qtr | 1st Qtr | 2nd Qtr | 3rd Qtr | 4th Qtr <sup>P</sup> |
| 363             | Bricks, Tiles & Other Structural Clay Products          | 84.8    | 111.8   | 132.6   | 139.6   | 132.4   | 156.4   | 150.5   | 139.0                |
| 364             | Cement                                                  | 112.7   | 128.0   | 153.6   | 160.3   | 139.7   | 149.7   | 163.1   | 170.4                |
| 365             | Structural Cement & Concrete Products                   | 117.7   | 130.0   | 147.5   | 148.6   | 143.7   | 141.4   | 143.4   | 154.0                |
| 369             | Non-metallic Mineral Products                           | 102.0   | 98.2    | 108.6   | 98.6    | 97.7    | 106.9   | 127.5   | 112.7                |
| 371             | Iron & Steel                                            | 101.1   | 90.9    | 106.9   | 111.0   | 90.4    | 94.3    | 113.8   | 123.7                |
| 372             | Non-ferrous Metals                                      | 122.4   | 121.7   | 117.9   | 115.2   | 123.7   | 131.4   | 143.3   | 138.0                |
| 381             | Fabricated Metal Products except Machinery & Equipment  | 95.6    | 98.4    | 103.8   | 99.6    | 95.3    | 102.5   | 111.9   | 111.1                |
| 382             | Machinery except Electrical & Electronic                | 106.5   | 124.1   | 125.7   | 131.0   | 110.7   | 120.1   | 122.5   | 125.0                |
| 383             | Electrical Machinery, Apparatus, Appliances & Supplies  | 87.4    | 100.1   | 107.9   | 108.3   | 93.4    | 100.6   | 108.2   | 102.4                |
| 384             | Electronic Products & Components                        | 112.6   | 114.8   | 113.3   | 111.6   | 105.2   | 118.4   | 128.8   | 139.3                |
| 385             | Transport Equipment                                     | 107.5   | 114.4   | 117.1   | 126.8   | 108.9   | 118.7   | 121.8   | 118.4                |
| 386             | Instrumentation Equipment, Photographic & Optical Goods | 138.7   | 153.7   | 164.1   | 158.5   | 149.3   | 161.0   | 170.1   | 164.2                |
| 390             | Other Manufacturing Industries                          | 75.9    | 112.1   | 136.3   | 96.6    | 74.7    | 86.6    | 98.0    | 70.5                 |

Source: Economic Development Board



**6.10 ANNUAL INDEX OF INDUSTRIAL PRODUCTION, 1986-1992**  
(1989 = 100)

| Industrial Code | Major Industry Group                                             | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992 <sup>P</sup> |
|-----------------|------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------------------|
|                 | <b>Total Manufacturing excluding Rubber Processing</b>           | 65.3  | 76.7  | 90.8  | 100.0 | 109.9 | 115.8 | 118.5             |
| 311/2           | Food                                                             | 88.0  | 89.2  | 97.3  | 100.0 | 97.6  | 102.9 | 105.7             |
| 313             | Beverage                                                         | 76.9  | 91.8  | 102.8 | 100.0 | 108.2 | 109.3 | 122.5             |
| 314             | Cigarettes & Other Tobacco Products                              | 44.8  | 38.0  | 68.4  | 100.0 | 146.1 | 162.6 | 183.5             |
| 321             | Textiles & Textile Manufactures                                  | 78.0  | 89.4  | 95.9  | 100.0 | 93.8  | 100.8 | 88.1              |
| 322             | Wearing Apparel except Footwear                                  | 78.4  | 92.3  | 98.1  | 100.0 | 93.3  | 92.9  | 83.9              |
| 323             | Leather & Leather Products                                       | 112.9 | 127.0 | 118.3 | 100.0 | 96.6  | 79.3  | 92.1              |
| 324             | Footwear                                                         | 77.8  | 92.3  | 110.3 | 100.0 | 105.1 | 149.8 | 125.6             |
| 331             | Sawn Timber & Other Wood Products except Furniture               | 106.3 | 113.8 | 113.6 | 100.0 | 93.6  | 79.6  | 80.2              |
| 332             | Furniture & Fixtures except primarily of Metal, Stone & Plastics | 99.9  | 96.9  | 102.9 | 100.0 | 99.4  | 105.4 | 106.7             |
| 341             | Paper & Paper Products                                           | 67.0  | 89.1  | 97.9  | 100.0 | 105.1 | 109.4 | 96.7              |
| 342             | Printing & Publishing                                            | 74.5  | 81.5  | 90.2  | 100.0 | 110.2 | 119.6 | 127.7             |
| 351             | Industrial Chemicals & Gases                                     | 74.1  | 88.0  | 94.1  | 100.0 | 113.8 | 115.8 | 110.4             |
| 352             | Paints & Pharmaceutical & Other Chemical Products                | 80.7  | 81.5  | 84.3  | 100.0 | 130.5 | 170.8 | 156.5             |
| 353/4           | Petroleum Refineries & Petroleum Products                        | 90.4  | 84.0  | 88.0  | 100.0 | 113.4 | 117.2 | 118.2             |
| 356             | Rubber Products except Footwear & Toys                           | 98.8  | 103.4 | 100.0 | 100.0 | 88.9  | 101.1 | 93.6              |
| 357             | Plastic Products                                                 | 70.0  | 86.9  | 99.8  | 100.0 | 99.1  | 109.4 | 106.8             |
| 361/2           | Pottery, China, Earthenware & Glass Products                     | 92.2  | 98.2  | 107.2 | 100.0 | 114.7 | 125.8 | 143.7             |

**6.10 ANNUAL INDEX OF INDUSTRIAL PRODUCTION, 1986-1992 (continued)**  
(1989 = 100)

| Industrial Code | Major Industry Group                                    | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992 <sup>p</sup> |
|-----------------|---------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------------------|
| 363             | Bricks, Tiles & Other Structural Clay Products          | 79.6  | 90.3  | 90.7  | 100.0 | 97.7  | 117.2 | 144.6             |
| 364             | Cement                                                  | 106.1 | 89.8  | 93.8  | 100.0 | 108.6 | 138.6 | 155.7             |
| 365             | Structural Cement & Concrete Products                   | 133.2 | 103.1 | 94.5  | 100.0 | 115.6 | 136.0 | 145.6             |
| 369             | Non-metallic Mineral Products                           | 43.3  | 61.3  | 66.2  | 100.0 | 101.6 | 101.9 | 111.2             |
| 371             | Iron & Steel                                            | 88.1  | 91.7  | 97.3  | 100.0 | 108.0 | 102.5 | 105.5             |
| 372             | Non-ferrous Metals                                      | 97.5  | 105.4 | 107.0 | 100.0 | 115.3 | 119.3 | 134.1             |
| 381             | Fabricated Metal Products except Machinery & Equipment  | 71.5  | 81.8  | 96.2  | 100.0 | 98.5  | 99.3  | 105.2             |
| 382             | Machinery except Electrical & Electronic                | 60.4  | 70.4  | 84.7  | 100.0 | 107.9 | 121.8 | 119.6             |
| 383             | Electrical Machinery, Apparatus, Appliances & Supplies  | 55.7  | 73.6  | 88.0  | 100.0 | 92.5  | 101.0 | 101.1             |
| 384             | Electronic Products & Components                        | 53.9  | 71.0  | 90.9  | 100.0 | 113.0 | 113.1 | 122.9             |
| 385             | Transport Equipment                                     | 63.1  | 68.1  | 82.2  | 100.0 | 111.2 | 116.5 | 116.9             |
| 386             | Instrumentation Equipment, Photographic & Optical Goods | 69.3  | 80.6  | 99.4  | 100.0 | 115.4 | 153.8 | 161.1             |
| 390             | Other Manufacturing Industries                          | 81.5  | 133.4 | 142.0 | 100.0 | 106.4 | 105.2 | 82.5              |

Source : Economic Development Board  
with effect from April 1987



# 6.11 NET INVESTMENT COMMITMENTS IN MANUFACTURING BY INDUSTRY, 1982-1992

Million Dollars

| Industry                          | 1982           | 1983 <sup>1</sup> | 1984           | 1985           | 1986           | 1987           | 1988           | 1989           | 1990           | 1991           | 1992           |
|-----------------------------------|----------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Total</b>                      | <b>1,704.5</b> | <b>1,775.8</b>    | <b>1,828.4</b> | <b>1,120.4</b> | <b>1,450.0</b> | <b>1,743.0</b> | <b>2,007.4</b> | <b>1,958.7</b> | <b>2,487.4</b> | <b>2,934.0</b> | <b>3,481.0</b> |
| Food & Beverages                  | 101.5          | 185.9             | 154.4          | 55.5           | 83.3           | 156.6          | 168.4          | 34.1           | 43.8           | 39.8           | 76.5           |
| Textiles                          | 8.9            | 7.3               | 0.3            | 3.2            | 5.6            | 3.0            | 10.6           | 2.0            | 2.8            | 11.2           | 5.2            |
| Wearing Apparel                   | 10.4           | 2.8               | 6.7            | 0.7            | -              | 6.8            | 0.9            | 0.4            | 0.2            | 5.7            | 10.0           |
| Leather & Rubber                  | 5.3            | 22.9              | 8.1            | 4.9            | 0.4            | 8.5            | 5.6            | -              | 10.0           | 4.4            | 2.8            |
| Wood Products                     | 8.8            | 8.0               | 15.8           | 21.3           | 11.4           | 14.7           | -              | 2.1            | 8.6            | 2.8            | 4.6            |
| Paper Products & Printing         | 109.2          | 22.1              | 111.3          | 32.3           | 36.2           | 25.1           | 72.0           | 93.8           | 76.2           | 109.4          | 89.5           |
| Industrial Chemicals              | 16.9           | 52.1              | 8.1            | 34.5           | 78.0           | 32.9           | 124.7          | 213.5          | 265.9          | 322.0          | 294.3          |
| Other Chemical Products           | 47.4           | 106.2             | 30.7           | 18.2           | 111.5          | 11.0           | 25.7           | 21.7           | 35.0           | 243.4          | 248.4          |
| Petroleum                         | 387.7          | 367.1             | 358.8          | 190.0          | 116.0          | 122.4          | -              | 290.0          | 381.0          | 99.5           | 454.2          |
| Plastic Products                  | 47.5           | 27.7              | 33.4           | 19.4           | 42.6           | 115.9          | 53.5           | 37.8           | 8.9            | 87.2           | 110.8          |
| Non-metallic Mineral Products     | 40.5           | 136.0             | 24.6           | 88.4           | 9.3            | 6.2            | 133.8          | -              | 9.0            | 47.9           | 63.1           |
| Basic Metals                      | 53.5           | 36.8              | 18.1           | 2.9            | 8.3            | 5.2            | 15.3           | 86.6           | -              | 2.8            | 34.3           |
| Fabricated Metal Products         | 121.0          | 167.4             | 71.5           | 39.5           | 82.0           | 104.3          | 109.9          | 101.0          | 103.1          | 127.1          | 152.5          |
| Machinery except Electrical       | 162.2          | 84.5              | 225.9          | 125.0          | 205.6          | 93.5           | 180.5          | 131.0          | 186.2          | 376.5          | 343.7          |
| Electrical Machinery & Appliances | 92.0           | 57.9              | 30.1           | 76.0           | 130.8          | 128.1          | 97.3           | 77.7           | 98.5           | 17.0           | 17.9           |
| Electronic Products & Components  | 229.8          | 293.8             | 625.8          | 300.1          | 391.1          | 710.3          | 838.3          | 699.2          | 1,098.6        | 1,243.4        | 1,257.3        |
| Transport Equipment               | 162.5          | 92.7              | 72.5           | 88.3           | 64.0           | 61.7           | 110.4          | 50.8           | 114.1          | 124.3          | 167.1          |
| Precision Equipment               | 66.6           | 65.8              | 17.0           | 2.0            | 53.8           | 116.6          | 44.0           | 93.0           | 21.1           | 34.0           | 138.3          |
| Other Products                    | 5.5            | -                 | 1.6            | 3.5            | -              | 11.8           | 0.7            | 14.3           | -              | 35.7           | 10.5           |
| Servicing/Engineering             | 27.8           | 38.9              | 13.8           | 14.8           | 19.9           | 8.4            | 15.9           | 9.8            | 24.3           | -              | -              |

Note : Net investment commitments refer to gross commitments less projects withdrawn or uncertain as at 31 December 1992.

Source : Economic Development Board

1 Exclude Petrochemicals.

# 6.12 NET INVESTMENT COMMITMENTS IN MANUFACTURING BY COUNTRY OF ORIGIN, 1982-1992

Million Dollars

| Country                  | 1982    | 1983 <sup>1</sup> | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992    |
|--------------------------|---------|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>Total</b>             | 1,704.5 | 1,775.8           | 1,828.4 | 1,120.4 | 1,450.0 | 1,743.0 | 2,007.4 | 1,958.7 | 2,487.4 | 2,934.0 | 3,481.0 |
| <b>Local</b>             | 542.0   | 506.0             | 493.7   | 232.4   | 259.4   | 295.0   | 349.6   | 333.3   | 269.5   | 472.9   | 694.0   |
| <b>Foreign</b>           | 1,162.5 | 1,269.8           | 1,334.7 | 888.0   | 1,190.6 | 1,448.0 | 1,657.8 | 1,625.4 | 2,217.9 | 2,461.1 | 2,787.0 |
| United States            | 533.0   | 571.7             | 805.9   | 427.3   | 443.4   | 543.5   | 586.6   | 520.2   | 1,054.8 | 969.2   | 1,200.1 |
| Japan                    | 73.7    | 166.6             | 166.6   | 244.1   | 493.8   | 601.1   | 691.3   | 541.2   | 708.2   | 713.2   | 843.4   |
| Europe                   | 421.8   | 394.1             | 325.1   | 201.0   | 218.8   | 285.8   | 358.1   | 544.2   | 435.3   | 684.2   | 613.9   |
| European Community (EC)  | 386.9   | 338.8             | 318.9   | 180.9   | 204.8   | 241.0   | 345.1   | 525.4   | 395.5   | 615.9   | 531.6   |
| United Kingdom           | 283.1   | 207.5             | 186.6   | 69.4    | 93.4    | 42.4    | 56.6    | 174.6   | 89.9    | 186.5   | 302.7   |
| Netherlands              | 62.8    | 99.2              | 70.3    | 75.2    | 57.1    | 70.9    | 82.9    | 174.0   | 72.6    | 216.2   | 42.9    |
| Germany                  | 31.4    | 12.8              | 14.3    | 20.1    | 16.7    | 90.3    | 46.7    | 26.4    | 165.7   | 60.2    | 104.5   |
| France                   | 1.3     | 6.8               | -       | 15.1    | 27.8    | 15.2    | 86.0    | 106.0   | 60.4    | 75.2    | 34.2    |
| Italy                    | 2.4     | 5.1               | 44.8    | -       | 5.1     | 22.0    | 68.0    | 32.8    | -       | 70.1    | 26.7    |
| Other EC Countries       | 5.9     | 7.4               | 2.9     | 1.1     | 4.7     | 0.2     | 4.8     | 11.6    | 6.9     | 7.7     | 20.6    |
| Switzerland              | 22.0    | 15.4              | 2.7     | 4.7     | 7.7     | 27.8    | 10.1    | 0.9     | 32.7    | 12.6    | 63.1    |
| Other European Countries | 12.9    | 39.9              | 3.6     | 15.4    | 6.3     | 17.0    | 2.9     | 18.0    | 7.1     | 55.7    | 19.3    |
| Others                   | 133.9   | 137.4             | 37.1    | 15.6    | 34.6    | 17.6    | 21.7    | 19.8    | 19.6    | 94.5    | 129.6   |

<sup>1</sup> Exclude Petrochemicals.

Source : Economic Development Board



# 6.13 PRINCIPAL STATISTICS OF PIONEER MANUFACTURING ESTABLISHMENTS, 1981-1991

| End of Year | Establishments | Workers | Materials       | Output | Census Value Added | Remuneration | Paid-up Capital | Gross Fixed Assets | Direct Exports |
|-------------|----------------|---------|-----------------|--------|--------------------|--------------|-----------------|--------------------|----------------|
|             | Number         |         | Million Dollars |        |                    |              |                 |                    |                |
| 1981        | 403            | 112,765 | 14,103          | 20,484 | 5,090              | 1,170        | 1,873           | 7,114              | 14,777         |
| 1982        | 412            | 105,480 | 13,778          | 19,888 | 4,847              | 1,333        | 2,112           | 8,275              | 13,992         |
| 1983        | 442            | 112,510 | 13,950          | 20,683 | 5,379              | 1,560        | 2,540           | 9,124              | 14,824         |
| 1984        | 448            | 121,269 | 16,392          | 24,237 | 6,361              | 1,855        | 2,805           | 10,233             | 17,736         |
| 1985        | 448            | 115,079 | 15,603          | 23,539 | 6,499              | 1,983        | 3,964           | 12,420             | 17,708         |
| 1986        | 430            | 115,852 | 13,792          | 22,867 | 7,819              | 1,903        | 4,248           | 13,112             | 17,835         |
| 1987        | 430            | 131,791 | 18,362          | 29,426 | 9,647              | 2,124        | 4,506           | 14,413             | 23,027         |
| 1988        | 423            | 157,433 | 22,180          | 35,117 | 11,765             | 2,534        | 5,198           | 16,536             | 27,824         |
| 1989        | 398            | 158,084 | 24,169          | 37,764 | 12,032             | 2,842        | 6,342           | 18,151             | 30,023         |
| 1990        | 415            | 166,078 | 28,230          | 43,435 | 13,470             | 3,308        | 6,191           | 20,308             | 33,828         |
| 1991        | 432            | 170,584 | 29,295          | 46,077 | 14,922             | 3,733        | 6,756           | 22,395             | 33,863         |

Source : Economic Development Board  
with effect from April 1987

# 6.14 PRINCIPAL STATISTICS OF PIONEER MANUFACTURING ESTABLISHMENTS BY INDUSTRY GROUP, DECEMBER 1991

| Industry Group                 | Estab-<br>lishments | Workers         | Materials | Output | Census<br>Value<br>Added | Remunera-<br>tion | Paid-up<br>Capital | Gross<br>Fixed<br>Assets | Direct<br>Exports | Value Added<br>Per<br>Worker |
|--------------------------------|---------------------|-----------------|-----------|--------|--------------------------|-------------------|--------------------|--------------------------|-------------------|------------------------------|
|                                | Number              | Million Dollars |           |        |                          |                   |                    |                          |                   | \$'000                       |
| <b>Total</b>                   | 432                 | 170,584         | 29,295    | 46,077 | 14,922                   | 3,733             | 6,756              | 22,395                   | 33,863            | 87                           |
| Food & Beverages               | 7                   | 1,009           | 148       | 252    | 95                       | 25                | 70                 | 189                      | 142               | 94                           |
| Textiles & Garments            | 13                  | 4,382           | 124       | 239    | 85                       | 54                | 134                | 205                      | 203               | 19                           |
| Printing & Paper Products      | 6                   | 1,033           | 156       | 341    | 173                      | 32                | 14                 | 242                      | 286               | 167                          |
| Industrial Chemicals & Gases   | 30                  | 3,261           | 1,640     | 2,545  | 786                      | 154               | 1,032              | 2,792                    | 1,700             | 241                          |
| Chemical Products              | 18                  | 2,128           | 321       | 1,592  | 1,251                    | 72                | 224                | 537                      | 1,546             | 588                          |
| Petroleum & Petroleum Products | 6                   | 2,760           | 6,338     | 8,510  | 1,944                    | 188               | 365                | 5,776                    | 3,502             | 704                          |
| Rubber Products                | 4                   | 639             | 18        | 49     | 27                       | 16                | 38                 | 78                       | 37                | 42                           |
| Plastic Products               | 18                  | 2,568           | 126       | 292    | 129                      | 44                | 45                 | 250                      | 128               | 50                           |
| Non-metallic Mineral Products  | 8                   | 1,496           | 152       | 323    | 143                      | 42                | 114                | 324                      | 110               | 96                           |
| Basic Metal Industries         | 8                   | 1,726           | 320       | 560    | 188                      | 54                | 221                | 395                      | 101               | 109                          |
| Fabricated Metal Products      | 51                  | 8,331           | 586       | 1,159  | 511                      | 191               | 314                | 936                      | 595               | 61                           |
| Non-electrical Machinery       | 61                  | 10,323          | 784       | 1,632  | 769                      | 272               | 226                | 1,244                    | 1,293             | 74                           |
| Electrical Machinery           | 35                  | 14,974          | 928       | 1,738  | 724                      | 287               | 258                | 1,151                    | 1,328             | 48                           |
| Electronic Products            | 106                 | 100,146         | 16,794    | 24,614 | 7,107                    | 1,915             | 3,278              | 6,659                    | 20,834            | 71                           |
| Transport Equipment            | 20                  | 6,904           | 353       | 1,237  | 570                      | 202               | 236                | 844                      | 1,136             | 83                           |
| Instrumentation Equipment      | 30                  | 7,097           | 351       | 734    | 341                      | 153               | 120                | 603                      | 678               | 48                           |
| Miscellaneous                  | 11                  | 1,807           | 157       | 261    | 79                       | 32                | 71                 | 170                      | 247               | 43                           |

Source : Economic Development Board



**6.15 INDICES OF UNIT LABOUR COST AND UNIT BUSINESS COST, 1982-1992**  
(1988 = 100)

| Period | Unit Labour Cost |               | Unit Business Cost |
|--------|------------------|---------------|--------------------|
|        | Overall Economy  | Manufacturing | Manufacturing      |
| 1982   | 100.5            | 101.3         | 110.5              |
| 1983   | 108.2            | 105.5         | 109.8              |
| 1984   | 112.5            | 112.2         | 114.3              |
| 1985   | 113.6            | 119.8         | 114.2              |
| 1986   | 100.9            | 101.7         | 100.2              |
| 1987   | 96.7             | 96.2          | 96.7               |
| 1988   | 100.0            | 100.0         | 100.0              |
| 1989   | 107.8            | 108.7         | 105.6              |
| 1990   | 115.4            | 115.9         | 111.8              |
| 1991   | 112.8            | 122.5         | 117.0              |
| 1992   | 126.5            | 127.2         | 119.2              |

Note : The Unit Business Cost for 1982-1986 and 1987-1992 are based on the 1983 and 1988 input structures respectively.

# CHART 7

## QUARTERLY INDEX OF INDUSTRIAL PRODUCTION, 1986-1992 (1989 = 100)

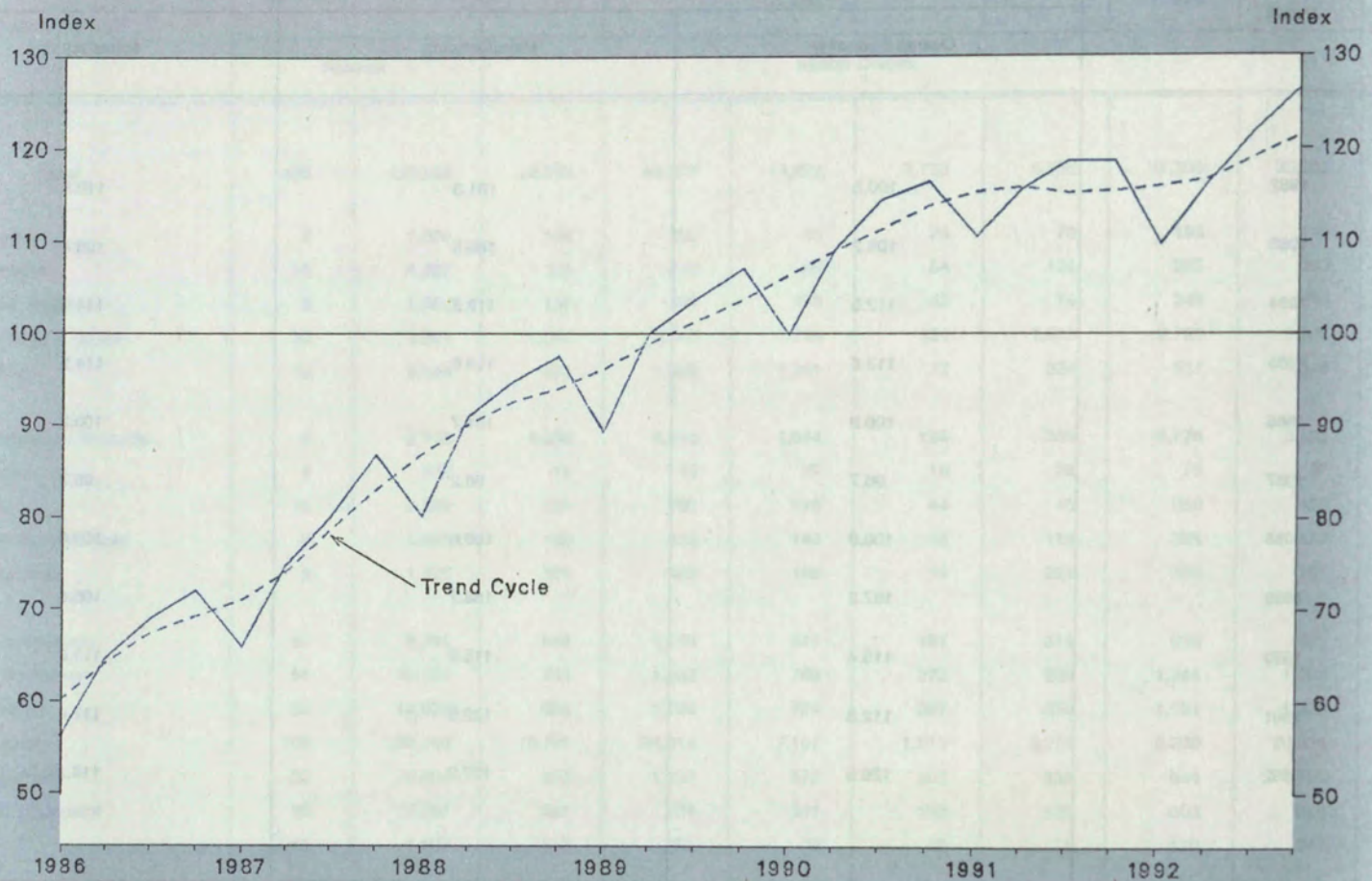
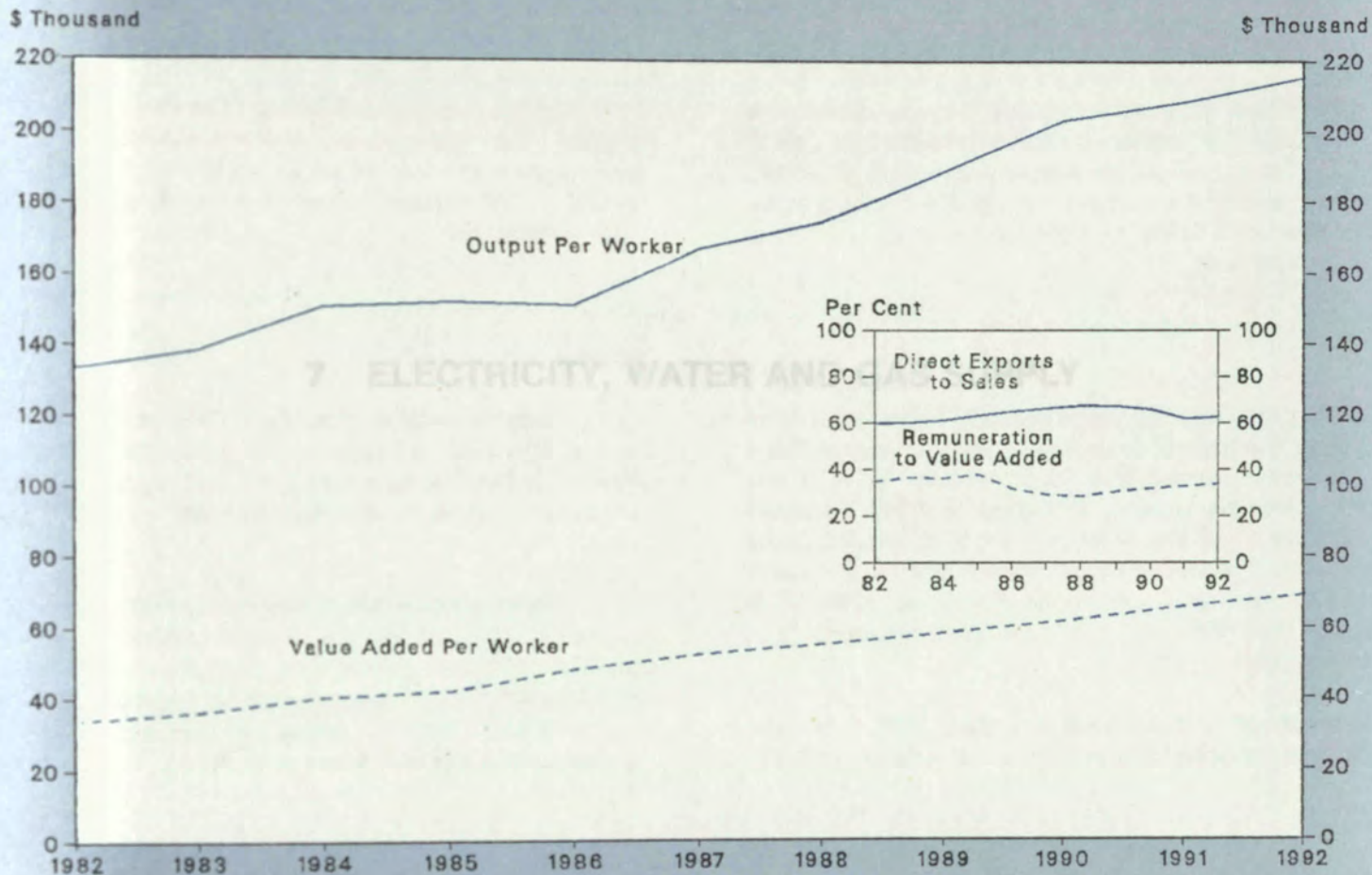




CHART 8

SELECTED RATIOS IN MANUFACTURING, 1982-1992



Today, Singapore enjoys a standard of utility supply rated among the best in the world. The deciding factor was the Republic's ability to meet the needs of companies competing worldwide.

Electricity was first made available to the Republic in 1908. Today, electricity is generated at power stations at Pulau Senang, Senoko, Jurong and Pasir Panjang. In 1995, the installed generating capacity increased to 4,513 megawatt (MW) of which 2,122 MW or 47 per cent is at Senoko. Some electricity is also generated by the refuse incineration plants of the Ministry of the Environment (ENV). In 1992, PUB purchased from ENV 1.5 per cent of Singapore's total electricity supply.

A network of 230 kilovolt (kV), 66kV, 22kV, 6.6kV and 0.4 kV cables interlinked by transformers at substations forms

## 7 ELECTRICITY, WATER AND GAS SUPPLY

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

Water supplies are drawn mainly from 18 impounding reservoirs, 14 in Singapore and 4 in Johor. Water is also tapped from rivers in Johor. After purification and treatment at the nine treatment works, water is pumped into service reservoirs for storage as well as into the distribution network consisting of 4,348 kilometres of pipelines.



## 7 ELECTRICITY, WATER AND GAS SUPPLY

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

### Electricity

Electricity was first made available to the Republic in 1906. Today, electricity is generated at power stations at Pulau Seraya, Senoko, Jurong and Pasir Panjang. In 1992, the installed generating capacity increased to 4,513 megawatt (MW) of which 2,122 MW or 47 per cent is at Senoko. Some electricity is also generated by the refuse incineration plants of the Ministry of the Environment (ENV). In 1992, PUB purchased from ENV 1.5 per cent of Singapore's total electricity supply.

A network of 230 kilovolt (kV), 66kV, 22kV, 6.6kV and 0.4 kV cables interlinked by transformers at substations forms

the transmission and distribution system whereby electricity is supplied from the power stations to the customers. The network now consists of about 18,200 kilometres of cable circuits, 27,200 megavolt-amperes of transformer capacity and 5,800 substations.

### Water

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

Water supplies are drawn mainly from 18 impounding reservoirs, 14 in Singapore and 4 in Johor. Water is also tapped from rivers in Johor. After purification and treatment at the nine treatment works, water is pumped into service reservoirs for storage as well as into the distribution network consisting of 4,348 kilometres of pipelines.

## Gas

Gas is produced by seven naphtha reformers at the Kallang Gasworks which has a total installed production capacity of about 0.854 million cubic metres per day. Gas produced during off-peak periods is stored in the holders in Kallang and Queenstown and used to supplement the supply

during the peak demand periods. There is a total of 2,017 kilometres of gas mains in use.

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



## 7.1 ELECTRICITY GENERATION AND SALES, 1982-1992

| Year | Generation             | Sales    |          |               |                  |        | Number of Customers<br>(End of Period) |
|------|------------------------|----------|----------|---------------|------------------|--------|----------------------------------------|
|      |                        | Total    | Domestic | Manufacturing | Other Industries | Export |                                        |
|      | Million Kilowatt Hours |          |          |               |                  |        |                                        |
| 1982 | 7,883.4                | 7,000.1  | 1,166.9  | 3,217.6       | 2,564.1          | 51.5   | 591,416                                |
| 1983 | 8,665.1                | 7,697.6  | 1,313.0  | 3,504.9       | 2,824.9          | 54.8   | 611,449                                |
| 1984 | 9,451.8                | 8,398.8  | 1,336.2  | 3,926.7       | 3,062.9          | 73.0   | 670,736                                |
| 1985 | 9,917.0                | 8,871.2  | 1,461.8  | 4,018.6       | 3,340.4          | 50.4   | 712,450                                |
| 1986 | 10,576.5               | 9,475.8  | 1,565.3  | 4,267.8       | 3,642.7          | -      | 731,163                                |
| 1987 | 11,813.8               | 10,616.6 | 1,728.7  | 4,843.6       | 4,044.3          | -      | 750,860                                |
| 1988 | 13,017.5               | 11,734.8 | 1,864.1  | 5,471.7       | 4,399.0          | -      | 783,970                                |
| 1989 | 14,039.0               | 12,687.5 | 1,946.1  | 6,053.6       | 4,687.9          | -      | 804,629                                |
| 1990 | 15,617.6               | 14,194.4 | 2,392.0  | 6,738.9       | 5,063.4          | -      | 821,846                                |
| 1991 | 16,596.6               | 15,088.9 | 2,657.8  | 7,079.2       | 5,351.9          | -      | 838,167                                |
| 1992 | 17,543.3               | 15,948.0 | 2,888.4  | 7,305.0       | 5,754.6          | -      | 863,510                                |

Source : Public Utilities Board

## 7.2 WATER TREATMENT AND SALES, 1982-1992

| Year | Treatment             | Sales     |           |          |                           |                                     |          | Number of Customers<br>(End of Period) |
|------|-----------------------|-----------|-----------|----------|---------------------------|-------------------------------------|----------|----------------------------------------|
|      |                       | Total     | Domestic  | Shipping | Commerce<br>&<br>Industry | Government<br>&<br>Statutory Boards | Johore   |                                        |
|      | Thousand Cubic Metres |           |           |          |                           |                                     |          |                                        |
| 1982 | 320,297.1             | 288,526.5 | 124,233.5 | 3,219.4  | 86,587.2                  | 26,632.4                            | 47,854.0 | 559,008                                |
| 1983 | 336,770.7             | 307,322.3 | 132,438.2 | 3,267.9  | 93,534.8                  | 27,798.1                            | 50,283.3 | 579,269                                |
| 1984 | 359,662.5             | 317,942.0 | 136,217.8 | 2,586.5  | 94,889.2                  | 31,618.0                            | 52,630.5 | 636,651                                |
| 1985 | 366,214.7             | 322,677.7 | 141,706.5 | 2,161.5  | 89,406.6                  | 32,667.9                            | 56,735.2 | 680,767                                |
| 1986 | 366,024.8             | 324,664.3 | 144,547.6 | 2,164.4  | 87,300.0                  | 32,480.8                            | 58,171.5 | 698,667                                |
| 1987 | 378,060.1             | 334,679.7 | 151,772.7 | 1,856.6  | 95,084.1                  | 33,285.4                            | 52,680.9 | 716,252                                |
| 1988 | 389,487.6             | 344,073.8 | 159,657.5 | 2,453.7  | 99,318.8                  | 35,503.6                            | 47,140.2 | 748,036                                |
| 1989 | 400,114.4             | 355,635.5 | 165,439.0 | 2,682.3  | 107,134.0                 | 34,868.9                            | 45,511.3 | 765,801                                |
| 1990 | 415,128.5             | 374,222.4 | 177,343.3 | 2,914.5  | 113,148.3                 | 29,391.9                            | 51,424.4 | 782,555                                |
| 1991 | 434,066.5             | 399,013.2 | 187,659.1 | 3,069.2  | 117,811.5                 | 26,628.1                            | 63,845.2 | 799,049                                |
| 1992 | 451,126.1             | 419,565.6 | 197,368.8 | 3,010.6  | 125,196.8                 | 27,719.0                            | 66,270.5 | 823,229                                |

Source : Public Utilities Board



### 7.3 GAS PRODUCTION AND SALES, 1982-1992

| Year | Production | Sales |                |        |              |                                   | Number of Customers<br>(End of Period) |
|------|------------|-------|----------------|--------|--------------|-----------------------------------|----------------------------------------|
|      |            | Total | Domestic       |        | Non-domestic |                                   |                                        |
|      |            |       | Public Housing | Others |              |                                   |                                        |
|      |            |       |                |        |              | Million Kilowatt Hours Equivalent |                                        |
| 1982 | 624.8      | 570.0 | 257.6          | 62.5   | 249.9        | 189,660                           |                                        |
| 1983 | 605.4      | 566.5 | 261.0          | 61.0   | 244.5        | 190,087                           |                                        |
| 1984 | 609.4      | 573.1 | 267.1          | 60.6   | 245.4        | 188,445                           |                                        |
| 1985 | 569.9      | 541.3 | 251.9          | 56.1   | 233.3        | 185,246                           |                                        |
| 1986 | 577.3      | 549.8 | 243.7          | 51.7   | 254.4        | 186,507                           |                                        |
| 1987 | 623.5      | 604.2 | 245.1          | 49.1   | 310.0        | 189,610                           |                                        |
| 1988 | 681.1      | 668.7 | 256.2          | 49.6   | 362.9        | 205,930                           |                                        |
| 1989 | 722.4      | 709.5 | 271.4          | 48.7   | 389.4        | 218,627                           |                                        |
| 1990 | 807.1      | 784.8 | 283.5          | 47.8   | 453.5        | 229,935                           |                                        |
| 1991 | 883.7      | 866.3 | 298.0          | 47.7   | 520.6        | 243,811                           |                                        |
| 1992 | 943.3      | 929.2 | 306.9          | 46.5   | 575.8        | 259,928                           |                                        |

Source : Public Utilities Board

## 8 BUILDING CONSTRUCTION AND HOUSING



## 8 BUILDING CONSTRUCTION AND HOUSING

### Building Construction

Building construction refers to erection of new building, and addition/alteration to existing building, but excludes erection of temporary structures, illegal building works or minor works which do not require planning approval. Data on planning approval, building plan approval and notice of commencement are compiled from the administrative records of Development Control Division, Urban Redevelopment Authority (URA) and Building Control Division of the Public Works Department (PWD). Records on notice of tender invitation and completion are collected through surveys conducted by the Research Section, URA.

### Definitions

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

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

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

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

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

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

*Contracts Awarded* : Refers to the full contract given to the main contractor by the architect, engineer or developer/owner even though part or all the works may be further sub-contracted to another contractor.

*Progress Payment Certified* : Refers to value of all construction works done and certified for progress payment. Where construction works are carried out by the developer/owner himself and the architect does not certify progress payments, the expenses incurred on the construction work are taken to be the progress payments certified.

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

## Housing

The Housing and Development Board (HDB) is the public housing authority of Singapore. It is responsible for formulating and implementing public housing programmes for the development and redevelopment of public housing and related facilities in self-contained New Towns. Besides providing affordable public housing, HDB also concentrates on improving the quality of its flats.

In 1992, HDB completed the upgrading of 498 vacant flats of the two upgrading pilot projects at Woodlands and Teban Gardens. Apart from the addition of balconies, upgrading of windows, sanitary stacks and building facade, improvement works were carried out to the flats. The

upgrading programme aims to bridge the gap between the standards of the older estates and those of the newer towns.

The Town Councils Act became operational on 5 August 1988. Under the Act, Town Councils were formed in all constituencies to take over the management and maintenance of common areas in housing estates from HDB. Since 1 April 1992, there are 24 Town Councils managing and maintaining HDB housing estates. With the takeover of estate maintenance function by Town Councils, HDB's housing administration function includes allocation of rental flats, provision of lease and tenancy services, housing maintenance services, financial services and other support services like carparks, markets and hawker centres.

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

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

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



## 8.1 PLANNING APPROVALS, 1982-1992

| 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) |
| 1982              | 1,555  | 12,053.2                     | 10,121.2                                    | 226           | 6,255.4                      | 4,107.3                                     | 1,329          | 5,797.8                      | 6,013.9                                     |
| 1983              | 1,769  | 11,669.0                     | 8,077.2                                     | 251           | 7,860.0                      | 4,216.1                                     | 1,518          | 3,809.0                      | 3,861.1                                     |
| 1984              | 1,780  | 8,932.8                      | 5,705.6                                     | 233           | 5,983.2                      | 2,993.6                                     | 1,547          | 2,949.6                      | 2,712.0                                     |
| 1985              | 1,361  | 7,769.0                      | 3,971.0                                     | 272           | 6,102.9                      | 2,323.7                                     | 1,089          | 1,666.1                      | 1,647.3                                     |
| 1986              | 1,481  | 8,615.9                      | 4,315.0                                     | 262           | 7,176.4                      | 3,204.7                                     | 1,219          | 1,439.5                      | 1,110.3                                     |
| 1987              | 1,830  | 7,517.1                      | 3,646.3                                     | 207           | 5,310.9                      | 2,150.6                                     | 1,623          | 2,206.2                      | 1,495.7                                     |
| 1988              | 2,000  | 5,078.6                      | 3,678.1                                     | 292           | 2,478.4                      | 1,685.5                                     | 1,708          | 2,600.2                      | 1,992.6                                     |
| 1989              | 2,112  | 5,234.5                      | 4,467.1                                     | 313           | 1,659.0                      | 1,112.4                                     | 1,799          | 3,575.5                      | 3,354.7                                     |
| 1990              | 2,267  | 6,876.3                      | 6,008.1                                     | 356           | 2,806.8                      | 2,014.9                                     | 1,911          | 4,069.5                      | 3,993.2                                     |
| 1991              | 1,977  | 7,700.8                      | 8,866.2                                     | 319           | 3,338.0                      | 2,547.8                                     | 1,658          | 4,362.8                      | 6,318.4                                     |
| 1992 <sup>P</sup> | 2,356  | 10,181.2                     | 10,258.3                                    | 470           | 6,033.4                      | 4,996.0                                     | 1,886          | 4,147.8                      | 5,262.3                                     |

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

## 8.2 COMMENCEMENT OF BUILDING CONSTRUCTION, 1982-1992

| 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) |
| 1982              | 1,840  | 12,445.7                     | 10,151.5                                    | 593           | 7,642.0                      | 4,545.7                                     | 1,247          | 4,803.7                      | 5,605.8                                     |
| 1983              | 2,042  | 12,454.5                     | 8,590.1                                     | 654           | 8,798.2                      | 4,860.3                                     | 1,388          | 3,656.3                      | 3,729.8                                     |
| 1984              | 1,996  | 8,112.0                      | 5,446.6                                     | 562           | 6,179.7                      | 3,496.1                                     | 1,434          | 1,932.3                      | 1,950.5                                     |
| 1985              | 1,606  | 6,141.2                      | 3,241.1                                     | 542           | 5,079.0                      | 2,205.6                                     | 1,064          | 1,062.2                      | 1,035.5                                     |
| 1986              | 1,596  | 5,428.1                      | 2,653.7                                     | 507           | 4,769.1                      | 2,117.7                                     | 1,089          | 659.0                        | 536.0                                       |
| 1987              | 1,936  | 4,309.9                      | 2,868.6                                     | 453           | 2,552.5                      | 1,501.2                                     | 1,483          | 1,757.4                      | 1,367.4                                     |
| 1988              | 2,247  | 4,278.2                      | 3,033.4                                     | 435           | 2,249.2                      | 1,392.7                                     | 1,812          | 2,029.0                      | 1,640.7                                     |
| 1989              | 2,312  | 6,635.3                      | 6,531.2                                     | 364           | 2,315.9                      | 1,640.1                                     | 1,948          | 4,319.4                      | 4,891.1                                     |
| 1990              | 2,971  | 7,496.9                      | 7,621.3                                     | 368           | 4,113.1                      | 2,884.7                                     | 2,603          | 3,383.8                      | 4,736.6                                     |
| 1991              | 2,907  | 8,714.3                      | 9,189.9                                     | 416           | 5,166.0                      | 4,282.7                                     | 2,491          | 3,548.3                      | 4,907.2                                     |
| 1992 <sup>p</sup> | 3,040  | 9,463.9                      | 10,074.2                                    | 409           | 5,922.4                      | 5,117.6                                     | 2,631          | 3,541.5                      | 4,956.6                                     |

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



### 8.3 CONSTRUCTION PROJECTS COMPLETED, 1982-1992

| 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) |
| 1982              | 1,621  | 6,123.3                      | 3,873.8                           | 499           | 3,599.0                      | 1,564.5                           | 1,122          | 2,524.3                      | 2,309.3                           |
| 1983              | 1,641  | 6,725.1                      | 4,609.3                           | 518           | 3,893.9                      | 2,052.9                           | 1,123          | 2,831.2                      | 2,556.4                           |
| 1984              | 2,006  | 14,989.5                     | 8,834.4                           | 675           | 11,662.1                     | 5,300.0                           | 1,331          | 3,327.4                      | 3,534.4                           |
| 1985              | 1,925  | 11,423.9                     | 6,621.2                           | 614           | 8,545.5                      | 3,672.8                           | 1,311          | 2,878.4                      | 2,948.4                           |
| 1986              | 1,661  | 9,040.9                      | 6,425.6                           | 518           | 6,231.0                      | 3,102.1                           | 1,143          | 2,809.9                      | 3,323.5                           |
| 1987              | 1,822  | 7,160.0                      | 4,330.1                           | 486           | 5,504.4                      | 2,548.1                           | 1,336          | 1,655.6                      | 1,782.0                           |
| 1988              | 1,761  | 6,382.7                      | 3,245.3                           | 421           | 5,044.6                      | 1,957.9                           | 1,340          | 1,338.1                      | 1,287.4                           |
| 1989              | 1,974  | 4,167.9                      | 2,965.9                           | 422           | 2,408.1                      | 1,207.7                           | 1,552          | 1,759.8                      | 1,758.2                           |
| 1990              | 2,381  | 4,897.2                      | 4,086.2                           | 367           | 2,588.6                      | 1,615.4                           | 2,014          | 2,308.6                      | 2,470.8                           |
| 1991              | 2,604  | 4,597.6                      | 4,051.8                           | 372           | 2,277.5                      | 1,431.8                           | 2,232          | 2,320.1                      | 2,620.0                           |
| 1992 <sup>P</sup> | 2,577  | 6,951.7                      | 6,525.6                           | 306           | 4,029.6                      | 2,572.9                           | 2,271          | 2,922.1                      | 3,952.7                           |

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

# 8.4 PLANNING APPROVALS BY TYPE OF DEVELOPMENT, 1982-1992

|           | 1982                                             | 1983     | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992 P   |
|-----------|--------------------------------------------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| All Types | Number                                           |          |         |         |         |         |         |         |         |         |          |
|           | 1,555                                            | 1,769    | 1,780   | 1,361   | 1,481   | 1,830   | 2,000   | 2,112   | 2,267   | 1,977   | 2,356    |
|           | 706                                              | 983      | 986     | 646     | 773     | 1,076   | 1,009   | 933     | 681     | 628     | 843      |
|           | 158                                              | 137      | 137     | 116     | 139     | 135     | 200     | 359     | 517     | 443     | 585      |
|           | 457                                              | 378      | 384     | 290     | 273     | 381     | 455     | 530     | 731     | 618     | 585      |
|           | 234                                              | 271      | 273     | 309     | 296     | 238     | 336     | 290     | 338     | 288     | 343      |
| All Types | Gross Floor Area (Thousand Square Metres)        |          |         |         |         |         |         |         |         |         |          |
|           | 12,053.2                                         | 11,669.0 | 8,932.8 | 7,769.0 | 8,615.9 | 7,517.1 | 5,078.6 | 5,234.5 | 6,876.3 | 7,700.8 | 10,181.2 |
|           | 6,042.8                                          | 8,745.6  | 6,432.8 | 5,888.6 | 6,598.2 | 5,886.5 | 3,394.3 | 2,385.5 | 3,804.3 | 3,806.0 | 7,201.5  |
|           | 3,282.9                                          | 698.7    | 787.3   | 409.7   | 279.7   | 195.9   | 270.0   | 766.9   | 800.0   | 1,543.2 | 517.8    |
|           | 2,072.2                                          | 1,180.8  | 881.0   | 933.9   | 558.6   | 868.2   | 693.8   | 1,470.7 | 1,572.4 | 1,766.4 | 1,805.7  |
|           | 655.3                                            | 1,043.9  | 831.7   | 536.8   | 1,179.4 | 566.5   | 720.5   | 611.4   | 699.6   | 585.2   | 656.2    |
| All Types | Estimated Cost of Construction (Million Dollars) |          |         |         |         |         |         |         |         |         |          |
|           | 10,121.2                                         | 8,077.2  | 5,705.6 | 3,971.0 | 4,315.0 | 3,646.3 | 3,678.1 | 4,467.1 | 6,008.1 | 8,866.2 | 10,258.3 |
|           | 3,829.1                                          | 5,312.1  | 3,427.8 | 2,231.7 | 2,627.1 | 2,562.5 | 2,034.1 | 1,640.3 | 2,681.8 | 2,966.3 | 5,943.5  |
|           | 4,317.0                                          | 981.8    | 722.0   | 579.7   | 219.1   | 165.2   | 327.9   | 1,075.3 | 1,204.9 | 3,559.0 | 1,082.5  |
|           | 1,355.0                                          | 880.6    | 627.9   | 526.1   | 361.5   | 545.7   | 489.2   | 1,080.2 | 1,212.7 | 1,502.2 | 1,996.6  |
|           | 620.1                                            | 902.7    | 927.9   | 633.5   | 1,107.3 | 372.9   | 826.9   | 671.3   | 908.7   | 838.7   | 1,235.7  |

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



# 8.5 PLANNING APPROVALS BY TYPE OF DEVELOPMENT IN THE PUBLIC SECTOR, 1982-1992

|                  | 1982                                             | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992 <sup>P</sup> |
|------------------|--------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|
| <b>All Types</b> | Number                                           |         |         |         |         |         |         |         |         |         |                   |
|                  | 226                                              | 251     | 233     | 272     | 262     | 207     | 292     | 313     | 356     | 319     | 470               |
|                  | Residential                                      | 37      | 40      | 30      | 22      | 38      | 27      | 23      | 38      | 45      | 59                |
|                  | Commercial                                       | 19      | 14      | 13      | 9       | 17      | 17      | 16      | 56      | 74      | 46                |
|                  | Industrial                                       | 14      | 9       | 3       | 1       | -       | 5       | 8       | 14      | 13      | 20                |
|                  | Others                                           | 156     | 188     | 187     | 240     | 207     | 158     | 245     | 205     | 224     | 194               |
| <b>All Types</b> | Gross Floor Area (Thousand Square Metres)        |         |         |         |         |         |         |         |         |         |                   |
|                  | 6,255.4                                          | 7,860.0 | 5,983.2 | 6,102.9 | 7,176.4 | 5,310.9 | 2,478.4 | 1,659.0 | 2,806.8 | 3,338.0 | 6,033.4           |
|                  | Residential                                      | 4,541.6 | 6,712.7 | 4,906.1 | 5,227.5 | 5,900.2 | 4,876.4 | 1,778.7 | 997.1   | 2,215.2 | 2,421.3           |
|                  | Commercial                                       | 599.9   | 39.2    | 245.6   | 131.2   | 178.3   | 76.5    | 30.2    | 64.2    | 70.0    | 22.3              |
|                  | Industrial                                       | 745.0   | 281.8   | 123.5   | 308.5   | -       | 33.5    | 141.0   | 191.8   | 105.9   | 385.2             |
|                  | Others                                           | 368.9   | 826.3   | 708.0   | 435.7   | 1,097.9 | 324.5   | 528.5   | 405.9   | 415.7   | 509.2             |
| <b>All Types</b> | Estimated Cost of Construction (Million Dollars) |         |         |         |         |         |         |         |         |         |                   |
|                  | 4,107.3                                          | 4,216.1 | 2,993.6 | 2,323.7 | 3,204.7 | 2,150.6 | 1,685.5 | 1,112.4 | 2,014.9 | 2,547.8 | 4,996.0           |
|                  | Residential                                      | 2,215.8 | 3,170.2 | 1,952.4 | 1,610.1 | 2,038.7 | 1,807.0 | 765.0   | 487.7   | 1,241.7 | 1,493.8           |
|                  | Commercial                                       | 964.6   | 44.8    | 156.9   | 82.6    | 126.2   | 42.0    | 56.0    | 52.8    | 119.1   | 47.7              |
|                  | Industrial                                       | 391.9   | 195.8   | 48.5    | 106.0   | -       | 20.5    | 105.1   | 87.6    | 66.2    | 263.0             |
|                  | Others                                           | 535.0   | 805.3   | 835.8   | 525.0   | 1,039.8 | 281.1   | 759.4   | 484.3   | 587.9   | 743.3             |

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

# 8.6 PLANNING APPROVALS BY TYPE OF DEVELOPMENT IN THE PRIVATE SECTOR, 1982-1992

|             |  | 1982                                             | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992 <sup>P</sup> |
|-------------|--|--------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|
|             |  | Number                                           |         |         |         |         |         |         |         |         |         |                   |
| All Types   |  | 1,329                                            | 1,518   | 1,547   | 1,089   | 1,219   | 1,623   | 1,708   | 1,799   | 1,911   | 1,658   | 1,886             |
| Residential |  | 669                                              | 943     | 956     | 624     | 735     | 1,049   | 986     | 895     | 636     | 569     | 716               |
| Commercial  |  | 139                                              | 123     | 124     | 107     | 122     | 118     | 184     | 303     | 443     | 397     | 511               |
| Industrial  |  | 443                                              | 369     | 381     | 289     | 273     | 376     | 447     | 516     | 718     | 598     | 560               |
| Others      |  | 78                                               | 83      | 86      | 69      | 89      | 80      | 91      | 85      | 114     | 94      | 99                |
|             |  | Gross Floor Area (Thousand Square Metres)        |         |         |         |         |         |         |         |         |         |                   |
| All Types   |  | 5,797.8                                          | 3,809.0 | 2,949.6 | 1,666.1 | 1,439.5 | 2,206.2 | 2,600.2 | 3,575.5 | 4,069.5 | 4,362.8 | 4,147.8           |
| Residential |  | 1,501.2                                          | 2,032.9 | 1,526.7 | 661.1   | 698.0   | 1,010.1 | 1,615.6 | 1,388.4 | 1,589.1 | 1,384.7 | 2,364.6           |
| Commercial  |  | 2,683.0                                          | 659.5   | 541.7   | 278.5   | 101.4   | 119.4   | 239.8   | 702.7   | 730.0   | 1,520.9 | 394.1             |
| Industrial  |  | 1,327.2                                          | 899.0   | 757.5   | 625.4   | 558.6   | 834.7   | 552.8   | 1,278.9 | 1,466.5 | 1,381.2 | 1,338.4           |
| Others      |  | 286.4                                            | 217.6   | 123.7   | 101.1   | 81.5    | 242.0   | 192.0   | 205.5   | 283.9   | 76.0    | 50.7              |
|             |  | Estimated Cost of Construction (Million Dollars) |         |         |         |         |         |         |         |         |         |                   |
| All Types   |  | 6,013.9                                          | 3,861.1 | 2,712.0 | 1,647.3 | 1,110.3 | 1,495.7 | 1,992.6 | 3,354.7 | 3,993.2 | 6,318.4 | 5,262.3           |
| Residential |  | 1,613.3                                          | 2,141.9 | 1,475.4 | 621.6   | 588.4   | 755.5   | 1,269.1 | 1,152.6 | 1,440.1 | 1,472.5 | 2,697.4           |
| Commercial  |  | 3,352.4                                          | 937.0   | 565.1   | 497.1   | 92.9    | 123.2   | 271.9   | 1,022.5 | 1,085.8 | 3,511.3 | 939.1             |
| Industrial  |  | 963.1                                            | 684.8   | 579.4   | 420.1   | 361.5   | 525.2   | 384.1   | 992.6   | 1,146.5 | 1,239.2 | 1,529.9           |
| Others      |  | 85.1                                             | 97.4    | 92.1    | 108.5   | 67.5    | 91.8    | 67.5    | 187.0   | 320.8   | 95.4    | 95.9              |

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



# 8.7 COMMENCEMENT OF BUILDING CONSTRUCTION BY TYPE OF DEVELOPMENT, 1982-1992

|                                                  | 1982     | 1983     | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992 <sup>P</sup> |
|--------------------------------------------------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|
| Number                                           |          |          |         |         |         |         |         |         |         |         |                   |
| All Types                                        | 1,840    | 2,042    | 1,996   | 1,606   | 1,596   | 1,936   | 2,247   | 2,312   | 2,971   | 2,907   | 3,040             |
| Residential                                      | 746      | 999      | 904     | 693     | 661     | 891     | 1,054   | 1,027   | 1,470   | 1,334   | 1,533             |
| Commercial                                       | 226      | 210      | 274     | 228     | 294     | 331     | 291     | 459     | 592     | 612     | 698               |
| Industrial                                       | 485      | 400      | 405     | 286     | 296     | 367     | 535     | 500     | 586     | 646     | 552               |
| Others                                           | 383      | 433      | 413     | 399     | 345     | 347     | 367     | 326     | 323     | 315     | 257               |
| Gross Floor Area (Thousand Square Metres)        |          |          |         |         |         |         |         |         |         |         |                   |
| All Types                                        | 12,445.7 | 12,454.5 | 8,112.0 | 6,141.2 | 5,428.1 | 4,309.9 | 4,278.2 | 6,635.3 | 7,496.9 | 8,714.3 | 9,463.9           |
| Residential                                      | 7,456.3  | 9,141.2  | 5,881.7 | 4,969.6 | 4,313.0 | 2,870.6 | 2,812.2 | 3,239.1 | 4,030.3 | 5,236.4 | 6,645.6           |
| Commercial                                       | 2,321.9  | 940.0    | 657.0   | 350.1   | 141.4   | 120.6   | 196.5   | 1,433.8 | 1,227.3 | 873.0   | 614.8             |
| Industrial                                       | 1,884.7  | 943.7    | 664.2   | 277.4   | 282.5   | 644.5   | 800.4   | 1,246.0 | 1,545.1 | 1,750.8 | 1,222.1           |
| Others                                           | 782.8    | 1,429.6  | 909.1   | 544.1   | 691.2   | 674.2   | 469.1   | 716.4   | 694.2   | 854.1   | 981.4             |
| Estimated Cost of Construction (Million Dollars) |          |          |         |         |         |         |         |         |         |         |                   |
| All Types                                        | 10,151.5 | 8,590.1  | 5,446.6 | 3,241.1 | 2,653.7 | 2,868.6 | 3,033.4 | 6,531.2 | 7,621.3 | 9,189.9 | 10,074.2          |
| Residential                                      | 4,437.9  | 4,972.7  | 2,730.0 | 2,101.5 | 1,679.9 | 1,542.9 | 1,634.4 | 2,265.5 | 2,737.8 | 4,052.8 | 5,346.8           |
| Commercial                                       | 3,510.0  | 1,208.8  | 860.2   | 384.4   | 150.7   | 164.4   | 241.3   | 2,426.2 | 2,651.7 | 1,967.1 | 1,389.6           |
| Industrial                                       | 1,176.9  | 783.4    | 517.0   | 216.1   | 228.7   | 494.4   | 600.3   | 1,026.6 | 1,267.0 | 1,821.5 | 1,512.3           |
| Others                                           | 1,026.7  | 1,625.2  | 1,339.4 | 539.1   | 594.4   | 666.9   | 557.4   | 812.9   | 964.8   | 1,348.5 | 1,825.5           |

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

# 8.8 COMMENCEMENT OF BUILDING CONSTRUCTION BY TYPE OF DEVELOPMENT IN THE PUBLIC SECTOR, 1982-1992

|           | 1982                                             | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992 <sup>P</sup> |         |
|-----------|--------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|---------|
| All Types | Number                                           |         |         |         |         |         |         |         |         |         |                   |         |
|           | 593                                              | 654     | 562     | 542     | 507     | 453     | 435     | 364     | 368     | 416     | 409               |         |
|           | Residential                                      | 205     | 206     | 179     | 158     | 183     | 139     | 117     | 85      | 99      | 119               | 159     |
|           | Commercial                                       | 41      | 52      | 49      | 34      | 37      | 29      | 36      | 34      | 21      | 66                | 81      |
|           | Industrial                                       | 43      | 32      | 17      | 14      | 29      | 24      | 30      | 23      | 43      | 39                | 32      |
|           | Others                                           | 304     | 364     | 317     | 336     | 258     | 261     | 252     | 222     | 205     | 192               | 137     |
| All Types | Gross Floor Area (Thousand Square Metres)        |         |         |         |         |         |         |         |         |         |                   |         |
|           | 7,642.0                                          | 8,798.2 | 6,179.7 | 5,079.0 | 4,769.1 | 2,552.5 | 2,249.2 | 2,315.9 | 4,113.1 | 5,166.0 | 5,922.4           |         |
|           | Residential                                      | 5,810.2 | 7,315.0 | 5,140.5 | 4,462.5 | 4,052.2 | 2,088.4 | 1,692.1 | 1,787.0 | 3,130.2 | 3,880.2           | 4,814.4 |
|           | Commercial                                       | 392.6   | 289.2   | 219.5   | 129.8   | 75.1    | 1.8     | 21.0    | 119.1   | 15.8    | 113.0             | 129.6   |
|           | Industrial                                       | 821.2   | 120.4   | 43.9    | -       | -       | 35.5    | 167.5   | 78.5    | 417.4   | 536.3             | 114.7   |
|           | Others                                           | 618.0   | 1,073.6 | 775.8   | 486.7   | 641.8   | 426.8   | 368.6   | 331.3   | 549.7   | 636.5             | 863.7   |
| All Types | Estimated Cost of Construction (Million Dollars) |         |         |         |         |         |         |         |         |         |                   |         |
|           | 4,545.7                                          | 4,860.3 | 3,496.1 | 2,205.6 | 2,117.7 | 1,501.2 | 1,392.7 | 1,640.1 | 2,884.7 | 4,282.7 | 5,117.6           |         |
|           | Residential                                      | 2,626.2 | 3,024.1 | 2,002.8 | 1,639.3 | 1,471.5 | 886.7   | 747.7   | 931.7   | 1,769.8 | 2,543.5           | 3,137.6 |
|           | Commercial                                       | 573.9   | 218.5   | 217.5   | 73.2    | 81.3    | 13.5    | 40.2    | 177.8   | 27.4    | 142.2             | 187.2   |
|           | Industrial                                       | 408.1   | 102.2   | 30.2    | 7.0     | 18.3    | 30.2    | 121.8   | 85.8    | 324.0   | 639.7             | 167.2   |
|           | Others                                           | 937.5   | 1,515.5 | 1,245.6 | 486.1   | 546.6   | 570.8   | 483.0   | 444.8   | 763.5   | 957.3             | 1,625.6 |

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



# 8.9 COMMENCEMENT OF BUILDING CONSTRUCTION BY TYPE OF DEVELOPMENT IN THE PRIVATE SECTOR, 1982-1992

|           | 1982                                             | 1983    | 1984    | 1985    | 1986  | 1987    | 1988    | 1989    | 1990    | 1991    | 1992 <sup>P</sup> |         |
|-----------|--------------------------------------------------|---------|---------|---------|-------|---------|---------|---------|---------|---------|-------------------|---------|
| All Types | Number                                           |         |         |         |       |         |         |         |         |         |                   |         |
|           | 1,247                                            | 1,388   | 1,434   | 1,064   | 1,089 | 1,483   | 1,812   | 1,948   | 2,603   | 2,491   | 2,631             |         |
|           | Residential                                      | 541     | 793     | 725     | 535   | 478     | 752     | 937     | 942     | 1,371   | 1,215             | 1,374   |
|           | Commercial                                       | 185     | 158     | 225     | 194   | 257     | 302     | 255     | 425     | 571     | 546               | 617     |
|           | Industrial                                       | 442     | 368     | 388     | 272   | 267     | 343     | 505     | 477     | 543     | 607               | 520     |
|           | Others                                           | 79      | 69      | 96      | 63    | 87      | 86      | 115     | 104     | 118     | 123               | 120     |
| All Types | Gross Floor Area (Thousand Square Metres)        |         |         |         |       |         |         |         |         |         |                   |         |
|           | 4,803.7                                          | 3,656.3 | 1,932.3 | 1,062.2 | 659.0 | 1,757.4 | 2,029.0 | 4,319.4 | 3,383.8 | 3,548.3 | 3,541.5           |         |
|           | Residential                                      | 1,646.1 | 1,826.2 | 741.2   | 507.1 | 260.8   | 782.2   | 1,120.1 | 1,452.1 | 900.1   | 1,356.2           | 1,831.2 |
|           | Commercial                                       | 1,929.3 | 650.8   | 437.5   | 220.3 | 66.3    | 118.8   | 175.5   | 1,314.7 | 1,211.5 | 760.0             | 485.2   |
|           | Industrial                                       | 1,063.5 | 823.3   | 620.3   | 277.4 | 282.5   | 609.0   | 632.9   | 1,167.5 | 1,127.7 | 1,214.5           | 1,107.4 |
|           | Others                                           | 164.8   | 356.0   | 133.3   | 57.4  | 49.4    | 247.4   | 100.5   | 385.1   | 144.5   | 217.6             | 117.7   |
| All Types | Estimated Cost of Construction (Million Dollars) |         |         |         |       |         |         |         |         |         |                   |         |
|           | 5,605.8                                          | 3,729.8 | 1,950.5 | 1,035.5 | 536.0 | 1,367.4 | 1,640.7 | 4,891.1 | 4,736.6 | 4,907.2 | 4,956.6           |         |
|           | Residential                                      | 1,811.7 | 1,948.6 | 727.2   | 462.2 | 208.4   | 656.2   | 886.7   | 1,333.8 | 968.0   | 1,509.3           | 2,209.2 |
|           | Commercial                                       | 2,936.1 | 990.3   | 642.7   | 311.2 | 69.4    | 150.9   | 201.1   | 2,248.4 | 2,624.3 | 1,824.9           | 1,202.4 |
|           | Industrial                                       | 768.8   | 681.2   | 486.8   | 209.1 | 210.4   | 464.2   | 478.5   | 940.8   | 943.0   | 1,181.8           | 1,345.1 |
|           | Others                                           | 89.2    | 109.7   | 93.8    | 53.0  | 47.8    | 96.1    | 74.4    | 368.1   | 201.3   | 391.2             | 199.9   |

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

# 8.10 CONSTRUCTION PROJECTS COMPLETED BY TYPE OF DEVELOPMENT, 1982-1992

|           | 1982                                      | 1983    | 1984     | 1985     | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992 <sup>P</sup> |
|-----------|-------------------------------------------|---------|----------|----------|---------|---------|---------|---------|---------|---------|-------------------|
| All Types | Number                                    |         |          |          |         |         |         |         |         |         |                   |
|           | 1,621                                     | 1,641   | 2,006    | 1,925    | 1,661   | 1,822   | 1,761   | 1,974   | 2,381   | 2,604   | 2,577             |
|           | Residential                               | 578     | 700      | 877      | 933     | 752     | 814     | 822     | 873     | 1,011   | 1,197             |
|           | Commercial                                | 193     | 182      | 289      | 218     | 279     | 342     | 250     | 367     | 587     | 469               |
|           | Industrial                                | 489     | 396      | 437      | 361     | 257     | 329     | 389     | 424     | 461     | 607               |
|           | Others                                    | 361     | 363      | 403      | 413     | 373     | 337     | 300     | 310     | 322     | 298               |
| All Types | Gross Floor Area (Thousand Square Metres) |         |          |          |         |         |         |         |         |         |                   |
|           | 6,123.3                                   | 6,725.1 | 14,989.5 | 11,423.9 | 9,040.9 | 7,160.0 | 6,382.7 | 4,167.9 | 4,897.2 | 4,597.6 | 6,951.7           |
|           | Residential                               | 2,894.3 | 3,754.7  | 11,217.2 | 9,221.5 | 6,250.9 | 5,092.6 | 4,863.1 | 2,889.5 | 2,658.1 | 2,600.5           |
|           | Commercial                                | 928.5   | 850.8    | 1,506.3  | 728.2   | 1,448.6 | 821.4   | 359.9   | 293.7   | 416.7   | 368.6             |
|           | Industrial                                | 1,756.4 | 1,549.3  | 1,531.1  | 984.9   | 473.2   | 360.7   | 637.3   | 672.4   | 968.7   | 1,338.0           |
|           | Others                                    | 544.1   | 570.3    | 734.9    | 489.3   | 868.2   | 885.3   | 522.4   | 312.3   | 853.7   | 290.5             |
| All Types | Cost of Construction (Million Dollars)    |         |          |          |         |         |         |         |         |         |                   |
|           | 3,873.8                                   | 4,609.3 | 8,834.4  | 6,621.2  | 6,425.6 | 4,330.1 | 3,245.3 | 2,965.9 | 4,086.2 | 4,051.8 | 6,525.6           |
|           | Residential                               | 969.0   | 1,958.0  | 4,994.8  | 4,497.4 | 2,828.3 | 2,018.5 | 1,821.0 | 1,534.8 | 1,537.8 | 1,628.3           |
|           | Commercial                                | 718.1   | 801.6    | 1,856.5  | 892.3   | 2,256.9 | 1,103.0 | 403.4   | 390.2   | 896.9   | 627.2             |
|           | Industrial                                | 1,465.4 | 1,144.8  | 1,035.9  | 699.5   | 333.9   | 264.5   | 529.8   | 618.1   | 782.4   | 1,267.5           |
|           | Others                                    | 721.3   | 704.9    | 947.2    | 532.0   | 1,006.5 | 944.1   | 491.1   | 422.8   | 869.1   | 528.8             |

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



# 8.11 PUBLIC SECTOR CONSTRUCTION PROJECTS COMPLETED BY TYPE OF DEVELOPMENT, 1982-1992

|           | 1982                                      | 1983    | 1984     | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992 <sup>P</sup> |         |
|-----------|-------------------------------------------|---------|----------|---------|---------|---------|---------|---------|---------|---------|-------------------|---------|
| All Types | Number                                    |         |          |         |         |         |         |         |         |         |                   |         |
|           | 499                                       | 518     | 675      | 614     | 518     | 486     | 421     | 422     | 367     | 372     | 306               |         |
|           | Residential                               | 130     | 137      | 235     | 227     | 171     | 189     | 166     | 120     | 78      | 82                | 94      |
|           | Commercial                                | 37      | 40       | 60      | 28      | 31      | 32      | 29      | 59      | 50      | 56                | 64      |
|           | Industrial                                | 34      | 47       | 39      | 29      | 19      | 22      | 22      | 21      | 25      | 42                | 27      |
|           | Others                                    | 298     | 294      | 341     | 330     | 297     | 243     | 204     | 222     | 214     | 192               | 121     |
| All Types | Gross Floor Area (Thousand Square Metres) |         |          |         |         |         |         |         |         |         |                   |         |
|           | 3,599.0                                   | 3,893.9 | 11,662.1 | 8,545.5 | 6,231.0 | 5,504.4 | 5,044.6 | 2,408.1 | 2,588.6 | 2,277.5 | 4,029.6           |         |
|           | Residential                               | 2,338.1 | 2,561.2  | 9,960.1 | 7,511.6 | 5,099.7 | 4,480.9 | 4,399.9 | 2,009.9 | 1,670.4 | 1,681.0           | 3,345.5 |
|           | Commercial                                | 266.2   | 259.5    | 464.5   | 272.6   | 274.0   | 212.5   | 121.0   | 33.4    | 36.1    | 85.2              | 55.1    |
|           | Industrial                                | 507.4   | 623.8    | 583.1   | 349.0   | 44.0    | -       | 59.7    | 104.3   | 96.6    | 270.7             | 172.3   |
|           | Others                                    | 487.3   | 449.4    | 654.4   | 412.3   | 813.3   | 811.0   | 464.0   | 260.5   | 785.5   | 240.6             | 456.7   |
| All Types | Cost of Construction (Million Dollars)    |         |          |         |         |         |         |         |         |         |                   |         |
|           | 1,564.5                                   | 2,052.9 | 5,300.0  | 3,672.8 | 3,102.1 | 2,548.1 | 1,957.9 | 1,207.7 | 1,615.4 | 1,431.8 | 2,572.9           |         |
|           | Residential                               | 558.1   | 930.4    | 3,754.2 | 2,798.5 | 1,799.2 | 1,479.2 | 1,421.0 | 771.2   | 701.9   | 708.5             | 1,636.3 |
|           | Commercial                                | 146.4   | 211.7    | 434.6   | 235.8   | 307.3   | 203.1   | 66.0    | 31.3    | 47.0    | 79.4              | 109.8   |
|           | Industrial                                | 194.9   | 300.5    | 272.9   | 165.5   | 32.4    | 9.7     | 38.4    | 55.2    | 83.0    | 222.2             | 201.6   |
|           | Others                                    | 665.1   | 610.3    | 838.3   | 473.0   | 963.2   | 856.1   | 432.5   | 350.0   | 783.5   | 421.7             | 625.2   |

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

# 8.12 PRIVATE SECTOR CONSTRUCTION PROJECTS COMPLETED BY TYPE OF DEVELOPMENT, 1982-1992

|                  | 1982                                             | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992 <sup>p</sup> |
|------------------|--------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|
| <b>All Types</b> | <b>Number</b>                                    |         |         |         |         |         |         |         |         |         |                   |
|                  | 1,122                                            | 1,123   | 1,331   | 1,311   | 1,143   | 1,336   | 1,340   | 1,552   | 2,014   | 2,232   | 2,271             |
|                  | 448                                              | 563     | 642     | 706     | 581     | 625     | 656     | 753     | 933     | 1,148   | 1,103             |
|                  | 156                                              | 142     | 229     | 190     | 248     | 310     | 221     | 308     | 537     | 413     | 516               |
|                  | 455                                              | 349     | 398     | 332     | 238     | 307     | 367     | 403     | 436     | 565     | 525               |
|                  | 63                                               | 69      | 62      | 83      | 76      | 94      | 96      | 88      | 108     | 106     | 127               |
| <b>All Types</b> | <b>Gross Floor Area (Thousand Square Metres)</b> |         |         |         |         |         |         |         |         |         |                   |
|                  | 2,524.3                                          | 2,831.2 | 3,327.4 | 2,878.4 | 2,809.9 | 1,655.6 | 1,338.1 | 1,759.8 | 2,308.6 | 2,320.1 | 2,922.1           |
|                  | 556.2                                            | 1,193.5 | 1,257.1 | 1,709.9 | 1,151.2 | 611.7   | 463.2   | 879.6   | 987.7   | 919.5   | 876.5             |
|                  | 662.3                                            | 591.3   | 1,041.8 | 455.6   | 1,174.6 | 608.9   | 238.9   | 260.3   | 380.6   | 283.4   | 654.9             |
|                  | 1,249.0                                          | 925.5   | 948.0   | 635.9   | 429.2   | 360.7   | 577.6   | 568.1   | 872.1   | 1,067.3 | 1,157.0           |
|                  | 56.8                                             | 120.9   | 80.5    | 77.0    | 54.9    | 74.3    | 58.4    | 51.8    | 68.2    | 49.9    | 233.7             |
| <b>All Types</b> | <b>Cost of Construction (Million Dollars)</b>    |         |         |         |         |         |         |         |         |         |                   |
|                  | 2,309.3                                          | 2,556.4 | 3,534.4 | 2,948.4 | 3,323.5 | 1,782.0 | 1,287.4 | 1,758.2 | 2,470.8 | 2,620.0 | 3,952.7           |
|                  | 410.9                                            | 1,027.6 | 1,240.6 | 1,698.9 | 1,029.1 | 539.3   | 400.0   | 763.6   | 835.9   | 919.8   | 966.5             |
|                  | 571.7                                            | 589.9   | 1,421.9 | 656.5   | 1,949.6 | 899.9   | 337.4   | 358.9   | 849.9   | 547.8   | 1,559.3           |
|                  | 1,270.5                                          | 844.3   | 763.0   | 534.0   | 301.5   | 254.8   | 491.4   | 562.9   | 699.4   | 1,045.3 | 1,115.2           |
|                  | 56.2                                             | 94.6    | 108.9   | 59.0    | 43.3    | 88.0    | 58.6    | 72.8    | 85.6    | 107.1   | 311.7             |

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



# 8.13 BUILDING PLAN APPROVALS BY TYPE OF DEVELOPMENT IN THE PRIVATE SECTOR, 1982-1992

|           | 1982                                             | 1983    | 1984    | 1985    | 1986  | 1987    | 1988    | 1989    | 1990    | 1991    | 1992 <sup>P</sup> |
|-----------|--------------------------------------------------|---------|---------|---------|-------|---------|---------|---------|---------|---------|-------------------|
| All Types | Number                                           |         |         |         |       |         |         |         |         |         |                   |
|           | 1,306                                            | 1,533   | 1,669   | 1,322   | 1,207 | 1,457   | 1,894   | 2,230   | 2,988   | 2,732   | 2,643             |
|           | Residential                                      | 595     | 825     | 862     | 652   | 556     | 687     | 985     | 1,132   | 1,487   | 1,292             |
|           | Commercial                                       | 176     | 198     | 260     | 243   | 270     | 337     | 298     | 447     | 657     | 653               |
|           | Industrial                                       | 456     | 422     | 444     | 350   | 296     | 346     | 497     | 538     | 710     | 655               |
|           | Others                                           | 79      | 88      | 103     | 77    | 85      | 87      | 114     | 113     | 134     | 132               |
| All Types | Gross Floor Area (Thousand Square Metres)        |         |         |         |       |         |         |         |         |         |                   |
|           | 3,406.4                                          | 5,538.6 | 2,822.2 | 1,958.7 | 889.1 | 1,178.7 | 1,900.9 | 2,832.9 | 2,836.9 | 3,967.6 | 3,269.7           |
|           | Residential                                      | 1,159.3 | 2,083.1 | 1,132.7 | 880.0 | 483.6   | 535.4   | 988.3   | 1,149.2 | 1,216.5 | 1,078.3           |
|           | Commercial                                       | 1,012.9 | 2,144.6 | 802.0   | 581.4 | 70.6    | 119.7   | 149.6   | 385.0   | 532.3   | 1,500.0           |
|           | Industrial                                       | 1,073.5 | 1,015.9 | 680.5   | 422.4 | 260.5   | 396.7   | 635.5   | 1,080.4 | 870.8   | 1,256.0           |
|           | Others                                           | 160.7   | 295.0   | 207.0   | 74.9  | 74.4    | 126.9   | 127.5   | 218.3   | 217.3   | 133.3             |
| All Types | Estimated Cost of Construction (Million Dollars) |         |         |         |       |         |         |         |         |         |                   |
|           | 3,323.1                                          | 6,396.4 | 2,884.0 | 1,952.7 | 835.2 | 917.0   | 1,648.2 | 2,648.9 | 3,202.6 | 5,774.7 | 4,581.0           |
|           | Residential                                      | 1,179.5 | 2,186.4 | 1,195.4 | 762.5 | 441.6   | 434.6   | 801.7   | 963.9   | 1,204.8 | 1,218.8           |
|           | Commercial                                       | 1,296.2 | 3,216.8 | 1,087.3 | 771.1 | 122.1   | 141.9   | 174.7   | 686.9   | 1,025.0 | 3,215.8           |
|           | Industrial                                       | 767.2   | 890.0   | 505.8   | 345.3 | 194.3   | 286.6   | 578.1   | 885.1   | 705.3   | 1,138.0           |
|           | Others                                           | 80.2    | 103.2   | 95.5    | 73.8  | 77.2    | 53.9    | 93.7    | 113.0   | 267.5   | 202.1             |

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

**8.14 RESIDENTIAL UNITS IN THE PUBLIC SECTOR BY TYPE OF BUILDING  
AND STAGE OF DEVELOPMENT, 1982-1992**

|                  |                                |        |        |        |        |        |        |        |        |        | Number            |
|------------------|--------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|
|                  | 1982                           | 1983   | 1984   | 1985   | 1986   | 1987   | 1988   | 1989   | 1990   | 1991   | 1992 <sup>P</sup> |
| <b>All Types</b> | Planning Approval Stage        |        |        |        |        |        |        |        |        |        |                   |
|                  | 40,793                         | 54,709 | 39,018 | 33,339 | 38,536 | 30,283 | 10,623 | 5,710  | 11,849 | 12,361 | 24,776            |
|                  | Detached                       | 16     | -      | -      | -      | -      | -      | -      | -      | -      | -                 |
|                  | Terrace                        | 12     | -      | -      | -      | 1      | -      | 6      | -      | -      | -                 |
|                  | Flats                          | 40,755 | 54,709 | 38,922 | 33,319 | 37,705 | 29,982 | 10,623 | 5,704  | 11,849 | 24,776            |
|                  | Others                         | 10     | -      | 96     | 20     | 830    | 301    | -      | -      | -      | -                 |
| <b>All Types</b> | Building of Commencement Stage |        |        |        |        |        |        |        |        |        |                   |
|                  | 46,721                         | 59,201 | 39,676 | 31,854 | 26,584 | 13,083 | 10,631 | 10,885 | 16,146 | 20,136 | 24,951            |
|                  | Detached                       | 16     | -      | -      | -      | -      | -      | -      | -      | -      | -                 |
|                  | Terrace                        | 12     | -      | -      | -      | -      | -      | -      | 4      | -      | -                 |
|                  | Flats                          | 46,683 | 59,105 | 39,676 | 31,834 | 26,584 | 13,083 | 10,631 | 16,142 | 20,136 | 24,951            |
|                  | Others                         | 10     | 96     | -      | 20     | -      | -      | -      | -      | -      | -                 |
| <b>All Types</b> | Building Completion Stage      |        |        |        |        |        |        |        |        |        |                   |
|                  | 19,512                         | 19,275 | 78,288 | 59,633 | 38,519 | 32,859 | 29,149 | 12,328 | 10,562 | 10,348 | 18,165            |
|                  | Detached                       | -      | -      | 16     | -      | -      | -      | -      | -      | -      | -                 |
|                  | Terrace                        | -      | -      | 12     | -      | -      | -      | -      | -      | -      | 4                 |
|                  | Flats                          | 19,510 | 19,275 | 78,244 | 59,633 | 38,403 | 32,859 | 28,319 | 10,562 | 10,348 | 18,161            |
|                  | Others                         | 2      | -      | 16     | -      | 116    | -      | 830    | -      | -      | -                 |

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

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



# 8.15 RESIDENTIAL UNITS IN THE PRIVATE SECTOR BY TYPE OF BUILDING AND STAGE OF DEVELOPMENT, 1982-1992

Number

|                                | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992 <sup>P</sup> |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| Planning Approval Stage        |       |       |       |       |       |       |       |       |       |       |                   |
| <b>All Types</b>               | 6,535 | 8,933 | 6,484 | 2,535 | 2,848 | 3,984 | 6,676 | 5,383 | 6,538 | 5,566 | 10,512            |
| Detached                       | 213   | 291   | 289   | 174   | 137   | 202   | 234   | 201   | 191   | 175   | 244               |
| Semi-detached                  | 275   | 566   | 912   | 192   | 290   | 457   | 396   | 451   | 312   | 276   | 594               |
| Terrace                        | 227   | 1,030 | 1,396 | 384   | 765   | 1,562 | 2,119 | 1,374 | 1,012 | 721   | 834               |
| Flats                          | 5,820 | 7,035 | 3,883 | 1,785 | 1,649 | 1,752 | 3,926 | 1,298 | 1,486 | 1,231 | 2,330             |
| Condominium                    | -     | 11    | 4     | -     | 7     | 11    | 1     | 2,059 | 3,537 | 3,163 | 6,510             |
| Others                         | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -                 |
| Building Plan Approval Stage   |       |       |       |       |       |       |       |       |       |       |                   |
| <b>All Types</b>               | 4,817 | 9,436 | 4,461 | 3,777 | 2,074 | 2,051 | 3,988 | 4,769 | 4,570 | 4,327 | 6,714             |
| Detached                       | 149   | 239   | 273   | 165   | 75    | 126   | 173   | 194   | 156   | 149   | 167               |
| Semi-detached                  | 166   | 418   | 477   | 528   | 235   | 336   | 382   | 321   | 368   | 251   | 397               |
| Terrace                        | 233   | 639   | 663   | 824   | 504   | 655   | 1,802 | 1,233 | 1,359 | 759   | 869               |
| Flats                          | 4,264 | 8,132 | 3,045 | 2,259 | 1,253 | 934   | 1,629 | 716   | 1,306 | 959   | 1,231             |
| Condominium                    | -     | -     | -     | -     | -     | -     | -     | 2,305 | 1,381 | 2,209 | 4,050             |
| Others                         | 5     | 8     | 3     | 1     | 7     | -     | 2     | -     | -     | -     | -                 |
| Building of Commencement Stage |       |       |       |       |       |       |       |       |       |       |                   |
| <b>All Types</b>               | 7,829 | 7,465 | 2,929 | 2,107 | 991   | 3,246 | 4,720 | 5,669 | 3,346 | 6,616 | 8,412             |
| Detached                       | 149   | 223   | 211   | 107   | 53    | 108   | 217   | 153   | 155   | 154   | 201               |
| Semi-detached                  | 170   | 487   | 430   | 420   | 183   | 461   | 350   | 336   | 387   | 261   | 375               |
| Terrace                        | 270   | 836   | 504   | 544   | 422   | 1,225 | 1,654 | 1,620 | 744   | 810   | 573               |
| Flats                          | 7,239 | 5,906 | 1,781 | 1,035 | 326   | 1,451 | 2,498 | 1,149 | 1,270 | 1,325 | 1,260             |
| Condominium                    | -     | -     | -     | -     | -     | -     | -     | 2,411 | 790   | 4,066 | 6,003             |
| Others                         | 1     | 13    | 3     | 1     | 7     | 1     | 1     | -     | -     | -     | -                 |
| Building Completion Stage      |       |       |       |       |       |       |       |       |       |       |                   |
| <b>All Types</b>               | 2,476 | 4,919 | 5,441 | 7,388 | 5,173 | 2,295 | 1,705 | 3,741 | 3,647 | 3,520 | 3,446             |
| Detached                       | 124   | 161   | 144   | 179   | 109   | 157   | 85    | 135   | 168   | 145   | 120               |
| Semi-detached                  | 229   | 357   | 290   | 377   | 385   | 275   | 345   | 376   | 348   | 347   | 279               |
| Terrace                        | 183   | 481   | 365   | 674   | 365   | 457   | 625   | 882   | 1,227 | 1,426 | 869               |
| Flats                          | 1,880 | 3,902 | 4,595 | 6,150 | 4,312 | 1,393 | 650   | 575   | 675   | 868   | 691               |
| Condominium                    | -     | -     | -     | -     | -     | -     | -     | 1,773 | 1,229 | 734   | 1,487             |
| Others                         | 60    | 18    | 47    | 8     | 2     | 13    | -     | -     | -     | -     | -                 |

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

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

# 8.16 PROPERTIES UNDER THE MANAGEMENT OF HOUSING AND DEVELOPMENT BOARD, 1982-1992

| End of Year | Residential |        |        |         |         |        |                        |                   | Number              |
|-------------|-------------|--------|--------|---------|---------|--------|------------------------|-------------------|---------------------|
|             | Total       | 1-room | 2-room | 3-room  | 4-room  | 5-room | Executive <sup>2</sup> | HUDC <sup>3</sup> | Shops <sup>1</sup>  |
| 1982        | 399,935     | 65,908 | 48,644 | 190,688 | 65,521  | 26,442 | -                      | 2,732             | 16,784              |
| 1983        | 430,169     | 60,982 | 48,563 | 203,116 | 81,082  | 31,345 | 1,867                  | 3,214             | 18,729              |
| 1984        | 506,340     | 60,283 | 48,622 | 229,671 | 116,764 | 40,678 | 5,400                  | 4,922             | 21,209              |
| 1985        | 551,767     | 60,105 | 48,566 | 242,878 | 139,136 | 45,097 | 8,266                  | 7,719             | 25,175              |
| 1986        | 585,445     | 58,957 | 48,002 | 252,039 | 157,902 | 51,484 | 11,454                 | 5,607             | 25,896              |
| 1987        | 612,826     | 58,237 | 47,713 | 256,648 | 171,557 | 58,776 | 14,288                 | 5,607             | 26,136              |
| 1988        | 630,645     | 53,356 | 46,590 | 254,449 | 185,709 | 66,864 | 18,070                 | 5,607             | 26,637              |
| 1989        | 610,955     | 28,741 | 42,226 | 252,541 | 193,538 | 69,435 | 19,002                 | 5,472             | 30,553              |
| 1990        | 623,821     | 28,697 | 42,206 | 252,044 | 202,046 | 71,754 | 21,602                 | 5,472             | 30,473              |
| 1991        | 626,313     | 28,125 | 38,445 | 248,358 | 207,773 | 74,714 | 23,426                 | 5,472             | 30,594              |
| 1992        | 641,016     | 27,470 | 36,671 | 247,030 | 211,455 | 83,213 | 29,713                 | 5,464             | 30,691 <sup>4</sup> |

<sup>1</sup> Include industrial units.

<sup>2</sup> From 1987, figures include multi-generation flats.

<sup>3</sup> From 1989, figures include landed properties.

<sup>4</sup> Figures exclude 97 sold industrial units.

Source : Housing & Development Board



# 8.17 RESIDENTIAL UNITS CONSTRUCTED AND SOLD BY HOUSING AND DEVELOPMENT BOARD, 1982-1992

| Year | Flats Constructed   | Flats Sold Under<br>'Home Ownership Scheme' <sup>1</sup> | Percentage of Population<br>Living in Public Flats <sup>3</sup><br>(End of Period) |
|------|---------------------|----------------------------------------------------------|------------------------------------------------------------------------------------|
|      | Number              |                                                          |                                                                                    |
| 1982 | 19,532              | 21,403                                                   | 75                                                                                 |
| 1983 | 40,062              | 34,013                                                   | 77                                                                                 |
| 1984 | 67,017              | 81,823                                                   | 81                                                                                 |
| 1985 | 46,370 <sup>2</sup> | 34,856                                                   | 84                                                                                 |
| 1986 | 38,907 <sup>2</sup> | 30,575                                                   | 85                                                                                 |
| 1987 | 29,008              | 25,635                                                   | 86                                                                                 |
| 1988 | 27,071              | 40,688                                                   | 87                                                                                 |
| 1989 | 11,793              | 17,986                                                   | 88                                                                                 |
| 1990 | 13,739              | 13,692                                                   | 87                                                                                 |
| 1991 | 10,452              | 15,002                                                   | 87                                                                                 |
| 1992 | 18,578              | 19,188                                                   | 87                                                                                 |

1 From 1989, figures include HUDC units.

2 Include middle-income housing units completed by Urban Redevelopment Authority.

3 From 1990 onwards, data refer to resident population.

Source : Housing & Development Board

# 8.18 CONTRACTS AWARDED BY SECTOR AND TYPE OF WORK, 1982-1992

Million Dollars

| Sector / Type of Work  | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992 <sup>P</sup> |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|
| <b>Both Sectors</b>    | 9,222.5 | 9,609.9 | 6,962.6 | 4,836.4 | 3,897.7 | 4,040.2 | 3,390.7 | 5,500.6 | 8,034.3 | 7,873.5 | 12,540.7          |
| Building Work          | 8,437.1 | 7,983.5 | 4,682.4 | 2,871.8 | 2,273.2 | 2,903.6 | 2,709.9 | 4,296.5 | 6,838.8 | 6,597.2 | 10,758.9          |
| Residential            | 3,942.7 | 3,876.8 | 2,721.0 | 1,672.6 | 1,492.4 | 1,638.8 | 1,585.9 | 1,737.0 | 2,695.3 | 2,685.0 | 5,094.7           |
| Commerical             | 2,941.7 | 2,377.8 | 513.0   | 223.9   | 105.1   | 145.5   | 256.2   | 967.4   | 2,050.2 | 1,774.1 | 3,443.1           |
| Industrial             | 966.9   | 699.7   | 455.1   | 160.9   | 135.4   | 540.9   | 410.7   | 893.1   | 1,004.2 | 1,220.9 | 1,437.7           |
| Others                 | 585.7   | 1,029.2 | 993.3   | 814.3   | 540.3   | 578.4   | 457.2   | 699.1   | 1,089.1 | 917.1   | 783.5             |
| Civil Engineering Work | 785.4   | 1,626.4 | 2,280.2 | 1,964.6 | 1,624.5 | 1,136.6 | 680.8   | 1,204.1 | 1,195.6 | 1,276.3 | 1,781.7           |
| <b>Private Sector</b>  | 4,539.0 | 4,151.0 | 1,493.5 | 683.9   | 385.1   | 1,264.5 | 1,586.5 | 2,689.9 | 4,337.5 | 4,019.5 | 6,537.7           |
| Building Work          | 4,539.0 | 4,151.0 | 1,493.5 | 683.9   | 380.9   | 1,255.4 | 1,449.8 | 2,655.1 | 4,275.2 | 4,004.6 | 6,458.7           |
| Residential            | 1,566.5 | 1,305.1 | 626.9   | 353.7   | 154.6   | 573.0   | 812.9   | 841.9   | 1,241.0 | 1,147.0 | 1,891.3           |
| Commerical             | 2,296.0 | 2,231.0 | 386.4   | 121.1   | 50.6    | 89.3    | 222.9   | 903.1   | 1,930.5 | 1,714.7 | 3,204.4           |
| Industrial             | 624.7   | 542.8   | 413.2   | 152.4   | 124.1   | 503.9   | 338.5   | 728.6   | 766.8   | 1,024.4 | 1,228.5           |
| Others                 | 51.8    | 72.1    | 67.1    | 56.8    | 51.7    | 89.3    | 75.6    | 181.6   | 337.0   | 118.5   | 134.4             |
| Civil Engineering Work | -       | -       | -       | -       | 4.2     | 9.1     | 136.7   | 34.8    | 62.3    | 14.9    | 79.1              |
| <b>Public Sector</b>   | 4,683.5 | 5,458.8 | 5,469.1 | 4,152.4 | 3,512.6 | 2,775.7 | 1,804.2 | 2,810.7 | 3,696.8 | 3,854.0 | 6,002.9           |
| Building Work          | 3,898.1 | 3,832.5 | 3,188.8 | 2,187.9 | 1,892.3 | 1,648.2 | 1,260.1 | 1,641.4 | 2,563.5 | 2,592.5 | 4,300.2           |
| Residential            | 2,376.2 | 2,571.7 | 2,094.1 | 1,318.9 | 1,337.9 | 1,065.8 | 773.1   | 895.1   | 1,454.3 | 1,538.0 | 3,203.4           |
| Commerical             | 645.8   | 146.8   | 126.7   | 102.9   | 54.5    | 56.2    | 33.3    | 64.3    | 119.6   | 59.4    | 238.6             |
| Industrial             | 342.2   | 156.9   | 41.9    | 8.5     | 11.4    | 37.0    | 72.2    | 164.5   | 237.5   | 196.5   | 209.1             |
| Others                 | 533.9   | 957.2   | 926.1   | 757.6   | 488.6   | 489.1   | 381.6   | 517.5   | 752.1   | 798.6   | 649.1             |
| Civil Engineering Work | 785.4   | 1,626.4 | 2,280.2 | 1,964.6 | 1,620.3 | 1,127.5 | 544.1   | 1,169.3 | 1,133.2 | 1,261.4 | 1,702.7           |

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



# 8.19 PROGRESS PAYMENTS CERTIFIED BY SECTOR AND TYPE OF WORK, 1982-1992

Million Dollars

| Sector / Type of Work  | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992 <sup>P</sup> |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|
| <b>Both Sectors</b>    | 6,157.8 | 8,193.3 | 8,503.2 | 6,647.3 | 5,422.0 | 4,677.8 | 3,942.0 | 4,314.3 | 4,916.4 | 6,819.8 | 8,845.8           |
| Building Work          | 5,181.9 | 7,187.2 | 7,309.7 | 5,271.0 | 3,412.8 | 2,658.7 | 2,685.2 | 3,254.8 | 3,950.1 | 5,539.2 | 7,297.7           |
| Residential            | 2,330.4 | 3,988.9 | 4,125.7 | 2,832.6 | 1,835.6 | 1,476.4 | 1,409.1 | 1,517.3 | 1,673.3 | 2,276.8 | 3,084.1           |
| Commerical             | 1,022.8 | 1,608.8 | 1,683.0 | 1,171.0 | 562.5   | 337.7   | 215.7   | 501.8   | 787.9   | 1,305.1 | 2,010.0           |
| Industrial             | 1,134.0 | 890.1   | 717.9   | 388.9   | 217.3   | 299.1   | 534.6   | 602.4   | 891.1   | 1,139.6 | 1,325.6           |
| Others                 | 694.7   | 699.4   | 783.1   | 878.4   | 797.4   | 545.5   | 525.7   | 633.3   | 597.9   | 817.8   | 878.0             |
| Civil Engineering Work | 975.9   | 1,006.0 | 1,193.5 | 1,376.3 | 2,009.2 | 2,019.0 | 1,256.8 | 1,059.5 | 966.3   | 1,280.5 | 1,548.1           |
| <b>Private Sector</b>  | 2,526.9 | 3,267.0 | 3,366.3 | 2,335.7 | 1,173.9 | 925.6   | 1,291.5 | 1,987.3 | 2,400.3 | 3,438.7 | 4,588.2           |
| Building Work          | 2,526.9 | 3,267.0 | 3,366.3 | 2,335.7 | 1,168.9 | 909.7   | 1,237.4 | 1,787.8 | 2,325.8 | 3,336.6 | 4,467.4           |
| Residential            | 891.5   | 1,242.4 | 1,324.1 | 955.7   | 438.6   | 362.1   | 513.5   | 719.5   | 821.6   | 979.9   | 1,224.8           |
| Commerical             | 749.4   | 1,309.0 | 1,391.9 | 974.8   | 466.5   | 203.4   | 165.6   | 463.4   | 707.7   | 1,221.3 | 1,911.0           |
| Industrial             | 811.2   | 641.1   | 555.5   | 348.9   | 207.2   | 279.7   | 489.2   | 525.9   | 690.7   | 953.2   | 1,114.7           |
| Others                 | 74.8    | 74.5    | 94.7    | 56.2    | 56.6    | 64.7    | 69.1    | 79.0    | 105.8   | 182.3   | 216.8             |
| Civil Engineering Work | -       | -       | -       | -       | 5.0     | 15.9    | 54.2    | 199.4   | 74.5    | 102.1   | 120.8             |
| <b>Public Sector</b>   | 3,631.0 | 4,926.3 | 5,136.9 | 4,311.6 | 4,248.1 | 3,752.2 | 2,650.5 | 2,327.1 | 2,516.1 | 3,381.1 | 4,257.6           |
| Building Work          | 2,655.1 | 3,920.3 | 3,943.4 | 2,935.3 | 2,243.9 | 1,749.0 | 1,447.8 | 1,466.9 | 1,624.3 | 2,202.6 | 2,830.3           |
| Residential            | 1,438.8 | 2,746.5 | 2,801.6 | 1,876.8 | 1,397.0 | 1,114.4 | 895.6   | 797.8   | 851.6   | 1,296.9 | 1,859.3           |
| Commerical             | 273.4   | 299.8   | 291.1   | 196.2   | 96.0    | 134.4   | 50.2    | 38.4    | 80.2    | 83.7    | 99.0              |
| Industrial             | 322.9   | 249.0   | 162.4   | 40.0    | 10.1    | 19.5    | 45.4    | 76.5    | 200.4   | 186.5   | 210.9             |
| Others                 | 619.9   | 625.0   | 688.4   | 822.2   | 740.8   | 480.8   | 456.6   | 554.3   | 492.1   | 635.5   | 661.1             |
| Civil Engineering Work | 975.9   | 1,006.0 | 1,193.5 | 1,376.3 | 2,004.2 | 2,003.2 | 1,202.7 | 860.1   | 891.8   | 1,178.5 | 1,427.3           |

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

## 9 COMMERCE AND SERVICES



## 9 COMMERCE AND SERVICES

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

### Scope and Coverage

The Survey of Services covers all establishments including statutory boards and non-profit organisations engaged in transport, storage and communications, financial, insurance, real estate and business services and community, social and personal services as classified under Major Divisions 7, 8 and 9 of the "Singapore Standard Industrial Classification (SSIC)". Government ministries and departments, foreign missions, political parties, taxi and trishaw operators, independent artistes and domestic servants are outside the scope of the survey. From the reference year 1986, establishments engaged in financial activities such as banking, financial, stock-broking and insurance services are surveyed by the Monetary Authority of Singapore.

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

Prior to 1976, both surveys were conducted on a census basis. From 1976, they were sample surveys, except for the years 1983 and 1984, where censuses of commerce and services were respectively taken again. For sample surveys, stratified sampling by industry was adopted. Within each industry, establishments with large operating receipts were selected with certainty and the rest were sampled.

The statistical unit used in both surveys is the establishment. A separate return is normally required from each branch of a multi-activity firm, organisation or enterprise. However, a consolidated return is allowed if the accounts are so kept that it is not possible for the respondent to comply.

### Definitions

*Establishment* : Refers to a business or organisation unit engaged in one activity and generally operating in a single location.

**Employment :** Refers to the total number of persons engaged including part-time employees, working proprietors and partners, working directors and unpaid family workers as at 30 June of the reference year. It includes those temporarily away on leave.

**Remuneration :** Refers to the amount paid to employees in the form of wages and salaries, bonuses and allowances, CPF/ pension fund contributions and that given to unpaid family workers and directors as allowances, fees and benefits in kind.

**Turnover/Operating Receipts :** Refers to the total receipts and receivables from sales of goods and services including commissions and brokerage fees, insurance premiums and rental income. For financial institutions, operating receipts include interest, dividend income and gains from transactions in stocks and shares and foreign exchange.

**Operating Expenditure :** Refers to the aggregate of all current expenditure after adjustment for changes in stocks and work-in-progress. For insurance companies, claims, surrenders, cash bonus and annuities paid and increases in insurance funds or liability reserves are also included in operating expenditure.

**Operating Surplus :** Refers to the amount of operating receipts less operating expenditure plus depreciation of fixed assets. For local offices of foreign airlines and foreign shipping lines, representative offices of foreign banks and

companies and non-profit organisations, operating surplus refers only to depreciation of fixed assets.

**Value Added :** Comprises the value of operating surplus, remuneration and indirect taxes. However, for financial and insurance services, value added is computed on a different basis. For the Monetary Authority of Singapore, Board of Commissioners of Currency, Central Provident Fund Board and investment companies, value added is the sum of remuneration, depreciation allowances and indirect taxes. For other financial institutions, value added refers to the sum of operating surplus, remuneration and indirect taxes less dividends received, and net gains from stocks and share transactions, commodity and financial futures and gold trading. For insurance companies, value added refers to the sum of operating surplus, remuneration, and imputed amount of commissions paid, interest payments and indirect taxes less interest and dividends received and net gains from foreign exchange, stocks and share transactions as well as gold trading.

### **Sales Indices of Retail and Catering Trade**

The sales indices of retail and catering trade are compiled from the results of the Retail and Catering Trade Sales Survey first started in 1985. The survey covers a sample of retail establishments which are defined as those selling merchandise directly to the consumers and catering



establishments which are defined as those selling prepared food and drinks for in-premises consumption or on a take-away basis such as restaurants, fast food outlets, coffee houses, cafes, coffee shops, creameries, snack bars, canteens and food caterers. Hawkers and stall holders selling cooked food and prepared drinks are not considered as catering establishments.

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

The overall indices are compiled by assigning weights to the key establishments based on their turnover in the base year. Two series of the indices are compiled and presented,

one in current prices and the other in constant prices for which the effects of price changes are discounted. The base year of the index is 1991.

Further information on the concepts and methodology and detailed statistics prior to the 1990 reference year may be obtained from the "Report on the Survey of Services", and the "Report on the Survey of Wholesale Trade, Retail Trade, Restaurants and Hotels". For the 1990 reference year, they can be obtained from the various industry-specific reports under the Economic Survey Series, viz "Transport & Communications", "Real Estate & Business Services", "Community, Social & Personal Services", "Wholesale & Retail", "Hotels & Catering" and "The Services Sector".

# 9.1 PRINCIPAL STATISTICS OF THE COMMERCE SECTOR BY INDUSTRY, 1986-1990

| Year | Establishments         | Employment | Remuneration    | Turnover | Operating Expenditure | Operating Surplus | Value Added |        |
|------|------------------------|------------|-----------------|----------|-----------------------|-------------------|-------------|--------|
|      | Number                 |            | Million Dollars |          |                       |                   |             |        |
|      | Total                  |            |                 |          |                       |                   |             |        |
|      | 1986                   | 36,621     | 219,972         | 2,799    | 73,873                | 72,417            | 1,930       | 4,866  |
|      | 1987                   | 38,121     | 227,229         | 2,956    | 92,870                | 90,706            | 2,692       | 5,818  |
|      | 1988                   | 41,600     | 248,504         | 3,472    | 111,935               | 108,770           | 3,767       | 7,470  |
|      | 1989                   | 43,455     | 265,329         | 4,219    | 137,901               | 133,787           | 4,822       | 9,290  |
|      | 1990                   | 43,277     | 279,800         | 5,111    | 183,930               | 178,581           | 6,187       | 11,646 |
|      | Wholesale Trade        |            |                 |          |                       |                   |             |        |
|      | 1986                   | 18,166     | 103,772         | 1,813    | 62,157                | 61,067            | 1,368       | 3,238  |
|      | 1987                   | 18,582     | 105,023         | 1,901    | 79,013                | 77,455            | 1,857       | 3,817  |
|      | 1988                   | 20,448     | 113,059         | 2,220    | 94,510                | 92,311            | 2,546       | 4,834  |
| 1989 | 21,576                 | 123,560    | 2,735           | 117,921  | 115,156               | 3,183             | 5,987       |        |
| 1990 | 22,439                 | 136,133    | 3,383           | 162,966  | 159,022               | 4,445             | 7,920       |        |
|      | Retail Trade           |            |                 |          |                       |                   |             |        |
|      | 1986                   | 15,503     | 63,103          | 451      | 9,581                 | 9,291             | 358         | 843    |
|      | 1987                   | 16,535     | 66,452          | 496      | 11,430                | 10,950            | 558         | 1,114  |
|      | 1988                   | 17,992     | 73,586          | 606      | 14,529                | 13,820            | 804         | 1,510  |
|      | 1989                   | 18,638     | 74,815          | 713      | 16,532                | 15,625            | 1,013       | 1,832  |
|      | 1990                   | 17,708     | 74,875          | 808      | 16,890                | 16,032            | 978         | 1,917  |
|      | Restaurants and Hotels |            |                 |          |                       |                   |             |        |
|      | 1986                   | 2,952      | 53,097          | 535      | 2,135                 | 2,060             | 204         | 786    |
|      | 1987                   | 3,004      | 55,754          | 559      | 2,427                 | 2,302             | 278         | 887    |
|      | 1988                   | 3,160      | 61,859          | 646      | 2,896                 | 2,640             | 417         | 1,127  |
| 1989 | 3,241                  | 66,954     | 771             | 3,448    | 3,006                 | 626               | 1,471       |        |
| 1990 | 3,130                  | 68,792     | 920             | 4,074    | 3,527                 | 764               | 1,809       |        |

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



# 9.2 SELECTED AVERAGES AND RATIOS IN THE COMMERCE SECTOR, 1986-1990

| Year                 | Turnover          | Operating Surplus | Value Added | Value Added<br>Per Person<br>Engaged | Operating Surplus<br>to<br>Turnover | Remuneration<br>to Operating<br>Expenditure | Remuneration<br>to<br>Value Added |
|----------------------|-------------------|-------------------|-------------|--------------------------------------|-------------------------------------|---------------------------------------------|-----------------------------------|
|                      | Per Establishment |                   |             |                                      |                                     |                                             |                                   |
|                      | Thousand Dollars  |                   |             |                                      |                                     |                                             |                                   |
| Total                |                   |                   |             |                                      |                                     |                                             |                                   |
| 1986                 | 2,017             | 53                | 133         | 22                                   | 2.6                                 | 3.9                                         | 57.5                              |
| 1987                 | 2,436             | 71                | 153         | 26                                   | 2.9                                 | 3.3                                         | 50.8                              |
| 1988                 | 2,691             | 91                | 180         | 30                                   | 3.4                                 | 3.2                                         | 46.5                              |
| 1989                 | 3,173             | 111               | 214         | 35                                   | 3.5                                 | 3.2                                         | 45.4                              |
| 1990                 | 4,250             | 143               | 269         | 42                                   | 3.4                                 | 2.9                                         | 43.9                              |
| Wholesale Trade      |                   |                   |             |                                      |                                     |                                             |                                   |
| 1986                 | 3,422             | 75                | 178         | 31                                   | 2.2                                 | 3.0                                         | 56.0                              |
| 1987                 | 4,252             | 100               | 205         | 36                                   | 2.4                                 | 2.5                                         | 49.8                              |
| 1988                 | 4,622             | 125               | 236         | 43                                   | 2.7                                 | 2.4                                         | 45.9                              |
| 1989                 | 5,465             | 148               | 277         | 48                                   | 2.7                                 | 2.4                                         | 45.7                              |
| 1990                 | 7,263             | 198               | 353         | 58                                   | 2.7                                 | 2.1                                         | 42.7                              |
| Retail Trade         |                   |                   |             |                                      |                                     |                                             |                                   |
| 1986                 | 618               | 23                | 54          | 13                                   | 3.7                                 | 4.9                                         | 53.5                              |
| 1987                 | 691               | 34                | 67          | 17                                   | 4.9                                 | 4.5                                         | 44.5                              |
| 1988                 | 808               | 45                | 84          | 21                                   | 5.5                                 | 4.4                                         | 40.1                              |
| 1989                 | 887               | 54                | 98          | 24                                   | 6.1                                 | 4.6                                         | 38.9                              |
| 1990                 | 954               | 55                | 108         | 26                                   | 5.8                                 | 5.0                                         | 42.1                              |
| Restaurants & Hotels |                   |                   |             |                                      |                                     |                                             |                                   |
| 1986                 | 723               | 69                | 266         | 15                                   | 9.6                                 | 26.0                                        | 68.1                              |
| 1987                 | 808               | 92                | 295         | 16                                   | 11.4                                | 24.3                                        | 63.0                              |
| 1988                 | 916               | 132               | 357         | 18                                   | 14.4                                | 24.5                                        | 57.4                              |
| 1989                 | 1,064             | 193               | 454         | 22                                   | 18.1                                | 25.6                                        | 52.4                              |
| 1990                 | 1,302             | 244               | 578         | 26                                   | 18.8                                | 26.1                                        | 50.9                              |

### 9.3 PRINCIPAL STATISTICS OF THE SERVICE SECTOR BY INDUSTRY, 1986-1990

| Year | Establishments                                | Employment | Remuneration    | Operating Receipts | Operating Expenditure | Operating Surplus | Value Added |       |
|------|-----------------------------------------------|------------|-----------------|--------------------|-----------------------|-------------------|-------------|-------|
|      | Number                                        |            | Million Dollars |                    |                       |                   |             |       |
|      | Transport, Storage and Communication Services |            |                 |                    |                       |                   |             |       |
|      | 1986                                          | 5,611      | 87,286          | 1,736              | 12,147                | 10,346            | 2,851       | 4,779 |
|      | 1987                                          | 5,757      | 89,263          | 1,866              | 13,612                | 10,908            | 3,488       | 5,561 |
|      | 1988                                          | 5,958      | 90,837          | 2,072              | 15,081                | 11,622            | 4,291       | 6,592 |
|      | 1989                                          | 5,877      | 96,949          | 2,486              | 17,322                | 13,399            | 4,827       | 7,576 |
|      | 1990                                          | 5,970      | 99,719          | 2,747              | 18,794                | 14,890            | 5,031       | 8,059 |
|      | Financial and Insurance Services <sup>1</sup> |            |                 |                    |                       |                   |             |       |
|      | 1986                                          | 2,417      | 9,689           | 233                | 6,387                 | 3,481             | 2,960       | 607   |
|      | 1987                                          | 2,341      | 9,972           | 246                | 7,230                 | 3,127             | 4,151       | 792   |
|      | 1988                                          | 2,454      | 10,264          | 288                | 6,805                 | 3,478             | 3,392       | 675   |
| 1989 | 2,632                                         | 10,928     | 318             | 8,551              | 5,051                 | 3,584             | 885         |       |
| 1990 | 2,724                                         | 11,733     | 386             | 10,970             | 6,266                 | 4,786             | 1,006       |       |
|      | Real Estate and Business Services             |            |                 |                    |                       |                   |             |       |
|      | 1986                                          | 8,918      | 70,807          | 1,267              | 10,602                | 8,251             | 2,739       | 4,305 |
|      | 1987                                          | 8,763      | 68,946          | 1,244              | 8,944                 | 7,167             | 2,224       | 3,738 |
|      | 1988                                          | 9,469      | 71,892          | 1,474              | 12,821                | 11,317            | 1,960       | 3,720 |
|      | 1989                                          | 9,629      | 75,115          | 1,787              | 13,162                | 10,580            | 3,043       | 5,156 |
|      | 1990                                          | 10,943     | 90,142          | 2,273              | 16,639                | 13,452            | 3,790       | 6,496 |
|      | Community, Social and Personal Services       |            |                 |                    |                       |                   |             |       |
|      | 1986                                          | 8,408      | 47,613          | 481                | 1,917                 | 1,635             | 365         | 931   |
|      | 1987                                          | 8,635      | 49,630          | 518                | 2,335                 | 2,027             | 398         | 940   |
|      | 1988                                          | 9,538      | 55,384          | 602                | 2,690                 | 2,353             | 437         | 1,071 |
| 1989 | 9,800                                         | 63,597     | 840             | 3,278              | 2,952                 | 465               | 1,338       |       |
| 1990 | 9,013                                         | 57,688     | 972             | 3,628              | 3,325                 | 470               | 1,477       |       |
|      | Non-profit Organisations <sup>2</sup>         |            |                 |                    |                       |                   |             |       |
|      | 1986                                          | 5,192      | 37,884          | 769                | 279                   | 1,446             | 118         | 906   |
|      | 1987                                          | 4,365      | 37,726          | 786                | 470                   | 1,578             | 158         | 969   |
|      | 1988                                          | 4,689      | 39,213          | 922                | 564                   | 1,873             | 169         | 1,129 |
|      | 1989                                          | 4,856      | 41,898          | 1,041              | 774                   | 2,155             | 186         | 1,280 |
|      | 1990                                          | 4,436      | 40,283          | 1,103              | 1,047                 | 2,445             | 197         | 1,371 |

<sup>1</sup> Data exclude establishments within the purview of Monetary Authority of Singapore (MAS).

<sup>2</sup> With effect from 1987, data exclude mutual benefit organisations, citizens' consultative committees & residents' committees.



**9.4 SELECTED AVERAGES AND RATIOS IN THE SERVICES SECTOR, 1986-1990**  
(Excluding Non-Profit Organisations)

| Year                                           | Operating Receipts | Operating Surplus | Value Added | Value Added<br>Per Person<br>Engaged | Operating Surplus<br>to<br>Operating Receipts | Remuneration<br>to Operating<br>Expenditure | Remuneration<br>to<br>Value Added |
|------------------------------------------------|--------------------|-------------------|-------------|--------------------------------------|-----------------------------------------------|---------------------------------------------|-----------------------------------|
|                                                | Per Establishment  |                   |             |                                      |                                               |                                             |                                   |
|                                                | Thousand Dollars   |                   |             |                                      |                                               |                                             |                                   |
|                                                |                    |                   |             |                                      | Per Cent                                      |                                             |                                   |
| Total                                          |                    |                   |             |                                      |                                               |                                             |                                   |
| 1986                                           | 1,225              | 352               | 419         | 49                                   | 28.7                                          | 15.7                                        | 35.0                              |
| 1987                                           | 1,260              | 402               | 433         | 51                                   | 31.9                                          | 16.7                                        | 35.1                              |
| 1988                                           | 1,364              | 368               | 440         | 53                                   | 27.0                                          | 15.4                                        | 36.8                              |
| 1989                                           | 1,515              | 427               | 535         | 61                                   | 28.2                                          | 17.0                                        | 36.3                              |
| 1990                                           | 1,746              | 491               | 595         | 66                                   | 28.1                                          | 16.8                                        | 37.4                              |
| Transport, Storage<br>& Communication Services |                    |                   |             |                                      |                                               |                                             |                                   |
| 1986                                           | 2,165              | 508               | 852         | 55                                   | 23.5                                          | 16.8                                        | 36.3                              |
| 1987                                           | 2,364              | 606               | 966         | 62                                   | 25.6                                          | 17.1                                        | 33.6                              |
| 1988                                           | 2,531              | 720               | 1,106       | 73                                   | 28.5                                          | 17.8                                        | 31.4                              |
| 1989                                           | 2,947              | 821               | 1,289       | 78                                   | 27.9                                          | 18.6                                        | 32.8                              |
| 1990                                           | 3,148              | 843               | 1,350       | 81                                   | 26.8                                          | 18.4                                        | 34.1                              |
| Financial & Insurance Services <sup>1</sup>    |                    |                   |             |                                      |                                               |                                             |                                   |
| 1986                                           | 2,643              | 1,225             | 251         | 63                                   | 46.3                                          | 6.7                                         | 38.4                              |
| 1987                                           | 3,088              | 1,773             | 338         | 79                                   | 57.4                                          | 7.9                                         | 31.0                              |
| 1988                                           | 2,773              | 1,382             | 275         | 66                                   | 49.8                                          | 8.3                                         | 42.6                              |
| 1989                                           | 3,249              | 1,362             | 336         | 81                                   | 41.9                                          | 6.3                                         | 35.9                              |
| 1990                                           | 4,027              | 1,757             | 369         | 86                                   | 43.6                                          | 6.2                                         | 38.4                              |
| Real Estate & Business Services                |                    |                   |             |                                      |                                               |                                             |                                   |
| 1986                                           | 1,189              | 307               | 483         | 61                                   | 25.8                                          | 15.4                                        | 29.4                              |
| 1987                                           | 1,021              | 254               | 427         | 54                                   | 24.9                                          | 17.4                                        | 33.3                              |
| 1988                                           | 1,354              | 207               | 393         | 52                                   | 15.3                                          | 13.0                                        | 39.6                              |
| 1989                                           | 1,367              | 316               | 536         | 69                                   | 23.1                                          | 16.9                                        | 34.7                              |
| 1990                                           | 1,521              | 346               | 594         | 72                                   | 22.8                                          | 16.9                                        | 35.0                              |
| Community, Social<br>& Personal Services       |                    |                   |             |                                      |                                               |                                             |                                   |
| 1986                                           | 228                | 43                | 111         | 20                                   | 19.0                                          | 29.4                                        | 51.7                              |
| 1987                                           | 270                | 46                | 109         | 19                                   | 17.0                                          | 25.5                                        | 55.1                              |
| 1988                                           | 282                | 46                | 112         | 19                                   | 16.2                                          | 25.6                                        | 56.2                              |
| 1989                                           | 335                | 47                | 137         | 21                                   | 14.2                                          | 28.5                                        | 62.8                              |
| 1990                                           | 403                | 52                | 164         | 26                                   | 13.0                                          | 29.2                                        | 65.8                              |

<sup>1</sup> Data exclude establishments within the purview of MAS.

**9.5 RETAIL SALES INDEX, 1985-1992**  
(1991 = 100)

|                      | Total  | Textiles<br>& Personal<br>Effects | Furniture<br>& Household<br>Equipment | Motor<br>Vehicles | Petrol<br>Service<br>Stations | Department<br>Stores &<br>Supermarkets | Provision<br>& Sundry<br>Shops | Others |
|----------------------|--------|-----------------------------------|---------------------------------------|-------------------|-------------------------------|----------------------------------------|--------------------------------|--------|
| Weights              | 10,000 | 2,043                             | 1,160                                 | 1,913             | 505                           | 1,766                                  | 853                            | 1,760  |
| Period               |        |                                   |                                       |                   |                               |                                        |                                |        |
| Current Price Index  |        |                                   |                                       |                   |                               |                                        |                                |        |
| 1985                 | 59.3   | 83.9                              | 91.5                                  | 22.2              | 84.4                          | 56.6                                   | 95.1                           | 71.9   |
| 1986                 | 52.0   | 61.0                              | 73.3                                  | 17.7              | 64.0                          | 60.6                                   | 91.4                           | 71.4   |
| 1987                 | 67.1   | 85.1                              | 80.4                                  | 32.6              | 66.8                          | 73.1                                   | 101.1                          | 80.4   |
| 1988                 | 86.4   | 98.0                              | 82.5                                  | 81.6              | 63.2                          | 86.3                                   | 98.8                           | 92.2   |
| 1989                 | 97.3   | 103.7                             | 87.9                                  | 102.8             | 76.3                          | 97.4                                   | 94.4                           | 98.0   |
| 1990                 | 99.6   | 111.2                             | 94.1                                  | 97.0              | 91.7                          | 100.1                                  | 98.6                           | 100.4  |
| 1991                 | 100.0  | 100.0                             | 100.0                                 | 100.0             | 100.0                         | 100.0                                  | 100.0                          | 100.0  |
| 1992 <sup>P</sup>    | 109.4  | 109.2                             | 101.1                                 | 123.3             | 106.9                         | 103.9                                  | 98.1                           | 104.0  |
| Constant Price Index |        |                                   |                                       |                   |                               |                                        |                                |        |
| 1985                 | 63.1   | 81.0                              | 92.5                                  | 27.8              | 73.4                          | 59.9                                   | 100.8                          | 77.1   |
| 1986                 | 56.1   | 57.2                              | 74.5                                  | 20.4              | 78.0                          | 65.4                                   | 98.8                           | 75.2   |
| 1987                 | 69.2   | 75.7                              | 80.9                                  | 33.6              | 84.9                          | 78.3                                   | 108.0                          | 83.7   |
| 1988                 | 86.6   | 87.5                              | 82.5                                  | 77.3              | 84.8                          | 89.8                                   | 102.8                          | 94.1   |
| 1989                 | 96.4   | 97.9                              | 88.2                                  | 95.9              | 92.2                          | 99.6                                   | 94.9                           | 99.2   |
| 1990                 | 98.5   | 108.9                             | 94.5                                  | 91.1              | 95.6                          | 101.9                                  | 97.4                           | 100.9  |
| 1991                 | 100.0  | 100.0                             | 100.0                                 | 100.0             | 100.0                         | 100.0                                  | 100.0                          | 100.0  |
| 1992 <sup>P</sup>    | 109.7  | 115.2                             | 101.5                                 | 122.1             | 107.6                         | 102.3                                  | 96.8                           | 104.2  |



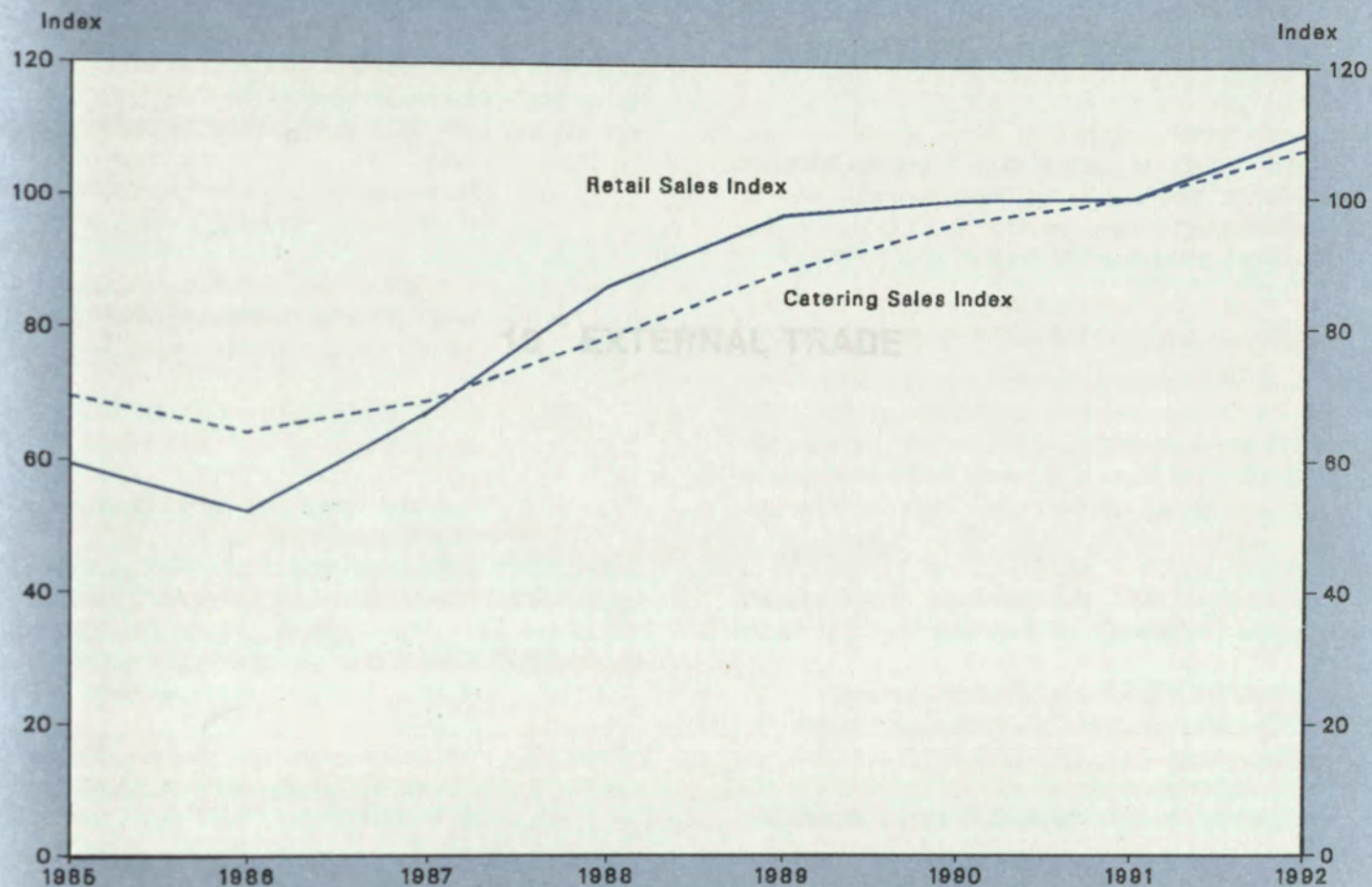
**9.6 SALES INDEX OF CATERING TRADE, 1985-1992**  
(1991 = 100)

|                      |         | Total | Restaurants | Fast Food Outlets | Other Eating Places |
|----------------------|---------|-------|-------------|-------------------|---------------------|
| Period               | Weights | 1,000 | 411         | 134               | 455                 |
| Current Price Index  |         |       |             |                   |                     |
| 1985                 |         | 69.4  | 68.5        | 53.0              | 79.4                |
| 1986                 |         | 64.0  | 63.2        | 54.0              | 71.1                |
| 1987                 |         | 68.8  | 67.8        | 59.9              | 75.8                |
| 1988                 |         | 78.6  | 79.1        | 72.4              | 80.8                |
| 1989                 |         | 88.7  | 90.2        | 81.7              | 88.6                |
| 1990                 |         | 96.2  | 97.4        | 94.0              | 94.6                |
| 1991                 |         | 100.0 | 100.0       | 100.0             | 100.0               |
| 1992                 |         | 107.4 | 107.5       | 111.9             | 104.9               |
| Constant Price Index |         |       |             |                   |                     |
| 1985                 |         | 76.0  | 75.8        | 59.6              | 83.7                |
| 1986                 |         | 70.2  | 70.6        | 59.7              | 74.8                |
| 1987                 |         | 74.7  | 74.5        | 65.2              | 79.8                |
| 1988                 |         | 84.6  | 85.6        | 78.7              | 85.0                |
| 1989                 |         | 93.1  | 95.0        | 87.9              | 91.3                |
| 1990                 |         | 98.0  | 99.1        | 97.4              | 95.9                |
| 1991                 |         | 100.0 | 100.0       | 100.0             | 100.0               |
| 1992                 |         | 104.7 | 104.4       | 109.1             | 103.4               |

Note : Catering trade refers to the sales of prepared food and drinks for in-premises consumption or on a take-away basis. All eating places are included with the exception of hawker stalls.

CHART 9

SALES INDICES OF RETAIL AND CATERING TRADE, 1985-1992  
(At Current Prices)  
(1991 = 100)





## 10 EXTERNAL TRADE

Prior to April 1987, external trade statistics were compiled by the Department of Statistics from the same sources.

In 1987, a new system was introduced to collect and compile external trade statistics. The system is based on data supplied by the Singapore Customs and Excise Department, which is the sole authority for the collection and compilation of external trade statistics.

(i) Postal packages which are based on data supplied by the Singapore Customs and Excise Department, which is the sole authority for the collection and compilation of external trade statistics.

(ii) Goods imported and exported by air or by sea, as reported by the Singapore Customs and Excise Department, which is the sole authority for the collection and compilation of external trade statistics.

(iii) Goods imported and exported by land, as reported by the Singapore Customs and Excise Department, which is the sole authority for the collection and compilation of external trade statistics.

Sources of Data

The data for external trade statistics are derived from the following sources:

- (i) Singapore Customs and Excise Department
- (ii) Singapore Airlines
- (iii) Singapore Shipping Corporation
- (iv) Singapore Land Transport Authority

## 10 EXTERNAL TRADE

### Sources of Data

From April 1987, Singapore's external trade statistics are compiled by the Trade Development Board from import and export permits submitted to the Controller and Registrar of Imports and Exports, or the Director-General of Customs and Excise, Singapore, except for the following:-

- (i) Postal packages which are based on particulars furnished by the Singapore Post Pte Ltd; and
- (ii) Bunkers and stores supplied to non-Singapore registered ships and aircraft, which are compiled from statements furnished by ships and aircraft agents to the Trade Development Board.

Prior to April 1987, external trade statistics were compiled by the Department of Statistics from the same sources.

### Coverage

The "general" system for recording trade statistics is

adopted in Singapore. Under this system, all goods imported into or exported from Singapore are included in the external trade statistics with the following major exceptions:

- (i) Transshipment cargo on through bills of lading or through air waybills;
- (ii) Fish and other marine produce landed by Singapore and Peninsular Malaysian registered vessels direct from sea;
- (iii) Goods imported and exported by, or on behalf of, diplomatic services and Armed Forces;
- (iv) Exposed cinematographic films imported or exported on rental basis;
- (v) Television news films, news or press materials;
- (vi) Ships and aircraft arriving for or departing after repairs;
- (vii) Goods temporarily taken in or out of the country to be returned after a specific purpose eg for exhibition;



- (viii) Personal and household effects accompanying passengers or crews;
- (ix) Samples and specimens for test or analysis; and unaccompanied personal effects and gifts not exceeding the value of \$300;
- (x) Gold bullion and gold coins; and
- (xi) Issued currency notes and coins.

Ships and aircraft are included if they are imported or exported as merchandise whether or not they arrive or depart under their own power.

## Definitions

*Imports* : Refers to all goods brought into Singapore, except those specified as excluded under the **Coverage** section, irrespective of whether they are for consumption, for processing, for use in manufacturing, or for subsequent re-shipment to other countries.

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

*Domestic Exports* : Refers to exports of Singapore origin. It comprises (i) primary commodities grown or produced in Singapore; and (ii) goods which have been transformed, that is, manufactured, assembled or processed in Singapore including those with imported materials or parts.

*Re-exports* : Refers to all goods which are exported from Singapore in the same form as they have been imported without any transformation. Re-packing, splitting into lots, sorting or grading, marking, etc are not considered as undergoing the process of transformation.

*Trade at 1985 Prices* : This is obtained by adjusting the recorded value of trade using import/export price indices with base year 1985 = 100. The series on trade at 1985 prices indicate the true level of trade free of the effect of price changes.

## Valuation

Imports are valued at cif, that is, the value of goods at the frontier of the exporting country plus the cost of insurance and freight to the registration area. Customs duties and other import charges payable in the registration area are not included in the value of imports.

Exports are valued at fob, that is, the value of goods to the purchaser abroad up to the point where the goods are deposited on board the outgoing vessel, aircraft or vehicle.

## Classification

With effect from 1 January 1989, the trade classification adopted for documenting Singapore external trade is the

1989 Singapore Trade Classification and Customs Duties, which is based on the Harmonized System (HS). However, for the publication of external trade statistics, a classification based on the Standard International Trade Classification (Revision 3) is used. Imports are classified by the country of origin and exports by the country of destination.

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



# 10.1 EXTERNAL TRADE BY TYPE, 1982-1992

Million Dollars

|                    | 1982      | 1983      | 1984      | 1985      | 1986      | 1987      | 1988      | 1989      | 1990      | 1991      | 1992      |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| At Current Prices  |           |           |           |           |           |           |           |           |           |           |           |
| <b>Total Trade</b> | 104,717.4 | 105,659.1 | 112,473.6 | 107,996.3 | 104,530.9 | 128,680.9 | 167,278.0 | 183,980.2 | 205,011.9 | 216,074.4 | 220,880.7 |
| Exports            | 44,472.8  | 46,154.9  | 51,340.0  | 50,178.8  | 48,985.5  | 60,265.7  | 79,051.3  | 87,116.5  | 95,206.0  | 101,879.5 | 103,351.0 |
| Oil                | 17,931.3  | 16,010.3  | 16,179.3  | 16,452.2  | 12,361.2  | 12,198.0  | 12,352.8  | 13,443.0  | 17,295.1  | 17,371.0  | 13,509.8  |
| Non-oil            | 26,541.5  | 30,144.6  | 35,160.7  | 33,726.6  | 36,624.3  | 48,067.7  | 66,698.5  | 73,673.5  | 77,910.9  | 84,508.5  | 89,841.2  |
| Domestic Exports   | 29,157.8  | 29,206.4  | 33,051.2  | 32,575.5  | 32,062.4  | 39,070.6  | 49,555.2  | 55,251.7  | 62,754.1  | 66,031.1  | 66,336.8  |
| Oil                | 17,161.2  | 15,233.6  | 15,743.8  | 15,840.1  | 11,980.3  | 11,753.5  | 11,341.0  | 13,223.9  | 17,136.6  | 17,201.8  | 13,408.8  |
| Non-oil            | 11,996.6  | 13,972.8  | 17,307.4  | 16,735.4  | 20,082.1  | 27,317.1  | 38,214.2  | 42,027.8  | 45,617.5  | 48,829.3  | 52,928.0  |
| Re-exports         | 15,315.0  | 16,948.5  | 18,288.8  | 17,603.3  | 16,923.1  | 21,195.1  | 29,496.1  | 31,864.8  | 32,451.9  | 35,848.4  | 37,014.2  |
| Imports            | 60,244.6  | 59,504.2  | 61,133.6  | 57,817.5  | 55,545.4  | 68,415.2  | 88,226.7  | 96,863.7  | 109,805.9 | 114,194.9 | 117,529.7 |
| Oil                | 20,479.6  | 18,611.7  | 16,961.4  | 17,031.0  | 10,994.5  | 12,525.6  | 12,422.2  | 13,407.5  | 17,398.8  | 16,050.2  | 14,987.2  |
| Non-oil            | 39,765.0  | 40,892.5  | 44,172.3  | 40,786.5  | 44,550.9  | 55,889.6  | 75,804.5  | 83,456.2  | 92,407.1  | 98,144.7  | 102,542.5 |
| At 1985 Prices     |           |           |           |           |           |           |           |           |           |           |           |
| <b>Total Trade</b> | 96,693.1  | 102,440.4 | 110,500.6 | 107,996.5 | 123,013.9 | 136,631.9 | 177,508.7 | 191,967.1 | 216,018.8 | 237,230.2 | 250,596.1 |
| Exports            | 40,282.9  | 43,988.3  | 50,303.5  | 50,179.1  | 58,661.7  | 65,997.4  | 87,103.1  | 94,496.0  | 104,026.7 | 115,382.8 | 121,566.3 |
| Oil                | 14,417.8  | 14,640.2  | 15,863.8  | 16,452.3  | 21,815.4  | 18,853.3  | 22,967.0  | 22,170.7  | 24,347.3  | 27,261.4  | 24,214.4  |
| Non-oil            | 25,865.1  | 29,348.1  | 34,439.7  | 33,726.8  | 36,846.3  | 47,144.1  | 64,136.1  | 72,325.3  | 79,679.4  | 88,121.4  | 97,351.9  |
| Domestic Exports   | 25,597.3  | 27,729.6  | 32,874.8  | 32,575.7  | 41,710.0  | 46,093.9  | 60,310.3  | 65,615.1  | 73,408.4  | 81,221.8  | 85,775.9  |
| Oil                | 13,730.5  | 13,861.5  | 15,415.2  | 15,840.3  | 21,097.6  | 18,181.8  | 21,032.3  | 21,791.6  | 24,090.3  | 26,951.8  | 24,010.3  |
| Non-oil            | 11,866.8  | 13,868.2  | 17,459.6  | 16,735.4  | 20,612.4  | 27,912.1  | 39,278.0  | 43,823.5  | 49,318.1  | 54,270.0  | 61,765.6  |
| Re-exports         | 14,685.5  | 16,258.7  | 17,428.7  | 17,603.4  | 16,951.7  | 19,903.3  | 26,792.8  | 28,880.9  | 30,618.3  | 34,161.0  | 35,790.4  |
| Imports            | 56,410.2  | 58,452.1  | 60,197.1  | 57,817.4  | 64,352.2  | 70,634.5  | 90,405.6  | 97,471.1  | 111,992.1 | 121,847.4 | 129,029.8 |
| Oil                | 18,204.8  | 18,531.0  | 17,481.0  | 17,031.1  | 21,051.3  | 18,996.1  | 24,092.6  | 22,740.4  | 25,866.4  | 29,248.7  | 30,493.3  |
| Non-oil            | 38,205.4  | 39,921.2  | 42,716.2  | 40,786.3  | 43,300.9  | 51,638.4  | 66,313.0  | 74,730.7  | 86,125.7  | 92,598.7  | 98,536.5  |

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

Source : Trade Development Board  
with effect from April 1987



# 10.2 TOTAL TRADE BY COUNTRY/AREA, 1982-1992

Million Dollars

| Country/Area                  | 1982      | 1983      | 1984      | 1985      | 1986      | 1987      | 1988      | 1989      | 1990      | 1991      | 1992      |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Total</b>                  | 104,717.4 | 105,659.1 | 112,473.6 | 107,996.3 | 104,530.9 | 128,680.9 | 167,278.0 | 183,980.2 | 205,011.9 | 216,074.4 | 220,880.7 |
| <b>America</b>                | 15,437.0  | 19,333.1  | 21,180.7  | 21,295.3  | 21,698.2  | 27,085.6  | 35,955.0  | 40,529.2  | 41,952.9  | 42,739.1  | 45,428.7  |
| Brazil                        | 306.5     | 250.5     | 331.5     | 301.7     | 286.5     | 382.7     | 690.7     | 696.0     | 667.8     | 693.0     | 610.3     |
| Canada                        | 505.1     | 564.3     | 703.6     | 553.3     | 590.5     | 839.3     | 1,252.4   | 1,289.7   | 1,466.3   | 1,473.0   | 1,288.6   |
| United States <sup>1</sup>    | 13,368.7  | 17,379.2  | 19,214.6  | 19,394.4  | 19,750.7  | 24,731.0  | 32,544.4  | 36,896.1  | 37,826.0  | 38,132.6  | 41,119.4  |
| <b>Asia</b>                   | 68,647.2  | 66,999.9  | 70,331.5  | 65,481.1  | 62,374.1  | 76,693.1  | 98,528.7  | 106,568.3 | 120,068.9 | 129,810.1 | 129,607.6 |
| Bahrain                       | 981.1     | 577.3     | 528.3     | 276.5     | 459.1     | 579.3     | 553.2     | 470.0     | 523.7     | 406.4     | 319.7     |
| Bangladesh                    | 589.7     | 538.3     | 617.0     | 716.7     | 535.6     | 550.4     | 659.2     | 673.0     | 797.1     | 720.9     | 587.3     |
| Brunei                        | 1,246.7   | 1,150.4   | 1,042.5   | 1,174.7   | 981.7     | 984.1     | 1,058.2   | 1,049.1   | 1,211.4   | 1,277.0   | 1,513.1   |
| China, Peo Rep                | 2,397.7   | 2,197.0   | 3,400.4   | 5,701.9   | 4,353.4   | 4,522.6   | 5,754.2   | 5,645.3   | 5,216.8   | 5,323.5   | 5,478.8   |
| Hong Kong                     | 5,002.3   | 4,400.9   | 4,457.5   | 4,279.9   | 4,493.0   | 5,616.7   | 7,375.2   | 8,244.2   | 9,551.4   | 10,780.1  | 11,667.8  |
| India                         | 1,559.8   | 1,656.9   | 883.7     | 1,557.8   | 1,376.3   | 1,695.7   | 2,014.2   | 2,415.7   | 2,666.9   | 2,449.9   | 2,391.7   |
| Iran (Islamic Rep)            | 2,480.9   | 2,029.9   | 1,457.8   | 3,348.2   | 2,826.4   | 1,125.9   | 1,019.9   | 958.0     | 1,058.2   | 1,123.6   | 1,130.2   |
| Japan                         | 15,634.9  | 14,968.4  | 16,024.6  | 14,591.9  | 15,256.6  | 19,478.6  | 26,192.3  | 28,117.1  | 30,447.7  | 33,206.0  | 32,609.8  |
| Korea, Rep of                 | 1,422.2   | 1,868.6   | 1,598.2   | 1,549.8   | 1,991.6   | 2,832.3   | 4,093.9   | 4,583.5   | 5,326.0   | 5,648.8   | 6,194.0   |
| Kuwait                        | 1,169.0   | 1,687.5   | 2,192.5   | 1,252.1   | 2,183.0   | 1,680.4   | 1,095.1   | 1,301.1   | 940.1     | 95.2      | 688.9     |
| Malaysia                      | 15,924.5  | 16,760.1  | 17,503.9  | 16,087.7  | 14,647.2  | 18,037.0  | 23,649.8  | 24,698.8  | 27,412.0  | 32,618.6  | 30,212.6  |
| Pakistan                      | 311.8     | 306.4     | 516.2     | 593.3     | 308.2     | 359.0     | 413.9     | 460.0     | 655.1     | 639.9     | 563.8     |
| Philippines                   | 911.0     | 1,161.0   | 836.0     | 916.0     | 940.9     | 1,252.9   | 1,573.4   | 1,825.3   | 1,782.5   | 1,650.8   | 1,834.1   |
| Saudi Arabia                  | 10,683.8  | 7,482.3   | 7,051.0   | 2,622.7   | 1,852.5   | 3,414.3   | 4,428.8   | 5,133.6   | 6,362.1   | 6,647.1   | 6,689.5   |
| Sri Lanka                     | 678.5     | 658.1     | 405.1     | 519.6     | 414.4     | 460.2     | 555.0     | 507.6     | 460.3     | 478.6     | 601.9     |
| Taiwan                        | 1,885.7   | 2,289.0   | 2,827.4   | 2,777.3   | 3,341.3   | 4,780.2   | 6,231.6   | 6,994.8   | 8,099.4   | 8,302.4   | 8,909.1   |
| Thailand                      | 2,839.8   | 3,062.9   | 3,809.0   | 3,288.8   | 3,394.5   | 4,690.0   | 6,697.5   | 7,249.0   | 9,284.4   | 10,029.4  | 10,807.1  |
| United Arab Emirates          | 1,165.5   | 1,845.5   | 1,849.6   | 1,984.3   | 1,078.5   | 1,566.5   | 1,797.4   | 2,369.6   | 3,485.6   | 3,255.8   | 2,145.3   |
| <b>Europe</b>                 | 13,163.6  | 12,987.4  | 14,319.7  | 14,508.4  | 14,608.1  | 18,862.3  | 25,275.2  | 28,718.5  | 34,064.3  | 34,301.8  | 36,618.6  |
| France                        | 1,795.8   | 1,712.1   | 1,660.3   | 2,091.7   | 1,685.2   | 2,336.3   | 2,898.5   | 3,536.8   | 4,201.6   | 4,122.6   | 4,509.4   |
| Germany, Fed Rep <sup>2</sup> | 2,887.1   | 2,691.4   | 2,894.2   | 2,700.4   | 3,367.8   | 4,311.9   | 6,012.7   | 6,704.2   | 7,723.4   | 7,912.2   | 8,227.9   |
| Italy                         | 951.1     | 1,210.6   | 1,437.0   | 1,378.7   | 1,239.2   | 1,616.9   | 2,459.8   | 2,747.8   | 2,993.1   | 2,535.0   | 3,153.0   |
| Netherlands                   | 1,211.3   | 1,043.9   | 1,121.3   | 1,189.4   | 1,247.6   | 1,627.6   | 2,044.7   | 2,312.0   | 2,998.3   | 3,624.2   | 4,297.2   |
| Switzerland                   | 515.0     | 555.4     | 516.3     | 641.7     | 852.4     | 1,188.0   | 1,263.8   | 1,724.0   | 1,724.0   | 1,824.5   | 1,864.4   |
| United Kingdom                | 2,613.1   | 2,697.9   | 2,968.9   | 3,067.4   | 3,170.3   | 3,888.2   | 4,863.5   | 5,642.5   | 6,406.7   | 6,367.3   | 6,284.0   |
| CIS <sup>3</sup>              | 640.3     | 477.8     | 846.6     | 560.6     | 362.1     | 477.5     | 445.9     | 628.8     | 769.8     | 872.3     | 836.3     |
| <b>Oceania</b>                | 4,977.3   | 3,962.8   | 4,727.2   | 4,900.8   | 3,723.4   | 4,097.4   | 5,094.7   | 5,580.3   | 6,131.8   | 6,279.9   | 6,150.1   |
| Australia <sup>4</sup>        | 3,195.5   | 2,502.7   | 3,278.9   | 3,185.2   | 2,483.6   | 2,963.0   | 3,885.7   | 4,187.8   | 4,464.1   | 4,665.7   | 4,454.4   |
| New Zealand                   | 891.8     | 607.1     | 621.9     | 857.7     | 543.5     | 460.1     | 576.2     | 528.8     | 616.2     | 601.5     | 779.6     |
| <b>Africa</b>                 | 2,492.3   | 2,375.9   | 1,914.5   | 1,810.7   | 2,127.1   | 1,942.5   | 2,424.4   | 2,583.9   | 2,794.0   | 2,943.3   | 3,075.8   |

1 Prior to 1986, USA included Puerto Rico.

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

3 CIS denotes the Commonwealth of Independent States. Prior to 1992 it was known as Soviet Union.

4 Prior to 1989, Australia included Christmas Island.

Source : Trade Development Board  
with effect from April 1987



# 10.3 IMPORTS BY COUNTRY/AREA, 1982-1992

Million Dollars

| Country/Area                  | 1982     | 1983     | 1984     | 1985     | 1986     | 1987     | 1988     | 1989     | 1990      | 1991      | 1992      |
|-------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|
| <b>Total</b>                  | 60,244.6 | 59,504.2 | 61,133.6 | 57,817.5 | 55,545.4 | 68,415.2 | 88,226.7 | 96,863.7 | 109,805.9 | 114,194.9 | 117,529.7 |
| <b>America</b>                | 8,593.4  | 9,585.6  | 9,605.8  | 9,289.4  | 8,925.4  | 10,847.1 | 15,191.3 | 18,279.5 | 19,563.5  | 20,143.6  | 21,158.7  |
| Brazil                        | 212.8    | 147.8    | 186.4    | 163.6    | 143.2    | 225.3    | 464.0    | 510.7    | 538.6     | 502.1     | 416.8     |
| Canada                        | 220.2    | 219.2    | 318.2    | 195.4    | 225.0    | 355.3    | 536.1    | 515.3    | 648.5     | 692.9     | 535.6     |
| United States <sup>1</sup>    | 7,775.4  | 9,005.5  | 8,922.9  | 8,775.4  | 8,314.4  | 10,056.6 | 13,718.4 | 16,605.3 | 17,580.5  | 18,029.6  | 19,340.5  |
| <b>Asia</b>                   | 41,340.5 | 40,218.7 | 41,558.6 | 38,188.1 | 36,654.0 | 45,392.1 | 57,243.9 | 60,901.6 | 69,551.3  | 73,779.3  | 74,822.1  |
| Bahrain                       | 900.4    | 499.5    | 455.4    | 197.4    | 410.7    | 520.3    | 487.2    | 413.1    | 480.9     | 349.3     | 239.0     |
| Bangladesh                    | 21.4     | 17.1     | 43.1     | 52.1     | 29.3     | 90.0     | 92.9     | 80.0     | 83.3      | 93.7      | 46.6      |
| Brunei                        | 477.6    | 404.4    | 415.4    | 536.6    | 298.1    | 276.6    | 225.1    | 146.2    | 233.8     | 321.0     | 433.4     |
| China, Peo Rep                | 1,881.0  | 1,747.2  | 2,881.1  | 4,971.7  | 3,109.6  | 2,975.8  | 3,385.6  | 3,310.8  | 3,773.4   | 3,838.8   | 3,667.6   |
| Hong Kong                     | 1,261.3  | 1,268.9  | 1,281.3  | 1,082.5  | 1,310.1  | 1,801.8  | 2,431.5  | 2,738.8  | 3,365.3   | 3,433.6   | 3,587.0   |
| India                         | 408.2    | 733.5    | 470.4    | 488.8    | 348.5    | 525.5    | 534.1    | 591.7    | 676.8     | 722.7     | 867.4     |
| Iran (Islamic Rep)            | 1,931.1  | 1,208.3  | 733.0    | 2,474.5  | 2,062.6  | 973.2    | 803.7    | 789.1    | 842.1     | 868.7     | 825.7     |
| Japan                         | 10,791.0 | 10,724.0 | 11,217.9 | 9,869.7  | 11,052.2 | 14,029.3 | 19,364.5 | 20,669.4 | 22,146.2  | 24,369.6  | 24,753.1  |
| Korea, Rep of                 | 743.8    | 904.0    | 784.0    | 930.3    | 1,288.6  | 1,837.2  | 2,542.1  | 2,898.5  | 3,217.9   | 3,241.0   | 3,868.7   |
| Kuwait                        | 948.3    | 1,545.5  | 1,882.7  | 983.7    | 2,098.1  | 1,557.7  | 922.0    | 1,122.5  | 842.6     | 8.2       | 554.3     |
| Malaysia                      | 8,065.6  | 8,638.8  | 9,179.7  | 8,301.0  | 7,402.6  | 9,477.4  | 12,928.7 | 12,784.0 | 14,963.5  | 17,382.5  | 17,287.2  |
| Pakistan                      | 94.2     | 120.8    | 60.9     | 60.3     | 78.1     | 82.9     | 89.3     | 122.5    | 153.7     | 187.7     | 133.8     |
| Philippines                   | 218.9    | 271.3    | 395.0    | 437.4    | 401.6    | 375.6    | 528.9    | 530.9    | 567.4     | 475.0     | 516.9     |
| Saudi Arabia                  | 9,408.3  | 6,507.6  | 5,687.5  | 2,034.2  | 1,369.0  | 2,835.6  | 3,873.2  | 4,657.5  | 5,862.5   | 5,864.0   | 6,018.3   |
| Sri Lanka                     | 254.4    | 155.9    | 28.9     | 94.8     | 35.8     | 61.3     | 71.7     | 61.8     | 58.5      | 80.1      | 48.0      |
| Taiwan                        | 1,309.9  | 1,601.5  | 1,997.8  | 1,922.1  | 2,244.1  | 3,143.5  | 3,996.7  | 4,372.8  | 4,677.6   | 4,681.4   | 4,721.3   |
| Thailand                      | 1,131.8  | 1,068.2  | 1,350.9  | 1,196.3  | 1,606.8  | 2,136.5  | 2,386.3  | 2,443.3  | 2,974.1   | 3,628.8   | 4,365.3   |
| United Arab Emirates          | 809.9    | 1,418.6  | 1,403.2  | 1,547.1  | 687.5    | 1,128.6  | 1,274.1  | 1,750.9  | 2,677.3   | 2,220.2   | 1,092.4   |
| <b>Europe</b>                 | 7,822.0  | 7,602.4  | 7,767.8  | 7,956.5  | 8,126.5  | 10,135.3 | 13,082.3 | 14,906.8 | 17,510.2  | 17,066.1  | 18,292.5  |
| France                        | 1,124.6  | 1,050.1  | 1,022.7  | 1,327.7  | 971.6    | 1,415.9  | 1,586.2  | 2,167.4  | 2,645.6   | 2,932.5   | 2,926.6   |
| Germany, Fed Rep <sup>2</sup> | 1,912.4  | 1,619.7  | 1,667.2  | 1,574.4  | 1,829.0  | 2,359.4  | 3,265.0  | 3,505.2  | 3,898.5   | 3,649.5   | 3,839.3   |
| Italy                         | 589.5    | 766.6    | 905.5    | 832.9    | 740.3    | 921.4    | 1,317.2  | 1,574.4  | 1,733.0   | 1,571.8   | 2,087.8   |
| Netherlands                   | 452.1    | 507.2    | 492.7    | 550.9    | 499.8    | 513.2    | 687.3    | 911.8    | 965.7     | 1,004.1   | 1,080.1   |
| Switzerland                   | 418.1    | 433.5    | 433.7    | 397.8    | 506.1    | 649.2    | 928.1    | 1,003.4  | 1,284.9   | 1,052.0   | 1,203.2   |
| United Kingdom                | 1,708.4  | 1,644.2  | 1,596.0  | 1,691.8  | 1,886.4  | 2,174.8  | 2,561.8  | 2,715.5  | 3,375.7   | 3,285.5   | 3,280.7   |
| CIS <sup>3</sup>              | 175.6    | 98.3     | 86.4     | 28.9     | 78.4     | 84.0     | 185.6    | 251.7    | 172.7     | 332.2     | 263.0     |
| <b>Oceania</b>                | 1,667.4  | 1,404.6  | 1,787.1  | 1,838.8  | 1,229.3  | 1,572.2  | 2,067.9  | 1,885.4  | 2,406.4   | 2,468.6   | 2,359.2   |
| Australia <sup>4</sup>        | 1,403.9  | 1,125.7  | 1,503.9  | 1,533.0  | 968.4    | 1,313.3  | 1,744.0  | 1,637.5  | 2,127.2   | 2,149.2   | 1,997.6   |
| New Zealand                   | 221.4    | 180.7    | 221.7    | 264.1    | 202.3    | 221.6    | 305.1    | 218.9    | 247.7     | 275.1     | 301.7     |
| <b>Africa</b>                 | 821.3    | 692.9    | 414.3    | 544.7    | 610.2    | 468.5    | 641.3    | 890.4    | 774.5     | 737.2     | 897.2     |

Note : See notes to Table 10.2

Source : Trade Development Board  
with effect from April 1987

# 10.4 EXPORTS BY COUNTRY/AREA, 1982-1992

Million Dollars

| Country/Area                  | 1982     | 1983     | 1984     | 1985     | 1986     | 1987     | 1988     | 1989     | 1990     | 1991      | 1992      |
|-------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|
| <b>Total</b>                  | 44,472.8 | 46,154.9 | 51,340.0 | 50,178.8 | 48,985.5 | 60,265.7 | 79,051.3 | 87,116.5 | 95,206.0 | 101,879.5 | 103,351.0 |
| <b>America</b>                | 6,843.6  | 9,747.5  | 11,574.9 | 12,005.9 | 12,772.8 | 16,238.5 | 20,763.7 | 22,249.7 | 22,389.4 | 22,595.5  | 24,270.0  |
| Brazil                        | 93.7     | 102.7    | 145.1    | 138.1    | 143.3    | 157.4    | 226.7    | 185.3    | 129.2    | 190.9     | 193.5     |
| Canada                        | 284.9    | 345.1    | 385.4    | 357.9    | 365.5    | 484.0    | 716.3    | 774.4    | 817.8    | 780.1     | 753.0     |
| United States <sup>1</sup>    | 5,593.3  | 8,373.7  | 10,291.7 | 10,619.0 | 11,436.3 | 14,674.4 | 18,826.0 | 20,290.8 | 20,245.5 | 20,103.0  | 21,778.9  |
| <b>Asia</b>                   | 27,306.7 | 26,781.2 | 28,772.9 | 27,293.0 | 25,720.1 | 31,301.0 | 41,284.8 | 45,666.7 | 50,517.6 | 56,030.8  | 54,785.5  |
| Bahrain                       | 80.7     | 77.8     | 72.9     | 79.1     | 48.4     | 59.0     | 66.0     | 56.9     | 42.8     | 57.1      | 80.7      |
| Bangladesh                    | 568.3    | 521.2    | 573.9    | 664.6    | 506.3    | 460.4    | 566.3    | 593.0    | 713.8    | 627.2     | 540.7     |
| Brunei                        | 769.1    | 746.0    | 627.1    | 638.1    | 683.6    | 707.5    | 833.1    | 902.9    | 977.6    | 956.0     | 1,079.7   |
| China, Peo Rep                | 516.7    | 449.8    | 519.3    | 730.2    | 1,243.8  | 1,546.8  | 2,368.6  | 2,334.5  | 1,443.4  | 1,484.7   | 1,811.2   |
| Hong Kong                     | 3,741.0  | 3,132.0  | 3,176.2  | 3,197.4  | 3,182.9  | 3,814.9  | 4,943.7  | 5,505.4  | 6,186.1  | 7,346.5   | 8,080.8   |
| India                         | 1,151.6  | 923.4    | 413.3    | 1,069.0  | 1,027.8  | 1,170.2  | 1,480.1  | 1,824.0  | 1,990.1  | 1,727.2   | 1,524.3   |
| Iran (Islamic Rep)            | 549.8    | 821.6    | 724.8    | 873.7    | 763.8    | 152.7    | 216.2    | 168.9    | 216.1    | 254.9     | 304.5     |
| Japan                         | 4,843.9  | 4,244.4  | 4,806.7  | 4,722.2  | 4,204.4  | 5,449.3  | 6,827.8  | 7,447.7  | 8,301.5  | 8,836.4   | 7,856.7   |
| Korea, Rep of                 | 678.4    | 964.6    | 814.2    | 619.5    | 703.0    | 995.1    | 1,551.8  | 1,685.0  | 2,108.1  | 2,407.8   | 2,325.3   |
| Kuwait                        | 220.7    | 142.0    | 309.8    | 268.4    | 84.9     | 122.7    | 173.1    | 178.6    | 97.5     | 87.0      | 134.6     |
| Malaysia                      | 7,858.9  | 8,121.3  | 8,324.2  | 7,786.7  | 7,244.6  | 8,559.6  | 10,721.1 | 11,914.8 | 12,448.5 | 15,236.1  | 12,925.4  |
| Pakistan                      | 217.6    | 185.6    | 455.3    | 533.0    | 230.1    | 276.1    | 324.6    | 337.5    | 501.4    | 452.2     | 430.0     |
| Philippines                   | 692.1    | 889.7    | 441.0    | 478.6    | 539.3    | 877.3    | 1,044.5  | 1,294.4  | 1,215.1  | 1,175.8   | 1,317.2   |
| Saudi Arabia                  | 1,275.5  | 974.7    | 1,363.5  | 588.5    | 483.5    | 578.7    | 555.6    | 476.1    | 499.6    | 783.1     | 671.2     |
| Sri Lanka                     | 424.1    | 502.2    | 376.2    | 424.8    | 378.6    | 398.9    | 483.3    | 445.8    | 401.8    | 398.5     | 553.9     |
| Taiwan                        | 575.8    | 687.5    | 829.6    | 855.2    | 1,097.2  | 1,636.7  | 2,234.9  | 2,622.0  | 3,421.8  | 3,621.0   | 4,187.8   |
| Thailand                      | 1,708.0  | 1,994.7  | 2,458.1  | 2,092.5  | 1,787.7  | 2,553.5  | 4,311.2  | 4,805.7  | 6,310.3  | 6,400.6   | 6,441.8   |
| United Arab Emirate           | 355.6    | 426.9    | 446.4    | 437.2    | 391.0    | 437.9    | 523.3    | 618.7    | 808.3    | 1,035.6   | 1,052.9   |
| <b>Europe</b>                 | 5,341.6  | 5,385.0  | 6,551.9  | 6,551.9  | 6,481.6  | 8,727.0  | 12,192.9 | 13,811.7 | 16,554.1 | 17,235.7  | 18,326.1  |
| France                        | 671.2    | 662.0    | 637.6    | 764.0    | 713.6    | 920.4    | 1,312.3  | 1,369.4  | 1,556.0  | 1,190.1   | 1,582.8   |
| Germany, Fed Rep <sup>2</sup> | 974.7    | 1,071.7  | 1,227.0  | 1,126.0  | 1,538.8  | 1,952.5  | 2,747.7  | 3,199.0  | 3,824.9  | 4,262.7   | 4,388.6   |
| Italy                         | 361.6    | 444.0    | 531.5    | 545.8    | 498.9    | 695.5    | 1,142.6  | 1,173.4  | 1,260.1  | 963.2     | 1,065.2   |
| Netherlands                   | 759.2    | 536.7    | 628.6    | 638.5    | 747.8    | 1,114.4  | 1,357.4  | 1,400.2  | 2,032.6  | 2,620.1   | 3,217.1   |
| Switzerland                   | 96.9     | 121.9    | 121.5    | 118.5    | 135.6    | 203.2    | 259.9    | 260.4    | 439.1    | 772.5     | 661.2     |
| United Kingdom                | 904.7    | 1,053.7  | 1,372.9  | 1,375.6  | 1,283.9  | 1,713.4  | 2,301.7  | 2,927.0  | 3,031.0  | 3,081.8   | 3,003.3   |
| CIS <sup>3</sup>              | 464.7    | 379.5    | 760.2    | 531.7    | 283.7    | 393.5    | 260.3    | 377.1    | 597.1    | 540.1     | 573.3     |
| <b>Oceania</b>                | 3,309.9  | 2,558.2  | 2,940.1  | 3,062.0  | 2,494.1  | 2,525.2  | 3,026.8  | 3,694.9  | 3,725.4  | 3,811.3   | 3,790.9   |
| Australia <sup>4</sup>        | 1,791.6  | 1,377.0  | 1,775.0  | 1,652.2  | 1,515.2  | 1,649.7  | 2,141.7  | 2,550.3  | 2,336.9  | 2,516.5   | 2,456.8   |
| New Zealand                   | 670.4    | 426.4    | 400.2    | 593.6    | 341.2    | 238.5    | 271.1    | 309.9    | 368.5    | 326.4     | 477.9     |
| <b>Africa</b>                 | 1,671.0  | 1,683.0  | 1,500.2  | 1,266.0  | 1,516.9  | 1,474.0  | 1,783.1  | 1,693.5  | 2,019.5  | 2,206.1   | 2,178.6   |

Note : See notes to Table 10.2

Source : Trade Development Board  
with effect from April 1987



# 10.5 DOMESTIC EXPORTS BY COUNTRY/AREA, 1982-1992

Million Dollars

| Country/Area                  | 1982     | 1983     | 1984     | 1985     | 1986     | 1987     | 1988     | 1989     | 1990     | 1991     | 1992     |
|-------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>Total</b>                  | 29,157.8 | 29,206.4 | 33,051.2 | 32,575.5 | 32,062.4 | 39,070.6 | 49,555.2 | 55,251.7 | 62,754.1 | 66,031.1 | 66,336.8 |
| <b>America</b>                | 5,017.8  | 6,909.6  | 8,695.1  | 8,936.1  | 10,200.7 | 13,163.3 | 16,835.5 | 17,812.8 | 18,159.4 | 18,072.1 | 19,150.4 |
| Brazil                        | 40.1     | 39.8     | 60.6     | 65.2     | 49.7     | 39.2     | 36.6     | 56.7     | 41.6     | 85.5     | 76.6     |
| Canada                        | 134.6    | 187.9    | 207.3    | 208.6    | 246.6    | 339.2    | 545.7    | 564.6    | 573.0    | 528.8    | 498.7    |
| United States <sup>1</sup>    | 4,196.2  | 6,018.7  | 7,920.3  | 8,159.3  | 9,494.7  | 12,240.0 | 15,616.4 | 16,534.7 | 16,672.8 | 16,455.3 | 17,570.8 |
| <b>Asia</b>                   | 16,809.5 | 15,829.7 | 16,696.6 | 16,264.9 | 15,102.2 | 17,732.3 | 21,967.3 | 24,945.7 | 29,365.0 | 31,872.2 | 30,408.5 |
| Bahrain                       | 43.3     | 39.1     | 34.1     | 44.3     | 25.7     | 39.2     | 42.7     | 31.3     | 24.3     | 33.9     | 35.9     |
| Bangladesh                    | 454.7    | 226.2    | 416.4    | 485.7    | 311.0    | 273.3    | 229.1    | 201.4    | 409.4    | 401.8    | 326.2    |
| Brunei                        | 315.1    | 281.7    | 215.9    | 226.7    | 235.4    | 237.0    | 261.7    | 262.8    | 299.7    | 275.4    | 326.5    |
| China, Peo Rep                | 117.6    | 117.6    | 194.4    | 398.8    | 858.4    | 1,058.7  | 1,350.8  | 1,536.9  | 867.3    | 880.0    | 1,028.2  |
| Hong Kong                     | 2,751.0  | 2,252.2  | 2,302.7  | 2,057.9  | 2,108.3  | 2,540.6  | 3,224.2  | 3,798.8  | 4,303.4  | 4,803.3  | 5,177.2  |
| India                         | 840.5    | 573.6    | 1,042.8  | 667.6    | 527.9    | 580.9    | 652.2    | 740.3    | 819.6    | 1,012.0  | 859.9    |
| Iran (Islamic Rep)            | 505.0    | 719.5    | 614.0    | 742.1    | 696.7    | 82.0     | 134.7    | 60.9     | 61.5     | 119.7    | 111.3    |
| Japan                         | 4,253.1  | 3,503.9  | 3,964.7  | 3,860.2  | 3,302.5  | 4,149.1  | 4,875.9  | 5,559.2  | 6,210.8  | 6,034.7  | 5,107.2  |
| Korea, Rep of                 | 449.5    | 711.2    | 547.2    | 371.7    | 427.4    | 641.7    | 939.7    | 992.9    | 1,298.6  | 1,470.9  | 1,381.6  |
| Kuwait                        | 123.0    | 87.8     | 99.4     | 62.6     | 51.3     | 73.9     | 112.0    | 107.6    | 51.0     | 60.3     | 59.2     |
| Malaysia                      | 3,618.4  | 3,605.3  | 3,533.4  | 3,773.3  | 3,266.1  | 3,407.0  | 3,986.1  | 4,518.9  | 5,265.2  | 6,819.1  | 6,221.6  |
| Pakistan                      | 64.2     | 63.7     | 86.4     | 82.4     | 89.5     | 114.1    | 117.6    | 118.9    | 281.5    | 182.3    | 157.0    |
| Philippines                   | 411.6    | 609.9    | 217.4    | 268.7    | 316.0    | 492.5    | 492.1    | 646.8    | 675.3    | 668.1    | 656.7    |
| Saudi Arabia                  | 510.0    | 560.0    | 408.5    | 300.7    | 257.6    | 302.4    | 268.4    | 232.2    | 277.3    | 443.5    | 282.2    |
| Sri Lanka                     | 251.0    | 290.4    | 145.4    | 183.5    | 107.0    | 138.6    | 158.2    | 169.4    | 130.6    | 155.1    | 242.7    |
| Taiwan                        | 293.6    | 330.5    | 462.6    | 513.4    | 655.6    | 976.9    | 1,224.2  | 1,567.4  | 2,313.8  | 2,240.9  | 2,436.0  |
| Thailand                      | 1,154.6  | 1,279.8  | 1,726.1  | 1,424.1  | 1,197.1  | 1,759.4  | 2,753.1  | 3,277.0  | 4,583.0  | 4,488.2  | 4,161.9  |
| United Arab Emirates          | 179.4    | 175.7    | 211.3    | 222.9    | 184.2    | 240.8    | 265.6    | 290.5    | 389.3    | 421.1    | 432.7    |
| <b>Europe</b>                 | 3,567.4  | 3,493.1  | 4,363.7  | 4,145.1  | 4,072.7  | 5,616.8  | 7,979.1  | 9,155.7  | 11,571.8 | 12,406.4 | 13,222.3 |
| France                        | 501.9    | 466.8    | 418.8    | 387.0    | 447.3    | 624.9    | 952.7    | 1,005.6  | 1,180.8  | 867.9    | 1,157.5  |
| Germany, Fed Rep <sup>2</sup> | 721.9    | 767.0    | 880.6    | 798.2    | 1,073.3  | 1,329.7  | 1,848.3  | 2,321.1  | 2,816.7  | 3,141.7  | 3,410.8  |
| Italy                         | 254.4    | 344.3    | 444.8    | 456.1    | 371.8    | 516.1    | 914.0    | 933.9    | 998.5    | 713.0    | 774.6    |
| Netherlands                   | 516.8    | 239.1    | 253.8    | 370.7    | 346.2    | 698.1    | 812.7    | 770.5    | 1,320.4  | 1,921.1  | 2,481.2  |
| Switzerland                   | 70.8     | 86.6     | 76.3     | 73.5     | 80.8     | 93.8     | 145.6    | 127.6    | 268.1    | 607.4    | 506.2    |
| United Kingdom                | 648.1    | 750.8    | 1,057.5  | 1,026.7  | 853.6    | 1,147.1  | 1,661.2  | 2,054.5  | 2,255.4  | 2,350.7  | 2,170.0  |
| CIS <sup>3</sup>              | 143.2    | 180.2    | 514.6    | 328.2    | 153.9    | 147.4    | 180.3    | 175.4    | 304.8    | 256.4    | 266.3    |
| <b>Oceania</b>                | 2,695.7  | 2,005.0  | 2,305.8  | 2,475.8  | 1,922.9  | 1,825.9  | 1,951.5  | 2,542.7  | 2,644.1  | 2,558.6  | 2,545.3  |
| Australia <sup>4</sup>        | 1,313.8  | 993.8    | 1,297.4  | 1,259.2  | 1,105.9  | 1,197.3  | 1,366.8  | 1,773.7  | 1,615.0  | 1,648.9  | 1,630.0  |
| New Zealand                   | 579.3    | 337.4    | 323.4    | 510.6    | 268.1    | 149.6    | 153.9    | 185.7    | 208.6    | 195.0    | 321.1    |
| <b>Africa</b>                 | 1,067.4  | 969.0    | 990.0    | 753.6    | 763.9    | 732.3    | 821.8    | 794.8    | 1,013.9  | 1,121.8  | 1,010.2  |

Note : See notes to Table 10.2

Source : Trade Development Board  
with effect from April 1987

# 10.6 IMPORTS BY COMMODITY, 1982-1992

Million Dollars

| Commodity                                  | 1982     | 1983     | 1984     | 1985     | 1986     | 1987     | 1988     | 1989     | 1990      | 1991      | 1992      |
|--------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|
| <b>Total</b>                               | 60,244.6 | 59,504.2 | 61,133.6 | 57,817.5 | 55,545.4 | 68,415.2 | 88,226.7 | 96,863.7 | 109,805.9 | 114,194.9 | 117,529.7 |
| <b>Food</b>                                | 3,601.9  | 3,503.9  | 4,157.5  | 3,535.4  | 3,865.7  | 3,951.8  | 4,667.0  | 4,463.5  | 4,314.5   | 4,645.4   | 4,837.1   |
| Cereals & Cereal Preparations              | 823.4    | 636.7    | 980.5    | 428.1    | 384.5    | 362.4    | 508.9    | 525.9    | 447.6     | 445.1     | 471.4     |
| Fruits & Vegetables                        | 805.0    | 857.7    | 913.9    | 899.1    | 927.8    | 971.0    | 1,150.7  | 1,077.1  | 1,102.0   | 1,262.7   | 1,248.9   |
| Coffee & Spices                            | 592.4    | 660.2    | 808.7    | 882.6    | 1,047.7  | 830.6    | 791.1    | 637.4    | 637.7     | 544.1     | 563.2     |
| <b>Beverages &amp; Tobacco</b>             | 339.5    | 416.2    | 460.6    | 501.0    | 541.5    | 595.0    | 730.1    | 1,013.2  | 1,425.5   | 1,556.5   | 1,651.5   |
| <b>Crude Materials</b>                     | 2,306.1  | 2,624.8  | 2,510.2  | 1,988.0  | 1,905.0  | 2,267.2  | 2,999.1  | 2,662.6  | 2,371.1   | 2,091.6   | 1,867.4   |
| Rubber                                     | 1,269.9  | 1,622.2  | 1,454.0  | 1,003.1  | 903.3    | 1,159.4  | 1,698.3  | 1,266.7  | 922.2     | 778.6     | 595.6     |
| Wood                                       | 360.4    | 353.1    | 296.1    | 249.4    | 272.1    | 294.6    | 311.3    | 341.7    | 353.0     | 339.8     | 305.5     |
| <b>Mineral Fuels</b>                       | 20,479.6 | 18,611.7 | 16,961.4 | 17,031.0 | 10,994.5 | 12,525.7 | 12,422.2 | 13,407.6 | 17,398.9  | 16,050.2  | 14,987.2  |
| Petroleum & Petroleum Products             | 20,471.4 | 18,601.4 | 16,949.4 | 17,019.9 | 10,986.1 | 12,515.6 | 12,412.8 | 13,393.9 | 17,383.6  | 16,040.3  | 14,970.5  |
| <b>Animal &amp; Vegetable Oils</b>         | 671.5    | 632.1    | 1,435.9  | 1,380.5  | 720.3    | 791.8    | 941.0    | 924.1    | 753.0     | 848.9     | 877.5     |
| Unprocessed Vegetable Oils                 | 114.2    | 202.0    | 440.9    | 293.9    | 166.9    | 299.0    | 351.4    | 431.6    | 403.1     | 466.8     | 367.2     |
| <b>Chemicals</b>                           | 2,790.7  | 2,981.6  | 3,096.2  | 2,890.4  | 3,245.6  | 4,081.9  | 5,808.5  | 7,411.9  | 8,440.5   | 8,306.6   | 8,854.7   |
| Chemical Compounds                         | 723.5    | 821.2    | 859.1    | 772.0    | 879.7    | 1,079.4  | 1,545.9  | 1,583.1  | 1,779.9   | 1,905.2   | 1,934.5   |
| Plastic Materials                          | 687.0    | 808.1    | 829.3    | 721.3    | 846.0    | 1,275.9  | 1,999.9  | 1,423.8  | 1,485.3   | 1,493.5   | 1,354.1   |
| Medicinal Products                         | 210.7    | 207.0    | 222.2    | 239.0    | 284.6    | 314.2    | 367.2    | 384.0    | 360.9     | 378.7     | 441.3     |
| <b>Manufactured Goods by Material</b>      | 8,407.4  | 8,089.5  | 8,045.3  | 7,082.4  | 7,613.5  | 9,536.7  | 12,993.9 | 13,785.1 | 14,167.5  | 14,997.8  | 15,045.8  |
| Textile Manufactures                       | 1,923.7  | 2,052.4  | 2,018.3  | 1,871.5  | 2,241.6  | 2,878.0  | 2,951.5  | 3,123.3  | 3,212.5   | 3,285.2   | 3,255.0   |
| Non-metal Mineral Manufactures             | 1,025.7  | 1,198.4  | 1,280.6  | 1,013.7  | 894.0    | 1,045.1  | 1,254.0  | 1,276.5  | 1,512.7   | 1,719.7   | 1,782.2   |
| Iron & Steel                               | 2,596.0  | 1,890.0  | 1,730.7  | 1,425.1  | 1,463.5  | 1,661.1  | 2,665.5  | 3,034.7  | 3,066.3   | 3,424.8   | 3,004.6   |
| Metal Manufactures                         | 1,344.2  | 1,255.4  | 1,268.1  | 1,253.6  | 1,133.4  | 1,332.5  | 1,673.3  | 1,873.0  | 2,160.7   | 2,371.9   | 2,360.8   |
| Paper & Paperboard & Related Articles      | 501.7    | 556.4    | 647.7    | 575.4    | 684.9    | 886.2    | 1,134.4  | 1,151.9  | 1,253.4   | 1,298.0   | 1,228.1   |
| <b>Machinery &amp; Transport Equipment</b> | 17,219.3 | 18,046.1 | 19,419.6 | 18,317.2 | 20,780.7 | 27,534.0 | 38,298.8 | 42,837.5 | 49,065.1  | 53,432.6  | 56,330.5  |
| Non-electric Machinery                     | 7,142.7  | 6,629.1  | 7,128.8  | 6,624.6  | 7,000.7  | 9,704.2  | 14,153.9 | 16,799.1 | 20,273.0  | 21,846.6  | 22,862.2  |
| Electric Machinery                         | 6,871.3  | 7,597.1  | 8,587.0  | 8,238.1  | 10,786.8 | 14,262.7 | 19,848.5 | 19,809.6 | 22,603.7  | 25,348.4  | 26,199.9  |
| Transport Equipment                        | 3,205.3  | 3,819.8  | 3,603.8  | 3,454.6  | 2,993.2  | 3,567.1  | 4,296.4  | 6,228.9  | 6,188.5   | 6,237.6   | 7,268.4   |
| <b>Miscellaneous Manufactured Articles</b> | 3,852.3  | 3,947.2  | 4,196.7  | 4,193.6  | 4,887.4  | 6,053.6  | 7,999.1  | 8,813.6  | 10,450.2  | 10,792.1  | 11,718.4  |
| Scientific & Optical Instruments           | 1,034.4  | 998.2    | 1,070.6  | 1,129.4  | 1,259.3  | 1,571.1  | 2,359.0  | 2,571.3  | 2,995.7   | 3,117.3   | 3,413.0   |
| Watches & Clocks                           | 550.4    | 537.6    | 475.6    | 424.7    | 475.7    | 596.3    | 779.2    | 874.0    | 1,170.5   | 1,053.4   | 1,072.1   |
| <b>Miscellaneous Transactions nec</b>      | 576.3    | 651.1    | 850.2    | 898.0    | 991.2    | 1,077.5  | 1,367.0  | 1,544.6  | 1,419.6   | 1,473.2   | 1,359.4   |

Source : Trade Development Board  
with effect from April 1987



# 10.7 EXPORTS BY COMMODITY, 1982-1992

Million Dollars

| Commodity                                  | 1982            | 1983            | 1984            | 1985            | 1986            | 1987            | 1988            | 1989            | 1990            | 1991             | 1992             |
|--------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|
| <b>Total</b>                               | <b>44,472.8</b> | <b>46,154.9</b> | <b>51,340.0</b> | <b>50,178.8</b> | <b>48,985.5</b> | <b>60,265.7</b> | <b>79,051.3</b> | <b>87,116.5</b> | <b>95,206.0</b> | <b>101,879.5</b> | <b>103,351.0</b> |
| <b>Food</b>                                | <b>2,388.0</b>  | <b>2,025.1</b>  | <b>2,895.4</b>  | <b>2,193.1</b>  | <b>2,625.5</b>  | <b>2,717.1</b>  | <b>3,285.1</b>  | <b>3,037.1</b>  | <b>2,734.2</b>  | <b>3,032.8</b>   | <b>2,986.7</b>   |
| Cereals & Cereal Preparations              | 609.7           | 274.7           | 839.1           | 186.5           | 142.7           | 167.4           | 250.6           | 254.1           | 188.0           | 209.1            | 203.2            |
| Fruits & Vegetables                        | 320.9           | 342.9           | 375.9           | 366.2           | 340.8           | 364.4           | 411.5           | 389.8           | 387.6           | 435.6            | 393.8            |
| Coffee & Spices                            | 745.5           | 720.3           | 960.7           | 988.2           | 1,350.1         | 1,148.4         | 1,290.4         | 969.5           | 777.9           | 809.4            | 794.5            |
| <b>Beverages &amp; Tobacco</b>             | <b>217.0</b>    | <b>210.0</b>    | <b>209.8</b>    | <b>240.8</b>    | <b>332.1</b>    | <b>387.2</b>    | <b>552.8</b>    | <b>886.3</b>    | <b>1,387.8</b>  | <b>1,840.8</b>   | <b>1,969.0</b>   |
| <b>Crude Materials</b>                     | <b>2,781.1</b>  | <b>3,388.5</b>  | <b>3,410.4</b>  | <b>2,699.7</b>  | <b>2,458.8</b>  | <b>3,003.3</b>  | <b>4,046.7</b>  | <b>3,721.4</b>  | <b>2,914.6</b>  | <b>2,521.6</b>   | <b>2,278.3</b>   |
| Rubber                                     | 1,744.7         | 2,108.3         | 2,138.2         | 1,496.1         | 1,340.8         | 1,544.1         | 2,290.5         | 1,909.0         | 1,425.3         | 1,109.6          | 986.2            |
| Wood                                       | 378.4           | 398.8           | 365.0           | 327.9           | 380.4           | 510.3           | 563.4           | 705.1           | 491.1           | 449.6            | 411.7            |
| <b>Mineral Fuels<sup>1</sup></b>           | <b>17,931.3</b> | <b>16,010.4</b> | <b>16,179.3</b> | <b>16,452.2</b> | <b>12,361.2</b> | <b>12,198.0</b> | <b>12,352.8</b> | <b>13,443.0</b> | <b>17,295.3</b> | <b>17,371.0</b>  | <b>13,509.8</b>  |
| Petroleum & Petroleum Products             | 14,437.3        | 12,761.9        | 12,992.3        | 13,456.1        | 10,038.9        | 9,649.9         | 10,008.5        | 11,026.8        | 14,371.3        | 14,179.2         | 11,096.9         |
| <b>Animal &amp; Vegetable Oils</b>         | <b>780.3</b>    | <b>628.2</b>    | <b>1,540.5</b>  | <b>1,535.2</b>  | <b>880.4</b>    | <b>795.9</b>    | <b>885.5</b>    | <b>1,016.1</b>  | <b>760.7</b>    | <b>722.1</b>     | <b>746.7</b>     |
| Unprocessed Vegetable Oils                 | 560.9           | 451.5           | 1,115.7         | 1,128.1         | 336.2           | 362.5           | 454.9           | 449.7           | 349.2           | 305.3            | 278.3            |
| <b>Chemicals</b>                           | <b>1,722.4</b>  | <b>1,956.3</b>  | <b>2,463.7</b>  | <b>2,716.9</b>  | <b>2,839.9</b>  | <b>3,761.5</b>  | <b>5,198.9</b>  | <b>5,736.7</b>  | <b>5,970.1</b>  | <b>6,680.1</b>   | <b>6,731.8</b>   |
| Chemical Compounds                         | 380.5           | 547.2           | 882.4           | 917.6           | 985.5           | 1,253.3         | 1,669.7         | 1,921.1         | 2,109.0         | 2,537.1          | 2,572.2          |
| Medicinal Products                         | 342.8           | 329.8           | 259.8           | 298.1           | 294.1           | 305.2           | 349.2           | 360.2           | 378.1           | 381.2            | 402.9            |
| Plastic Materials                          | 243.4           | 263.2           | 486.3           | 680.1           | 732.5           | 1,174.7         | 1,846.0         | 1,484.7         | 1,451.0         | 1,703.2          | 1,382.0          |
| <b>Manufactured Goods by Material</b>      | <b>3,838.7</b>  | <b>3,683.1</b>  | <b>3,624.6</b>  | <b>3,597.8</b>  | <b>3,632.7</b>  | <b>4,522.8</b>  | <b>6,529.1</b>  | <b>7,083.6</b>  | <b>6,651.3</b>  | <b>7,320.4</b>   | <b>7,114.5</b>   |
| Wood Manufactures                          | 495.9           | 536.4           | 481.0           | 484.3           | 447.3           | 590.5           | 750.1           | 597.3           | 486.6           | 513.8            | 489.0            |
| Textile Manufactures                       | 745.6           | 810.2           | 781.1           | 776.9           | 929.4           | 1,330.3         | 1,386.5         | 1,544.8         | 1,630.8         | 1,883.5          | 1,760.5          |
| Iron & Steel                               | 707.5           | 411.2           | 461.5           | 457.8           | 433.1           | 471.8           | 721.0           | 861.5           | 789.9           | 891.4            | 846.0            |
| Metal Manufactures                         | 516.9           | 509.6           | 530.3           | 570.6           | 561.1           | 626.6           | 857.3           | 1,025.9         | 1,215.3         | 1,311.2          | 1,204.4          |
| <b>Machinery &amp; Transport Equipment</b> | <b>11,546.2</b> | <b>14,677.9</b> | <b>16,865.0</b> | <b>16,567.4</b> | <b>18,900.5</b> | <b>26,273.8</b> | <b>37,938.7</b> | <b>43,142.1</b> | <b>47,732.6</b> | <b>51,696.7</b>  | <b>56,939.3</b>  |
| Non-electric Machinery                     | 3,597.1         | 4,536.4         | 5,764.4         | 6,011.5         | 7,420.4         | 10,754.1        | 16,355.3        | 19,939.1        | 23,057.6        | 24,998.9         | 28,575.0         |
| Electric Machinery                         | 6,479.4         | 7,816.8         | 9,252.1         | 8,855.0         | 10,157.8        | 14,035.2        | 19,415.2        | 20,471.9        | 22,223.2        | 24,542.2         | 25,553.3         |
| Transport Equipment                        | 1,469.6         | 2,324.8         | 1,848.5         | 1,701.0         | 1,322.5         | 1,484.4         | 2,168.3         | 2,731.2         | 2,451.7         | 2,155.5          | 2,811.0          |
| <b>Miscellaneous Manufactured Articles</b> | <b>2,831.5</b>  | <b>3,083.7</b>  | <b>3,408.0</b>  | <b>3,378.2</b>  | <b>4,042.3</b>  | <b>5,556.1</b>  | <b>7,110.8</b>  | <b>7,815.3</b>  | <b>8,499.7</b>  | <b>9,228.9</b>   | <b>9,593.0</b>   |
| Clothing                                   | 979.7           | 1,002.1         | 1,170.9         | 1,176.5         | 1,469.7         | 2,095.7         | 2,491.4         | 2,715.1         | 2,867.2         | 3,008.5          | 2,947.8          |
| Scientific & Optical Instruments           | 414.6           | 510.0           | 594.1           | 660.4           | 755.1           | 1,045.1         | 1,558.3         | 1,730.0         | 1,953.1         | 2,177.5          | 2,351.2          |
| Watches & Clocks                           | 232.9           | 246.2           | 230.2           | 200.9           | 206.8           | 226.5           | 317.4           | 400.8           | 508.5           | 615.5            | 594.9            |
| <b>Miscellaneous Transactions nec</b>      | <b>436.3</b>    | <b>491.7</b>    | <b>743.3</b>    | <b>797.5</b>    | <b>912.1</b>    | <b>1,050.0</b>  | <b>1,150.9</b>  | <b>1,234.9</b>  | <b>1,259.7</b>  | <b>1,465.2</b>   | <b>1,481.9</b>   |

<sup>1</sup> Include oil bunkers.

Source : Trade Development Board  
with effect from April 1987

# 10.8 DOMESTIC EXPORTS BY COMMODITY, 1982-1992

Million Dollars

| Commodity                                           | 1982     | 1983     | 1984     | 1985     | 1986     | 1987     | 1988     | 1989     | 1990     | 1991     | 1992     |
|-----------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>Total</b>                                        | 29,157.8 | 29,206.4 | 33,051.2 | 32,575.5 | 32,062.4 | 39,070.6 | 49,555.2 | 55,251.7 | 62,754.1 | 66,031.1 | 66,336.8 |
| <b>Food</b>                                         | 449.5    | 469.1    | 483.9    | 478.1    | 602.3    | 731.3    | 904.7    | 1,034.7  | 958.0    | 1,124.9  | 1,164.9  |
| Animal Feeding Stuffs                               | 42.6     | 38.6     | 46.9     | 36.3     | 40.5     | 36.6     | 48.9     | 46.7     | 37.7     | 38.5     | 47.4     |
| <b>Beverages &amp; Tobacco</b>                      | 134.1    | 114.7    | 102.4    | 103.4    | 121.6    | 177.2    | 249.1    | 319.7    | 386.1    | 397.8    | 460.9    |
| <b>Crude Materials<sup>1</sup></b>                  | 125.3    | 179.6    | 172.3    | 189.7    | 246.6    | 343.7    | 468.5    | 516.2    | 460.1    | 448.8    | 456.9    |
| <b>Mineral Fuels<sup>2</sup></b>                    | 17,161.2 | 15,233.6 | 15,743.8 | 15,840.1 | 11,980.3 | 11,753.5 | 11,341.0 | 13,223.9 | 17,136.7 | 17,201.8 | 13,408.8 |
| Oil Bunkers                                         | 3,314.7  | 3,040.9  | 2,994.3  | 2,858.0  | 2,214.1  | 2,451.3  | 2,205.9  | 2,306.3  | 2,785.2  | 3,011.9  | 2,263.4  |
| <b>Animal &amp; Vegetable Oils</b>                  | 482.6    | 401.9    | 670.1    | 629.7    | 666.7    | 605.4    | 610.6    | 768.5    | 587.1    | 555.9    | 583.8    |
| <b>Chemicals</b>                                    | 690.7    | 869.7    | 1,333.8  | 1,597.7  | 1,785.5  | 2,360.4  | 3,100.2  | 3,363.7  | 3,618.6  | 4,208.2  | 4,174.0  |
| Medicinal Products                                  | 260.3    | 241.3    | 172.1    | 207.0    | 192.9    | 199.4    | 222.9    | 224.9    | 251.3    | 253.1    | 234.7    |
| Plastic Materials                                   | 108.5    | 106.5    | 325.9    | 522.4    | 549.5    | 864.2    | 1,305.9  | 967.0    | 957.7    | 1,144.6  | 920.1    |
| <b>Manufactured Goods by Material</b>               | 1,214.4  | 1,083.2  | 1,183.6  | 1,215.4  | 1,142.4  | 1,328.2  | 1,777.5  | 1,848.7  | 2,126.9  | 2,246.8  | 2,189.9  |
| Wood Products excluding Furniture                   | 289.5    | 286.5    | 251.7    | 228.8    | 169.3    | 190.3    | 242.6    | 207.2    | 195.0    | 178.1    | 143.6    |
| Textile Yarn Thread                                 | 76.1     | 68.4     | 58.0     | 43.0     | 50.7     | 69.8     | 73.8     | 67.8     | 78.9     | 81.3     | 78.4     |
| Woven Textile Fabrics                               | 104.6    | 68.5     | 48.9     | 36.2     | 47.1     | 63.3     | 84.8     | 108.7    | 114.3    | 158.4    | 128.3    |
| Lime, Cement & Fabricated<br>Construction Materials | 71.0     | 48.9     | 84.2     | 62.7     | 14.7     | 21.9     | 21.6     | 26.6     | 46.7     | 35.2     | 37.2     |
| Iron & Steel Pipes & Fittings                       | 67.7     | 32.8     | 38.7     | 59.4     | 71.6     | 58.5     | 84.9     | 92.5     | 87.3     | 88.7     | 64.8     |
| <b>Machinery &amp; Transport Equipment</b>          | 6,961.0  | 8,718.6  | 10,936.4 | 10,136.3 | 12,595.9 | 17,817.3 | 26,144.3 | 29,204.2 | 32,351.8 | 34,477.3 | 38,338.4 |
| Office Machines                                     | 382.5    | 818.6    | 2,168.8  | 2,515.7  | 3,907.1  | 6,399.5  | 9,719.3  | 11,798.7 | 14,519.5 | 15,194.2 | 18,065.1 |
| Other Non-electric Machines                         | 434.5    | 490.7    | 579.6    | 581.6    | 680.6    | 803.7    | 1,122.0  | 1,363.4  | 1,287.2  | 1,443.8  | 1,521.9  |
| Electric Generators                                 | 611.2    | 1,045.6  | 1,183.1  | 1,414.1  | 1,448.3  | 1,275.4  | 1,721.1  | 1,300.4  | 1,288.3  | 1,552.4  | 1,456.6  |
| Telecommunications Apparatus                        | 1,723.7  | 1,839.2  | 2,124.2  | 2,128.4  | 2,361.8  | 3,767.5  | 5,641.4  | 6,104.6  | 6,312.9  | 6,253.3  | 5,975.2  |
| Other Electric Machinery                            | 2,261.0  | 2,613.0  | 3,202.5  | 2,358.3  | 2,864.4  | 6,771.5  | 5,101.2  | 5,489.6  | 5,599.1  | 6,544.9  | 7,245.5  |
| Ships, Boats & Oil Rigs                             | 764.7    | 982.7    | 633.5    | 102.8    | 109.0    | 194.8    | 375.7    | 230.7    | 303.3    | 274.2    | 619.5    |
| <b>Miscellaneous Manufactured Articles</b>          | 1,907.2  | 2,097.5  | 2,275.3  | 2,220.4  | 2,680.0  | 3,688.5  | 4,670.8  | 4,712.8  | 4,866.4  | 5,096.3  | 5,234.1  |
| Clothing                                            | 752.8    | 765.2    | 891.3    | 876.9    | 1,072.3  | 1,487.1  | 1,780.9  | 1,816.5  | 1,793.0  | 1,779.2  | 1,590.1  |
| Scientific & Optical Instruments                    | 166.2    | 209.3    | 256.0    | 291.1    | 359.9    | 522.6    | 738.6    | 645.4    | 755.8    | 908.9    | 1,021.7  |
| Watches & Clocks                                    | 150.1    | 157.2    | 131.7    | 103.4    | 103.5    | 93.4     | 131.3    | 155.0    | 183.8    | 221.3    | 236.6    |
| Printed Matters                                     | 110.6    | 112.0    | 120.2    | 136.9    | 188.1    | 256.7    | 314.0    | 378.9    | 438.8    | 489.4    | 572.6    |
| Toys & Games                                        | 151.5    | 138.7    | 185.5    | 200.5    | 258.5    | 440.4    | 446.5    | 382.1    | 351.3    | 361.5    | 268.3    |
| <b>Miscellaneous Transactions nec</b>               | 31.8     | 38.5     | 149.6    | 164.8    | 241.2    | 265.1    | 288.4    | 259.3    | 262.5    | 273.3    | 324.3    |

1 Exclude processed rubber and sawn timber.

2 Include oil bunkers.

Source : Trade Development Board  
with effect from April 1987



# 10.9 IMPORTS OF SPECIFIC COMMODITIES, 1982-1992

Million Dollars

| Year | Meat  | Rice  | Unmilled Cereals | Fruits & Nuts | Spices | Animal Feed | Crude Rubber | Sawn Timber | Crude Petroleum |
|------|-------|-------|------------------|---------------|--------|-------------|--------------|-------------|-----------------|
| 1982 | 310.9 | 159.2 | 518.2            | 325.6         | 227.3  | 209.3       | 1,261.7      | 288.9       | 16,191.0        |
| 1983 | 292.9 | 143.6 | 365.6            | 348.8         | 215.0  | 160.9       | 1,610.6      | 274.1       | 14,303.5        |
| 1984 | 301.5 | 142.1 | 698.6            | 403.1         | 203.1  | 186.6       | 1,435.7      | 228.0       | 14,169.6        |
| 1985 | 274.7 | 109.2 | 196.8            | 410.5         | 288.1  | 118.3       | 981.8        | 191.5       | 12,850.3        |
| 1986 | 279.2 | 132.4 | 125.0            | 406.9         | 266.3  | 130.5       | 879.0        | 212.0       | 8,223.4         |
| 1987 | 323.7 | 116.8 | 115.1            | 453.5         | 247.4  | 124.7       | 1,130.8      | 262.1       | 8,544.4         |
| 1988 | 346.8 | 149.2 | 186.5            | 487.5         | 237.5  | 150.3       | 1,660.4      | 271.5       | 8,261.5         |
| 1989 | 372.1 | 152.7 | 196.7            | 485.0         | 260.6  | 131.2       | 1,216.1      | 292.9       | 9,096.5         |
| 1990 | 359.0 | 147.8 | 105.0            | 497.5         | 232.8  | 83.0        | 941.7        | 305.9       | 12,503.9        |
| 1991 | 362.9 | 138.6 | 97.5             | 561.5         | 193.8  | 91.7        | 724.2        | 310.5       | 11,465.1        |
| 1992 | 363.9 | 149.7 | 95.1             | 563.3         | 172.0  | 125.0       | 544.1        | 275.9       | 10,323.2        |

# 10.9 IMPORTS OF SPECIFIC COMMODITIES, 1982-1992 (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 |
|------|--------------------|----------------------|--------------------|--------------------|-----------------------|-----------------------|------------------------------------------------|-------------------------------|------------|
| 1982 | 4,280.4            | 114.2                | 210.7              | 387.3              | 141.9                 | 1,313.5               | 1,263.0                                        | 1,060.8                       | 1,946.9    |
| 1983 | 4,297.9            | 202.0                | 207.0              | 427.4              | 141.9                 | 1,493.0               | 1,233.3                                        | 451.7                         | 1,896.0    |
| 1984 | 2,779.7            | 440.9                | 222.2              | 476.3              | 145.9                 | 1,425.8               | 969.9                                          | 564.7                         | 2,148.4    |
| 1985 | 4,169.6            | 293.9                | 239.0              | 411.5              | 141.0                 | 1,351.9               | 775.0                                          | 435.2                         | 2,063.2    |
| 1986 | 2,762.7            | 166.9                | 284.6              | 491.3              | 194.6                 | 1,650.5               | 791.9                                          | 386.6                         | 2,709.9    |
| 1987 | 3,971.2            | 299.1                | 314.2              | 661.2              | 233.3                 | 2,205.2               | 1,027.1                                        | 356.3                         | 4,358.8    |
| 1988 | 4,151.3            | 351.4                | 367.2              | 844.2              | 291.2                 | 2,141.3               | 1,655.0                                        | 616.2                         | 5,140.1    |
| 1989 | 4,297.4            | 431.6                | 383.9              | 833.0              | 345.6                 | 2,227.4               | 1,648.1                                        | 791.5                         | 4,760.8    |
| 1990 | 4,879.7            | 403.1                | 360.9              | 896.8              | 343.0                 | 2,274.2               | 1,716.8                                        | 913.9                         | 5,604.8    |
| 1991 | 4,575.3            | 466.8                | 378.7              | 911.4              | 356.8                 | 2,316.0               | 1,856.0                                        | 1,073.7                       | 6,258.4    |
| 1992 | 4,647.3            | 367.2                | 441.3              | 825.0              | 294.2                 | 2,302.9               | 1,742.3                                        | 947.1                         | 6,186.0    |



# 10.9 IMPORTS OF SPECIFIC COMMODITIES, 1982-1992 (continued)

Million Dollars

| Year | Industrial Machinery | Telecommunications Apparatus | Office Machines | Motor Vehicles | Ships, Boats & Oil Rigs | Clothing | Scientific & Optical Instruments | Watches & Clocks | Toys & Games |
|------|----------------------|------------------------------|-----------------|----------------|-------------------------|----------|----------------------------------|------------------|--------------|
| 1982 | 1,614.6              | 1,366.7                      | 758.2           | 1,198.1        | 1,400.5                 | 543.1    | 1,034.4                          | 550.4            | 263.2        |
| 1983 | 1,513.2              | 1,524.4                      | 1,219.0         | 1,196.9        | 1,269.3                 | 591.8    | 998.2                            | 537.6            | 227.1        |
| 1984 | 1,272.8              | 1,700.9                      | 1,851.3         | 1,084.8        | 888.0                   | 646.9    | 1,070.6                          | 475.6            | 257.3        |
| 1985 | 1,121.2              | 1,726.9                      | 1,862.2         | 760.4          | 909.1                   | 654.4    | 1,129.4                          | 424.7            | 222.4        |
| 1986 | 954.7                | 2,284.0                      | 2,075.0         | 682.3          | 1,284.4                 | 785.9    | 1,259.3                          | 475.7            | 292.8        |
| 1987 | 1,217.9              | 3,160.1                      | 3,201.1         | 1,103.3        | 1,104.5                 | 1,072.0  | 1,571.1                          | 596.3            | 332.8        |
| 1988 | 1,859.9              | 4,612.9                      | 4,726.2         | 1,725.7        | 1,348.9                 | 1,210.0  | 2,359.0                          | 779.2            | 364.8        |
| 1989 | 2,306.1              | 5,170.5                      | 6,054.2         | 2,213.4        | 1,394.7                 | 1,329.6  | 2,571.3                          | 874.0            | 363.6        |
| 1990 | 2,744.3              | 6,535.0                      | 7,861.0         | 2,692.7        | 1,661.5                 | 1,655.5  | 2,995.7                          | 1,170.5          | 435.0        |
| 1991 | 2,808.5              | 7,576.4                      | 8,134.4         | 2,285.8        | 1,489.7                 | 1,822.7  | 3,117.3                          | 1,053.4          | 448.1        |
| 1992 | 2,617.5              | 7,276.1                      | 9,115.6         | 2,678.2        | 2,013.5                 | 1,943.4  | 3,413.0                          | 1,072.1          | 549.9        |

Source : Trade Development Board  
with effect from April 1987

## 10.10 EXPORTS OF SPECIFIC COMMODITIES, 1982-1992

Million Dollars

| Year | Spices | Coffee | Animal Feed | Crude Rubber | Sawn Timber | Petroleum Products | Fixed Vegetable Oils | Medicinal Products | Manufactured Fertilizers |
|------|--------|--------|-------------|--------------|-------------|--------------------|----------------------|--------------------|--------------------------|
| 1982 | 281.6  | 220.9  | 111.7       | 1,742.8      | 347.2       | 14,288.3           | 560.9                | 342.8              | 233.3                    |
| 1983 | 231.9  | 236.3  | 97.7        | 2,105.8      | 367.6       | 12,557.3           | 451.5                | 329.8              | 207.8                    |
| 1984 | 285.8  | 334.2  | 119.0       | 2,135.4      | 340.0       | 12,849.4           | 1,115.7              | 259.8              | 162.3                    |
| 1985 | 305.4  | 313.4  | 83.8        | 1,491.5      | 301.7       | 13,418.2           | 1,128.1              | 298.1              | 127.5                    |
| 1986 | 403.2  | 567.3  | 93.3        | 1,335.2      | 349.1       | 10,021.8           | 336.2                | 294.1              | 70.5                     |
| 1987 | 382.2  | 298.8  | 97.8        | 1,535.1      | 486.6       | 9,624.6            | 362.5                | 305.2              | 81.5                     |
| 1988 | 388.5  | 334.5  | 113.6       | 2,274.1      | 529.6       | 9,639.2            | 454.9                | 349.2              | 103.6                    |
| 1989 | 353.2  | 131.2  | 107.8       | 1,884.7      | 659.4       | 11,026.8           | 449.7                | 360.2              | 56.5                     |
| 1990 | 248.6  | 127.0  | 75.5        | 1,405.3      | 449.7       | 14,371.2           | 349.2                | 378.1              | 52.1                     |
| 1991 | 223.7  | 129.6  | 80.1        | 1,089.1      | 412.5       | 14,179.2           | 305.3                | 381.2              | 47.7                     |
| 1992 | 203.2  | 110.9  | 135.5       | 966.4        | 366.4       | 11,096.9           | 278.3                | 402.9              | 55.8                     |



10.10 EXPORTS OF SPECIFIC COMMODITIES, 1982-1992 (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 |
|------|---------------------------|-----------------------------------|-----------------------|-----------------------|------------------------------------------------|-------------------------------|------------|-----------------|----------------------|
| 1982 | 225.7                     | 495.4                             | 112.3                 | 527.7                 | 225.4                                          | 436.7                         | 1,295.0    | 638.2           | 899.0                |
| 1983 | 190.4                     | 536.1                             | 113.3                 | 578.8                 | 139.9                                          | 235.7                         | 1,778.6    | 1,656.3         | 821.4                |
| 1984 | 203.8                     | 480.5                             | 108.6                 | 554.6                 | 164.9                                          | 238.7                         | 1,968.0    | 2,674.5         | 855.8                |
| 1985 | 200.5                     | 483.5                             | 105.3                 | 562.7                 | 167.0                                          | 263.3                         | 2,055.7    | 3,008.9         | 861.1                |
| 1986 | 214.7                     | 446.1                             | 143.6                 | 673.0                 | 188.5                                          | 219.7                         | 2,156.8    | 4,410.7         | 673.9                |
| 1987 | 312.9                     | 589.4                             | 193.9                 | 997.6                 | 263.8                                          | 175.3                         | 2,605.6    | 7,048.6         | 732.7                |
| 1988 | 359.4                     | 749.2                             | 267.2                 | 964.6                 | 428.9                                          | 250.1                         | 2,906.0    | 10,910.6        | 1,015.1              |
| 1989 | 311.2                     | 596.5                             | 279.7                 | 1,080.4               | 462.9                                          | 341.0                         | 2,721.4    | 13,215.9        | 1,342.4              |
| 1990 | 282.8                     | 485.6                             | 277.9                 | 1,134.9               | 428.1                                          | 300.4                         | 2,811.0    | 16,620.3        | 1,486.9              |
| 1991 | 254.4                     | 513.3                             | 296.7                 | 1,376.1               | 414.3                                          | 404.2                         | 3,372.1    | 17,652.2        | 1,636.7              |
| 1992 | 240.5                     | 487.9                             | 232.0                 | 1,304.2               | 471.8                                          | 321.9                         | 3,347.1    | 21,113.5        | 1,439.7              |

# 10.10 EXPORTS OF SPECIFIC COMMODITIES, 1982-1992 (continued)

Million Dollars

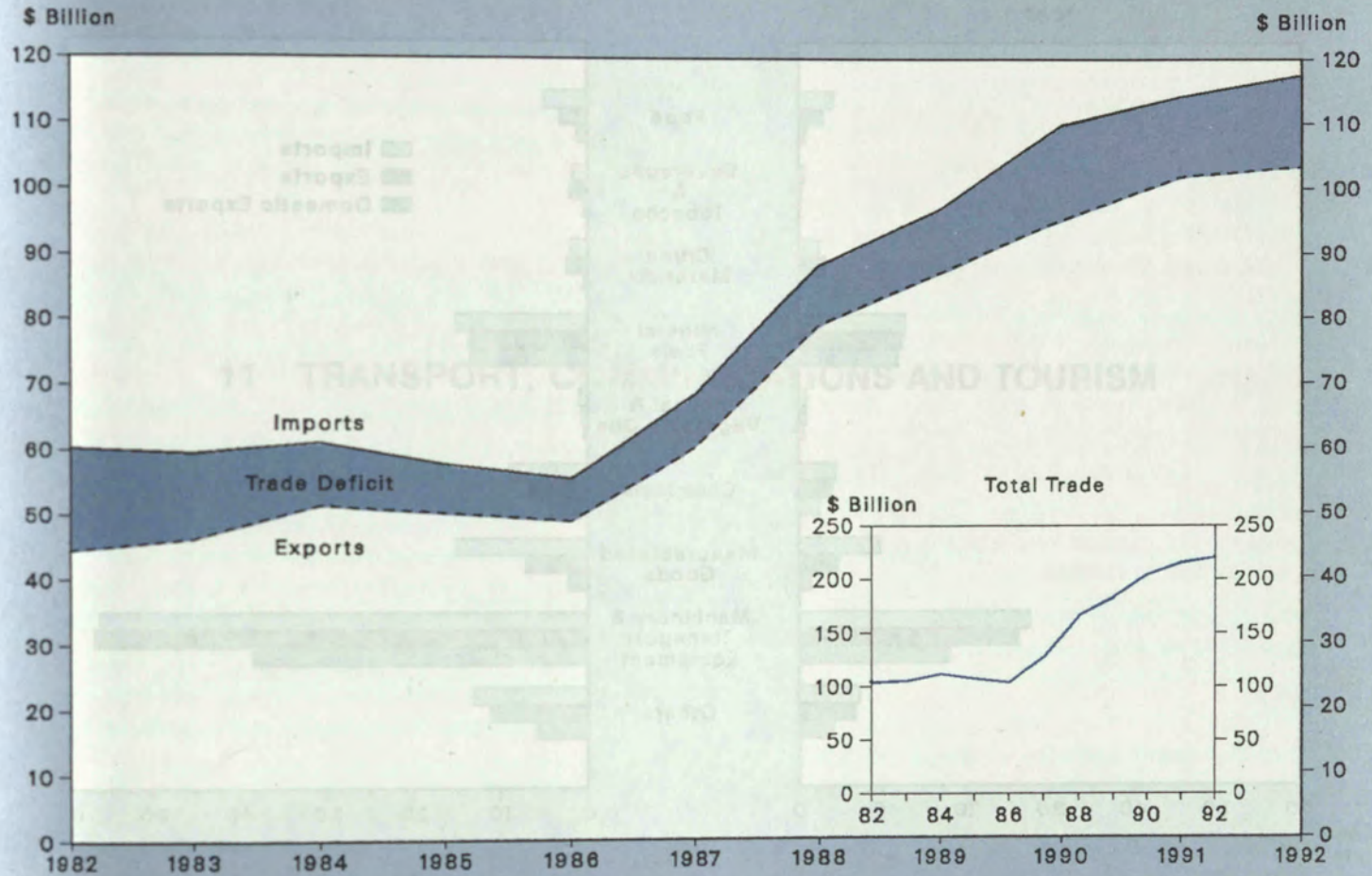
| Year | Telecommunica-<br>tions<br>Apparatus | Household<br>Equipment | Motor<br>Vehicles | Ships, Boats<br>& Oil Rigs | Furniture | Clothing | Scientific<br>& Optical<br>Instruments | Watches &<br>Clocks | Printed<br>Matters |
|------|--------------------------------------|------------------------|-------------------|----------------------------|-----------|----------|----------------------------------------|---------------------|--------------------|
| 1982 | 2,196.8                              | 294.9                  | 360.7             | 871.7                      | 159.5     | 979.7    | 414.6                                  | 232.9               | 155.1              |
| 1983 | 2,389.8                              | 338.4                  | 399.1             | 1,348.7                    | 173.0     | 1,002.1  | 510.0                                  | 246.2               | 152.6              |
| 1984 | 2,719.9                              | 440.6                  | 449.3             | 999.1                      | 178.8     | 1,170.9  | 594.1                                  | 230.2               | 157.6              |
| 1985 | 2,780.8                              | 423.2                  | 325.6             | 426.4                      | 163.9     | 1,176.5  | 660.4                                  | 200.9               | 180.3              |
| 1986 | 3,224.7                              | 429.0                  | 298.0             | 685.6                      | 202.4     | 1,469.7  | 755.1                                  | 206.8               | 230.8              |
| 1987 | 5,200.4                              | 520.6                  | 382.3             | 688.1                      | 263.2     | 2,095.7  | 1,045.1                                | 226.5               | 306.0              |
| 1988 | 7,569.5                              | 635.9                  | 554.7             | 1,189.7                    | 339.9     | 2,491.4  | 1,558.3                                | 317.4               | 398.1              |
| 1989 | 8,465.2                              | 616.8                  | 788.6             | 929.7                      | 377.5     | 2,715.1  | 1,730.0                                | 400.8               | 439.0              |
| 1990 | 9,470.8                              | 587.7                  | 956.2             | 686.9                      | 342.6     | 2,867.2  | 1,953.1                                | 508.5               | 548.9              |
| 1991 | 9,834.4                              | 628.4                  | 976.6             | 557.9                      | 363.6     | 3,008.5  | 2,177.5                                | 615.5               | 603.1              |
| 1992 | 9,673.4                              | 672.8                  | 1,150.6           | 1,045.1                    | 362.9     | 2,947.8  | 2,351.2                                | 594.9               | 643.7              |

Source : Trade Development Board  
with effect from April 1987



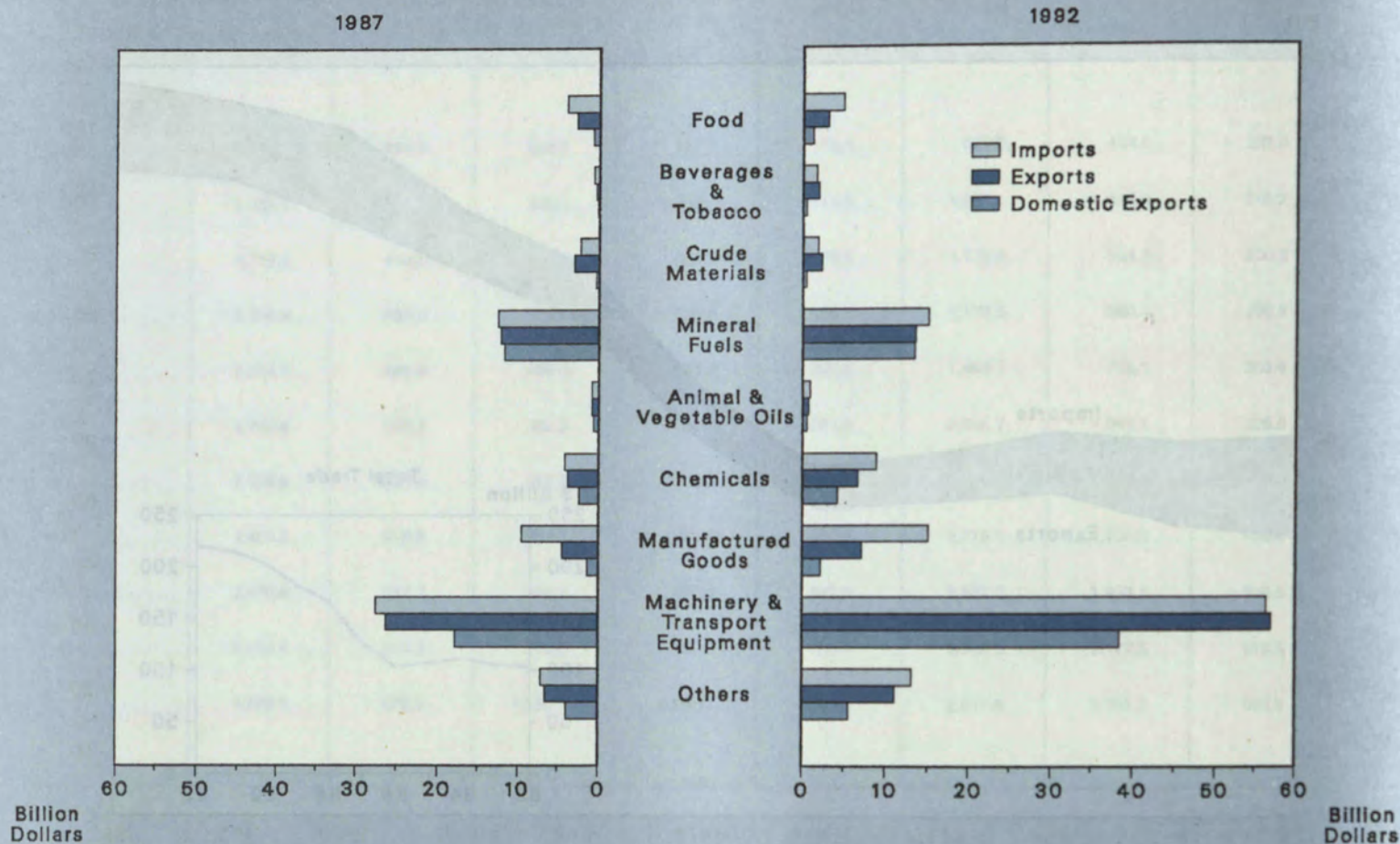
CHART 10

EXTERNAL TRADE AND TRADE BALANCE, 1982-1992



# CHART 11

## TRADE BY COMMODITY, 1987 AND 1992





## 11 TRANSPORT, COMMUNICATIONS AND TOURISM

The Civil Aviation Authority of Singapore (CAAS) is responsible for operating the Singapore Changi Airport and Seletar Aerodrome. It also provides air traffic services, regulates and promotes the development of the air transport and

### Civil Air Traffic

Export and import statistics are collected from all cargo and passengers carried by air.

Statistics on cargo handled by all ports of Singapore including private wharves and anchorages. The data include transshipment cargo but exclude ship's stores and mineral oil supplied as bunker fuel to vessels.

### Sea Cargo Handled

Statistics on cargo handled by all ports of Singapore including private wharves and anchorages. The data include transshipment cargo but exclude ship's stores and mineral oil supplied as bunker fuel to vessels.

### Vessels Entered and Cleared

Statistics on cargo handled by all ports of Singapore including private wharves and anchorages. The data include transshipment cargo but exclude ship's stores and mineral oil supplied as bunker fuel to vessels.

Statistics on cargo handled by all ports of Singapore including private wharves and anchorages. The data include transshipment cargo but exclude ship's stores and mineral oil supplied as bunker fuel to vessels.

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

all visitors arriving in Singapore at the points of entry. Disembarkation/Embarkation Forms (IMM 33A) completed by Data on visitor arrivals are compiled into Visitor Arrivals.

Statistics on cargo handled by all ports of Singapore including private wharves and anchorages. The data include transshipment cargo but exclude ship's stores and mineral oil supplied as bunker fuel to vessels.

Statistics on cargo handled by all ports of Singapore including private wharves and anchorages. The data include transshipment cargo but exclude ship's stores and mineral oil supplied as bunker fuel to vessels.

Statistics on cargo handled by all ports of Singapore including private wharves and anchorages. The data include transshipment cargo but exclude ship's stores and mineral oil supplied as bunker fuel to vessels.

Statistics on cargo handled by all ports of Singapore including private wharves and anchorages. The data include transshipment cargo but exclude ship's stores and mineral oil supplied as bunker fuel to vessels.

## 11 TRANSPORT, COMMUNICATIONS AND TOURISM

### Vessels Entered and Cleared

Data on the movement of vessels are compiled from declarations submitted to the Port Master by all merchant ships entering or leaving Singapore waters. The data are given in terms of number and gross registered tonnage.

### Sea Cargo Handled

*Volume of cargo handled* : Refers to those handled by vessels of all tonnages at all parts of Singapore including private wharves and anchorages. The data include transshipment cargo but exclude ship's stores and mineral oil supplied as bunker fuel to vessels.

### Civil Air Traffic

The Civil Aviation Authority of Singapore (CAAS) is responsible for operating the Singapore Changi Airport and Seletar Aerodrome. It also provides air traffic services, regulates and promotes the development of the air transport and

the aerospace industries, as well as compiles and collates statistics on passengers, airfreight, airmail and aircraft traffic passing through Changi Airport and Seletar Aerodrome.

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

Monthly statistics on passengers, aircraft landings and mail carried through Changi Airport and Seletar Aerodrome are available in the "Air Transport Statistics" published by the CAAS.

### Visitor Arrivals

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

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



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

## Roads

Data on public roads refer to the length of roads in kilometres and are classified into expressways, major arterial roads, collector roads and local roads.

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

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

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

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

## Vehicles Registered

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

## Road Casualties

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

### 11.1 VESSELS REGISTERED IN SINGAPORE, 1987-1992 (End of Period)

| Tonnage Class<br>(Gross Registered Tons) | 1987  |          | 1988  |          | 1989  |          | 1990  |          | 1991  |          | 1992  |          |
|------------------------------------------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
|                                          | No.   | '000 GRT | No.   | '000 GRT | No.   | '000 GRT | No.   | '000 GRT | No.   | '000 GRT | No.   | '000 GRT |
| <b>Total</b>                             | 1,229 | 7,247    | 1,243 | 7,328    | 1,359 | 8,134    | 1,565 | 8,872    | 1,823 | 9,559    | 2,087 | 10,739   |
| Non-propelled or Below 100               | 562   | 377      | 588   | 395      | 665   | 470      | 795   | 601      | 949   | 705      | 1,121 | 893      |
| 100 & Above                              | 667   | 6,870    | 655   | 6,933    | 694   | 7,664    | 770   | 8,271    | 874   | 8,854    | 966   | 9,846    |

Source : Marine Department

### 11.2 AGE DISTRIBUTION OF VESSELS REGISTERED IN SINGAPORE, DECEMBER 1992

| Tonnage Class<br>(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 |
| <b>Total</b>                             | 1,009             | 4,214    | 229   | 1,838    | 348     | 1,816    | 359     | 2,342    | 119     | 461      | 18      | 61       | 5          | 8        |
| Non-propelled or Below 100               | 786               | 630      | 93    | 50       | 162     | 131      | 62      | 76       | 12      | 5        | 4       | 2        | 2          | -        |
| 100 to Below 500                         | 107               | 18       | 46    | 12       | 63      | 14       | 101     | 30       | 20      | 7        | 7       | 2        | 1          | -        |
| 500 to Below 1,000                       | 8                 | 7        | 13    | 9        | 17      | 14       | 50      | 41       | 13      | 11       | 4       | 4        | 1          | 1        |
| 1,000 to Below 5,000                     | 35                | 89       | 15    | 32       | 35      | 76       | 43      | 121      | 44      | 100      | 2       | 3        | -          | -        |
| 5,000 to Below 10,000                    | 14                | 97       | 7     | 58       | 19      | 145      | 38      | 293      | 12      | 94       | -       | -        | 1          | 7        |
| 10,000 & Above                           | 59                | 3,373    | 55    | 1,677    | 52      | 1,436    | 65      | 1,781    | 18      | 244      | 1       | 50       | -          | -        |

Source : Marine Department



# 11.3 VESSELS LICENSED IN SINGAPORE, 1982-1992

Number

| End of Year | Vessels Other than Fishing Vessels |                      |             |                 |                     | Fishing Vessels |                 |                     |
|-------------|------------------------------------|----------------------|-------------|-----------------|---------------------|-----------------|-----------------|---------------------|
|             | Total                              | Native Sailing Craft | Cargo Boats | Passenger Boats | Others <sup>1</sup> | Total           | Powered Vessels | Non-powered Vessels |
| 1982        | 2,840                              | 13                   | 1,650       | 568             | 609                 | 622             | 514             | 108                 |
| 1983        | 2,731                              | 8                    | 1,495       | 582             | 646                 | 516             | 460             | 56                  |
| 1984        | 2,599                              | 3                    | 1,381       | 550             | 665                 | 483             | 443             | 40                  |
| 1985        | 2,383                              | 1                    | 1,223       | 514             | 645                 | 446             | 415             | 31                  |
| 1986        | 2,241                              | 1                    | 1,116       | 494             | 630                 | 423             | 401             | 22                  |
| 1987        | 2,165                              | 1                    | 1,023       | 513             | 628                 | 397             | 380             | 17                  |
| 1988        | 2,113                              | -                    | 971         | 508             | 634                 | 384             | 367             | 17                  |
| 1989        | 2,105                              | -                    | 946         | 521             | 638                 | 340             | 326             | 14                  |
| 1990        | 2,200                              | -                    | 962         | 521             | 717                 | 340             | 326             | 14                  |
| 1991        | 2,303                              | -                    | 969         | 523             | 811                 | 315             | 304             | 11                  |
| 1992        | 2,433                              | -                    | 989         | 527             | 917                 | 303             | 292             | 11                  |

Refer to work boats, bum boats and tug boats.

Source : Marine Department  
Primary Production Department  
Port of Singapore Authority

# 11.4 VESSEL ARRIVALS AND DEPARTURES, 1982-1992

| Period            | Arrivals |          | Departures |          |
|-------------------|----------|----------|------------|----------|
|                   | Number   | '000 GRT | Number     | '000 GRT |
| 1982              | 36,361   | 282,630  | )          | )        |
|                   |          |          | )          | )        |
| 1983              | 36,459   | 287,380  | )          | )        |
|                   |          |          | )          | )        |
| 1984              | 34,985   | 270,050  | )          | )        |
|                   |          |          | )          | )        |
| 1985              | 36,531   | 272,020  | )          | na       |
|                   |          |          | )          | )        |
| 1986              | 40,722   | 333,680  | )          | )        |
|                   |          |          | )          | )        |
| 1987              | 42,560   | 352,360  | )          | )        |
|                   |          |          | )          | )        |
| 1988              | 44,855   | 402,960  | )          | )        |
|                   |          |          | )          | )        |
| 1989              | 49,107   | 436,710  | 49,032     | 437,368  |
| 1990              | 60,347   | 491,200  | 64,660     | 490,659  |
| 1991              | 70,345   | 536,618  | 70,119     | 536,139  |
| 1992 <sup>p</sup> | 81,300   | 578,500  | 81,200     | 579,100  |

Notes : Figures include all sea-going vessels and regional ferries above 75 Gross Registered Tons (GRT).  
The GRT of vessel refers to the space (in tons of 100 cubic feet) below the upper full deck plus crewquarters, etc above deck.

Source : Port of Singapore Authority



# 11.5 VESSEL ARRIVALS BY FLAG, 1991 & 1992

| Flag           | 1991   |          | 1992 <sup>P</sup> |          |
|----------------|--------|----------|-------------------|----------|
|                | Number | '000 GRT | Number            | '000 GRT |
| All Flags      | 70,345 | 536,618  | 81,300            | 578,500  |
| Bahamas        | 1,003  | 20,669   | 1,305             | 27,952   |
| China          | 1,343  | 16,617   | 1,340             | 16,819   |
| Cyprus         | 1,012  | 18,524   | 1,000             | 17,602   |
| Denmark        | 608    | 15,691   | 668               | 14,859   |
| France         | 115    | 5,858    | 166               | 8,917    |
| Germany        | 583    | 10,308   | 657               | 11,865   |
| Greece         | 626    | 17,352   | 634               | 17,304   |
| Honduras       | 2,492  | 1,210    | 2,865             | 1,597    |
| Hong Kong      | 421    | 10,530   | 427               | 11,423   |
| India          | 337    | 7,574    | 383               | 8,454    |
| Italy          | 105    | 2,525    | 95                | 2,425    |
| Japan          | 1,207  | 33,632   | 1,320             | 30,444   |
| Korea          | 392    | 8,092    | 569               | 10,067   |
| Liberia        | 2,470  | 75,140   | 2,822             | 83,044   |
| Netherlands    | 353    | 7,288    | 369               | 10,472   |
| Norway         | 907    | 20,568   | 829               | 17,941   |
| Panama         | 10,994 | 80,185   | 11,878            | 87,930   |
| Poland         | 145    | 2,029    | 101               | 1,302    |
| Singapore      | 22,379 | 45,959   | 31,234            | 53,926   |
| Taiwan         | 519    | 14,028   | 647               | 16,226   |
| Turkey         | 125    | 2,457    | 143               | 2,680    |
| United Kingdom | 240    | 7,536    | 209               | 8,082    |
| United States  | 382    | 10,228   | 340               | 8,769    |

Note : See notes to Table 11.4.

Source : Port of Singapore Authority

# 11.6 SEA CARGO HANDLED, 1982-1992

Thousand Freight Tonnes

| Period            | Total     |           | General Cargo |          |              |         | Bulk Cargo |          |         |         |
|-------------------|-----------|-----------|---------------|----------|--------------|---------|------------|----------|---------|---------|
|                   |           |           | Containerised |          | Conventional |         | Oil        |          | Others  |         |
|                   | Inward    | Outward   | Inward        | Outward  | Inward       | Outward | Inward     | Outward  | Inward  | Outward |
| 1982              | 61,356.3  | 40,133.0  | 8,287.7       | 7,385.7  | 8,984.4      | 9,391.6 | 38,907.3   | 23,054.8 | 5,176.9 | 300.9   |
| 1983              | 65,882.6  | 40,465.8  | 10,130.3      | 8,636.4  | 10,393.9     | 8,310.6 | 40,269.9   | 23,290.6 | 5,088.5 | 228.2   |
| 1984              | 67,411.0  | 44,486.3  | 11,829.2      | 10,271.5 | 9,023.6      | 9,608.2 | 39,199.4   | 23,976.2 | 7,358.8 | 630.4   |
| 1985              | 62,086.2  | 43,749.6  | 12,410.6      | 11,451.3 | 6,723.0      | 6,359.2 | 38,430.0   | 25,180.6 | 4,522.6 | 758.5   |
| 1986              | 69,756.8  | 50,959.1  | 15,914.0      | 15,625.7 | 6,257.6      | 6,224.0 | 43,893.7   | 28,814.9 | 3,691.5 | 294.5   |
| 1987              | 75,779.7  | 53,678.6  | 19,145.1      | 19,274.3 | 6,736.9      | 6,701.9 | 46,198.9   | 27,398.5 | 3,698.8 | 303.9   |
| 1988              | 90,648.7  | 64,090.1  | 25,848.7      | 25,406.9 | 8,083.9      | 7,600.2 | 52,834.5   | 30,667.1 | 3,881.6 | 415.9   |
| 1989              | 98,367.0  | 75,930.8  | 31,750.0      | 33,440.2 | 9,652.8      | 8,592.7 | 51,908.2   | 32,511.9 | 5,055.9 | 1,386.0 |
| 1990              | 106,222.5 | 81,566.8  | 37,612.8      | 39,017.8 | 9,968.5      | 7,788.6 | 53,334.6   | 33,570.9 | 5,306.6 | 1,189.5 |
| 1991              | 116,525.1 | 89,903.9  | 44,909.1      | 45,771.4 | 9,946.8      | 7,556.5 | 56,123.0   | 35,391.8 | 5,546.1 | 1,184.1 |
| 1992 <sup>P</sup> | 136,400.0 | 102,000.0 | 55,000.0      | 54,000.0 | 9,500.0      | 7,200.0 | 65,900.0   | 39,500.0 | 6,000.0 | 1,300.0 |

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

Source : Port of Singapore Authority



# 11.7 CONTAINERISED CARGO HANDLED BY COUNTRY/AREA, 1989-1992

Thousand Freight Tonnes

| Country/Area                       | 1989     |          | 1990     |          | 1991 *   |          | 1992 P   |          |
|------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                                    | Inward   | Outward  | Inward   | Outward  | Inward   | Outward  | Inward   | Outward  |
| <b>All Countries/Areas</b>         | 31,750.0 | 33,440.2 | 37,612.8 | 39,017.8 | 44,909.1 | 45,771.4 | 55,000.0 | 54,000.0 |
| <b>South East Asia</b>             | 10,872.7 | 9,925.3  | 12,648.2 | 12,420.6 | 15,130.0 | 13,751.8 | 20,417.8 | 16,677.5 |
| <b>North East Asia</b>             | 8,558.7  | 7,574.0  | 11,249.7 | 7,962.8  | 12,376.9 | 9,558.1  | 13,838.8 | 10,394.7 |
| China                              | 182.9    | 212.6    | 244.1    | 174.9    | 525.7    | 257.8    | 825.9    | 332.5    |
| Hong Kong                          | 2,248.1  | 2,036.4  | 2,722.6  | 2,217.8  | 2,995.3  | 2,721.3  | 3,420.0  | 2,991.1  |
| Japan                              | 3,033.8  | 2,410.8  | 4,057.9  | 2,826.3  | 4,425.2  | 3,514.6  | 5,065.9  | 3,766.1  |
| Taiwan                             | 2,448.8  | 2,431.2  | 3,325.4  | 2,194.6  | 3,302.1  | 2,308.7  | 2,963.1  | 2,657.0  |
| Korea                              | 645.1    | 483.0    | 899.6    | 549.1    | 1,128.7  | 755.8    | 1,564.0  | 648.0    |
| <b>South Asia</b>                  | 1,793.8  | 2,282.7  | 1,729.8  | 2,668.9  | 2,425.9  | 3,035.1  | 3,619.4  | 3,856.1  |
| India                              | 811.1    | 910.4    | 800.3    | 1,198.2  | 1,243.0  | 1,162.5  | 1,783.2  | 1,683.4  |
| Bangladesh                         | 425.9    | 634.9    | 434.4    | 649.7    | 504.4    | 729.1    | 687.0    | 891.3    |
| Sri Lanka                          | 193.5    | 421.8    | 277.1    | 456.3    | 331.0    | 599.3    | 436.6    | 642.1    |
| Pakistan                           | 363.2    | 285.2    | 216.9    | 321.0    | 346.9    | 511.7    | 709.0    | 592.3    |
| <b>West Asia</b>                   | 746.2    | 1,878.4  | 840.9    | 1,983.3  | 1,126.0  | 3,086.9  | 1,068.0  | 3,868.0  |
| United Arab Emirates               | 373.6    | 759.1    | 511.0    | 907.2    | 715.2    | 1,506.7  | 524.8    | 1,795.9  |
| Saudi Arabia                       | 223.7    | 484.6    | 165.0    | 480.1    | 241.3    | 797.8    | 355.0    | 1,119.6  |
| <b>Africa</b>                      | 382.2    | 655.6    | 454.3    | 945.9    | 639.3    | 1,250.0  | 711.9    | 1,552.6  |
| <b>EEC</b>                         | 5,231.6  | 5,508.3  | 6,405.1  | 7,179.8  | 7,074.6  | 8,105.2  | 8,257.4  | 9,656.1  |
| Italy                              | 574.4    | 557.1    | 749.5    | 711.8    | 717.9    | 800.2    | 826.6    | 952.2    |
| France                             | 516.1    | 662.3    | 681.7    | 783.5    | 609.6    | 904.2    | 515.7    | 814.0    |
| Germany                            | 1,394.1  | 1,399.4  | 1,835.7  | 1,901.5  | 2,050.7  | 2,096.5  | 2,283.6  | 2,355.6  |
| Netherlands                        | 1,210.1  | 1,160.4  | 1,358.3  | 1,620.8  | 1,540.9  | 1,665.9  | 2,077.1  | 2,382.5  |
| United Kingdom                     | 745.1    | 1,034.4  | 841.4    | 1,263.2  | 1,071.6  | 1,509.5  | 1,447.4  | 1,873.1  |
| Belgium-Luxemburg                  | 402.3    | 266.4    | 484.0    | 387.8    | 497.8    | 447.2    | 633.4    | 402.3    |
| Spain                              | 332.7    | 353.8    | 410.7    | 410.6    | 526.7    | 565.1    | 423.5    | 739.6    |
| <b>Other Europe</b>                | 319.4    | 415.2    | 494.1    | 548.9    | 361.1    | 480.4    | 280.3    | 393.9    |
| <b>Oceania</b>                     | 1,156.4  | 1,546.9  | 1,098.4  | 1,413.2  | 2,021.7  | 1,735.6  | 2,712.9  | 2,227.5  |
| Australia                          | 1,023.4  | 1,204.8  | 865.7    | 1,086.4  | 1,705.0  | 1,309.6  | 2,222.7  | 1,677.6  |
| New Zealand                        | 107.1    | 172.3    | 200.9    | 176.4    | 279.0    | 192.8    | 439.2    | 221.8    |
| Papua New Guinea                   | 6.2      | 151.3    | 13.9     | 102.6    | 24.9     | 149.6    | 27.2     | 233.5    |
| <b>North America</b>               | 2,294.1  | 3,182.8  | 2,417.4  | 3,438.5  | 2,927.4  | 3,696.8  | 3,743.3  | 4,703.3  |
| Canada                             | 199.1    | 102.9    | 218.3    | 107.8    | 227.5    | 104.8    | 257.1    | 225.0    |
| USA                                | 2,095.0  | 3,079.9  | 2,199.1  | 3,330.8  | 2,699.9  | 3,592.0  | 3,486.1  | 4,478.3  |
| <b>Central &amp; South America</b> | 95.6     | 200.1    | 144.7    | 231.3    | 97.3     | 371.7    | 120.0    | 469.5    |

Source : Port of Singapore Authority

# 11.8 MINERAL OIL HANDLED BY COUNTRY/AREA, 1989-1992

Thousand Freight Tonnes

| Country/Area                       | 1989     |          | 1990     |          | 1991     |          | 1992 <sup>P</sup> |          |
|------------------------------------|----------|----------|----------|----------|----------|----------|-------------------|----------|
|                                    | Inward   | Outward  | Inward   | Outward  | Inward   | Outward  | Inward            | Outward  |
| <b>All Countries/Areas</b>         | 51,908.2 | 32,511.9 | 53,334.6 | 33,570.9 | 56,123.0 | 35,391.8 | 65,900.0          | 39,500.0 |
| <b>South East Asia</b>             | 7,758.7  | 11,382.5 | 8,619.7  | 12,812.8 | 8,707.9  | 13,824.5 | 10,601.5          | 16,947.3 |
| <b>North East Asia</b>             | 5,161.9  | 15,280.9 | 5,142.8  | 14,591.9 | 6,245.3  | 12,683.5 | 6,528.1           | 14,197.0 |
| China                              | 4,093.7  | 2,200.7  | 3,964.0  | 736.0    | 3,789.8  | 813.9    | 3,333.8           | 1,159.3  |
| Hong Kong                          | 190.7    | 5,232.4  | 91.7     | 5,654.9  | 233.6    | 5,069.6  | 80.6              | 6,760.9  |
| Japan                              | 639.1    | 6,464.9  | 647.5    | 5,900.9  | 802.3    | 4,873.1  | 995.9             | 4,003.9  |
| Korea                              | 79.6     | 524.7    | 366.7    | 834.6    | 1,161.7  | 992.4    | 1,955.9           | 1,514.6  |
| Taiwan                             | 158.8    | 840.6    | 72.9     | 1,458.7  | 255.3    | 933.5    | 161.8             | 758.3    |
| <b>South Asia</b>                  | 538.3    | 791.7    | 645.0    | 1,329.2  | 629.5    | 2,209.4  | 628.7             | 2,601.8  |
| India                              | 64.7     | 412.2    | 230.1    | 427.1    | 165.4    | 1,265.5  | 438.0             | 1,498.9  |
| Sri Lanka                          | 96.3     | 191.4    | 78.3     | 22.2     | 122.3    | 115.9    | 33.3              | 338.8    |
| <b>West Asia</b>                   | 34,133.0 | 815.5    | 34,569.6 | 714.7    | 34,620.9 | 2,716.0  | 39,982.6          | 1,700.9  |
| Bahrain                            | 2,022.0  | 84.4     | 1,634.1  | 78.8     | 1,498.1  | 19.1     | 1,291.0           | -        |
| Iran                               | 3,109.6  | 202.3    | 2,489.7  | 26.0     | 3,233.1  | 320.6    | 2,836.0           | 530.2    |
| Iraq                               | -        | -        | 458.5    | -        | -        | -        | -                 | -        |
| Kuwait                             | 5,691.1  | -        | 4,252.0  | -        | 806.3    | 84.2     | 3,888.9           | 130.2    |
| Saudi Arabia                       | 15,574.3 | 480.7    | 14,772.0 | 12.7     | 18,123.9 | 1,319.8  | 22,750.4          | 786.9    |
| United Arab Emirates               | 5,302.3  | 9.6      | 6,676.3  | 508.6    | 6,895.4  | 818.6    | 6,232.2           | 189.5    |
| <b>Africa</b>                      | 491.0    | 148.5    | 634.3    | 63.2     | 317.0    | 286.7    | 841.1             | 12.9     |
| <b>EEC</b>                         | 344.3    | 36.1     | 689.0    | 53.0     | 267.3    | 158.1    | 1,514.0           | 22.6     |
| <b>Other Europe</b>                | 139.5    | 28.5     | 2.2      | 118.3    | 276.1    | 125.3    | 559.7             | 60.4     |
| <b>Oceania</b>                     | 1,061.9  | 2,685.1  | 2,003.3  | 2,823.7  | 2,160.5  | 2,496.7  | 2,082.2           | 2,693.8  |
| Australia                          | 1,042.2  | 1,585.9  | 1,953.2  | 1,301.9  | 1,847.2  | 1,321.7  | 1,931.1           | 1,523.8  |
| New Zealand                        | -        | 5.6      | 9.5      | 74.0     | 102.7    | 46.6     | 42.0              | 20.4     |
| <b>North America</b>               | 534.1    | 1,100.9  | 353.6    | 985.6    | 1,303.6  | 775.4    | 1,486.0           | 896.0    |
| USA                                | 534.1    | 1,100.9  | 353.5    | 985.6    | 1,303.6  | 775.4    | 1,486.0           | 896.0    |
| <b>Central &amp; South America</b> | 408.6    | 97.8     | 675.1    | 0.4      | 1,514.5  | 9.1      | 1,563.4           | 1.7      |

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

Source : Port of Singapore Authority



# 11.9 CIVIL AIRCRAFT LANDINGS, PASSENGERS AND PARCEL MAIL, 1982-1992

| Year | Aircraft Landings | Passengers |           |            | Parcel Mail |           |
|------|-------------------|------------|-----------|------------|-------------|-----------|
|      |                   | Arriving   | Departing | In Transit | In-coming   | Out-going |
|      | Number            | Persons    |           |            | Tonnes      |           |
| 1982 | 34,068            | 3,787,411  | 3,791,145 | 1,033,256  | 4,043       | 4,286     |
| 1983 | 33,776            | 3,830,720  | 3,855,604 | 992,828    | 4,322       | 4,708     |
| 1984 | 35,327            | 4,180,752  | 4,221,117 | 1,063,782  | 4,308       | 4,978     |
| 1985 | 36,600            | 4,323,587  | 4,397,908 | 1,135,335  | 4,711       | 5,741     |
| 1986 | 36,514            | 4,445,576  | 4,489,692 | 1,132,451  | 4,422       | 5,527     |
| 1987 | 38,131            | 5,017,163  | 5,027,601 | 1,159,029  | 4,208       | 5,351     |
| 1988 | 41,646            | 5,686,450  | 5,719,996 | 1,188,838  | 4,359       | 5,102     |
| 1989 | 43,694            | 6,490,959  | 6,482,278 | 1,163,130  | 4,391       | 5,212     |
| 1990 | 48,803            | 7,237,233  | 7,166,347 | 1,217,178  | 4,159       | 4,535     |
| 1991 | 54,339            | 7,584,541  | 7,479,948 | 1,220,550  | 5,034       | 4,679     |
| 1992 | 62,770            | 8,446,027  | 8,432,221 | 1,221,907  | 5,948       | 6,073     |

Note : Figures from 1989 refer to Changi Airport only.

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

# 11.10 AIR CARGO DISCHARGED AND LOADED BY REGION AND SELECTED COUNTRY OF ORIGIN AND DESTINATION, 1987-1992

Tonnes

| Region/Country of<br>Origin or Destination | 1987       |         | 1988       |         | 1989       |         | 1990       |         | 1991       |         | 1992       |         |
|--------------------------------------------|------------|---------|------------|---------|------------|---------|------------|---------|------------|---------|------------|---------|
|                                            | Discharged | Loaded  | Discharged | Loaded  | Discharged | Loaded  | Discharged | Loaded  | Discharged | Loaded  | Discharged | Loaded  |
| <b>Total</b>                               | 222,160    | 196,937 | 263,639    | 248,868 | 297,198    | 280,412 | 324,157    | 299,684 | 342,261    | 300,948 | 386,792    | 332,212 |
| <b>South East Asia</b>                     | 61,838     | 43,027  | 77,668     | 59,149  | 92,484     | 68,452  | 97,686     | 77,935  | 103,169    | 71,229  | 120,489    | 78,534  |
| Malaysia                                   | 12,617     | 13,655  | 15,917     | 15,125  | 17,562     | 17,350  | 19,373     | 20,396  | 21,640     | 21,316  | 24,262     | 20,785  |
| Philippines                                | 4,055      | 4,990   | 4,423      | 5,419   | 3,923      | 5,988   | 3,730      | 6,066   | 3,973      | 5,502   | 4,090      | 6,851   |
| Thailand                                   | 21,093     | 9,402   | 22,599     | 16,070  | 26,427     | 20,209  | 24,780     | 20,293  | 26,952     | 19,384  | 31,601     | 23,234  |
| <b>North East Asia</b>                     | 66,112     | 51,859  | 79,912     | 69,529  | 88,208     | 83,782  | 104,614    | 90,310  | 108,461    | 103,732 | 112,526    | 112,125 |
| Hong Kong                                  | 14,603     | 14,527  | 15,566     | 18,827  | 16,147     | 22,617  | 18,992     | 24,181  | 18,633     | 27,296  | 22,373     | 28,388  |
| Japan                                      | 27,763     | 22,920  | 35,934     | 32,423  | 38,431     | 37,629  | 44,564     | 41,121  | 48,170     | 48,331  | 46,957     | 51,312  |
| Taiwan                                     | 15,770     | 5,956   | 18,274     | 7,109   | 18,878     | 7,132   | 22,702     | 8,178   | 22,210     | 9,567   | 21,165     | 13,436  |
| <b>South Asia</b>                          | 12,879     | 11,447  | 14,256     | 13,816  | 18,017     | 15,038  | 19,399     | 13,550  | 19,194     | 12,555  | 22,164     | 13,830  |
| India                                      | 8,749      | 6,223   | 9,359      | 7,545   | 11,652     | 8,319   | 12,268     | 7,550   | 10,994     | 6,280   | 13,240     | 7,360   |
| <b>West Asia</b>                           | 1,345      | 5,526   | 2,060      | 6,014   | 2,448      | 6,363   | 2,850      | 7,328   | 1,815      | 6,371   | 2,912      | 7,360   |
| <b>Oceania</b>                             | 29,882     | 19,185  | 28,893     | 23,597  | 29,480     | 28,466  | 35,390     | 25,877  | 45,526     | 26,133  | 52,980     | 27,683  |
| Australia                                  | 26,828     | 15,044  | 26,082     | 19,174  | 26,430     | 22,446  | 32,637     | 20,486  | 41,698     | 21,068  | 47,692     | 22,141  |
| New Zealand                                | 2,871      | 3,598   | 2,541      | 3,264   | 2,807      | 4,679   | 2,420      | 4,335   | 3,435      | 4,024   | 4,858      | 4,504   |
| <b>Europe</b>                              | 34,794     | 46,918  | 41,315     | 52,945  | 47,594     | 54,400  | 49,637     | 61,310  | 49,284     | 60,726  | 57,433     | 68,954  |
| France                                     | 2,904      | 3,816   | 2,424      | 3,449   | 2,359      | 3,055   | 2,847      | 2,999   | 2,607      | 2,481   | 4,245      | 2,884   |
| Germany <sup>1</sup>                       | 2,938      | 4,479   | 3,114      | 4,026   | 3,745      | 4,127   | 4,862      | 5,856   | 4,936      | 5,519   | 7,152      | 6,505   |
| Netherlands                                | 5,588      | 9,718   | 7,716      | 10,077  | 8,468      | 9,543   | 8,544      | 10,475  | 10,152     | 10,763  | 9,906      | 13,440  |
| Scandinavia                                | 2,467      | 2,603   | 3,554      | 2,460   | 6,133      | 3,479   | 6,004      | 3,843   | 6,318      | 4,092   | 6,277      | 4,602   |
| Switzerland                                | 3,993      | 3,403   | 3,338      | 3,913   | 3,310      | 3,062   | 3,161      | 3,014   | 4,812      | 3,643   | 8,227      | 7,428   |
| United Kingdom                             | 4,614      | 9,826   | 7,074      | 11,771  | 8,995      | 13,172  | 10,662     | 12,923  | 8,165      | 11,611  | 7,906      | 10,526  |
| <b>North America</b>                       | 14,811     | 17,595  | 18,880     | 20,912  | 17,987     | 20,644  | 13,542     | 19,797  | 13,793     | 16,749  | 16,742     | 20,402  |
| USA                                        | 14,737     | 17,354  | 18,259     | 19,942  | 16,831     | 19,165  | 12,354     | 18,323  | 12,012     | 15,086  | 14,738     | 18,676  |
| <b>Other Regions</b>                       | 500        | 1,379   | 653        | 2,906   | 980        | 3,267   | 1,036      | 3,578   | 1,019      | 3,453   | 1,546      | 3,324   |

Notes : See note to Table 11.9.

Data exclude passenger baggage, diplomatic cargo and aircraft stores.

Source : Civil Aviation Authority of Singapore

<sup>1</sup> Data prior to 1991 referred to West Germany only.



# 11.11 AIR PASSENGERS BY REGION AND SELECTED COUNTRY OF EMBARKATION AND DISEMBARKATION, 1987-1992

| Region/Country of Embarkation or Disembarkation | 1987      |            | 1988      |            | 1989      |            | 1990      |            | 1991      |            | 1992      |            | Number |
|-------------------------------------------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|--------|
|                                                 | Arrivals  | Departures | Arrivals  | Departures | Arrivals  | Departures | Arrivals  | Departures | Arrivals  | Departures | Arrivals  | Departures |        |
| <b>Total</b>                                    | 5,017,163 | 5,027,601  | 5,686,450 | 5,719,996  | 6,490,959 | 6,482,278  | 7,237,233 | 7,166,347  | 7,584,541 | 7,479,948  | 8,446,027 | 8,432,221  |        |
| <b>South East Asia</b>                          | 2,378,986 | 2,347,156  | 2,692,161 | 2,635,475  | 3,063,288 | 2,980,108  | 3,425,010 | 3,301,570  | 3,661,119 | 3,534,603  | 3,980,191 | 3,880,206  |        |
| ASEAN                                           | 2,377,236 | 2,344,952  | 2,677,064 | 2,622,887  | 3,062,830 | 2,979,545  | 3,418,596 | 3,294,612  | 3,638,121 | 3,511,121  | 3,917,613 | 3,816,017  |        |
| Brunei                                          | )         | )          | 115,158   | 120,687    | 119,751   | 119,468    | 113,017   | 112,690    | 115,735   | 110,513    | 120,862   | 118,138    |        |
| Indonesia                                       | )         | )          | 667,338   | 679,420    | 775,512   | 795,313    | 861,638   | 893,331    | 956,870   | 1,006,083  | 1,080,100 | 1,125,976  |        |
| Malaysia                                        | ) na      | ) na       | 1,090,085 | 1,030,228  | 1,237,686 | 1,161,680  | 1,439,381 | 1,321,051  | 1,622,985 | 1,471,320  | 1,695,841 | 1,554,271  |        |
| Philippines                                     | )         | )          | 144,595   | 128,172    | 161,765   | 143,929    | 155,235   | 136,299    | 160,739   | 145,039    | 179,040   | 169,444    |        |
| Thailand                                        | )         | )          | 659,888   | 664,380    | 768,116   | 759,155    | 849,325   | 831,241    | 781,792   | 778,166    | 841,770   | 848,188    |        |
| <b>North East Asia</b>                          | 1,018,718 | 999,732    | 1,136,032 | 1,130,118  | 1,347,600 | 1,343,926  | 1,615,491 | 1,602,788  | 1,727,980 | 1,729,486  | 2,029,479 | 2,060,281  |        |
| Hong Kong                                       | 465,033   | 434,589    | 449,992   | 427,977    | 452,084   | 441,697    | 556,861   | 531,138    | 570,651   | 548,665    | 649,982   | 642,879    |        |
| Japan                                           | 375,224   | 382,762    | 476,344   | 485,896    | 639,064   | 648,364    | 758,569   | 777,761    | 758,332   | 778,459    | 813,811   | 885,490    |        |
| Taiwan                                          | 120,014   | 118,127    | 134,804   | 141,812    | 164,283   | 162,832    | 194,690   | 186,736    | 263,323   | 268,019    | 322,100   | 351,047    |        |
| <b>South Asia</b>                               | 339,243   | 350,837    | 340,938   | 345,091    | 354,699   | 352,781    | 393,519   | 377,665    | 390,686   | 369,920    | 439,795   | 420,196    |        |
| India                                           | 223,527   | 235,864    | 216,257   | 222,044    | 221,110   | 222,133    | 244,447   | 232,822    | 226,708   | 216,435    | 258,111   | 243,600    |        |
| Pakistan                                        | 29,256    | 27,273     | 26,965    | 27,160     | 22,928    | 24,686     | 22,646    | 22,958     | 22,903    | 23,668     | 28,316    | 30,882     |        |
| Sri Lanka                                       | 51,281    | 50,852     | 55,830    | 51,392     | 64,043    | 58,266     | 73,692    | 68,767     | 82,862    | 72,175     | 89,357    | 83,785     |        |
| <b>West Asia</b>                                | 66,731    | 66,683     | 68,966    | 68,715     | 68,217    | 70,231     | 55,979    | 58,663     | 74,371    | 75,933     | 106,288   | 98,501     |        |
| <b>Oceania</b>                                  | 557,430   | 610,595    | 675,654   | 723,307    | 755,295   | 808,808    | 772,621   | 843,453    | 750,357   | 809,052    | 826,291   | 876,824    |        |
| Australia                                       | 467,769   | 515,890    | 571,726   | 615,899    | 634,435   | 684,861    | 655,829   | 721,661    | 639,766   | 695,666    | 712,992   | 755,041    |        |
| New Zealand                                     | 74,880    | 79,557     | 84,752    | 88,220     | 97,779    | 102,729    | 96,583    | 102,375    | 91,906    | 95,700     | 95,171    | 104,009    |        |
| <b>Europe</b>                                   | 526,400   | 523,982    | 616,325   | 659,868    | 718,990   | 736,410    | 782,155   | 779,748    | 775,382   | 755,051    | 819,197   | 833,202    |        |
| France                                          | 30,263    | 35,061     | 32,824    | 38,441     | 37,408    | 40,900     | 42,260    | 41,385     | 43,066    | 40,685     | 51,373    | 54,307     |        |
| Germany <sup>1</sup>                            | 47,704    | 57,926     | 68,653    | 74,119     | 89,503    | 88,838     | 103,022   | 102,938    | 104,327   | 104,310    | 126,053   | 126,021    |        |
| Netherlands                                     | 62,062    | 54,148     | 74,364    | 68,851     | 81,440    | 75,528     | 85,409    | 74,165     | 85,556    | 77,046     | 90,381    | 86,396     |        |
| Scandinavia                                     | 29,175    | 29,679     | 33,153    | 34,249     | 35,285    | 36,862     | 40,434    | 43,778     | 48,432    | 50,585     | 47,134    | 52,179     |        |
| Switzerland                                     | 36,796    | 42,829     | 46,081    | 52,570     | 53,684    | 58,009     | 50,973    | 54,821     | 58,299    | 59,965     | 53,846    | 59,593     |        |
| United Kingdom                                  | 211,118   | 185,586    | 228,418   | 237,541    | 256,542   | 246,455    | 289,171   | 274,114    | 301,168   | 279,280    | 313,403   | 298,937    |        |
| <b>North America</b>                            | 93,012    | 94,722     | 112,017   | 115,461    | 127,603   | 136,515    | 139,227   | 150,003    | 153,961   | 152,482    | 175,900   | 191,422    |        |
| USA                                             | 91,022    | 92,919     | 105,053   | 107,205    | 111,605   | 116,082    | 120,042   | 125,959    | 132,136   | 130,246    | 151,429   | 166,243    |        |
| <b>Other Regions</b>                            | 36,643    | 33,894     | 44,357    | 41,961     | 55,267    | 53,499     | 53,231    | 52,457     | 50,685    | 53,421     | 68,886    | 71,589     |        |

Notes : See note to Table 11.9.

Source : Civil Aviation Authority of Singapore

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

<sup>1</sup> Data prior to 1991 referred to West Germany only.



# 11.12 VISITOR ARRIVALS BY REGION AND SELECTED COUNTRY OF RESIDENCE, 1982-1992 (By Air, Sea and Land)

Thousand

| Region/Country of Residence   | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992    |
|-------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>Total</b>                  | 2,956.7 | 2,853.6 | 2,991.4 | 3,031.0 | 3,191.1 | 3,678.8 | 4,186.1 | 4,830.0 | 5,322.9 | 5,414.7 | 5,989.9 |
| <b>Americas</b>               | 186.7   | 204.1   | 213.9   | 219.0   | 231.7   | 260.6   | 281.8   | 316.1   | 337.1   | 326.8   | 367.2   |
| Canada                        | 24.9    | 27.8    | 26.9    | 31.0    | 32.6    | 36.6    | 42.6    | 55.3    | 61.1    | 58.5    | 63.9    |
| USA                           | 150.7   | 167.4   | 176.9   | 176.3   | 188.2   | 211.4   | 226.8   | 248.0   | 261.4   | 253.8   | 287.6   |
| <b>Asia</b>                   | 1,979.0 | 1,893.0 | 1,959.3 | 1,960.7 | 2,031.1 | 2,344.4 | 2,586.7 | 2,996.3 | 3,427.3 | 3,693.1 | 4,127.7 |
| ASEAN                         | 1,182.8 | 1,062.6 | 1,057.0 | 1,008.5 | 1,001.3 | 1,074.0 | 1,158.0 | 1,257.0 | 1,442.8 | 1,680.3 | 1,810.9 |
| Hong Kong                     | 92.9    | 92.9    | 98.5    | 97.7    | 104.8   | 125.1   | 124.1   | 147.5   | 194.1   | 213.1   | 232.6   |
| India                         | 121.5   | 154.4   | 192.7   | 218.5   | 236.6   | 243.5   | 203.7   | 194.1   | 216.5   | 209.7   | 195.5   |
| Japan                         | 378.5   | 370.6   | 369.5   | 377.7   | 404.3   | 541.4   | 682.4   | 841.4   | 971.6   | 871.3   | 1,000.8 |
| Korea                         | 34.0    | 37.4    | 36.0    | 31.0    | 30.4    | 36.6    | 55.2    | 87.7    | 108.9   | 133.4   | 156.4   |
| Pakistan                      | 14.4    | 15.7    | 19.1    | 20.9    | 26.1    | 33.5    | 33.8    | 33.9    | 33.2    | 37.8    | 40.2    |
| Saudi Arabia                  | 21.7    | 20.7    | 21.8    | 20.9    | 19.3    | 19.5    | 20.9    | 20.9    | 16.9    | 16.4    | 20.7    |
| Sri Lanka                     | 21.2    | 23.1    | 25.7    | 25.2    | 28.1    | 28.4    | 38.2    | 50.8    | 47.8    | 56.0    | 58.1    |
| Taiwan                        | 65.1    | 68.0    | 80.3    | 82.8    | 100.4   | 148.4   | 152.1   | 223.8   | 224.8   | 287.1   | 386.1   |
| <b>Europe</b>                 | 424.5   | 418.1   | 445.0   | 468.4   | 520.1   | 619.3   | 810.7   | 901.1   | 943.6   | 888.0   | 957.6   |
| Austria                       | 8.2     | 7.8     | 8.3     | 9.3     | 12.1    | 14.8    | 19.4    | 21.8    | 23.2    | 18.0    | 19.6    |
| Belgium & Luxembourg          | 8.3     | 8.9     | 9.6     | 9.5     | 11.1    | 12.2    | 15.7    | 16.8    | 17.9    | 15.8    | 18.3    |
| France                        | 41.1    | 37.1    | 42.2    | 41.4    | 43.6    | 47.5    | 63.1    | 68.8    | 73.1    | 69.6    | 73.8    |
| Greece                        | 6.7     | 5.4     | 7.2     | 9.0     | 12.4    | 19.0    | 23.9    | 20.1    | 18.3    | 14.1    | 15.0    |
| Italy                         | 23.0    | 21.5    | 25.6    | 26.0    | 30.5    | 37.3    | 53.5    | 55.0    | 56.3    | 51.8    | 56.6    |
| Netherlands                   | 41.4    | 40.6    | 40.2    | 40.5    | 42.7    | 48.2    | 63.9    | 70.9    | 73.8    | 72.2    | 78.2    |
| Scandinavia                   | 36.0    | 37.2    | 40.8    | 45.4    | 53.6    | 67.9    | 86.9    | 95.2    | 100.5   | 95.2    | 92.5    |
| Switzerland                   | 26.2    | 25.4    | 27.9    | 32.2    | 35.6    | 40.4    | 56.3    | 62.6    | 60.4    | 57.7    | 60.6    |
| United Kingdom                | 149.9   | 150.4   | 150.2   | 158.4   | 170.1   | 195.2   | 253.6   | 281.3   | 296.6   | 274.7   | 303.3   |
| Germany <sup>1</sup>          | 68.1    | 67.3    | 72.8    | 73.9    | 78.4    | 93.3    | 118.5   | 140.6   | 140.8   | 142.4   | 160.4   |
| Soviet Union & Eastern Europe | 4.6     | 5.6     | 8.6     | 11.3    | 16.9    | 26.2    | 30.0    | 39.3    | 49.5    | 46.5    | 37.9    |
| <b>Oceania</b>                | 351.2   | 325.4   | 359.2   | 368.8   | 390.4   | 421.2   | 458.0   | 558.9   | 550.7   | 449.9   | 467.1   |
| Australia                     | 282.0   | 259.4   | 291.1   | 300.8   | 315.9   | 330.2   | 361.5   | 450.2   | 456.6   | 368.0   | 385.1   |
| New Zealand                   | 59.9    | 57.0    | 58.9    | 57.5    | 62.3    | 76.5    | 79.1    | 86.7    | 72.7    | 62.0    | 62.0    |
| <b>Others</b>                 | 15.3    | 13.0    | 14.2    | 14.1    | 17.7    | 33.4    | 48.9    | 57.6    | 64.2    | 56.9    | 70.3    |
| Africa                        | 12.6    | 12.5    | 13.5    | 13.0    | 15.9    | 31.5    | 46.6    | 55.0    | 56.2    | 55.7    | 69.7    |

Note : Exclude arrivals of Malaysians by land.

1 Data prior to 1991 referred to West Germany only.

Source : Singapore Tourist Promotion Board



# 11.13 VISITOR ARRIVALS BY NATIONALITY, 1982-1992 (By Air, Sea and Land)

Thousand

| Nationality                         | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992    |
|-------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>Total</b>                        | 2,956.7 | 2,853.6 | 2,991.4 | 3,031.0 | 3,191.1 | 3,678.8 | 4,186.1 | 4,830.0 | 5,322.9 | 5,414.7 | 5,989.9 |
| <b>Americas</b>                     | 226.4   | 241.8   | 247.1   | 248.8   | 260.3   | 286.6   | 307.8   | 344.6   | 370.6   | 354.0   | 399.3   |
| Canada                              | 32.3    | 35.3    | 34.1    | 38.0    | 39.7    | 43.8    | 49.5    | 60.9    | 67.5    | 65.1    | 72.3    |
| USA                                 | 181.1   | 196.2   | 201.1   | 197.8   | 208.3   | 228.5   | 243.5   | 267.9   | 283.3   | 271.0   | 307.6   |
| <b>Asia</b>                         | 1,786.7 | 1,714.1 | 1,782.1 | 1,791.5 | 1,858.0 | 2,156.1 | 2,402.4 | 2,792.2 | 3,177.5 | 3,417.4 | 3,823.0 |
| ASEAN                               | 1,036.5 | 928.3   | 927.5   | 890.4   | 882.8   | 959.6   | 1,045.5 | 1,141.4 | 1,321.1 | 1,551.3 | 1,669.3 |
| India                               | 168.4   | 202.7   | 237.7   | 259.0   | 279.1   | 284.0   | 242.1   | 234.8   | 259.9   | 256.7   | 245.3   |
| Japan                               | 389.1   | 381.4   | 383.3   | 390.2   | 417.9   | 556.6   | 700.3   | 860.5   | 990.5   | 887.7   | 1,020.9 |
| Korea                               | 37.3    | 41.9    | 40.7    | 35.7    | 35.5    | 43.3    | 62.4    | 95.7    | 116.6   | 140.8   | 164.3   |
| Pakistan                            | 16.8    | 18.0    | 21.5    | 23.0    | 28.3    | 36.0    | 36.6    | 36.9    | 36.2    | 40.7    | 43.6    |
| Sri Lanka                           | 24.1    | 25.8    | 28.4    | 28.3    | 32.0    | 32.7    | 43.0    | 57.9    | 54.6    | 63.0    | 65.5    |
| Taiwan                              | 67.6    | 69.9    | 84.2    | 87.0    | 104.0   | 152.8   | 155.7   | 227.5   | 229.5   | 291.8   | 390.6   |
| Saudi Arabia                        | 9.5     | 8.9     | 10.5    | 9.8     | 10.1    | 11.6    | 12.1    | 12.1    | 10.0    | 10.6    | 13.0    |
| United Arab Emirates                | 1.5     | 1.2     | 1.2     | 1.0     | 1.5     | 2.1     | 2.5     | 2.7     | 2.2     | 2.9     | 2.9     |
| <b>Europe</b>                       | 602.3   | 587.9   | 619.3   | 638.9   | 699.7   | 820.1   | 1,019.2 | 1,132.7 | 1,204.8 | 1,157.5 | 1,246.7 |
| Belgium & Luxembourg                | 8.2     | 8.7     | 9.3     | 9.2     | 10.9    | 11.9    | 15.3    | 16.0    | 17.1    | 15.3    | 17.5    |
| France                              | 49.5    | 44.8    | 50.2    | 49.5    | 53.4    | 60.5    | 79.1    | 85.6    | 89.4    | 84.8    | 90.5    |
| Germany                             | 73.3    | 72.7    | 78.6    | 79.3    | 84.8    | 99.9    | 125.7   | 147.9   | 146.9   | 147.9   | 166.1   |
| Italy                               | 24.3    | 23.0    | 27.4    | 27.9    | 32.4    | 39.5    | 56.4    | 58.1    | 59.4    | 54.7    | 60.0    |
| Netherlands                         | 50.9    | 50.7    | 50.0    | 50.0    | 52.1    | 58.0    | 74.6    | 82.0    | 83.3    | 83.8    | 90.2    |
| Scandinavia                         | 41.1    | 42.9    | 46.1    | 50.7    | 59.9    | 74.1    | 93.2    | 103.0   | 108.5   | 103.2   | 100.9   |
| Switzerland                         | 25.8    | 24.7    | 26.9    | 30.8    | 34.3    | 38.9    | 53.3    | 59.7    | 58.3    | 55.7    | 58.4    |
| United Kingdom (incl. Dependencies) | 292.4   | 284.5   | 287.2   | 291.9   | 309.0   | 350.0   | 411.5   | 459.1   | 507.3   | 490.8   | 535.2   |
| U.K. Dependency (Hong Kong)         | 64.1    | 60.1    | 62.2    | 61.0    | 64.7    | 77.2    | 76.2    | 89.7    | 125.1   | 140.0   | 152.5   |
| Soviet Union & Eastern Europe       | 5.5     | 6.4     | 10.0    | 12.9    | 18.5    | 28.4    | 32.3    | 40.4    | 50.2    | 49.6    | 41.0    |
| <b>Oceania</b>                      | 305.8   | 284.2   | 310.9   | 319.4   | 335.5   | 359.0   | 386.6   | 476.6   | 475.3   | 392.3   | 415.3   |
| Australia                           | 246.5   | 227.1   | 252.2   | 261.9   | 273.3   | 283.4   | 306.7   | 383.7   | 395.0   | 323.4   | 344.5   |
| New Zealand                         | 56.7    | 54.4    | 56.2    | 54.2    | 58.8    | 71.8    | 74.7    | 83.9    | 72.0    | 62.2    | 63.6    |
| <b>Others</b>                       | 35.5    | 25.5    | 32.0    | 32.3    | 37.5    | 57.0    | 70.1    | 83.9    | 94.7    | 93.5    | 105.6   |
| Africa                              | 10.6    | 10.8    | 11.3    | 10.9    | 13.7    | 27.1    | 40.1    | 48.1    | 52.7    | 52.1    | 60.8    |

Note : Exclude arrivals of Malaysians by land.

Source : Singapore Tourist Promotion Board

**11.14 VISITOR ARRIVALS BY a) SEX AND b) AGE GROUP, 1982-1992**  
(By Air, Sea and Land)

Thousand

|                            |                  | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992    |
|----------------------------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>Total</b>               |                  | 2,956.7 | 2,853.6 | 2,991.4 | 3,031.0 | 3,191.1 | 3,678.8 | 4,186.1 | 4,830.0 | 5,322.9 | 5,414.7 | 5,989.9 |
| <b>Sex</b>                 |                  |         |         |         |         |         |         |         |         |         |         |         |
| Males                      |                  | 1,958.8 | 1,910.5 | 2,004.7 | 2,002.1 | 2,065.1 | 2,309.1 | 2,616.3 | 2,996.0 | 3,313.9 | 3,373.0 | 3,701.7 |
| Females                    |                  | 997.9   | 943.1   | 986.7   | 1,028.9 | 1,126.0 | 1,369.7 | 1,569.8 | 1,834.0 | 2,009.0 | 2,041.7 | 2,288.2 |
| <b>Age Group (Years)</b>   |                  |         |         |         |         |         |         |         |         |         |         |         |
| <u>1982-1988</u>           | <u>1989-1992</u> |         |         |         |         |         |         |         |         |         |         |         |
| Under 20                   | Under 15         | 277.8   | 251.1   | 267.1   | 276.7   | 291.3   | 332.4   | 367.9   | 295.5   | 338.2   | 337.4   | 366.8   |
|                            | 15 - 19          |         |         |         |         |         |         |         | 129.8   | 141.8   | 147.9   | 160.4   |
| 20 - 29                    | 20 - 24          | 687.0   | 653.9   | 668.0   | 681.8   | 712.8   | 820.8   | 937.8   | 423.7   | 466.0   | 485.3   | 528.7   |
|                            | 25 - 34          |         |         |         |         |         |         |         | 1,279.1 | 1,412.3 | 1,471.3 | 1,577.3 |
| 30 - 39                    | 35 - 44          | 818.2   | 799.1   | 835.9   | 839.0   | 868.3   | 971.2   | 1,084.4 | 1,150.1 | 1,274.7 | 1,318.1 | 1,421.3 |
| 40 - 49                    | 45 - 54          | 568.3   | 558.4   | 593.9   | 593.6   | 632.2   | 735.8   | 865.7   | 817.4   | 892.8   | 893.3   | 1,035.8 |
| 50 - 59                    | 55 - 64          | 363.3   | 348.1   | 366.3   | 368.9   | 394.5   | 463.5   | 534.8   | 484.2   | 519.7   | 493.1   | 583.2   |
| 60 & Over                  | 65 & Over        | 228.3   | 231.2   | 248.1   | 258.6   | 279.2   | 340.0   | 380.0   | 236.6   | 250.8   | 232.6   | 281.8   |
| Not Stated                 | Not Stated       | 13.8    | 11.8    | 12.1    | 12.4    | 12.8    | 15.0    | 15.5    | 13.5    | 26.6    | 35.7    | 34.6    |
| <b>Average Age (Years)</b> |                  | 37.0    | 37.3    | 37.5    | 37.4    | 37.6    | 37.8    | 37.9    | 37.7    | 37.5    | 37.1    | 37.6    |

Note : Exclude arrivals of Malaysians by land.

Source : Singapore Tourist Promotion Board



**11.15 VISITOR ARRIVALS BY a) PURPOSE OF VISIT AND b) TYPE OF ACCOMMODATION, 1982-1992**  
(By Air, Sea and Land)

|                                |         |         |         |         |         |         |         |         |         |         | Thousand |
|--------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
|                                | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992     |
| <b>Total</b>                   | 2,956.7 | 2,853.6 | 2,991.4 | 3,031.0 | 3,191.1 | 3,678.8 | 4,186.1 | 4,830.0 | 5,322.9 | 5,414.7 | 5,989.9  |
| <b>Purpose of Visit</b>        |         |         |         |         |         |         |         |         |         |         |          |
| Holiday                        | 1,942.7 | 1,793.0 | 1,855.7 | 1,904.3 | 2,039.0 | 2,443.5 | 2,786.2 | 3,101.2 | 3,312.4 | 3,133.1 | 3,519.1  |
| Business                       | 365.4   | 377.6   | 407.2   | 395.7   | 403.5   | 456.4   | 531.9   | 610.1   | 691.5   | 759.9   | 792.3    |
| Business & Holiday             | 166.8   | 160.3   | 175.7   | 162.4   | 159.9   | 172.2   | 187.2   | 205.3   | 214.3   | 198.5   | 199.8    |
| In Transit                     | 260.7   | 279.4   | 288.3   | 293.0   | 289.5   | 305.8   | 352.9   | 432.7   | 481.2   | 501.8   | 544.3    |
| Others                         | 221.1   | 243.2   | 264.5   | 275.5   | 299.1   | 300.9   | 327.8   | 480.7   | 623.4   | 821.4   | 934.4    |
| <b>Type of Accommodation</b>   |         |         |         |         |         |         |         |         |         |         |          |
| Hotel                          | 2,115.9 | 1,995.1 | 2,109.0 | 2,145.5 | 2,324.5 | 2,789.7 | 3,232.4 | 3,744.6 | 4,010.2 | 3,897.8 | 4,381.5  |
| Residence of Friends/Relatives | 470.1   | 453.9   | 463.6   | 447.7   | 416.6   | 421.2   | 447.7   | 511.7   | 609.5   | 697.1   | 715.5    |
| Others                         | 214.4   | 242.1   | 238.2   | 259.9   | 274.8   | 289.1   | 314.4   | 347.5   | 426.3   | 512.2   | 564.2    |
| No Accommodations Required     | 156.3   | 162.6   | 180.6   | 177.9   | 175.2   | 178.9   | 191.6   | 226.1   | 276.8   | 307.6   | 328.7    |

Note : See notes to Table 11.14.

Source : Singapore Tourist Promotion Board

# 11.16 VISITOR ARRIVALS BY LENGTH OF STAY, 1982-1992 (By Air, Sea and Land)

Thousand

| Length of Stay (Days)                | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992    |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>Total</b>                         | 2,774.4 | 2,661.0 | 2,813.9 | 2,883.5 | 3,037.6 | 3,491.3 | 3,972.8 | 4,557.8 | 5,051.3 | 5,269.6 | 5,854.1 |
| Under 1                              | 267.9   | 278.9   | 287.0   | 290.8   | 301.1   | 335.6   | 384.7   | 446.9   | 566.1   | 709.7   | 802.7   |
| 1                                    | 526.5   | 542.1   | 595.4   | 636.5   | 644.2   | 717.1   | 823.2   | 934.7   | 1,044.2 | 1,133.3 | 1,273.0 |
| 2                                    | 588.8   | 563.6   | 596.4   | 619.5   | 676.7   | 828.2   | 918.6   | 1,074.7 | 1,172.2 | 1,178.3 | 1,382.0 |
| 3                                    | 457.7   | 414.5   | 437.5   | 450.6   | 480.6   | 593.2   | 708.2   | 808.3   | 873.5   | 853.1   | 958.3   |
| 4 - 7                                | 585.7   | 526.4   | 567.4   | 581.0   | 627.5   | 682.4   | 760.9   | 876.5   | 920.7   | 872.9   | 907.0   |
| 8 - 14                               | 232.1   | 222.7   | 206.5   | 191.5   | 198.6   | 221.1   | 249.0   | 279.6   | 318.6   | 351.2   | 351.2   |
| 15 & Over                            | 115.7   | 112.7   | 123.7   | 113.6   | 108.9   | 113.6   | 128.1   | 137.1   | 156.0   | 171.1   | 179.9   |
| <b>Average Length of Stay (Days)</b> | 3.8     | 3.7     | 3.6     | 3.5     | 3.5     | 3.4     | 3.4     | 3.3     | 3.3     | 3.3     | 3.1     |

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

Source : Singapore Tourist Promotion Board



# 11.17 VISITOR ARRIVALS, HOTELS AND CESS COLLECTION, 1982-1992

| Year | Visitor Arrivals | Tourist Hotels <sup>1</sup> |                           |                        |                  | Cess on Food & Beverages |
|------|------------------|-----------------------------|---------------------------|------------------------|------------------|--------------------------|
|      |                  | Number (At End Year)        | Number of Rooms Available | Average Occupancy Rate | Cess Collected   |                          |
|      | Thousand         |                             |                           | Per Cent               | Thousand Dollars |                          |
| 1982 | 2,956.7          | 47                          | 13,784                    | 80.8                   | 13,789.7         | 22,921.5                 |
| 1983 | 2,853.6          | 48                          | 13,549                    | 75.5                   | 12,936.6         | 24,232.4                 |
| 1984 | 2,991.4          | 51                          | 14,350                    | 75.5                   | 12,569.3         | 25,342.1                 |
| 1985 | 3,031.0          | 59                          | 16,172                    | 65.9                   | 10,998.5         | 23,557.1                 |
| 1986 | 3,191.1          | 60                          | 18,858                    | 64.7                   | 10,224.2         | 23,154.7                 |
| 1987 | 3,678.8          | 63                          | 21,891                    | 68.7                   | 11,503.4         | 26,737.0                 |
| 1988 | 4,186.1          | 67                          | 22,612                    | 79.3                   | 14,420.9         | 31,176.6                 |
| 1989 | 4,830.0          | 63                          | 22,675                    | 86.4                   | 20,408.1         | 35,586.8                 |
| 1990 | 5,322.9          | 65                          | 22,408                    | 84.0                   | 38,607.4         | 51,210.4                 |
| 1991 | 5,414.7          | 67                          | 22,700                    | 76.7                   | 30,883.3         | 42,473.9                 |
| 1992 | 5,989.9          | 68                          | 23,342                    | 79.8                   | 37,258.9         | 53,085.1                 |

<sup>1</sup> Refer to gazetted hotels.

Source : Singapore Tourist Promotion Board  
Customs & Excise Department

# 11.18 PUBLIC ROADS, 1982-1992

Kilometres

| End of Year | Total Public Roads | Paved Roads |             |                      |                 |                      | Local Roads Unimproved |
|-------------|--------------------|-------------|-------------|----------------------|-----------------|----------------------|------------------------|
|             |                    | Total       | Expressways | Major Arterial Roads | Collector Roads | Local Roads Improved |                        |
| 1982        | 2,533              | 2,297       | 54          | 373                  | 199             | 1,671                | 236                    |
| 1983        | 2,568              | 2,369       | 57          | 387                  | 211             | 1,714                | 199                    |
| 1984        | 2,597              | 2,434       | 57          | 408                  | 208             | 1,761                | 163                    |
| 1985        | 2,645              | 2,507       | 73          | 435                  | 202             | 1,797                | 138                    |
| 1986        | 2,686              | 2,573       | 77          | 458                  | 210             | 1,828                | 113                    |
| 1987        | 2,760              | 2,655       | 83          | 490                  | 227             | 1,855                | 105                    |
| 1988        | 2,810              | 2,725       | 96          | 500                  | 238             | 1,891                | 85                     |
| 1989        | 2,836              | 2,752       | 102         | 512                  | 242             | 1,896                | 84                     |
| 1990        | 2,882              | 2,798       | 104         | 529                  | 260             | 1,905                | 84                     |
| 1991        | 2,924              | 2,840       | 108         | 539                  | 282             | 1,911                | 84                     |
| 1992        | 2,967              | 2,883       | 109         | 554                  | 305             | 1,915                | 84                     |

Source : Public Works Department



# 11.19 MOTOR VEHICLE POPULATION, 1982-1992

| End of Year | Number  |                   |             |        |       |                |                         |        |
|-------------|---------|-------------------|-------------|--------|-------|----------------|-------------------------|--------|
|             | Total   | Cars <sup>1</sup> | Rental Cars | Taxis  | Buses | Goods Vehicles | Motor Cycles & Scooters | Others |
| 1982        | 440,276 | 179,635           | 4,515       | 10,283 | 7,585 | 94,632         | 136,899                 | 6,727  |
| 1983        | 476,288 | 202,092           | 4,168       | 10,673 | 7,985 | 102,533        | 141,569                 | 7,268  |
| 1984        | 491,322 | 217,119           | 4,159       | 11,062 | 8,283 | 108,631        | 134,693                 | 7,375  |
| 1985        | 486,760 | 221,279           | 4,030       | 10,941 | 8,717 | 107,146        | 127,564                 | 7,083  |
| 1986        | 473,659 | 220,566           | 3,314       | 10,677 | 8,638 | 103,429        | 120,387                 | 6,648  |
| 1987        | 471,124 | 222,487           | 3,081       | 10,552 | 8,733 | 102,643        | 116,544                 | 7,084  |
| 1988        | 491,808 | 237,801           | 3,140       | 10,473 | 8,924 | 106,843        | 117,570                 | 7,057  |
| 1989        | 520,537 | 257,371           | 3,135       | 10,652 | 9,126 | 111,940        | 120,996                 | 7,317  |
| 1990        | 542,352 | 271,174           | 3,343       | 12,239 | 9,448 | 115,536        | 122,525                 | 8,087  |
| 1991        | 559,304 | 283,746           | 3,665       | 12,705 | 9,478 | 118,209        | 122,410                 | 9,091  |
| 1992        | 557,584 | 285,500           | 3,879       | 13,445 | 9,658 | 119,335        | 116,532                 | 9,235  |

<sup>1</sup> Include private cars and company cars.

Source : Registry of Vehicles

# 11.20 ROAD CASUALTIES, 1982-1992

Persons

| Year | Total  |         | Pedestrians |         | Pedal Cyclists,<br>Trishaw Riders<br>& Passengers |         | Motor Cyclists<br>&<br>Passengers |         | Motor Vehicle<br>Drivers &<br>Passengers |         | Others |         |
|------|--------|---------|-------------|---------|---------------------------------------------------|---------|-----------------------------------|---------|------------------------------------------|---------|--------|---------|
|      | Killed | Injured | Killed      | Injured | Killed                                            | Injured | Killed                            | Injured | Killed                                   | Injured | Killed | Injured |
| 1982 | 307    | 12,582  | 96          | 2,112   | 25                                                | 684     | 126                               | 5,660   | 58                                       | 4,043   | 2      | 83      |
| 1983 | 298    | 10,953  | 115         | 1,965   | 33                                                | 424     | 100                               | 4,752   | 49                                       | 3,710   | 1      | 102     |
| 1984 | 327    | 11,529  | 114         | 2,002   | 26                                                | 408     | 116                               | 4,698   | 69                                       | 4,259   | 2      | 162     |
| 1985 | 265    | 9,506   | 75          | 1,513   | 28                                                | 419     | 84                                | 3,899   | 76                                       | 3,606   | 2      | 69      |
| 1986 | 251    | 8,124   | 69          | 1,224   | 18                                                | 352     | 115                               | 3,445   | 46                                       | 3,006   | 3      | 97      |
| 1987 | 205    | 8,056   | 73          | 1,149   | 16                                                | 291     | 86                                | 3,571   | 29                                       | 2,959   | 1      | 86      |
| 1988 | 226    | 6,739   | 81          | 1,135   | 14                                                | 285     | 101                               | 3,093   | 26                                       | 2,149   | 4      | 77      |
| 1989 | 232    | 6,726   | 64          | 1,004   | 11                                                | 257     | 110                               | 3,251   | 45                                       | 2,146   | 2      | 68      |
| 1990 | 236    | 6,667   | 88          | 1,039   | 16                                                | 249     | 89                                | 3,114   | 42                                       | 2,198   | 1      | 67      |
| 1991 | 243    | 6,591   | 69          | 912     | 18                                                | 258     | 112                               | 3,105   | 41                                       | 2,241   | 3      | 75      |
| 1992 | 240    | 7,190   | 65          | 995     | 18                                                | 263     | 103                               | 3,502   | 48                                       | 2,327   | 6      | 103     |

Source : Police Department



# 11.21 VEHICLES INVOLVED IN ROAD ACCIDENTS BY TYPE OF VEHICLE, 1982-1992

| Year | Number |             |             |           |                     |                                  |       |        |
|------|--------|-------------|-------------|-----------|---------------------|----------------------------------|-------|--------|
|      | Total  | Pedal Cycle | Motor Cycle | Motor Car | Light Goods Vehicle | Heavy Goods Vehicle <sup>1</sup> | Bus   | Others |
| 1982 | 16,126 | 737         | 5,705       | 5,468     | 1,792               | 1,485                            | 939   | -      |
| 1983 | 13,740 | 473         | 4,791       | 4,807     | 1,470               | 1,119                            | 944   | 136    |
| 1984 | 14,914 | 449         | 4,704       | 5,546     | 1,557               | 1,312                            | 1,125 | 221    |
| 1985 | 12,143 | 463         | 3,761       | 4,500     | 1,249               | 1,034                            | 983   | 153    |
| 1986 | 10,374 | 387         | 3,306       | 3,873     | 1,040               | 936                              | 704   | 128    |
| 1987 | 10,166 | 317         | 3,390       | 3,911     | 968                 | 855                              | 628   | 97     |
| 1988 | 8,755  | 301         | 3,013       | 3,238     | 857                 | 673                              | 548   | 125    |
| 1989 | 8,928  | 274         | 3,090       | 3,431     | 765                 | 767                              | 485   | 116    |
| 1990 | 8,967  | 280         | 2,969       | 3,615     | 729                 | 715                              | 508   | 151    |
| 1991 | 8,666  | 285         | 2,922       | 3,524     | 670                 | 755                              | 412   | 98     |
| 1992 | 9,171  | 289         | 3,180       | 3,666     | 672                 | 815                              | 467   | 82     |

<sup>1</sup> For 1982, heavy goods vehicles include lorries, tippers, tractors, rollers, trailers, cranes, land-rovers and other vehicles. From 1983, heavy goods vehicles include lorries, tippers, and trailers only.

Source : Police Department

# 11.22 POSTAL ARTICLES HANDLED, 1982-1992

Thousand

| Year | Total   | Ordinary Mail |         |         | Registered Mail | Parcel Mail | Local Urgent Mail | Express Mail | Speedpost Mail |
|------|---------|---------------|---------|---------|-----------------|-------------|-------------------|--------------|----------------|
|      |         | Domestic      | Surface | Air     |                 |             |                   |              |                |
| 1982 | 504,946 | 323,550       | 38,935  | 120,274 | 18,726          | 1,750       | 373               | 1,235        | 103            |
| 1983 | 562,141 | 372,055       | 40,048  | 127,657 | 18,785          | 1,784       | 427               | 1,249        | 136            |
| 1984 | 615,448 | 412,512       | 40,900  | 138,196 | 20,182          | 1,736       | 529               | 1,216        | 177            |
| 1985 | 627,991 | 435,062       | 43,444  | 125,251 | 20,449          | 1,628       | 598               | 1,326        | 233            |
| 1986 | 642,110 | 454,600       | 45,900  | 119,000 | 19,000          | 1,530       | 580               | 1,220        | 280            |
| 1987 | 685,220 | 496,241       | 48,622  | 118,074 | 18,761          | 1,394       | 639               | 1,153        | 336            |
| 1988 | 743,274 | 554,841       | 51,427  | 114,284 | 19,349          | 1,280       | 617               | 1,046        | 430            |
| 1989 | 815,697 | 621,680       | 48,879  | 121,690 | 19,988          | 1,231       | 566               | 1,067        | 596            |
| 1990 | 869,760 | 680,405       | 41,102  | 123,519 | 21,174          | 1,171       | 609               | 1,012        | 768            |
| 1991 | 931,398 | 721,310       | 49,435  | 136,408 | 20,352          | 1,333       | 692               | 948          | 920            |
| 1992 | 989,617 | 787,573       | 31,539  | 146,094 | 20,326          | 1,347       | 803               | 850          | 1,085          |

Source : Singapore Post



# 11.23 TELECOMMUNICATIONS, 1982-1992

Thousand

| Year              | Outgoing Telegrams  |                 | Outgoing Telex Calls |                 | International Telephone Calls <sup>1</sup> | Total Number of Telephone Lines Installed <sup>2</sup> |
|-------------------|---------------------|-----------------|----------------------|-----------------|--------------------------------------------|--------------------------------------------------------|
|                   | Peninsular Malaysia | Other Countries | Peninsular Malaysia  | Other Countries |                                            |                                                        |
| 1982              | 38                  | 445             | 966                  | 11,077          | 7,091                                      | 630                                                    |
| 1983              | 36                  | 378             | 1,273                | 12,620          | 9,673                                      | 679                                                    |
| 1984              | 43                  | 336             | 1,528                | 14,140          | 12,643                                     | 742                                                    |
| 1985              | 34                  | 273             | 1,561                | 14,682          | 15,725                                     | 796                                                    |
| 1986              | 35                  | 266             | 1,635                | 14,861          | 21,611                                     | 830                                                    |
| 1987              | 35                  | 238             | 1,530                | 14,496          | 30,797                                     | 875                                                    |
| 1988              | 27                  | 240             | 1,262                | 12,371          | 43,672                                     | 924                                                    |
| 1989              | 18                  | 222             | 1,025                | 10,394          | 58,653                                     | 981                                                    |
| 1990              | 18                  | 203             | 889                  | 8,645           | 73,888                                     | 1,040                                                  |
| 1991              | 16                  | 189             | 762                  | 7,046           | 88,438                                     | 1,080                                                  |
| 1992 <sup>p</sup> | 15                  | 164             | 590                  | 5,684           | 105,263                                    | 1,153                                                  |

<sup>1</sup> Exclude calls to Peninsular Malaysia.

Source : Singapore Telecom

<sup>2</sup> End of Period.

CHART 12

SEA CARGO HANDLED, 1982-1992

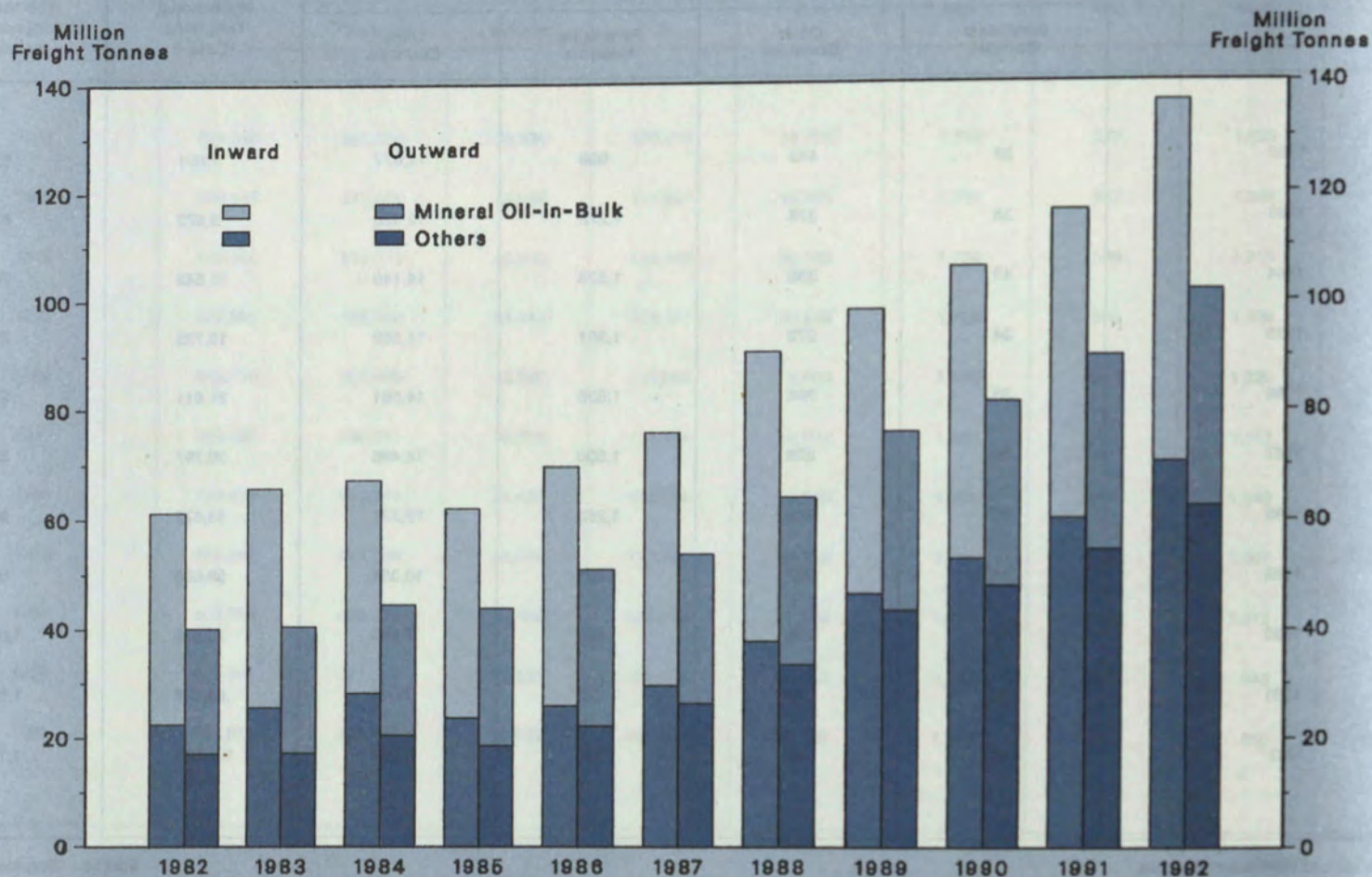




CHART 13

## AIR CARGO HANDLED, 1982-1992

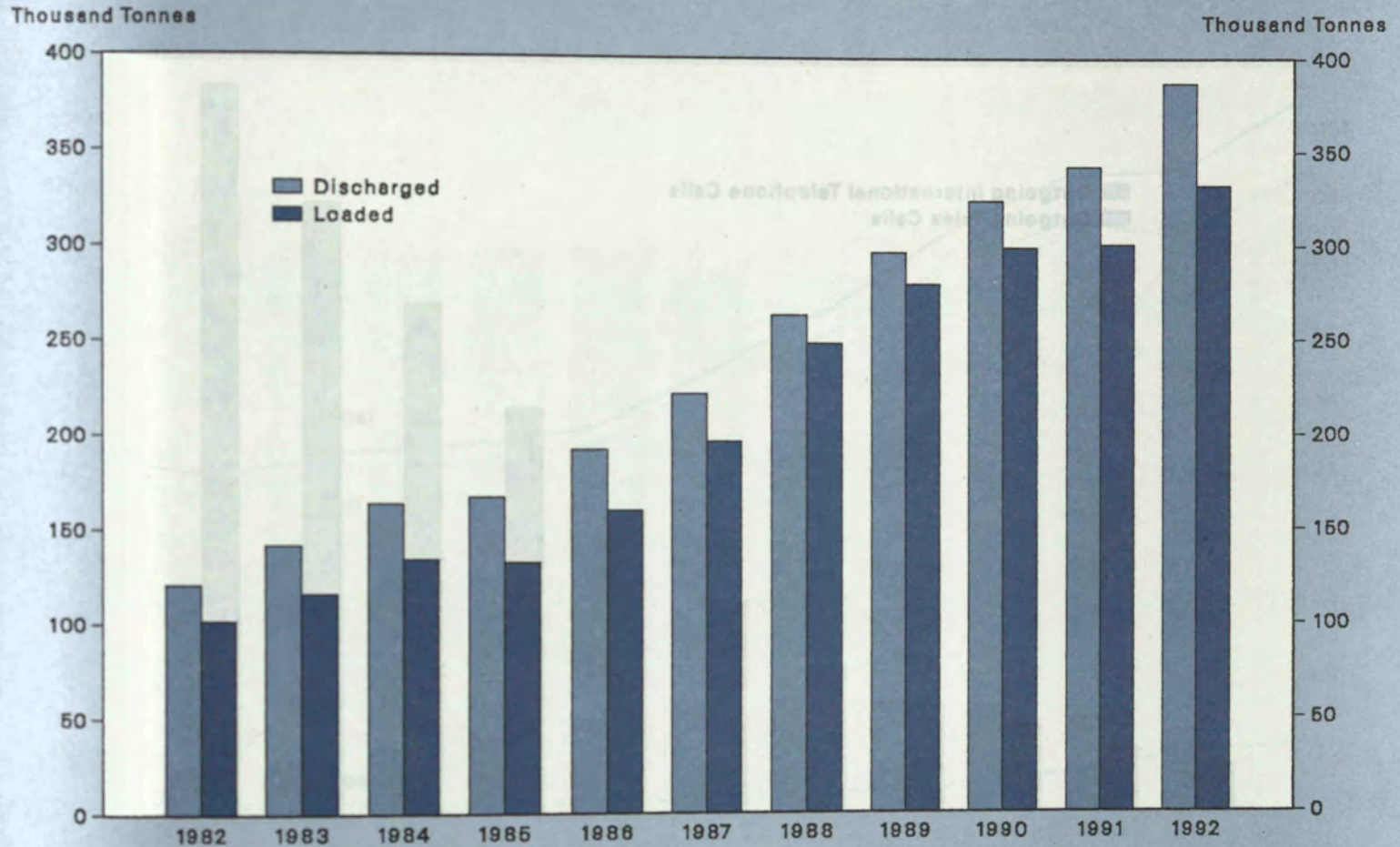


CHART 14

## TELECOMMUNICATIONS, 1982-1992

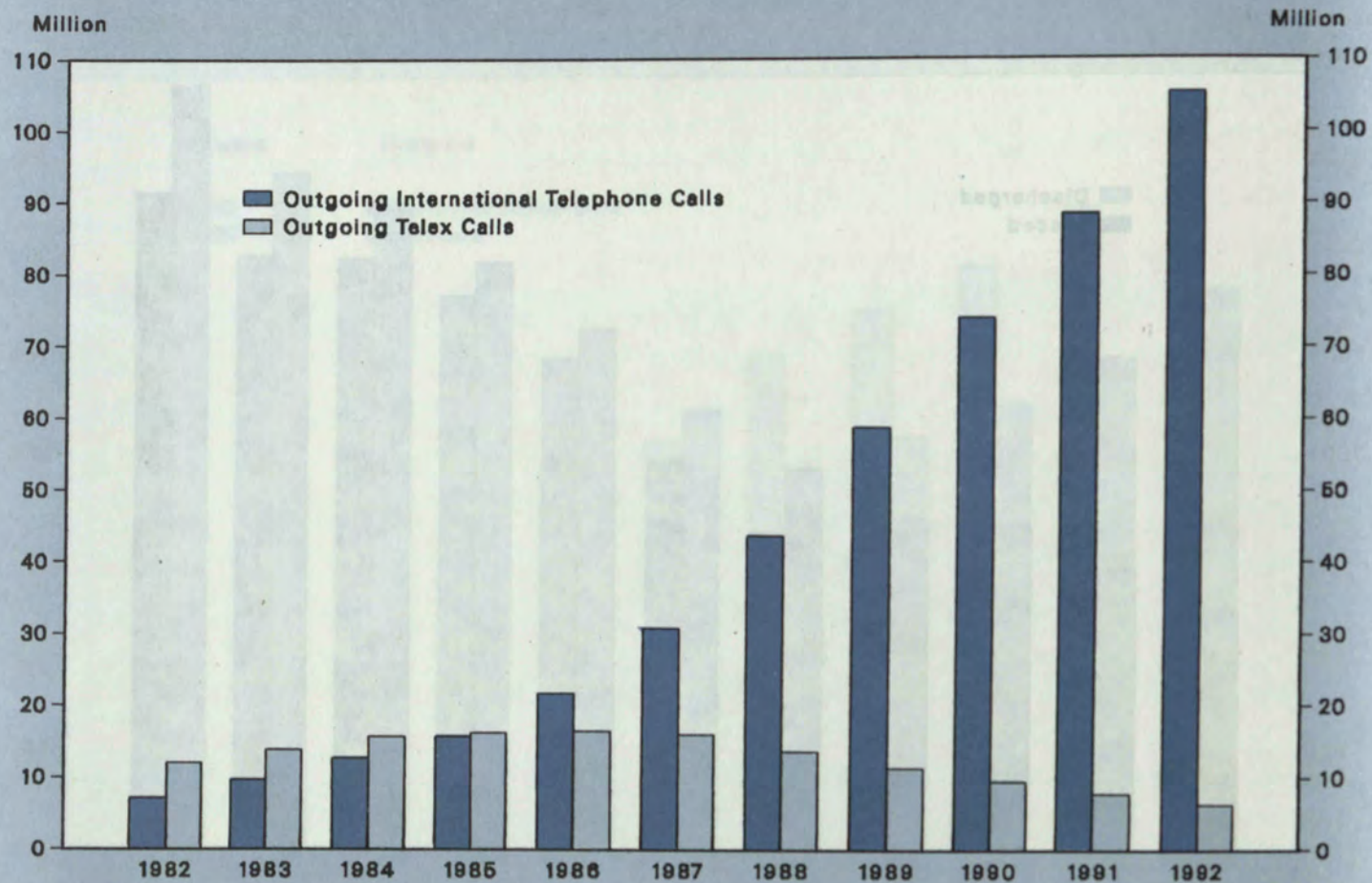




CHART 15

VISITOR ARRIVALS BY AIR AND SEA, 1982-1992

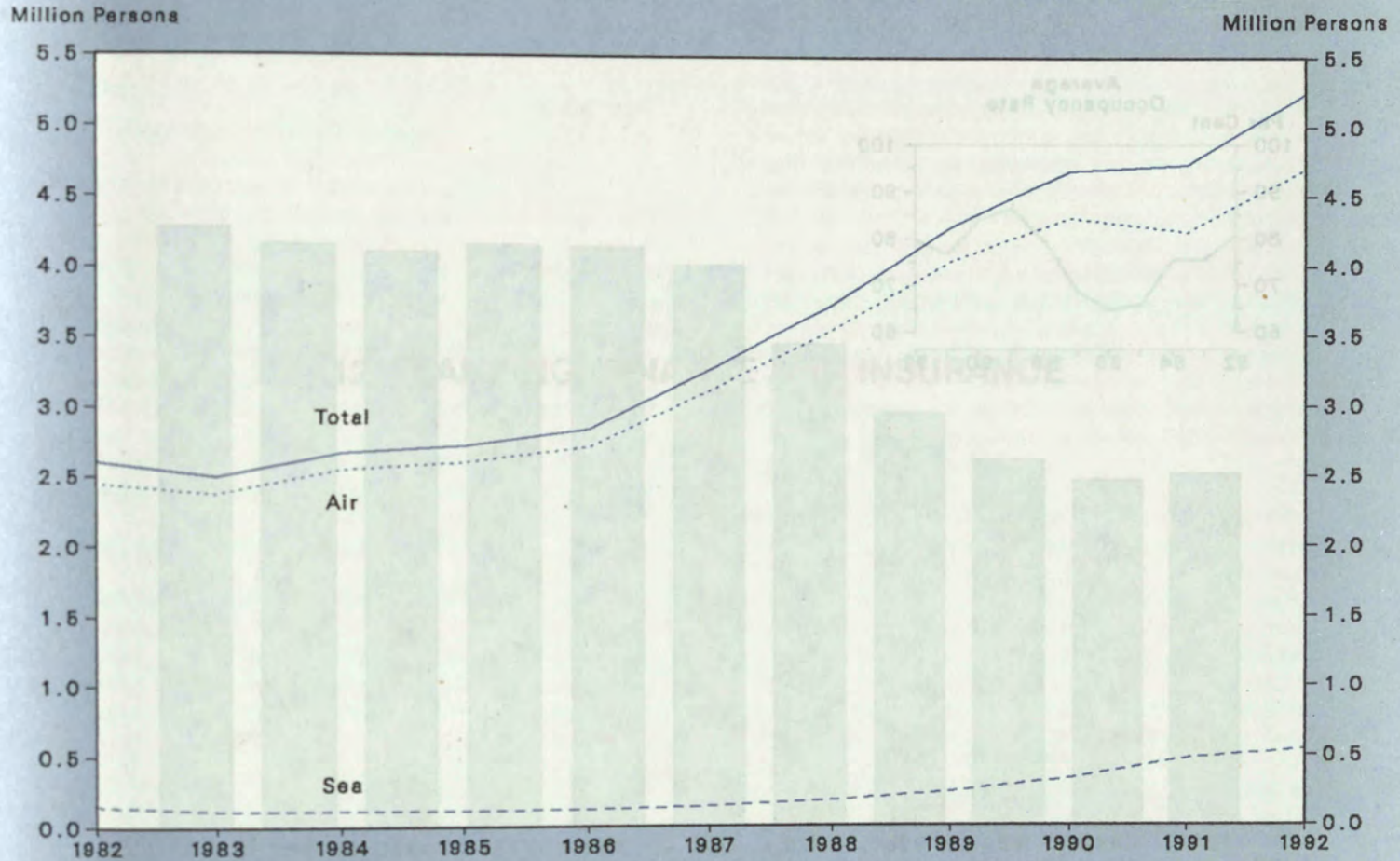
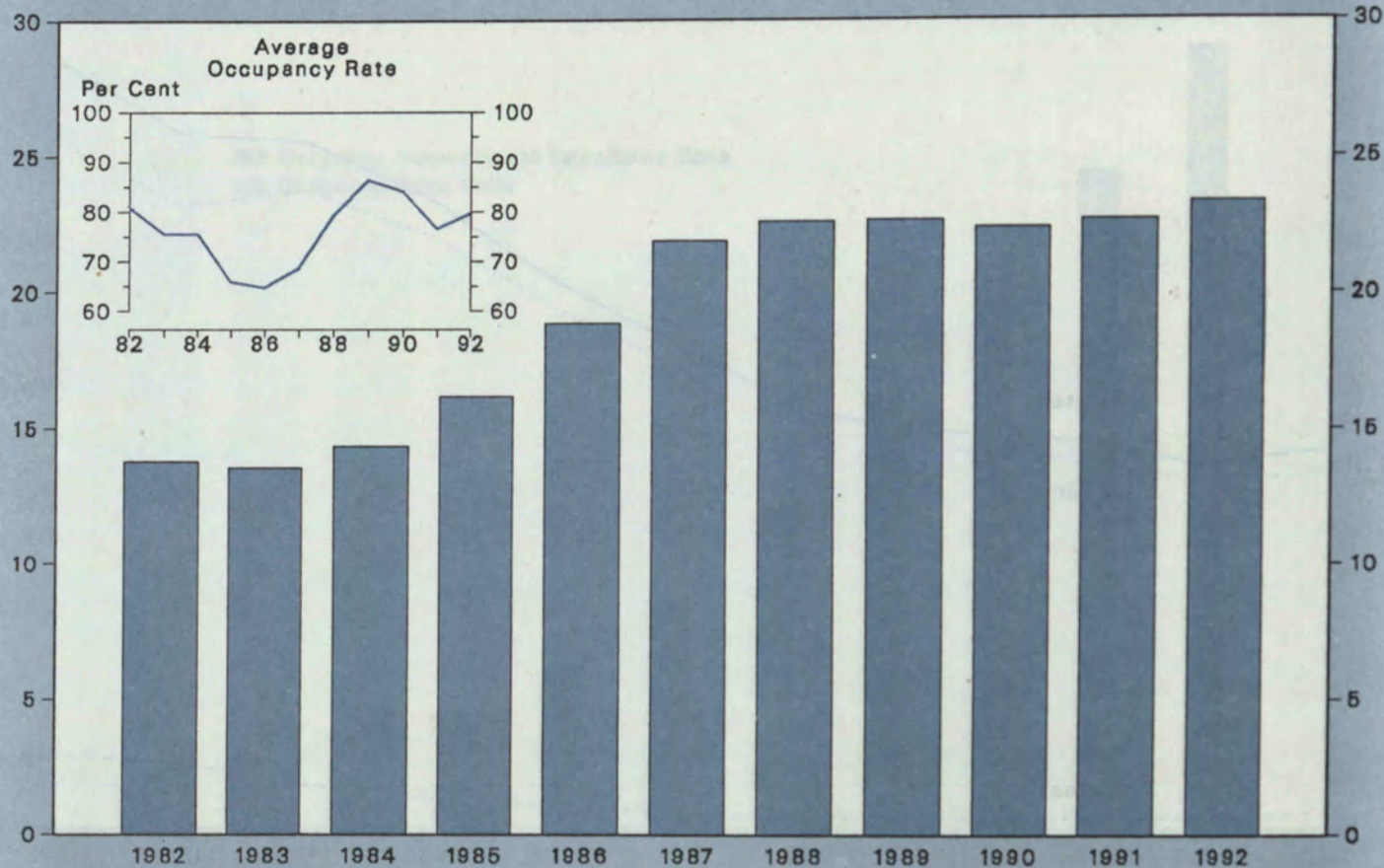


CHART 16

# HOTEL ROOMS AND OCCUPANCY RATE, 1982-1992

Thousand Rooms

Thousand Rooms







## 12 BANKING, FINANCE AND INSURANCE

Before 1971, the various monetary functions normally associated with a central bank were performed by several government departments and agencies. To centralize these functions, the Monetary Authority of Singapore (MAS) was established in 1971 to assume the central bank role except for the currency issuing function which remained the responsibility of the Board of Commissioners of Currency. The MAS conducts monetary and exchange rate policies appropriate for steady and non-inflationary economic growth in Singapore. It administers the statutes pertaining to money and banking and formulates policies for the development of a sound banking system and an orderly financial market. It aims to develop Singapore into an international financial centre.

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

### Asian Dollar Market

The Asian Dollar Market was officially established in October 1968 when approval was first given for a bank to operate an Asian Currency Unit (ACU). Since then, merchant banks have also been allowed to operate ACUs. There are now a total of 198 ACUs in operation. Data on ACUs are compiled from returns submitted regularly by the ACU operators to the MAS.

### Insurance

The Insurance industry is regulated by the MAS under the Insurance Act (Cap 142). The MAS is responsible for supervising and developing the insurance industry in Singapore.

Insurance business in Singapore comprises life and general insurance. The general insurance business covers a wide range of risks such as fire, marine and aviation, motor, workmen's compensation, public liability and personal accident. The main types of insurance plans offered by life insurers are whole life insurance, endowment insurance, term insurance and annuity contracts.

Data on insurance are compiled by the MAS from returns submitted by all insurance companies in Singapore. The MAS also publishes the Annual Report of the Insurance Commissioner which contains a write-up on the performance of the insurance industry during the year, together with detailed statistics. The report is usually available around July of the following year.

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



### Post Office Savings Bank

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

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

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

### Central Provident Fund

Please see text on page 50.

### Definitions

*Money Supply* : Refers to the amount of money in an economy. Narrowly defined, money supply (M1) consists of

currency in active circulation and demand deposits. A broad definition of money supply (M2), comprises money supply (M1) and quasi money. The latter includes fixed, savings and other deposits with banks as well as negotiable certificates of deposit in Singapore dollar issued by Singapore banks. Money supply (M3) consists of M2 and net deposits with non-bank financial institutions.

*Asian Currency Unit (ACU)* : Refers to an operational entity of a financial institution which has been granted approval by the MAS to participate in the Asian Dollar Market in Singapore. The ACU is essentially a separate accounting unit of a financial institution set up for its transactions in the Asian Dollar Market.

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

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

# 12.1 CURRENCY IN CIRCULATION, 1982-1992

| End of Year | Gross Circulation |         |       | Active Circulation <sup>1</sup> | Ratio of Active to Gross Circulation |
|-------------|-------------------|---------|-------|---------------------------------|--------------------------------------|
|             | Total             | Notes   | Coins |                                 |                                      |
|             | Million Dollars   |         |       |                                 | Per Cent                             |
| 1982        | 4,339.1           | 4,114.6 | 224.5 | 3,996.0                         | 92.1                                 |
| 1983        | 4,739.7           | 4,492.7 | 247.0 | 4,335.3                         | 91.5                                 |
| 1984        | 5,033.4           | 4,767.5 | 265.9 | 4,619.2                         | 91.8                                 |
| 1985        | 5,149.1           | 4,871.0 | 278.1 | 4,739.0                         | 92.0                                 |
| 1986        | 5,484.2           | 5,188.6 | 295.6 | 5,033.4                         | 91.8                                 |
| 1987        | 5,885.7           | 5,561.5 | 324.2 | 5,439.8                         | 92.4                                 |
| 1988        | 6,702.2           | 6,323.1 | 379.1 | 5,996.7                         | 89.5                                 |
| 1989        | 7,138.0           | 6,735.6 | 402.4 | 6,610.0                         | 92.6                                 |
| 1990        | 7,711.8           | 7,222.3 | 489.5 | 7,108.5                         | 92.2                                 |
| 1991        | 8,168.7           | 7,645.7 | 523.0 | 7,497.1                         | 91.8                                 |
| 1992        | 8,971.0           | 8,411.2 | 559.8 | 8,279.2                         | 92.3                                 |

<sup>1</sup> Refer to gross circulation less amounts held by Government Treasuries and Banks as well as commemorative coins issued by the Board of Commissioners of Currency, Singapore.

Source : Board of Commissioners of Currency, Singapore



# 12.2 MONEY SUPPLY, 1982-1992

Million Dollars

| End of Period | Money Supply (M3)                 |                                                                      |                                       |                             |                                   |                          |                                                        |                                         |                               |                                                           |                                                    |
|---------------|-----------------------------------|----------------------------------------------------------------------|---------------------------------------|-----------------------------|-----------------------------------|--------------------------|--------------------------------------------------------|-----------------------------------------|-------------------------------|-----------------------------------------------------------|----------------------------------------------------|
|               | Total<br>(1)<br>[(2) + (3) + (4)] | Net Deposits with<br>Non-bank Financial<br>Institutions <sup>1</sup> |                                       | Money Supply (M2)           |                                   |                          |                                                        |                                         |                               |                                                           |                                                    |
|               |                                   | Finance<br>Companies<br>(2)                                          | Post Office<br>Savings<br>Bank<br>(3) | Total<br>(4)<br>[(5) + (9)] | Quasi Money                       |                          |                                                        |                                         | Money Supply (M1)             |                                                           |                                                    |
|               |                                   |                                                                      |                                       |                             | Total<br>(5)<br>[(6) + (7) + (8)] | Fixed<br>Deposits<br>(6) | S\$<br>Negotiable<br>Certificate<br>of Deposits<br>(7) | Savings<br>and Other<br>Deposits<br>(8) | Total<br>(9)<br>[(10) + (11)] | Currency<br>in Active<br>Circulation <sup>2</sup><br>(10) | Demand<br>Deposits<br>of Private<br>Sector<br>(11) |
| 1982          | 29,676.1                          | 3,224.8                                                              | 3,647.3                               | 22,804.0                    | 14,647.2                          | 11,698.0                 | 228.5                                                  | 2,720.7                                 | 8,156.8                       | 3,996.0                                                   | 4,160.8                                            |
| 1983          | 33,742.9                          | 4,188.8                                                              | 4,028.4                               | 25,525.7                    | 16,918.0                          | 12,930.0                 | 203.6                                                  | 3,784.4                                 | 8,607.7                       | 4,335.3                                                   | 4,272.4                                            |
| 1984          | 36,053.0                          | 4,813.6                                                              | 4,118.6                               | 27,120.8                    | 18,254.5                          | 13,704.4                 | 33.0                                                   | 4,517.1                                 | 8,866.3                       | 4,619.2                                                   | 4,247.1                                            |
| 1985          | 37,028.5                          | 4,359.3                                                              | 4,521.5                               | 28,147.7                    | 19,362.7                          | 13,789.2                 | 24.7                                                   | 5,548.8                                 | 8,785.0                       | 4,739.0                                                   | 4,046.0                                            |
| 1986          | 40,184.8                          | 4,060.4                                                              | 5,169.5                               | 30,954.9                    | 21,133.6                          | 13,846.9                 | 391.4                                                  | 6,895.3                                 | 9,821.3                       | 5,033.4                                                   | 4,787.9                                            |
| 1987          | 47,147.9                          | 4,490.5                                                              | 5,568.2                               | 37,089.2                    | 26,058.7                          | 17,407.3                 | 761.2                                                  | 7,890.2                                 | 11,030.5                      | 5,439.8                                                   | 5,590.7                                            |
| 1988          | 52,823.5                          | 5,092.9                                                              | 5,643.0                               | 42,087.6                    | 30,129.9                          | 20,898.1                 | 846.8                                                  | 8,385.0                                 | 11,957.7                      | 5,996.7                                                   | 5,961.0                                            |
| 1989          | 64,007.8                          | 6,709.2                                                              | 5,753.1                               | 51,545.5                    | 37,800.9                          | 27,207.8                 | 1,138.7                                                | 9,454.4                                 | 13,744.6                      | 6,609.9                                                   | 7,134.7                                            |
| 1990          | 75,792.4                          | 7,419.4                                                              | 6,527.9                               | 61,845.1                    | 46,584.2                          | 35,965.9                 | 1,160.3                                                | 9,458.0                                 | 15,260.9                      | 7,108.5                                                   | 8,152.4                                            |
| 1991          | 84,199.7                          | 7,557.3                                                              | 7,100.1                               | 69,542.3                    | 53,112.3                          | 40,852.0                 | 921.8                                                  | 11,338.5                                | 16,430.0                      | 7,497.1                                                   | 8,932.9                                            |
| 1992          | 91,082.1                          | 8,060.9                                                              | 7,292.7                               | 75,728.5                    | 57,212.9                          | 43,176.4                 | 741.1                                                  | 13,295.4                                | 18,515.6                      | 8,279.2                                                   | 10,236.4                                           |

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

Source : The Monetary Authority of Singapore

<sup>2</sup> Exclude commemorative, numismatic and bullion coins issued by the Board of Commissioners of Currency, Singapore and cash held by commercial banks and other financial institutions.

# 12.3 CHANGES IN MONEY SUPPLY AND UNDERLYING FACTORS, 1982-1992 (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 <sup>1</sup>    | Banks    |          |
| 1982 | 914.7             | 4,356.2                       | 2,218.2     | 2,138.0                              | 358.6                     | 4,721.7                        | -4,363.1                             | 2,454.7                              | -715.9   | 1,401.0  |
| 1983 | 450.9             | 5,356.5                       | 2,270.8     | 3,085.7                              | 559.6                     | 5,021.5                        | -4,461.9                             | 3,793.9                              | -2,826.0 | 859.2    |
| 1984 | 258.6             | 3,026.6                       | 1,336.5     | 1,690.1                              | 247.9                     | 4,447.1                        | -4,199.2                             | 2,889.3                              | -1,600.2 | 1,478.6  |
| 1985 | -81.3             | 189.0                         | 1,108.2     | -919.2                               | 267.3                     | 3,350.4                        | -3,083.1                             | 2,088.8                              | 1,017.9  | 814.3    |
| 1986 | 1,036.3           | -1,303.4                      | 1,770.9     | -3,074.3                             | -44.1                     | -1,685.0                       | 1,640.9                              | 691.9                                | 3,788.5  | -2,010.7 |
| 1987 | 1,209.2           | 2,208.2                       | 4,925.1     | -2,716.9                             | 1,310.7                   | 461.3                          | 849.4                                | 945.1                                | 1,810.2  | 321.4    |
| 1988 | 927.2             | 4,095.2                       | 4,071.2     | 24.0                                 | 125.6                     | 4,776.7                        | -4,651.1                             | 1,628.8                              | 1,995.3  | 1,930.2  |
| 1989 | 1,822.6           | 7,967.3                       | 7,671.0     | 296.3                                | 1,414.0                   | 7,573.4                        | -6,159.4                             | 2,981.9                              | 2,608.7  | 2,095.1  |
| 1990 | 1,516.3           | 7,040.6                       | 8,783.3     | -1,742.7                             | 1,096.5                   | 3,601.4                        | -2,504.9                             | 7,799.1                              | -3,045.3 | 1,010.1  |
| 1991 | 1,169.1           | 6,928.2                       | 6,528.1     | 400.1                                | 1,842.2                   | 3,034.0                        | -1,191.8                             | 5,062.3                              | 1,670.8  | -4,772.3 |
| 1992 | 2,085.6           | 6,124.3                       | 4,100.6     | 2,023.7                              | 1,821.9                   | 5,376.1                        | -3,554.2                             | 7,514.2                              | 1,172.7  | -5,070.8 |

<sup>1</sup> Refer to the Monetary Authority of Singapore and the Board of Commissioners of Currency, Singapore.

Source : The Monetary Authority of Singapore



# 12.4 OFFICIAL FOREIGN RESERVES, 1982-1992

Million Dollars

| End of Year | Total Foreign Reserves | Special Drawing Rights | Reserve Position in the International Monetary Fund | Gold & Foreign Exchange |
|-------------|------------------------|------------------------|-----------------------------------------------------|-------------------------|
| 1982        | 17,917.9               | 127.5                  | 183.1                                               | 17,607.3                |
| 1983        | 19,755.3               | 150.9                  | 184.9                                               | 19,419.5                |
| 1984        | 22,768.0               | 147.3                  | 186.2                                               | 22,434.5                |
| 1985        | 27,070.9               | 164.9                  | 212.2                                               | 26,693.8                |
| 1986        | 28,157.5               | 195.4                  | 228.8                                               | 27,733.3                |
| 1987        | 30,441.7               | 224.5                  | 240.5                                               | 29,976.7                |
| 1988        | 33,276.6               | 232.7                  | 228.3                                               | 32,815.6                |
| 1989        | 38,607.2               | 247.1                  | 215.5                                               | 38,144.6                |
| 1990        | 48,521.3               | 274.9                  | 212.5                                               | 48,033.9                |
| 1991        | 55,802.8               | 279.1                  | 199.7                                               | 55,324.0                |
| 1992        | 65,788.4               | 203.0                  | 346.4                                               | 65,239.0                |

Source : The Monetary Authority of Singapore

# 12.5 EXCHANGE RATES, 1982-1992

| Period | Singapore Dollar Per |           |                |               |              |                  |                |                       |                  |                   |
|--------|----------------------|-----------|----------------|---------------|--------------|------------------|----------------|-----------------------|------------------|-------------------|
|        | Ringgit Malaysia     | US Dollar | Sterling Pound | Deutsche-Mark | French Franc | 100 Japanese Yen | 100 Korean Won | 100 New Taiwan Dollar | Hong Kong Dollar | Australian Dollar |
| 1982   | 0.9166               | 2.1400    | 3.7450         | 0.8829        | 0.3270       | 0.8618           | 0.2927         | 5.4707                | 0.3532           | 2.1754            |
| 1983   | 0.9107               | 2.1136    | 3.2061         | 0.8296        | 0.2787       | 0.8903           | 0.2725         | 5.2752                | 0.2926           | 1.9074            |
| 1984   | 0.9104               | 2.1331    | 2.8486         | 0.7517        | 0.2448       | 0.8987           | 0.2647         | 5.3879                | 0.2729           | 1.8756            |
| 1985   | 0.8864               | 2.2002    | 2.8448         | 0.7520        | 0.2464       | 0.9275           | 0.2531         | 5.5221                | 0.2824           | 1.5428            |
| 1986   | 0.8441               | 2.1774    | 3.1958         | 1.0074        | 0.3151       | 1.3010           | 0.2472         | 5.7584                | 0.2790           | 1.4609            |
| 1987   | 0.8362               | 2.1060    | 3.4489         | 1.1727        | 0.3506       | 1.4595           | 0.2561         | 6.6354                | 0.2700           | 1.4758            |
| 1988   | 0.7691               | 2.0124    | 3.5837         | 1.1488        | 0.3388       | 1.5713           | 0.2750         | 7.0387                | 0.2578           | 1.5775            |
| 1989   | 0.7203               | 1.9503    | 3.1983         | 1.0391        | 0.3062       | 1.4173           | 0.2905         | 7.3890                | 0.2500           | 1.5445            |
| 1990   | 0.6702               | 1.8125    | 3.2262         | 1.1223        | 0.3331       | 1.2548           | 0.2563         | 6.7432                | 0.2327           | 1.4157            |
| 1991   | 0.6283               | 1.7276    | 3.0559         | 1.0449        | 0.3073       | 1.2843           | 0.2357         | 6.4415                | 0.2223           | 1.3454            |
| 1992   | 0.6398               | 1.6290    | 2.8762         | 1.0451        | 0.3083       | 1.2869           | 0.2087         | 6.4724                | 0.2104           | 1.1978            |

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

Source : The Monetary Authority of Singapore



**12.6 ASSETS OF BANKS, 1982-1992**  
(End of Period)

Million Dollars

|                                                   | 1982     | 1983     | 1984     | 1985     | 1986     | 1987     | 1988     | 1989      | 1990      | 1991      | 1992      |
|---------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|
| <b>Total</b>                                      | 48,537.2 | 56,537.8 | 65,707.2 | 70,618.0 | 76,833.3 | 86,483.6 | 96,441.2 | 127,201.7 | 134,002.0 | 136,093.4 | 153,302.4 |
| Cash                                              | 247.9    | 275.4    | 291.4    | 303.5    | 334.2    | 328.4    | 568.3    | 401.3     | 471.2     | 532.9     | 543.1     |
| Amounts Due from Banks                            | 9,823.6  | 11,904.5 | 17,087.8 | 20,768.4 | 28,000.6 | 33,853.2 | 38,148.1 | 57,238.3  | 55,205.7  | 47,683.7  | 57,724.2  |
| In Singapore                                      | 3,727.9  | 3,699.2  | 4,088.4  | 5,341.5  | 6,694.3  | 9,270.5  | 8,832.6  | 15,165.8  | 18,438.4  | 12,058.4  | 11,936.4  |
| Outside Singapore <sup>1</sup>                    | 6,095.7  | 8,205.3  | 12,999.4 | 15,426.9 | 21,306.3 | 24,582.7 | 29,315.5 | 42,072.5  | 36,767.3  | 35,625.3  | 45,787.8  |
| Balances with The Monetary Authority of Singapore | 1,417.5  | 1,557.6  | 1,742.3  | 1,830.1  | 1,907.9  | 2,153.2  | 2,370.9  | 3,314.1   | 3,486.3   | 4,227.4   | 4,764.5   |
| Money at Call with Discount Houses <sup>2</sup>   | 1,917.9  | 2,049.9  | 2,387.2  | 2,290.1  | 2,316.0  | -        | -        | -         | -         | -         | -         |
| S\$ Negotiable Certificates of Deposit Held       | 76.9     | 136.5    | 133.1    | 105.0    | 134.2    | 135.5    | 145.8    | 283.0     | 296.6     | 271.7     | 198.6     |
| Investments in Securities & Equities              | 3,686.3  | 4,390.3  | 4,378.9  | 5,073.0  | 5,449.6  | 8,525.3  | 9,052.6  | 10,818.3  | 12,365.7  | 14,224.9  | 16,377.1  |
| In Singapore                                      | 3,562.7  | 4,249.9  | 4,236.7  | 4,880.4  | 5,089.1  | 8,270.6  | 8,805.4  | 10,537.6  | 12,024.1  | 13,894.2  | 16,089.2  |
| Outside Singapore                                 | 123.6    | 140.4    | 142.2    | 192.6    | 360.4    | 254.7    | 247.2    | 280.7     | 341.6     | 330.7     | 287.9     |
| Loans & Advances including Bills Financing        | 29,442.9 | 34,045.8 | 36,867.5 | 37,403.1 | 35,792.8 | 37,868.6 | 41,848.8 | 50,785.9  | 57,696.4  | 64,009.1  | 69,138.9  |
| Bills Discounted or Purchased                     | 4,107.3  | 3,900.4  | 4,124.8  | 3,628.1  | 4,113.1  | 3,599.6  | 4,096.9  | 4,533.4   | 4,952.0   | 5,466.0   | 5,710.3   |
| Payable outside Singapore                         | 1,592.9  | 1,341.2  | 1,315.6  | 1,254.4  | 1,354.5  | 1,424.2  | 1,403.9  | 1,523.4   | 1,535.9   | 1,332.3   | 1,610.8   |
| Payable in Singapore                              | 2,514.4  | 2,559.2  | 2,809.2  | 2,373.6  | 2,758.6  | 2,175.4  | 2,693.0  | 3,009.9   | 3,416.1   | 4,133.7   | 4,099.5   |
| Loans & Advances                                  | 25,335.6 | 30,145.4 | 32,742.7 | 33,775.0 | 31,679.8 | 34,269.0 | 37,751.9 | 46,252.5  | 52,744.4  | 58,543.0  | 63,428.6  |
| All Other Assets                                  | 1,924.2  | 2,177.8  | 2,819.0  | 2,844.8  | 2,898.0  | 3,619.5  | 4,306.6  | 4,360.7   | 4,480.0   | 5,143.8   | 4,556.0   |

<sup>1</sup> Include Asian Currency Units.

Source : The Monetary Authority of Singapore

<sup>2</sup> Discount houses ceased operations in May 1987.

# 12.7 LIABILITIES OF BANKS, 1982-1992 (End of Period)

Million Dollars

|                                               | 1982     | 1983     | 1984     | 1985     | 1986     | 1987     | 1988     | 1989      | 1990      | 1991      | 1992      |
|-----------------------------------------------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|
| <b>Total</b>                                  | 48,537.2 | 56,537.8 | 65,707.2 | 70,618.0 | 76,833.3 | 86,483.6 | 96,441.2 | 127,201.7 | 134,002.0 | 136,093.4 | 153,302.4 |
| Deposits of Non-bank Customers                | 23,408.7 | 26,265.5 | 28,026.3 | 28,744.5 | 30,612.6 | 36,393.0 | 42,475.3 | 53,351.1  | 63,979.7  | 72,241.1  | 78,483.2  |
| Demand Deposits                               | 4,781.4  | 4,982.7  | 4,856.7  | 4,700.2  | 5,422.9  | 6,657.9  | 6,636.2  | 8,019.2   | 9,169.9   | 10,290.8  | 11,635.0  |
| Fixed Deposits                                | 15,619.7 | 17,099.6 | 18,191.5 | 17,940.8 | 17,609.6 | 21,008.6 | 26,507.5 | 34,972.0  | 44,407.3  | 49,528.9  | 52,136.9  |
| Savings Deposits                              | 2,917.4  | 4,079.9  | 4,870.1  | 5,982.8  | 7,426.1  | 8,482.0  | 9,024.7  | 9,952.2   | 10,009.8  | 11,981.1  | 14,208.8  |
| Other Deposits                                | 90.2     | 103.3    | 108.0    | 120.7    | 154.0    | 244.6    | 306.9    | 407.7     | 392.6     | 440.3     | 502.5     |
| S\$ Negotiable Certificates of Deposit Issued | 428.0    | 471.6    | 300.7    | 263.6    | 696.4    | 896.8    | 992.6    | 1,421.7   | 1,457.0   | 1,193.4   | 939.7     |
| Amounts Due to Banks                          | 14,426.4 | 18,803.7 | 25,403.9 | 29,531.0 | 33,303.9 | 36,397.5 | 39,327.6 | 57,475.1  | 52,697.1  | 45,002.1  | 54,397.4  |
| In Singapore                                  | 3,941.6  | 3,895.1  | 4,275.2  | 5,724.1  | 6,833.5  | 8,560.4  | 8,872.9  | 16,391.9  | 14,512.3  | 10,419.7  | 11,862.8  |
| Outside Singapore <sup>1</sup>                | 10,484.8 | 14,908.6 | 21,128.7 | 23,807.0 | 26,470.4 | 27,837.1 | 30,454.7 | 41,083.2  | 38,184.8  | 34,582.4  | 42,534.6  |
| All Other Liabilities                         | 10,274.1 | 10,997.0 | 11,976.3 | 12,078.8 | 12,220.4 | 12,796.4 | 13,645.6 | 14,953.7  | 15,868.2  | 17,656.8  | 19,482.1  |

<sup>1</sup> Include Asian Currency Units.

Source : The Monetary Authority of Singapore



# 12.8 BANKS' LOANS AND ADVANCES TO NON-BANK CUSTOMERS BY INDUSTRY, 1982-1992 (End of Period)

Million Dollars

|                                                           | 1982     | 1983     | 1984     | 1985     | 1986     | 1987     | 1988     | 1989     | 1990     | 1991     | 1992     |
|-----------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>Total Loans and Advances including Bills Financing</b> | 29,442.9 | 34,045.8 | 36,867.5 | 37,403.1 | 35,792.8 | 37,868.6 | 41,848.8 | 50,785.9 | 57,696.4 | 64,009.1 | 69,138.9 |
| Agriculture, Mining & Quarrying                           | 151.2    | 132.0    | 155.0    | 147.4    | 101.5    | 111.2    | 81.4     | 78.8     | 85.6     | 96.9     | 86.5     |
| Manufacturing                                             | 5,382.1  | 5,927.2  | 5,699.9  | 5,669.3  | 4,988.0  | 6,141.3  | 6,698.5  | 7,432.6  | 7,488.9  | 8,122.6  | 8,380.4  |
| Building & Construction <sup>1</sup>                      | 3,984.0  | 5,704.0  | 7,349.7  | 7,997.4  | 8,001.6  | 7,669.1  | 8,010.2  | 10,903.3 | 12,864.3 | 15,578.4 | 17,892.8 |
| General Commerce                                          | 9,350.6  | 10,633.1 | 11,128.8 | 10,105.0 | 10,330.5 | 10,728.6 | 11,591.1 | 12,385.7 | 13,686.1 | 15,694.7 | 17,188.8 |
| Transport, Storage & Communications                       | 2,029.3  | 1,818.5  | 1,529.8  | 1,183.0  | 947.8    | 818.8    | 771.7    | 1,080.7  | 1,736.7  | 1,816.9  | 1,939.8  |
| Financial Institutions                                    | 4,076.8  | 4,673.9  | 5,354.6  | 5,658.8  | 4,858.9  | 5,281.6  | 6,729.3  | 8,431.9  | 9,923.0  | 10,317.9 | 11,250.2 |
| Professional & Private Individuals                        | 2,581.4  | 3,368.3  | 3,785.7  | 4,285.9  | 4,389.6  | 4,641.5  | 5,180.3  | 6,981.4  | 7,752.3  | 8,290.2  | 8,153.9  |
| Others                                                    | 1,887.4  | 1,788.7  | 1,864.2  | 2,356.3  | 2,174.9  | 2,476.5  | 2,786.3  | 3,491.4  | 4,159.4  | 4,091.5  | 4,246.5  |

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

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

**12.9 ASSETS AND LIABILITIES OF ASIAN CURRENCY UNITS, 1982-1992**  
(End of Period)

Million US Dollars

|                                | 1982      | 1983      | 1984      | 1985      | 1986      | 1987      | 1988      | 1989      | 1990      | 1991      | 1992      |
|--------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Total Assets</b>            | 103,295.7 | 111,860.9 | 128,054.7 | 155,374.2 | 200,601.8 | 244,868.5 | 280,477.2 | 336,581.8 | 390,395.5 | 357,725.0 | 355,378.6 |
| Loans to Non-bank Customers    | 27,606.3  | 30,384.6  | 33,766.1  | 37,440.3  | 38,741.8  | 55,010.8  | 66,550.7  | 86,393.5  | 125,516.0 | 134,078.2 | 134,181.7 |
| Inter-bank Funds               | 69,564.4  | 74,446.8  | 85,329.0  | 104,933.2 | 146,609.7 | 171,092.9 | 194,755.5 | 228,725.2 | 239,119.8 | 197,028.2 | 194,757.7 |
| In Singapore                   | 1,738.5   | 2,791.4   | 3,832.1   | 4,618.7   | 4,926.5   | 5,079.7   | 5,254.2   | 7,329.6   | 8,744.6   | 8,221.1   | 9,726.4   |
| Inter-Asian Currency Units     | 19,213.9  | 19,690.0  | 21,862.5  | 26,991.8  | 30,603.8  | 26,055.8  | 25,800.6  | 27,565.9  | 34,440.2  | 26,626.4  | 26,740.3  |
| Outside Singapore              | 48,612.0  | 51,965.4  | 59,634.4  | 73,322.7  | 111,079.4 | 139,957.4 | 163,700.7 | 193,829.7 | 195,935.0 | 162,180.7 | 158,291.1 |
| Other Assets                   | 6,125.1   | 7,029.5   | 8,959.7   | 13,000.8  | 15,250.3  | 18,765.0  | 19,171.1  | 21,463.1  | 25,759.6  | 26,618.6  | 26,439.2  |
| <b>Total Liabilities</b>       | 103,295.7 | 111,860.9 | 128,054.7 | 155,374.2 | 200,601.8 | 244,868.5 | 280,477.2 | 336,581.8 | 390,395.5 | 357,725.0 | 355,378.6 |
| Deposits of Non-bank Customers | 17,629.7  | 20,619.8  | 21,523.6  | 28,018.8  | 33,804.6  | 41,575.5  | 47,453.9  | 55,019.4  | 66,885.5  | 63,499.4  | 63,612.2  |
| Inter-bank Funds               | 79,223.9  | 84,743.4  | 100,186.5 | 120,030.1 | 159,368.9 | 192,485.3 | 221,803.6 | 269,582.1 | 309,427.1 | 281,813.4 | 279,821.3 |
| In Singapore                   | 1,496.9   | 1,787.7   | 2,943.2   | 4,174.2   | 4,860.9   | 6,538.7   | 8,444.2   | 12,620.3  | 11,955.8  | 14,258.8  | 18,194.7  |
| Inter-Asian Currency Units     | 19,226.6  | 19,697.9  | 21,866.5  | 26,993.8  | 30,603.5  | 26,056.6  | 25,801.4  | 27,566.5  | 34,438.1  | 26,624.1  | 26,741.6  |
| Outside Singapore              | 58,500.4  | 63,257.8  | 75,376.8  | 88,862.1  | 123,904.5 | 159,890.0 | 187,558.0 | 229,395.3 | 263,033.2 | 240,930.5 | 234,885.0 |
| Other Liabilities              | 6,442.2   | 6,497.7   | 6,344.5   | 7,325.3   | 7,428.5   | 10,807.6  | 11,219.7  | 11,980.4  | 14,082.8  | 12,412.1  | 11,945.1  |

Source : The Monetary Authority of Singapore



**12.10 ASSETS AND LIABILITIES OF FINANCE COMPANIES, 1982-1992**  
(End of Period)

Million Dollars

|                                                   | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989     | 1990     | 1991     | 1992     |
|---------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|
| <b>Total Assets</b>                               | 5,357.4 | 6,523.8 | 7,239.6 | 6,935.7 | 6,947.5 | 7,706.3 | 8,478.8 | 10,137.2 | 11,423.6 | 12,459.8 | 13,207.6 |
| Cash                                              | 6.8     | 8.5     | 8.3     | 10.3    | 9.0     | 10.8    | 11.0    | 13.9     | 13.0     | 12.9     | 11.7     |
| Balances with The Monetary Authority of Singapore | 217.2   | 267.5   | 313.9   | 288.4   | 286.7   | 271.1   | 307.2   | 407.5    | 456.5    | 464.6    | 493.6    |
| Deposits with Banks & Other Institutions          | 751.6   | 678.7   | 862.9   | 1,002.6 | 1,520.4 | 1,592.4 | 1,527.9 | 1,767.0  | 2,389.3  | 2,478.7  | 2,207.1  |
| Investments                                       | 120.4   | 139.8   | 165.2   | 151.7   | 153.2   | 455.8   | 518.4   | 562.0    | 579.0    | 614.5    | 702.3    |
| Loans & Advances                                  | 4,129.7 | 5,277.3 | 5,727.3 | 5,313.6 | 4,742.7 | 5,160.0 | 5,908.8 | 7,180.5  | 7,765.7  | 8,666.3  | 9,563.7  |
| Hire Purchase Finance                             | 887.1   | 904.3   | 833.2   | 583.7   | 420.8   | 563.0   | 1,039.7 | 1,732.0  | 2,076.8  | 2,384.1  | 3,045.9  |
| Housing Loans                                     | 879.7   | 1,165.8 | 1,348.9 | 1,386.5 | 1,445.1 | 1,544.6 | 1,506.7 | 1,683.4  | 1,606.2  | 1,523.9  | 1,473.5  |
| Other Loans & Advances                            | 2,362.9 | 3,207.2 | 3,545.2 | 3,343.4 | 2,876.8 | 3,052.4 | 3,362.4 | 3,765.1  | 4,082.7  | 4,758.3  | 5,044.3  |
| Other Assets                                      | 131.7   | 152.0   | 162.0   | 169.1   | 235.4   | 216.1   | 205.5   | 206.3    | 220.1    | 222.9    | 229.3    |
| <b>Total Liabilities</b>                          | 5,357.4 | 6,523.8 | 7,239.6 | 6,935.7 | 6,947.5 | 7,706.3 | 8,478.8 | 10,137.2 | 11,423.6 | 12,459.8 | 13,207.6 |
| Capital & Reserves                                | 815.7   | 1,042.7 | 1,116.5 | 1,131.8 | 1,147.7 | 1,176.7 | 1,249.8 | 1,332.8  | 1,415.8  | 1,510.3  | 1,678.9  |
| Deposits from Individuals & Institutions          | 3,711.5 | 4,564.1 | 5,278.3 | 5,014.0 | 4,889.1 | 5,362.9 | 5,824.9 | 7,384.4  | 8,397.2  | 8,972.1  | 9,550.9  |
| Savings Deposits                                  | 112.3   | 171.8   | 209.2   | 278.8   | 332.4   | 325.9   | 315.0   | 308.1    | 273.2    | 296.2    | 342.4    |
| Fixed Deposits                                    | 3,304.7 | 3,979.6 | 4,655.5 | 4,306.7 | 4,240.8 | 4,609.6 | 5,031.8 | 6,507.2  | 7,719.2  | 8,323.8  | 8,685.1  |
| Other Deposits                                    | 294.5   | 412.7   | 413.8   | 428.5   | 315.9   | 427.3   | 478.1   | 569.0    | 404.9    | 352.1    | 523.4    |
| Other Liabilities                                 | 830.2   | 917.0   | 844.8   | 789.9   | 910.8   | 1,166.7 | 1,404.1 | 1,420.1  | 1,610.6  | 1,977.4  | 1,977.7  |

Source : The Monetary Authority of Singapore

**12.11 FINANCE COMPANIES' LOANS AND ADVANCES BY INDUSTRY, 1982-1992**  
(End of Period)

Million Dollars

|                                     | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992    |
|-------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>Total</b>                        | 1,763.4 | 2,431.8 | 2,741.2 | 2,699.7 | 2,449.9 | 2,472.2 | 2,610.0 | 2,753.6 | 2,935.4 | 3,637.7 | 3,792.8 |
| Agriculture, Mining & Quarrying     | -       | 0.6     | 0.9     | 1.1     | 0.9     | 0.8     | 0.5     | 1.4     | 1.0     | 3.3     | 0.6     |
| Manufacturing                       | 167.7   | 228.7   | 217.6   | 223.9   | 231.1   | 249.4   | 236.5   | 177.7   | 180.0   | 229.9   | 262.5   |
| Building & Construction             | 451.4   | 790.8   | 923.7   | 898.3   | 810.1   | 808.7   | 852.5   | 695.2   | 715.4   | 861.7   | 879.6   |
| General Commerce                    | 260.3   | 274.0   | 269.6   | 286.6   | 276.8   | 273.5   | 245.4   | 336.2   | 369.6   | 455.9   | 404.2   |
| Transport, Storage & Communications | 94.1    | 91.8    | 82.6    | 58.2    | 44.1    | 39.2    | 49.9    | 99.3    | 145.1   | 202.5   | 219.3   |
| Financial Institutions              | 197.4   | 231.5   | 377.7   | 330.4   | 262.4   | 229.9   | 293.2   | 437.9   | 502.1   | 595.2   | 700.6   |
| Professional & Private Individuals  | 458.6   | 622.4   | 682.4   | 715.2   | 648.4   | 646.5   | 669.8   | 761.5   | 736.2   | 938.4   | 980.8   |
| Others                              | 133.9   | 192.0   | 186.7   | 186.0   | 176.0   | 224.0   | 262.2   | 244.4   | 286.0   | 350.8   | 345.2   |

Source : The Monetary Authority of Singapore



**12.12 ASSETS AND LIABILITIES OF MERCHANT BANKS, 1982-1992**  
(End of Period)

Million Dollars

|                                        | 1982     | 1983     | 1984     | 1985     | 1986     | 1987     | 1988     | 1989     | 1990     | 1991     | 1992     |
|----------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>Total Assets</b>                    | 22,020.4 | 23,625.0 | 25,844.9 | 28,207.0 | 31,581.4 | 32,119.5 | 36,925.1 | 34,048.0 | 32,336.0 | 30,022.5 | 36,786.7 |
| Amounts Due from Banks                 | 9,317.4  | 9,399.7  | 9,303.9  | 9,768.7  | 11,084.6 | 12,067.2 | 14,670.2 | 13,057.6 | 12,920.6 | 11,573.2 | 11,343.3 |
| In Singapore                           | 260.4    | 218.5    | 189.4    | 332.1    | 370.7    | 472.6    | 491.4    | 523.6    | 664.0    | 682.2    | 616.8    |
| Outside Singapore <sup>1</sup>         | 9,057.0  | 9,181.2  | 9,114.5  | 9,436.6  | 10,713.9 | 11,594.6 | 14,178.8 | 12,534.0 | 12,256.6 | 10,891.0 | 10,726.5 |
| Loans & Advances to Non-bank Customers | 11,313.6 | 12,497.1 | 13,710.7 | 12,721.7 | 13,232.9 | 12,861.7 | 12,503.7 | 11,340.4 | 11,271.9 | 10,590.8 | 15,691.2 |
| Securities & Equities                  | 815.2    | 1,209.8  | 2,056.6  | 4,989.0  | 6,405.9  | 5,914.1  | 8,250.3  | 8,368.2  | 7,173.1  | 7,029.4  | 9,045.7  |
| Other Assets                           | 574.2    | 518.5    | 773.6    | 727.7    | 857.9    | 1,276.5  | 1,501.0  | 1,281.8  | 970.4    | 829.1    | 706.4    |
| <b>Total Liabilities</b>               | 22,020.4 | 23,625.0 | 25,844.9 | 28,207.0 | 31,581.4 | 32,119.5 | 36,925.1 | 34,048.0 | 32,336.0 | 30,022.5 | 36,786.7 |
| Capital & Reserves                     | 1,395.3  | 1,620.4  | 2,412.6  | 2,956.8  | 3,868.0  | 4,574.2  | 4,809.7  | 4,459.6  | 4,662.6  | 4,781.9  | 4,777.7  |
| Amounts Due to Banks                   | 18,137.4 | 19,065.8 | 19,872.5 | 20,638.0 | 21,363.0 | 19,461.9 | 21,565.0 | 20,841.6 | 19,229.5 | 18,039.7 | 19,286.3 |
| In Singapore                           | 317.1    | 581.5    | 750.2    | 709.3    | 483.6    | 678.4    | 710.6    | 895.7    | 543.7    | 565.6    | 499.7    |
| Outside Singapore <sup>1</sup>         | 17,820.3 | 18,484.3 | 19,122.3 | 19,928.7 | 20,879.4 | 18,783.5 | 20,854.4 | 19,945.9 | 18,685.8 | 17,474.1 | 18,786.6 |
| Borrowings from Non-bank Customers     | 1,876.1  | 2,369.4  | 2,720.5  | 3,801.2  | 5,170.5  | 6,221.9  | 7,481.5  | 6,567.8  | 6,845.9  | 5,956.4  | 11,099.4 |
| Other Liabilities                      | 611.6    | 569.4    | 839.3    | 811.0    | 1,179.9  | 1,861.5  | 3,069.0  | 2,179.0  | 1,598.1  | 1,244.5  | 1,623.3  |

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

Source : The Monetary Authority of Singapore

<sup>1</sup> Include Asian Currency Units.

**12.13 DOMESTIC INTEREST RATES, 1982-1992**  
(End of Period)

Per Cent Per Annum

|                                                     | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|-----------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Banks<sup>1</sup></b>                            |      |      |      |      |      |      |      |      |      |      |      |
| Prime Lending Rate                                  | 9.33 | 8.98 | 9.40 | 7.20 | 6.10 | 6.10 | 6.13 | 6.25 | 7.73 | 7.10 | 5.55 |
| Deposit Rates                                       |      |      |      |      |      |      |      |      |      |      |      |
| 3 Months                                            | 6.16 | 6.53 | 6.00 | 4.58 | 2.88 | 2.90 | 2.95 | 3.35 | 5.05 | 3.84 | 2.46 |
| 6 Months                                            | 6.55 | 6.55 | 6.35 | 4.70 | 3.03 | 3.11 | 3.33 | 3.86 | 5.37 | 4.13 | 2.69 |
| 12 Months                                           | 7.08 | 6.75 | 6.80 | 4.88 | 3.30 | 3.56 | 4.03 | 4.55 | 5.48 | 4.17 | 2.97 |
| Savings Deposit Rate                                | 6.43 | 6.30 | 6.53 | 5.18 | 3.08 | 3.03 | 2.83 | 2.98 | 3.83 | 3.05 | 1.79 |
| <b>Finance Companies</b>                            |      |      |      |      |      |      |      |      |      |      |      |
| Deposit Rates <sup>2</sup>                          |      |      |      |      |      |      |      |      |      |      |      |
| Up to 3 Months                                      | 6.60 | 6.90 | 6.48 | 4.88 | 3.19 | 3.20 | 3.41 | 4.15 | 5.20 | 4.33 | 2.55 |
| 12 Months                                           | 7.58 | 7.38 | 7.18 | 5.30 | 3.60 | 3.98 | 4.48 | 4.98 | 5.80 | 4.65 | 3.24 |
| <b>POSBank Savings Deposit Rate<br/>for Amounts</b> |      |      |      |      |      |      |      |      |      |      |      |
| Up to \$100,000                                     | 7.00 | 6.50 | 6.75 | 5.25 | 3.25 | 3.25 | 3.00 | 3.25 | 4.50 | 4.00 | 2.50 |
| Exceeding \$100,000                                 | 5.50 | 5.50 | 5.75 | 4.00 | 2.25 | 2.25 | 2.00 | 2.25 | 3.50 | 3.00 | 1.75 |

1 Refer to the average quoted by 10 leading banks.

2 Refer to the average quoted by 10 leading finance companies.

Source : The Monetary Authority of Singapore  
Post Office Savings Bank



## 12.14 NUMBER OF ACCOUNTS AND DEPOSITS OF POST OFFICE SAVINGS BANK, 1982-1992

|                                                    | 1982      | 1983      | 1984      | 1985      | 1986      | 1987      | 1988      | 1989      | 1990      | 1991      | 1992      |
|----------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Number of Accounts<br>(End of Period)              | 2,282,362 | 2,492,924 | 2,725,439 | 2,959,761 | 3,177,039 | 3,398,350 | 3,626,768 | 3,848,520 | 4,056,137 | 4,288,268 | 4,532,878 |
| Transaction Volume ('000)                          | 22,027    | 27,640    | 34,922    | 45,564    | 59,178    | 71,586    | 80,112    | 92,258    | 104,090   | 116,637   | 135,681   |
| Net Deposit Inflow (\$ Million)                    | 1,492.8   | 855.5     | 704.4     | 1,437.8   | 1,052.5   | 340.9     | 674.9     | 624.7     | 246.9     | 1,720.1   | 2,073.1   |
| Total Deposit Base (\$ Million)<br>(End of Period) | 5,076.1   | 6,240.9   | 7,333.1   | 9,192.6   | 10,637.5  | 11,281.1  | 12,261.7  | 13,210.1  | 13,387.6  | 15,645.5  | 18,126.8  |

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

Source : Post Office Savings Bank

## 12.15 CONTRIBUTIONS AND WITHDRAWALS OF CENTRAL PROVIDENT FUND, 1982-1992

|                                   | 1982     | 1983     | 1984     | 1985     | 1986     | 1987     | 1988     | 1989     | 1990     | 1991     | 1992 <sup>P</sup> |
|-----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------------|
| Amount                            |          |          |          |          |          |          |          |          |          |          |                   |
| Contributed                       | 3,901.4  | 4,491.0  | 5,385.2  | 5,993.4  | 4,777.9  | 4,446.8  | 4,985.1  | 6,107.5  | 7,174.2  | 8,101.4  | 9,028.2           |
| Withdrawn                         | 1,241.2  | 1,717.9  | 3,509.3  | 3,359.7  | 3,823.8  | 4,297.2  | 4,010.2  | 3,663.3  | 3,994.7  | 4,656.1  | 5,413.0           |
| Due to Members<br>(End of Period) | 15,655.5 | 19,504.7 | 22,670.4 | 26,829.5 | 28,341.4 | 30,607.8 | 32,529.3 | 36,051.6 | 40,646.4 | 46,049.0 | 51,526.9          |

Source : Central Provident Fund Board

# 12.16 WITHDRAWALS OF CENTRAL PROVIDENT FUND BY TYPE, 1982-1992

| Year              | Total     | Approved Housing Schemes |                        |                                 |                        | Reached 55 Years of Age <sup>1</sup> |           | Leaving Singapore & Malaysia Permanently <sup>2</sup> |           | Death |           | Medisave Scheme | Others <sup>3</sup> |
|-------------------|-----------|--------------------------|------------------------|---------------------------------|------------------------|--------------------------------------|-----------|-------------------------------------------------------|-----------|-------|-----------|-----------------|---------------------|
|                   |           | Public Housing           |                        | Approved Residential Properties |                        |                                      |           |                                                       |           |       |           |                 |                     |
|                   | \$Million | No. <sup>4</sup>         | \$Million <sup>5</sup> | No. <sup>4</sup>                | \$Million <sup>5</sup> | No.                                  | \$Million | No.                                                   | \$Million | No    | \$Million |                 |                     |
| 1982              | 1,241.2   | 30,214                   | 540.2                  | 5,241                           | 256.1                  | 21,392                               | 322.9     | 8,304                                                 | 56.4      | 2,969 | 27.1      | -               | 38.5                |
| 1983              | 1,717.9   | 40,015                   | 726.0                  | 6,298                           | 396.4                  | 26,717                               | 437.8     | 14,635                                                | 104.3     | 3,509 | 31.3      | -               | 22.1                |
| 1984              | 3,509.3   | 81,390                   | 2,153.8                | 7,095                           | 539.1                  | 31,725                               | 606.0     | 8,424                                                 | 96.4      | 3,171 | 35.6      | 17.6            | 60.8                |
| 1985              | 3,359.7   | 64,550                   | 1,784.9                | 7,618                           | 781.5                  | 24,641                               | 506.2     | 10,085                                                | 146.3     | 3,325 | 40.5      | 43.9            | 56.4                |
| 1986              | 3,823.8   | 54,387                   | 1,477.5                | 11,859                          | 1,169.8                | 35,988                               | 666.3     | 6,890                                                 | 156.8     | 3,415 | 44.4      | 104.8           | 204.2               |
| 1987              | 4,297.2   | 45,111                   | 1,408.4                | 12,287                          | 1,239.1                | 24,399                               | 548.0     | 5,070                                                 | 143.9     | 3,141 | 48.6      | 140.5           | 768.7               |
| 1988              | 4,010.2   | 59,469                   | 1,859.8                | 8,670                           | 916.3                  | 24,397                               | 573.5     | 5,011                                                 | 151.7     | 3,813 | 52.2      | 169.9           | 286.8               |
| 1989              | 3,663.3   | 42,497                   | 1,343.9                | 12,180                          | 1,071.2                | 27,349                               | 619.3     | 5,076                                                 | 161.5     | 4,065 | 54.2      | 178.2           | 235.0               |
| 1990              | 3,994.7   | 33,317                   | 1,252.3                | 10,082                          | 1,006.8                | 34,550                               | 803.4     | 4,838                                                 | 156.3     | 3,852 | 54.1      | 207.8           | 514.0               |
| 1991              | 4,656.1   | 47,526                   | 1,731.2                | 14,841                          | 1,269.3                | 31,423                               | 731.6     | 4,702                                                 | 157.2     | 4,587 | 62.8      | 231.2           | 472.8               |
| 1992 <sup>p</sup> | 5,412.9   | 56,537                   | 2,139.0                | 18,092                          | 1,475.1                | 31,924                               | 773.4     | 3,096                                                 | 160.6     | 4,915 | 73.1      | 237.5           | 554.2               |

1 Include first and subsequent withdrawals.

Source : Central Provident Fund Board

2 Include Malaysians leaving Singapore permanently.

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

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

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



# 12.17 TURNOVER OF STOCKS AND SHARES, 1982-1992

Million

| Year | Total    |          | Industrial |          | Finance |         | Hotels |         | Properties |         | Mining |         | Plantation |         | Debentures,<br>Loan Stocks<br>& Bonds |         |
|------|----------|----------|------------|----------|---------|---------|--------|---------|------------|---------|--------|---------|------------|---------|---------------------------------------|---------|
|      | Units    | Dollars  | Units      | Dollars  | Units   | Dollars | Units  | Dollars | Units      | Dollars | Units  | Dollars | Units      | Dollars | Units                                 | Dollars |
| 1982 | 1,666.1  | 5,176.7  | 981.9      | 2,930.9  | 201.1   | 1,172.0 | 113.7  | 242.3   | 181.3      | 616.3   | 32.6   | 64.2    | 39.3       | 79.5    | 116.2                                 | 71.5    |
| 1983 | 3,605.2  | 11,807.1 | 2,193.4    | 7,205.1  | 340.5   | 2,108.0 | 212.6  | 514.1   | 317.6      | 1,033.3 | 125.3  | 256.6   | 170.1      | 502.5   | 245.7                                 | 187.5   |
| 1984 | 3,042.6  | 8,211.2  | 2,101.5    | 5,628.9  | 238.9   | 1,235.7 | 139.8  | 309.9   | 135.7      | 319.6   | 150.8  | 256.5   | 123.0      | 357.1   | 152.9                                 | 103.5   |
| 1985 | 3,024.7  | 6,319.3  | 2,144.8    | 4,338.0  | 286.2   | 1,227.5 | 109.1  | 153.4   | 159.0      | 246.5   | 151.4  | 105.2   | 86.2       | 203.3   | 88.0                                  | 45.4    |
| 1986 | 3,951.4  | 8,000.5  | 2,607.5    | 5,107.0  | 410.8   | 1,760.5 | 178.4  | 174.6   | 412.1      | 614.1   | 32.1   | 33.9    | 123.1      | 215.6   | 187.4                                 | 94.8    |
| 1987 | 9,757.9  | 22,478.2 | 5,384.6    | 12,510.3 | 1,131.6 | 5,262.0 | 577.1  | 835.1   | 1,167.8    | 2,202.3 | 140.9  | 268.7   | 417.0      | 804.8   | 938.9                                 | 595.0   |
| 1988 | 7,152.3  | 12,817.0 | 3,593.3    | 7,096.6  | 530.7   | 2,177.9 | 298.3  | 354.6   | 1,188.1    | 1,785.1 | 119.4  | 255.9   | 307.8      | 642.8   | 1,114.7                               | 504.1   |
| 1989 | 21,646.0 | 39,149.9 | 9,773.4    | 19,654.5 | 1,342.0 | 4,799.3 | 811.2  | 1,472.8 | 4,042.3    | 7,124.3 | 189.1  | 391.1   | 784.1      | 1,261.8 | 4,703.9                               | 4,446.1 |
| 1990 | 18,487.0 | 36,756.0 | 8,921.7    | 19,177.4 | 2,394.3 | 6,172.8 | 882.0  | 1,583.2 | 2,966.9    | 5,978.7 | 51.0   | 95.7    | 1,061.7    | 1,385.9 | 2,209.4                               | 2,362.3 |
| 1991 | 15,556.9 | 30,549.1 | 6,897.5    | 16,593.6 | 1,489.2 | 5,082.0 | 670.3  | 1,299.9 | 2,502.7    | 4,198.0 | 105.3  | 176.4   | 507.5      | 602.6   | 3,384.4                               | 2,596.6 |
| 1992 | 13,904.3 | 29,443.9 | 7,178.1    | 16,703.9 | 1,487.1 | 6,038.5 | 524.7  | 973.4   | 2,360.2    | 3,577.5 | 62.3   | 88.0    | 440.6      | 557.1   | 1,851.3                               | 1,505.5 |

Source : Stock Exchange of Singapore

**12.18 STOCK EXCHANGE OF SINGAPORE INDICES, 1982-1992**  
(1975 = 100)

| Year | All Shares | Industrial | Finance | Hotels | Properties |
|------|------------|------------|---------|--------|------------|
| 1982 | 297.0      | 252.8      | 279.0   | 518.8  | 394.6      |
| 1983 | 345.8      | 306.5      | 353.3   | 463.4  | 404.8      |
| 1984 | 335.7      | 300.9      | 338.4   | 392.2  | 378.6      |
| 1985 | 276.3      | 236.4      | 285.4   | 306.4  | 343.1      |
| 1986 | 242.6      | 202.4      | 272.7   | 243.1  | 320.1      |
| 1987 | 330.5      | 299.3      | 355.6   | 355.2  | 354.2      |
| 1988 | 283.8      | 251.1      | 282.5   | 343.7  | 326.7      |
| 1989 | 344.3      | 320.7      | 317.6   | 543.7  | 397.7      |
| 1990 | 388.9      | 375.7      | 355.9   | 564.3  | 337.6      |
| 1991 | 386.4      | 381.9      | 364.9   | 494.7  | 305.9      |
| 1992 | 386.2      | 383.6      | 369.1   | 490.6  | 292.6      |

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

Source : Stock Exchange of Singapore



# 12.19 PLEDGES AT PAWNSHOPS, 1982-1992

| Year | Pledges   |           | Amount of Loans |                             |
|------|-----------|-----------|-----------------|-----------------------------|
|      | Received  | Redeemed  | Given Out       | Redeemed Including Interest |
|      | Number    |           | Million Dollars |                             |
| 1982 | 1,920,851 | 1,854,035 | 397.2           | 410.8                       |
| 1983 | 1,947,232 | 1,848,226 | 451.0           | 446.5                       |
| 1984 | 2,046,769 | 1,899,551 | 492.0           | 489.1                       |
| 1985 | 2,177,003 | 1,959,618 | 513.8           | 505.3                       |
| 1986 | 2,227,215 | 2,094,071 | 534.9           | 544.4                       |
| 1987 | 2,211,369 | 2,103,051 | 586.7           | 584.5                       |
| 1988 | 2,250,020 | 2,107,883 | 659.4           | 648.6                       |
| 1989 | 2,294,121 | 2,121,106 | 679.1           | 677.0                       |
| 1990 | 2,373,031 | 2,157,726 | 717.4           | 701.5                       |
| 1991 | 2,465,730 | 2,220,781 | 754.6           | 734.7                       |
| 1992 | 2,474,332 | 2,221,838 | 762.3           | 742.1                       |

Source : Registry of Pawnbrokers

# 12.20 LIFE INSURANCE POLICIES, 1981-1991

|                                   | 1981    | 1982     | 1983     | 1984     | 1985     | 1986     | 1987     | 1988     | 1989     | 1990      | 1991      |
|-----------------------------------|---------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|
| Number                            |         |          |          |          |          |          |          |          |          |           |           |
| Policies in Force (End of Period) | 271,214 | 314,375  | 359,902  | 379,880  | 405,452  | 463,139  | 565,032  | 702,986  | 870,304  | 1,055,353 | 1,262,731 |
| New Policies                      | 49,539  | 70,374   | 78,212   | 57,013   | 63,712   | 92,819   | 138,821  | 181,167  | 215,755  | 237,279   | 263,669   |
| Policies Matured or Discontinued  | 26,409  | 27,213   | 32,685   | 37,193   | 38,140   | 35,132   | 36,928   | 43,213   | 48,437   | 52,230    | 56,291    |
| Million Dollars                   |         |          |          |          |          |          |          |          |          |           |           |
| Policies in Force                 |         |          |          |          |          |          |          |          |          |           |           |
| Amount Insured (End of Period)    | 7,778.4 | 10,721.0 | 13,810.3 | 16,421.8 | 19,466.9 | 23,439.8 | 28,612.3 | 38,472.5 | 48,676.9 | 59,455.1  | 73,255.7  |
| Premiums                          | 198.0   | 250.4    | 305.3    | 332.5    | 363.5    | 424.3    | 538.5    | 695.3    | 896.1    | 1,122.8   | 1,392.9   |
| New Policies                      |         |          |          |          |          |          |          |          |          |           |           |
| Amount Insured                    | 1,894.5 | 3,302.8  | 4,193.0  | 4,001.8  | 4,786.4  | 6,070.1  | 7,903.9  | 12,819.0 | 13,335.3 | 14,975.2  | 18,638.0  |
| Premiums                          | 43.5    | 70.3     | 79.0     | 60.6     | 67.6     | 97.7     | 150.9    | 200.9    | 250.1    | 285.5     | 333.8     |
| Policies Matured or Discontinued  |         |          |          |          |          |          |          |          |          |           |           |
| Amount Insured                    | 450.9   | 360.2    | 1,111.9  | 1,381.6  | 1,741.1  | 2,097.3  | 2,049.9  | 2,866.0  | 3,130.2  | 4,200.0   | 4,837.4   |
| Premiums                          | 15.5    | 17.9     | 28.0     | 33.5     | 36.6     | 36.8     | 36.7     | 44.1     | 49.5     | 58.9      | 63.7      |

Source : The Monetary Authority of Singapore



# 12.21 REVENUE AND EXPENDITURE ACCOUNTS OF LIFE INSURANCE FUNDS, 1981-1991

Million Dollars

|                                                 | 1981  | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    |
|-------------------------------------------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>Total Revenue</b>                            | 933.2 | 1,116.3 | 1,314.4 | 1,528.4 | 1,759.3 | 2,068.5 | 2,510.7 | 2,949.2 | 3,665.0 | 4,611.0 | 5,418.0 |
| Balance of Revenue Account at Beginning of Year | 649.2 | 776.6   | 926.9   | 1,087.7 | 1,282.6 | 1,462.9 | 1,720.7 | 2,060.3 | 2,470.3 | 3,054.2 | 3,728.3 |
| Premiums                                        | 191.8 | 237.0   | 282.5   | 299.0   | 341.4   | 398.3   | 515.2   | 654.1   | 844.2   | 1,076.4 | 1,370.3 |
| Net Interest, Dividends & Rents                 | 61.3  | 69.8    | 79.2    | 91.3    | 101.8   | 109.9   | 116.0   | 145.2   | 183.3   | 213.6   | 245.2   |
| Miscellaneous                                   | 30.9  | 32.9    | 25.8    | 50.4    | 33.5    | 97.4    | 158.8   | 89.6    | 167.2   | 266.8   | 74.2    |
| <b>Total Expenditure</b>                        | 933.2 | 1,116.3 | 1,314.4 | 1,528.4 | 1,759.3 | 2,068.5 | 2,510.7 | 2,949.2 | 3,665.0 | 4,611.0 | 5,418.0 |
| Claims on Death, Disability & Maturity          | 36.9  | 41.4    | 50.0    | 57.3    | 71.0    | 85.5    | 99.2    | 115.6   | 138.2   | 183.7   | 256.2   |
| Surrenders                                      | 20.0  | 23.0    | 26.3    | 33.2    | 49.9    | 64.3    | 63.4    | 60.8    | 63.7    | 62.1    | 74.2    |
| Cash Bonuses & Annuities                        | 6.0   | 4.8     | 5.7     | 5.0     | 6.0     | 7.0     | 7.4     | 8.8     | 42.5    | 53.5    | 25.2    |
| Management Expenses                             |       |         |         |         |         |         |         |         |         |         |         |
| Commission                                      | 40.6  | 64.8    | 72.4    | 59.2    | 63.9    | 92.4    | 137.0   | 181.4   | 239.6   | 291.4   | 324.3   |
| Salaries                                        | 8.9   | 11.9    | 12.8    | 15.5    | 18.9    | 18.7    | 21.9    | 27.2    | 33.0    | 43.8    | 53.7    |
| Others                                          | 34.7  | 24.2    | 28.3    | 29.2    | 31.7    | 26.2    | 30.0    | 22.0    | 49.6    | 68.2    | 94.2    |
| Miscellaneous                                   | 9.5   | 19.2    | 20.4    | 46.4    | 55.0    | 53.7    | 89.3    | 65.2    | 44.2    | 180.0   | 48.5    |
| Balance of Revenue Account at End of Year       | 776.6 | 927.0   | 1,098.5 | 1,282.6 | 1,462.9 | 1,720.7 | 2,062.5 | 2,468.2 | 3,054.2 | 3,728.3 | 4,541.7 |

Source : The Monetary Authority of Singapore

**12.22 ASSETS OF LIFE INSURANCE FUNDS, 1981-1991**  
(End of Period)

Million Dollars

|                                                             | 1981  | 1982  | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    |
|-------------------------------------------------------------|-------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>Total</b>                                                | 834.7 | 998.8 | 1,196.5 | 1,384.0 | 1,576.3 | 1,851.5 | 2,238.9 | 2,689.4 | 3,298.6 | 4,099.5 | 4,935.9 |
| Land & Buildings                                            | 37.7  | 52.5  | 57.7    | 54.2    | 51.9    | 59.6    | 83.6    | 96.3    | 104.6   | 115.3   | 130.9   |
| Loans                                                       | 186.9 | 205.9 | 232.3   | 268.9   | 314.2   | 442.9   | 518.5   | 678.6   | 666.0   | 801.6   | 963.2   |
| On Mortgages                                                | 93.1  | 100.6 | 108.4   | 110.7   | 127.3   | 240.1   | 291.9   | 371.4   | 323.0   | 347.5   | 354.6   |
| On Policies                                                 | 76.6  | 87.0  | 99.1    | 123.4   | 153.6   | 178.9   | 201.1   | 216.9   | 237.8   | 274.4   | 332.8   |
| Others                                                      | 17.2  | 18.3  | 24.8    | 34.8    | 33.3    | 23.9    | 25.5    | 90.3    | 105.2   | 179.7   | 275.8   |
| Investments                                                 | 424.2 | 513.0 | 620.0   | 701.7   | 741.6   | 935.1   | 1,139.1 | 1,320.5 | 1,703.1 | 2,053.6 | 2,686.1 |
| Government & Statutory Authorities                          | 198.2 | 236.1 | 283.1   | 354.7   | 380.0   | 457.0   | 518.5   | 603.2   | 741.3   | 842.6   | 1,064.6 |
| Debentures & Shares <sup>1</sup>                            | 226.0 | 276.9 | 336.9   | 347.0   | 361.6   | 478.1   | 620.6   | 717.3   | 961.8   | 1,211.0 | 1,621.5 |
| Cash & Deposits                                             | 154.9 | 180.5 | 234.8   | 305.7   | 403.5   | 354.5   | 424.9   | 503.7   | 699.5   | 946.5   | 956.5   |
| Miscellaneous (including Outstanding Premiums) <sup>2</sup> | 31.0  | 46.9  | 51.7    | 53.5    | 65.1    | 59.4    | 72.8    | 90.3    | 125.4   | 182.5   | 199.2   |

<sup>1</sup> Include other investments.

<sup>2</sup> Include furniture.

Source : The Monetary Authority of Singapore



12.23 PREMIUMS AND CLAIMS OF GENERAL INSURANCE FUNDS, 1981-1991

Million Dollars

|                                       | 1981  | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Total Net Premiums<sup>1</sup></b> | 397.7 | 431.0 | 441.0 | 440.9 | 433.6 | 421.4 | 442.9 | 508.6 | 588.8 | 692.7 | 750.2 |
| Marine, Aviation or Transit           | 74.2  | 70.5  | 70.7  | 68.0  | 65.9  | 62.9  | 64.3  | 76.8  | 83.6  | 98.5  | 104.0 |
| Others                                | 323.5 | 360.5 | 370.3 | 372.9 | 367.7 | 358.5 | 378.6 | 431.8 | 505.2 | 594.2 | 646.2 |
| Fire                                  | 61.2  | 68.1  | 69.7  | 71.3  | 76.4  | 72.1  | 69.4  | 71.9  | 77.8  | 87.8  | 93.5  |
| Motor Vehicles                        | 117.4 | 135.5 | 147.4 | 158.9 | 152.1 | 148.2 | 165.6 | 205.5 | 254.2 | 297.9 | 315.8 |
| Miscellaneous                         | 144.9 | 156.9 | 153.2 | 142.7 | 139.2 | 138.2 | 143.6 | 154.4 | 173.2 | 208.5 | 236.9 |
| <b>Total Net Claims<sup>2</sup></b>   | 146.7 | 165.6 | 186.7 | 195.4 | 220.6 | 230.1 | 218.1 | 225.2 | 258.7 | 302.7 | 360.9 |
| Marine, Aviation or Transit           | 35.7  | 38.6  | 36.1  | 27.5  | 27.9  | 25.7  | 25.6  | 24.4  | 39.0  | 44.7  | 52.6  |
| Others                                | 111.0 | 127.0 | 150.6 | 167.9 | 192.7 | 204.5 | 192.5 | 200.8 | 219.7 | 258.0 | 308.3 |
| Fire                                  | 18.8  | 17.1  | 21.7  | 20.4  | 20.9  | 30.1  | 18.6  | 22.7  | 27.7  | 28.5  | 36.5  |
| Motor Vehicles                        | 52.6  | 58.9  | 71.1  | 87.2  | 99.2  | 99.8  | 107.6 | 110.7 | 122.2 | 147.7 | 168.7 |
| Miscellaneous                         | 39.6  | 51.0  | 57.8  | 60.3  | 72.6  | 74.6  | 66.3  | 67.4  | 69.8  | 81.8  | 103.1 |

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

Source : The Monetary Authority of Singapore

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

# 12.24 REVENUE AND EXPENDITURE ACCOUNTS OF GENERAL INSURANCE FUNDS, 1981-1991

Million Dollars

|                                                   | 1981  | 1982  | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    |
|---------------------------------------------------|-------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>Total Revenue</b>                              | 896.7 | 958.0 | 1,077.5 | 1,126.4 | 1,166.7 | 1,236.5 | 1,361.5 | 1,507.3 | 1,724.1 | 2,032.1 | 2,237.3 |
| Balance of Revenue Account at Beginning of Year   | 39.5  | 74.1  | 88.4    | 93.0    | 69.6    | 95.7    | 125.3   | 210.9   | 249.2   | 308.5   | 329.7   |
| Reserves for Unexpired Risks at Beginning of Year | 146.7 | 178.3 | 197.6   | 205.3   | 207.5   | 199.9   | 192.3   | 203.5   | 228.0   | 272.5   | 310.4   |
| Loss Reserves at Beginning of Year                | 178.2 | 217.1 | 265.0   | 305.2   | 369.5   | 420.5   | 433.9   | 482.1   | 542.8   | 621.3   | 697.2   |
| Net Premiums Written                              | 397.7 | 431.0 | 441.0   | 440.9   | 433.6   | 421.3   | 442.9   | 508.6   | 588.8   | 692.7   | 750.2   |
| Net Interest, Dividends & Rents                   | 40.4  | 46.9  | 49.6    | 55.3    | 54.0    | 47.4    | 46.9    | 52.9    | 63.5    | 76.3    | 82.5    |
| Miscellaneous                                     | 94.2  | 10.6  | 35.9    | 26.7    | 32.5    | 51.7    | 120.2   | 49.3    | 51.8    | 60.8    | 67.3    |
| <b>Total Expenditure</b>                          | 896.7 | 958.0 | 1,077.5 | 1,126.4 | 1,166.7 | 1,236.5 | 1,361.5 | 1,507.3 | 1,724.1 | 2,032.1 | 2,237.3 |
| Net Claims Settled, Loss Reserves at End of Year  | 366.0 | 429.8 | 489.7   | 567.1   | 637.6   | 677.0   | 695.6   | 760.5   | 867.5   | 1,006.8 | 1,117.6 |
| Management Expenses                               |       |       |         |         |         |         |         |         |         |         |         |
| Commission                                        | 91.3  | 76.4  | 72.5    | 68.2    | 71.7    | 69.4    | 69.8    | 79.2    | 93.3    | 107.8   | 115.9   |
| Others                                            | 88.1  | 87.6  | 98.1    | 102.9   | 102.3   | 110.3   | 106.9   | 120.4   | 136.1   | 157.4   | 176.4   |
| Miscellaneous                                     | 97.3  | 76.8  | 110.8   | 109.5   | 57.9    | 58.1    | 71.0    | 68.3    | 54.0    | 107.6   | 73.6    |
| Balance of Revenue Account at End of Year         | 75.4  | 90.1  | 101.3   | 70.1    | 97.3    | 125.3   | 216.5   | 251.5   | 307.3   | 341.1   | 428.1   |
| Reserves for Unexpired Risks at End of Year       | 178.6 | 197.3 | 205.1   | 208.6   | 199.9   | 196.4   | 201.7   | 227.4   | 265.9   | 311.4   | 325.7   |

Source : The Monetary Authority of Singapore



**12.25 ASSETS OF GENERAL INSURANCE FUNDS, 1981-1991**  
(End of Period)

Million Dollars

|                                    | 1981  | 1982  | 1983  | 1984  | 1985  | 1986  | 1987    | 1988    | 1989    | 1990    | 1991    |
|------------------------------------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|---------|
| <b>Total</b>                       | 684.4 | 797.7 | 873.3 | 907.1 | 943.3 | 985.3 | 1,123.4 | 1,259.2 | 1,427.4 | 1,656.6 | 1,844.3 |
| Land & Buildings                   | 42.8  | 42.6  | 42.9  | 40.7  | 39.6  | 35.5  | 39.4    | 41.1    | 49.8    | 52.2    | 72.3    |
| Loans                              | 5.3   | 7.6   | 11.4  | 12.1  | 12.5  | 13.5  | 16.3    | 23.1    | 16.4    | 15.1    | 20.4    |
| Investments                        | 229.6 | 256.4 | 290.7 | 302.4 | 305.2 | 369.4 | 468.5   | 529.8   | 637.7   | 694.6   | 742.2   |
| Government & Statutory Authorities | 108.6 | 128.5 | 147.6 | 166.5 | 172.2 | 186.5 | 214.7   | 240.6   | 266.6   | 291.2   | 332.3   |
| Debentures & Shares                | 121.0 | 127.9 | 143.1 | 135.9 | 133.0 | 182.9 | 253.8   | 289.2   | 371.1   | 403.4   | 409.9   |
| Cash & Deposits                    | 294.6 | 361.9 | 394.3 | 412.7 | 443.8 | 429.7 | 457.6   | 512.1   | 555.3   | 687.4   | 772.8   |
| Miscellaneous                      | 112.1 | 129.2 | 134.0 | 139.2 | 142.2 | 137.2 | 141.6   | 153.1   | 168.2   | 207.3   | 236.6   |

Source : The Monetary Authority of Singapore

CHART 17

MONEY SUPPLY, 1982-1992  
(At End of Period)

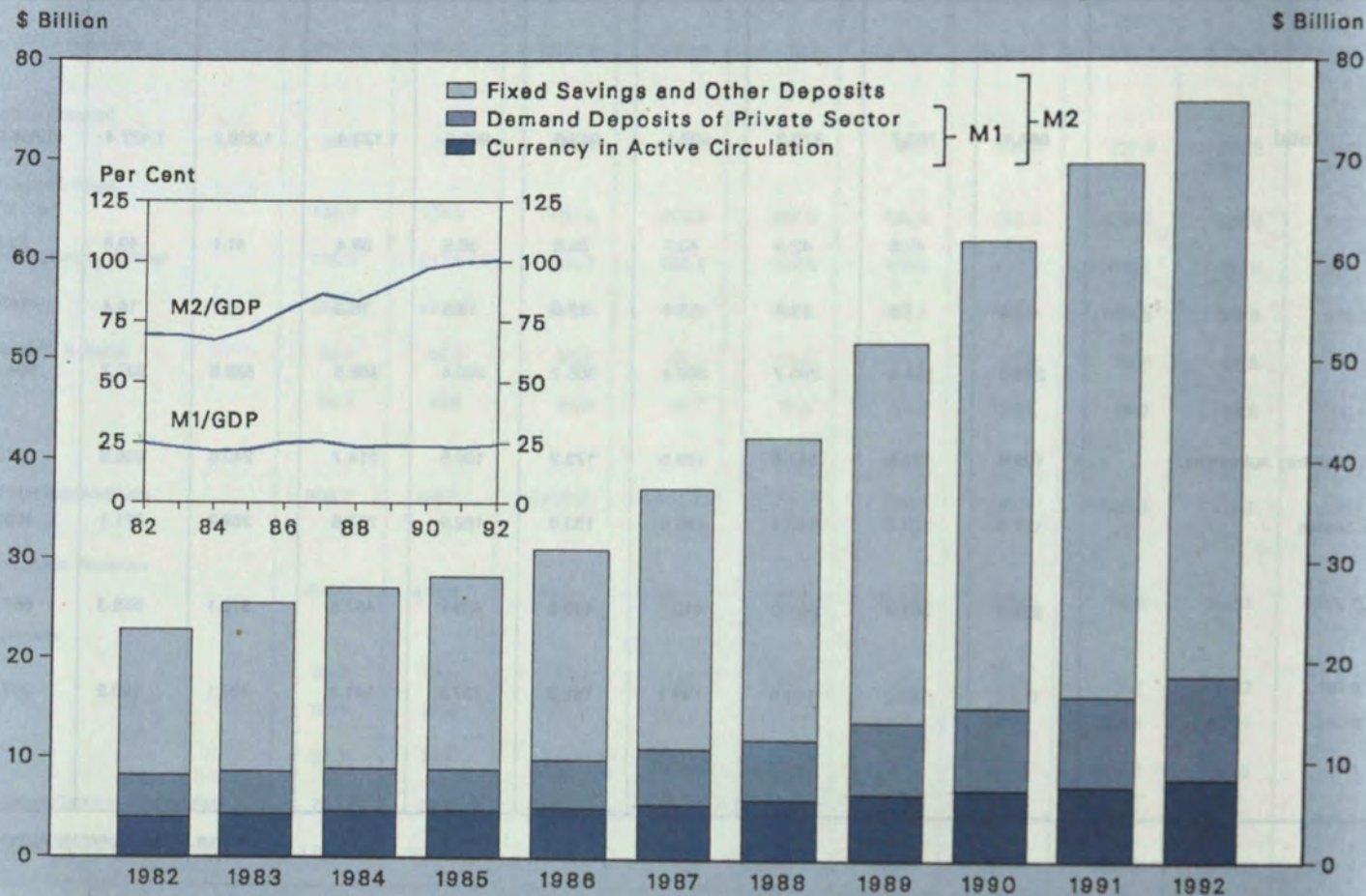




CHART 18

TYPE OF BANK DEPOSITS AND LOANS AND ADVANCES TO INDUSTRIES, 1982-1992  
(At End of Period)

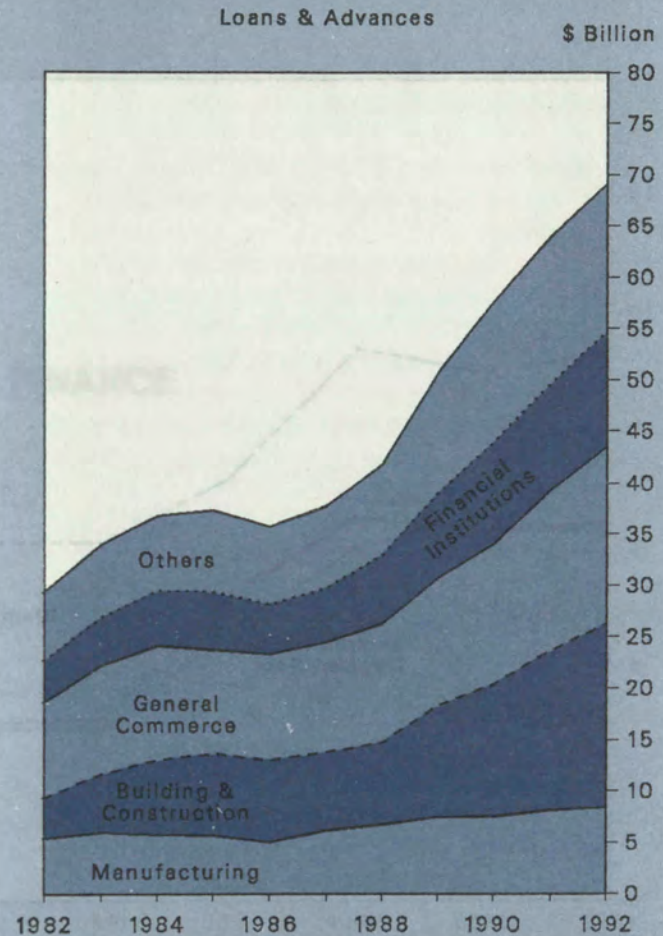
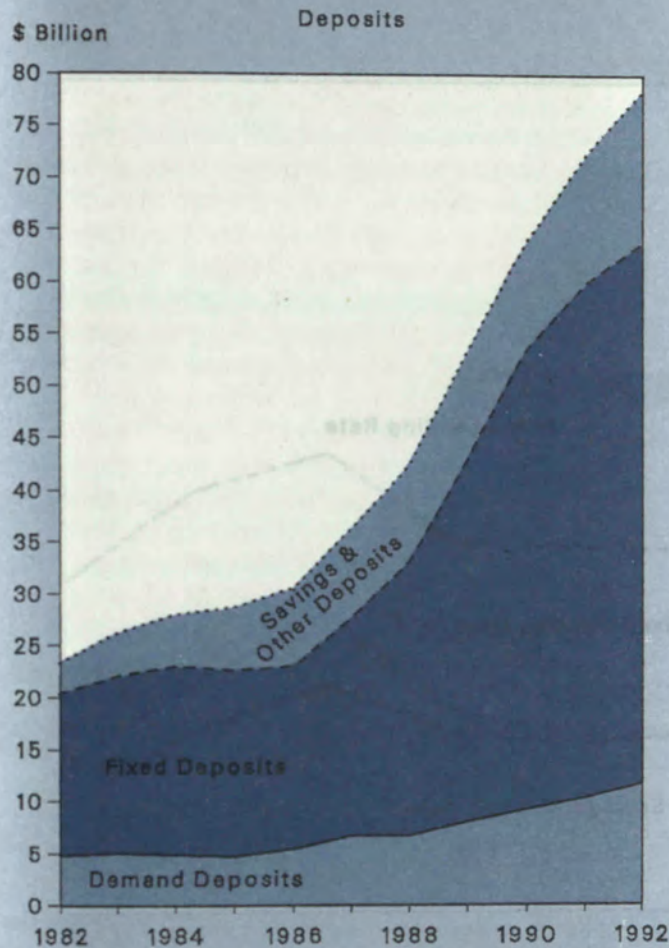
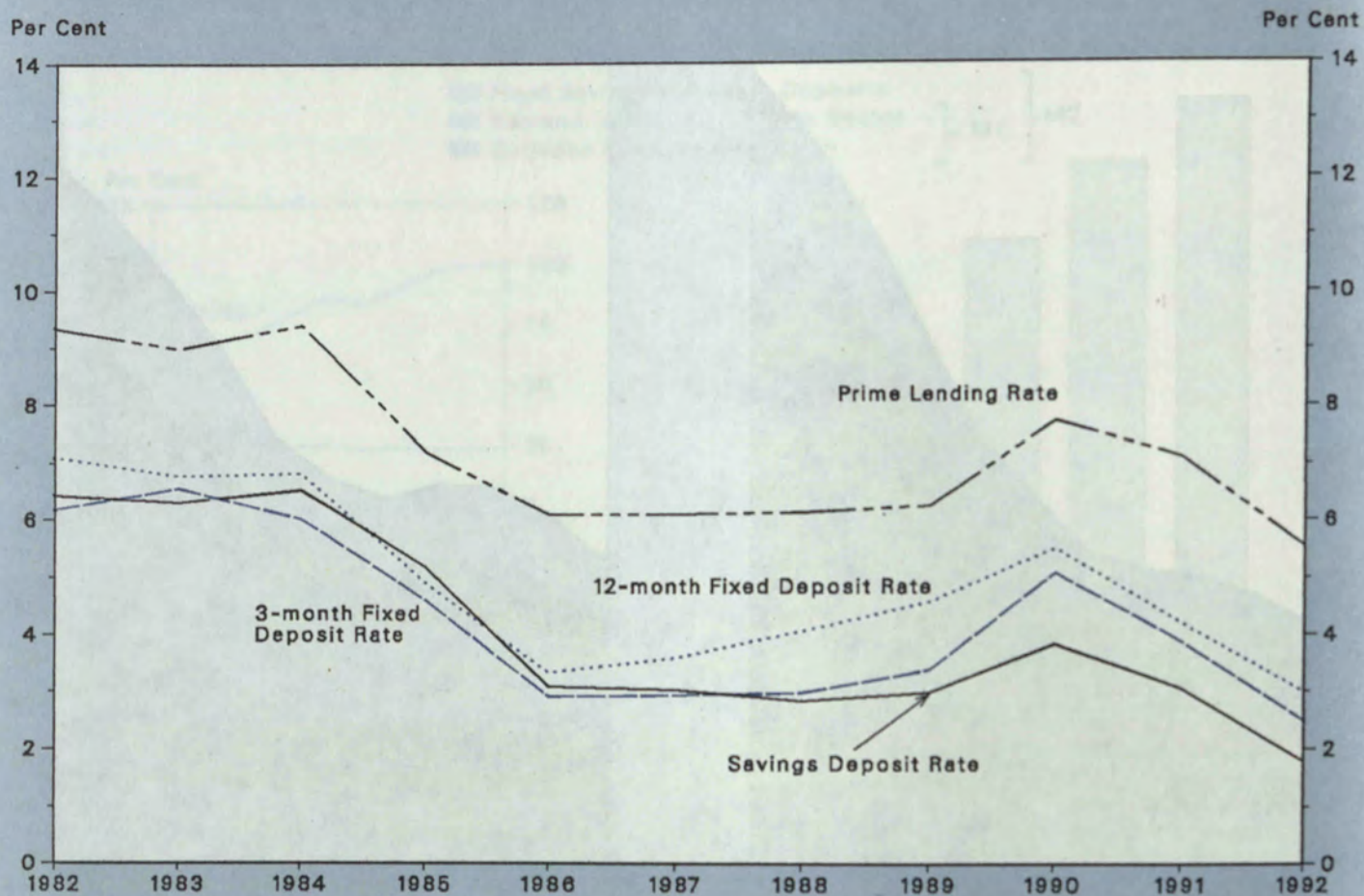


CHART 19

**BANK INTEREST RATES, 1982-1992**  
(At End of Period)





# 13 PUBLIC FINANCE

The main revenue collecting departments are the Customs and Excise Department and the Inland Revenue Authority of Singapore (IRAS). The former is responsible for the collection of import and export duties and excise duties, while the latter is responsible for the collection of taxes on personal income, company income, and property income. The IRAS also supervises the collection of taxes on stamp duties and other taxes. Supervision of the collection of taxes is also a function of the Inland Revenue Authority of Singapore. All such duties are promptly collected. The Inland Revenue Authority of Singapore is based on a progressive system of taxation. The Inland Revenue Authority of Singapore has been made the income after the appropriate deductions have been made. The tax rates for individual residents in Singapore range from 3.5 per cent to 15 per cent depending on the amount of the chargeable income. The Inland Revenue Authority of Singapore also provides a 5 per cent discount on the first \$10,000 of the chargeable income is given in addition, an across-the-board one-off rebate of 5 per cent is granted for the Year of Assessment 1995. Deductions include allowances for personal relief, earned income, maintenance of wife, children and dependants, delivery and hospitalization expenses for the

### Government Revenue and Expenditure

The main revenue collecting departments are the Customs and Excise Department and the Inland Revenue Authority of Singapore (IRAS). 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 IRAS is responsible for the collection of taxes on income and property, estate and stamp duties, duties on sweepstakes and lotteries and the enforcement of Charities Supervision. It also ensures that liabilities of all persons for tax, duty, levy or fee are speedily and correctly assessed, and that all such dues are promptly collected.

Personal income tax in Singapore is based on a progressive scale applied to the previous year's chargeable income after the appropriate deductions have been made. The tax rates for individual residents in Singapore range from 3.5 per cent to 33 per cent depending on the amount of the chargeable income. A rebate of 15 per cent on the first \$10,000 of the chargeable income is given. In addition, an across-the-board one-off rebate of 5 per cent is granted for the Year of Assessment 1992. Deductions include allowances for personal relief, earned income, maintenance of wife, children and dependents, delivery and hospitalisation expenses for the

new born fourth child, life insurance premiums, contributions to Central Provident Fund (CPF) and approved pension schemes, course fees and cash used to top up an individual's or his parents' retirement account under the CPF Minimum Sum Scheme. Special rebates are also available for the new born second, third and fourth children. A relief of twice the foreign maid levy paid is available to women who qualify. Non-resident individuals are not entitled to personal relief and are normally taxed at a flat rate of 31 per cent for the Year of Assessment 1992.

Company taxes are based on a flat rate of 31 per cent of income for the Year of Assessment 1992 with the usual allowances. The tax rate will be reduced to 30 per cent with effect from Year of Assessment 1993. Special tax exemptions 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 27 countries, namely, Australia, Bangladesh, Belgium, Canada, Denmark, Finland, France, Germany, Indonesia, India, Israel, Italy, Japan, Republic of Korea, Malaysia, Netherlands, New Zealand, Norway, People's Republic of China, Papua New Guinea, Philippines, Sri Lanka, Sweden, Switzerland, Taiwan, Thailand, and the United Kingdom.



Government revenue is credited to and current expenditure paid out of the Consolidated Revenue Account.

### Development Fund

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

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

The sources of funds for the Development Fund are:

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

iii) interest on investments of the fund and profits arising from the realization of any such investments; and

iv) receipts of re-payments of any loans made from the fund, or of interest on such loans.

The Fund may be used for:

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

# 13.1 GOVERNMENT OPERATING REVENUE, 1989-1992

Million Dollars

|                                   | 1989     | 1990     | 1991     | 1992 <sup>P</sup> |
|-----------------------------------|----------|----------|----------|-------------------|
| <b>Total<sup>1</sup></b>          | 11,546.9 | 13,102.3 | 14,851.6 | 17,218.5          |
| <b>Tax Revenue</b>                | 9,606.4  | 10,534.0 | 12,017.0 | 13,758.8          |
| Income Tax                        | 4,388.6  | 4,908.2  | 6,062.9  | 6,863.2           |
| Corporate & Personal Income Tax   | 3,618.8  | 4,396.0  | 5,346.4  | 6,142.1           |
| Contributions by Statutory Boards | 769.8    | 512.2    | 716.5    | 721.1             |
| Assets Taxes                      | 939.3    | 1,111.4  | 1,295.6  | 1,465.4           |
| Motor Vehicle Taxes <sup>2</sup>  | 1,458.5  | 1,337.5  | 1,164.3  | 1,502.9           |
| Customs & Excise Duties           | 1,261.7  | 1,305.5  | 1,370.2  | 1,525.8           |
| Betting Taxes                     | 409.7    | 521.6    | 587.7    | 694.9             |
| Stamp Duty                        | 708.4    | 654.8    | 589.0    | 603.6             |
| Others                            | 440.2    | 695.0    | 947.3    | 1,103.0           |
| Fees & Charges                    | 959.3    | 1,498.7  | 1,644.7  | 2,209.8           |
| Other Receipts <sup>3</sup>       | 981.2    | 1,069.6  | 1,189.9  | 1,249.9           |

1 Operating revenue refers to receipts credited to the Consolidated Revenue Account, Development Fund Account and Sinking Fund Account, but excludes investment income and capital receipts.

Source : Ministry of Finance

2 Motor vehicle taxes comprise additional registration fees, road tax, special tax on heavy-oil engine, passenger vehicle seating fees and non-motor vehicle licences, but exclude import duties on motor vehicles which are classified under customs and excise duties.

3 Other receipts exclude repayment of direct loans and advances but include interest on loans previously classified under investment income.



# 13.2 GOVERNMENT OPERATING EXPENDITURE, 1989-1992

Million Dollars

|                             | 1989    | 1990    | 1991    | 1992 <sup>p</sup> |
|-----------------------------|---------|---------|---------|-------------------|
| <b>Total<sup>1</sup></b>    | 6,105.8 | 7,061.6 | 7,813.4 | 8,477.5           |
| Security                    | 2,833.2 | 3,405.4 | 3,790.1 | 3,866.3           |
| Social & Community Services | 2,343.6 | 2,604.2 | 2,833.9 | 3,458.5           |
| Education                   | 1,595.2 | 1,742.3 | 1,892.7 | 2,461.5           |
| Health                      | 453.9   | 457.0   | 484.8   | 516.9             |
| Environment                 | 169.3   | 188.5   | 200.5   | 208.4             |
| Public Housing              | 1.8     | 45.1    | 52.8    | 60.5              |
| Others                      | 123.4   | 171.3   | 203.1   | 211.2             |
| Economic Services           | 389.2   | 428.3   | 433.9   | 440.6             |
| National Development        | 240.5   | 245.8   | 263.9   | 261.5             |
| Communications              | 41.0    | 30.5    | 33.0    | 38.9              |
| Trade & Industry            | 86.1    | 127.3   | 109.7   | 108.8             |
| Labour                      | 21.6    | 24.7    | 27.3    | 31.4              |
| General Services            | 307.9   | 367.1   | 478.5   | 419.2             |
| Pensions                    | 231.9   | 256.6   | 277.0   | 292.9             |

<sup>1</sup> Government operating expenditure refers to Expenditure on Manpower, other Operating Expenditure (excluding expenses on investment and agency fees on land sales). Grants-in-Aid to statutory boards and Pensions.

Source : Ministry of Finance

# 13.3 GOVERNMENT DEVELOPMENT EXPENDITURE, 1989-1992

Million Dollars

|                             | 1989           | 1990           | 1991           | 1992 <sup>P</sup> |
|-----------------------------|----------------|----------------|----------------|-------------------|
| <b>Total<sup>1</sup></b>    | <b>2,944.5</b> | <b>4,217.7</b> | <b>3,524.7</b> | <b>3,794.8</b>    |
| Security                    | 246.7          | 266.5          | 388.6          | 386.1             |
| Social & Community Services | 517.1          | 1,529.5        | 1,536.1        | 1,593.4           |
| Education                   | 137.5          | 228.7          | 371.7          | 559.5             |
| Health                      | 65.9           | 48.4           | 135.6          | 164.8             |
| Environment                 | 209.9          | 209.3          | 501.9          | 231.7             |
| Public Housing              | 87.7           | 957.2          | 463.3          | 565.5             |
| Others                      | 16.1           | 85.9           | 63.6           | 71.9              |
| Economic Services           | 1,899.6        | 2,154.3        | 1,388.5        | 1,539.2           |
| National Development        | 1,306.3        | 1,591.7        | 390.9          | 481.7             |
| Communications              | 451.9          | 333.7          | 777.1          | 600.5             |
| Trade & Industry            | 125.3          | 199.4          | 158.2          | 211.9             |
| Labour                      | 10.9           | 9.5            | 1.5            | 0.7               |
| Research & Development      | 5.2            | 20.0           | 60.8           | 244.4             |
| General Services            | 281.1          | 267.4          | 211.5          | 276.1             |

- <sup>1</sup> Government development expenditure excludes :
- Loans to statutory boards, industrial and commercial enterprises.
  - Land transactions between government and statutory boards.

Source : Ministry of Finance



# 13.4 SOURCES AND USES OF DEVELOPMENT FUND, 1982/83-1992/93

Million Dollars

| Financial Year       | Balance<br>(Beginning<br>of<br>Financial<br>Year) | Sources  |                                    |                                 |         | Uses     |                                          |                                                  |        |
|----------------------|---------------------------------------------------|----------|------------------------------------|---------------------------------|---------|----------|------------------------------------------|--------------------------------------------------|--------|
|                      |                                                   | Total    | Consolidated<br>Revenue<br>Account | Consolidated<br>Loan<br>Account | Others  | Total    | Government<br>Development<br>Expenditure | Loans to<br>Statutory<br>Boards &<br>Enterprises | Others |
| 1982/83              | 7,321.3                                           | 5,197.0  | 1,995.1                            | 1,330.4                         | 1,871.5 | 4,997.8  | 1,951.0                                  | 3,046.8                                          | -      |
| 1983/84              | 7,520.5                                           | 10,586.1 | 1,984.4                            | 6,190.5                         | 2,411.2 | 6,388.4  | 2,138.8                                  | 4,249.6                                          | -      |
| 1984/85              | 11,718.2                                          | 7,963.0  | 2,393.1                            | 12.1                            | 5,557.8 | 7,216.9  | 3,580.5                                  | 3,636.4                                          | -      |
| 1985/86              | 12,464.3                                          | 5,859.0  | 2,261.8                            | 10.0                            | 3,587.2 | 8,555.5  | 3,264.0                                  | 5,291.5                                          | -      |
| 1986/87              | 9,767.8                                           | 11,104.8 | 5,879.7                            | 3.3                             | 5,221.8 | 10,578.1 | 4,634.6                                  | 5,943.5                                          | -      |
| 1987/88              | 10,294.5                                          | 36,482.4 | 1,543.8                            | 30,826.4                        | 4,112.2 | 7,087.3  | 5,548.3                                  | 1,539.0                                          | -      |
| 1988/89              | 39,689.6                                          | 8,433.6  | -                                  | 3,098.1                         | 5,335.5 | 5,187.6  | 3,635.3                                  | 1,552.3                                          | -      |
| 1989/90              | 42,935.6                                          | 9,312.8  | -                                  | 4,744.8                         | 4,568.0 | 5,078.2  | 4,115.9                                  | 662.3                                            | 300.0  |
| 1990/91              | 47,170.2                                          | 6,796.4  | -                                  | 2,496.0                         | 4,300.4 | 5,004.4  | 3,356.4                                  | 1,648.0                                          | -      |
| 1991/92              | 48,962.2                                          | 5,311.9  | -                                  | 2,098.9                         | 3,213.0 | 5,596.8  | 3,601.1                                  | 1,995.7                                          | -      |
| 1992/93 <sup>P</sup> | 48,677.3                                          | 3,852.9  | -                                  | -                               | 3,852.9 | 6,800.4  | 4,198.2                                  | 2,102.2                                          | 500.0  |

Source : Accountant-General's Department

# 13.5 GOVERNMENT DEBT, 1982-1992

Million Dollars

| End of Year | Total    | Domestic |                   |              |                           |                  | External <sup>1</sup> |                |            |                        |                     |        |
|-------------|----------|----------|-------------------|--------------|---------------------------|------------------|-----------------------|----------------|------------|------------------------|---------------------|--------|
|             |          | Total    | Registered Stocks | Bearer Bonds | Treasury Bills & Deposits | Advance Deposits | Total                 | UK Special Aid | World Bank | Asian Development Bank | Capital Market Loan | Others |
| 1982        | 20,730.4 | 19,855.7 | 12,556.1          | 80.0         | 1,839.8                   | 5,379.8          | 874.7                 | 224.1          | 137.1      | 43.9                   | 408.9               | 60.7   |
| 1983        | 25,031.5 | 24,359.9 | 18,438.6          | 40.0         | 1,723.0                   | 4,158.3          | 671.6                 | 217.4          | 129.8      | 70.3                   | 202.0               | 52.1   |
| 1984        | 28,077.3 | 27,435.9 | 18,207.9          | -            | 1,835.7                   | 7,392.3          | 641.4                 | 211.2          | 121.8      | 80.6                   | 184.4               | 43.4   |
| 1985        | 32,164.4 | 31,568.1 | 18,107.4          | -            | 1,420.5                   | 12,040.2         | 596.3                 | 205.4          | 112.6      | 79.9                   | 163.7               | 34.7   |
| 1986        | 33,793.1 | 33,341.7 | 17,790.1          | -            | 1,998.4                   | 13,553.2         | 451.4                 | 198.9          | 101.6      | 73.5                   | 55.4                | 22.0   |
| 1987        | 38,274.3 | 37,971.1 | 34,021.3          | -            | 2,780.0                   | 1,169.8          | 303.2                 | 62.0           | 72.4       | 60.0                   | 61.8                | 47.0   |
| 1988        | 41,830.7 | 41,589.9 | 36,972.5          | -            | 2,360.0                   | 2,257.4          | 240.8                 | 51.3           | 59.6       | 48.3                   | 51.6                | 30.0   |
| 1989        | 46,209.7 | 46,071.0 | 40,499.1          | -            | 1,900.0                   | 3,671.9          | 138.7                 | 38.3           | 48.2       | 36.8                   | -                   | 15.4   |
| 1990        | 51,425.6 | 51,357.7 | 41,149.8          | -            | 2,070.0                   | 8,137.9          | 67.9                  | 35.0           | 13.5       | 14.3                   | -                   | 5.1    |
| 1991        | 59,041.1 | 59,000.3 | 41,810.2          | -            | 3,470.0                   | 13,720.1         | 40.8                  | 25.2           | 8.2        | 6.4                    | -                   | 1.0    |
| 1992        | 67,255.1 | 67,228.2 | 56,360.2          | -            | 4,940.0                   | 5,928.0          | 26.9                  | 18.1           | 5.1        | 3.4                    | -                   | 0.3    |

<sup>1</sup> Figures were computed at market rates.

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



# 13.6 REVENUE COLLECTED BY CUSTOMS AND EXCISE DEPARTMENT, 1982-1992

Million Dollars

| Year | Total   | Import & Excise Duties |         |           |                |        | Entertainment Duties | Film Hire Duty | Licence Fees | Miscellaneous Receipts |
|------|---------|------------------------|---------|-----------|----------------|--------|----------------------|----------------|--------------|------------------------|
|      |         | Liquors                | Tobacco | Petroleum | Motor Vehicles | Others |                      |                |              |                        |
| 1982 | 813.7   | 173.5                  | 176.9   | 206.1     | 149.9          | 53.9   | 40.7                 | 4.1            | 4.6          | 4.0                    |
| 1983 | 913.5   | 193.4                  | 195.4   | 265.1     | 148.7          | 56.9   | 41.1                 | 3.8            | 5.4          | 3.7                    |
| 1984 | 1,046.3 | 214.3                  | 227.3   | 381.0     | 107.0          | 61.4   | 40.8                 | 3.8            | 5.4          | 5.3                    |
| 1985 | 1,022.6 | 203.7                  | 227.9   | 431.8     | 62.0           | 60.7   | 21.1                 | 4.1            | 5.8          | 5.5                    |
| 1986 | 883.1   | 191.9                  | 228.4   | 330.0     | 57.2           | 46.8   | 13.8                 | 4.1            | 6.4          | 4.5                    |
| 1987 | 961.8   | 218.8                  | 214.5   | 335.0     | 113.8          | 49.3   | 15.3                 | 4.1            | 6.9          | 4.1                    |
| 1988 | 1,147.4 | 241.4                  | 250.0   | 350.6     | 225.8          | 44.6   | 16.6                 | 5.1            | 7.3          | 6.0                    |
| 1989 | 1,297.3 | 245.3                  | 263.9   | 409.2     | 295.1          | 48.7   | 16.9                 | 5.4            | 7.8          | 5.0                    |
| 1990 | 1,345.5 | 235.6                  | 257.3   | 500.1     | 256.2          | 57.4   | 19.8                 | 5.2            | 8.3          | 5.6                    |
| 1991 | 1,414.4 | 234.4                  | 306.9   | 533.5     | 248.9          | 55.2   | 14.2                 | 6.1            | 9.1          | 6.1                    |
| 1992 | 1,575.8 | 282.5                  | 335.5   | 558.4     | 300.6          | 62.3   | 14.6                 | 6.6            | 9.3          | 6.0                    |

Source : Customs and Excise Department

# 13.7 REVENUE COLLECTED BY INLAND REVENUE AUTHORITY, 1982-1992

Million Dollars

| Year | Total   | Income Tax <sup>1</sup> | Property Tax <sup>2</sup> | Estate Duties | Stamp Duties | Bets, Sweepstakes & Private Lotteries <sup>3</sup> | Skills Development Levy <sup>4</sup> | Others <sup>5</sup> |
|------|---------|-------------------------|---------------------------|---------------|--------------|----------------------------------------------------|--------------------------------------|---------------------|
| 1982 | 4,714.5 | 3,251.2                 | 807.5                     | 43.2          | 251.8        | 86.4                                               | 112.6                                | 161.8               |
| 1983 | 5,249.1 | 3,527.4                 | 948.8                     | 61.2          | 314.2        | 102.8                                              | 112.4                                | 182.3               |
| 1984 | 5,546.0 | 3,568.7                 | 1,204.1                   | 49.0          | 280.7        | 130.1                                              | 109.1                                | 204.3               |
| 1985 | 4,829.3 | 2,999.8                 | 1,195.3                   | 32.7          | 314.2        | 140.0                                              | 66.2                                 | 81.1                |
| 1986 | 3,617.7 | 2,235.2                 | 719.0                     | 26.3          | 413.0        | 191.9                                              | 30.9                                 | 1.4                 |
| 1987 | 3,758.7 | 2,338.9                 | 678.0                     | 25.7          | 410.5        | 282.0                                              | 22.5                                 | 1.1                 |
| 1988 | 4,399.8 | 2,861.3                 | 807.3                     | 15.6          | 348.2        | 342.0                                              | 24.6                                 | 0.8                 |
| 1989 | 5,714.8 | 3,623.0                 | 911.9                     | 27.8          | 717.6        | 410.8                                              | 22.7                                 | 1.0                 |
| 1990 | 6,706.0 | 4,415.0                 | 1,065.0                   | 46.0          | 644.2        | 514.1                                              | 20.4                                 | 1.3                 |
| 1991 | 7,850.1 | 5,340.2                 | 1,248.7                   | 46.3          | 592.5        | 613.9                                              | 7.7                                  | 0.8                 |
| 1992 | 8,936.0 | 6,150.1                 | 1,440.7                   | 26.0          | 620.7        | 698.5                                              | -                                    | -                   |

1 Include compounding fees and court attendance fees.

Source : Inland Revenue Authority of Singapore

2 Include compounding fees and surcharges on property tax, search and valuation fees, Auctioneers, Appraisers and House Agent Licence fees and court attendance fees.

3 Include duty on Toto sales on account of withdrawal of exemption with effect from 1 Oct 1983.

4 Amount directly credited to the Skills Development Fund. The levy was reduced from 2 per cent to 1 per cent with effect from April 1986. The National Productivity Board took over the administration and enforcements with effect from 1 Sept 1991.

5 Include Payroll Tax which was suspended with effect from April 1985.



# 13.8 TAXPAYERS, ASSESSED INCOME AND GROSS TAX ASSESSED, 1990 AND 1991

|                      | Taxpayers |          |              | Assessed Income |          |              | Gross Tax Assessed |          |              |
|----------------------|-----------|----------|--------------|-----------------|----------|--------------|--------------------|----------|--------------|
|                      | Total     | Resident | Non-resident | Total           | Resident | Non-resident | Total              | Resident | Non-resident |
|                      | Number    |          |              | Million Dollars |          |              |                    |          |              |
|                      | 1990      |          |              |                 |          |              |                    |          |              |
| Total                | 987,470   | 966,716  | 20,754       | 32,641.2        | 30,477.2 | 2,163.9      | 4,824.1            | 4,339.1  | 484.9        |
| Individuals          | 968,172   | 949,051  | 19,121       | 21,391.4        | 21,183.9 | 207.5        | 1,575.9            | 1,525.6  | 50.2         |
| Employees            | 838,024   | 820,412  | 17,612       | 17,738.8        | 17,613.0 | 125.8        | 1,185.1            | 1,158.6  | 26.4         |
| Sole Proprietors     | 91,408    | 90,090   | 1,318        | 2,307.5         | 2,243.2  | 64.3         | 224.5              | 206.2    | 18.3         |
| Partners             | 38,740    | 38,549   | 191          | 1,345.0         | 1,327.7  | 17.3         | 166.3              | 160.8    | 5.6          |
| Companies            | 17,502    | 15,869   | 1,633        | 11,206.1        | 9,249.6  | 1,956.5      | 3,235.1            | 2,800.4  | 434.7        |
| Trusts               | 858       | 858      | -            | 23.4            | 23.4     | -            | 7.5                | 7.5      | -            |
| Clubs & Associations | 938       | 938      | -            | 20.3            | 20.3     | -            | 5.5                | 5.5      | -            |
|                      | 1991      |          |              |                 |          |              |                    |          |              |
| Total                | 577,605   | 553,881  | 23,724       | 26,945.5        | 24,620.0 | 2,325.5      | 4,690.5            | 4,192.7  | 497.9        |
| Individuals          | 559,073   | 537,448  | 21,625       | 14,783.5        | 14,633.9 | 149.6        | 1,317.1            | 1,288.8  | 28.3         |
| Employees            | 464,015   | 443,835  | 20,180       | 11,864.2        | 11,743.2 | 121.0        | 992.9              | 970.9    | 22.0         |
| Sole Proprietors     | 60,333    | 59,024   | 1,309        | 1,671.8         | 1,650.8  | 21.0         | 181.4              | 177.4    | 4.0          |
| Partners             | 34,725    | 34,589   | 136          | 1,247.5         | 1,239.9  | 7.6          | 142.8              | 140.5    | 2.4          |
| Companies            | 17,371    | 15,272   | 2,099        | 12,127.0        | 9,951.1  | 2,175.8      | 3,363.1            | 2,893.6  | 469.5        |
| Trusts               | 649       | 649      | -            | 19.5            | 19.5     | -            | 6.0                | 6.0      | -            |
| Clubs & Associations | 512       | 512      | -            | 15.5            | 15.5     | -            | 4.2                | 4.2      | -            |

Notes : Figures for Year of Assessment 1990 refer to assessment made during the period 1.1.90 to 31.12.91 (24 months).  
Figures for Year of Assessment 1991 refer to assessment made during the period 1.1.91 to 31.12.91 (12 months).

Source : Inland Revenue Authority of Singapore

**13.9 ASSESSED INCOME AND GROSS TAX ASSESSED ON INDIVIDUALS  
BY ASSESSED INCOME GROUP, 1990 AND 1991**

|                            | Taxpayers |          |              | Assessed Income |          |              | Gross Tax Assessed |          |              |
|----------------------------|-----------|----------|--------------|-----------------|----------|--------------|--------------------|----------|--------------|
| Assessed Income Group (\$) | Total     | Resident | Non-resident | Total           | Resident | Non-resident | Total              | Resident | Non-resident |
|                            | Number    |          |              | Million Dollars |          |              |                    |          |              |
|                            | 1990      |          |              |                 |          |              |                    |          |              |
| Total                      | 968,172   | 949,051  | 19,121       | 21,391.4        | 21,183.9 | 207.5        | 1,575.9            | 1,525.6  | 50.2         |
| 6,000 & below              | 95,382    | 79,993   | 15,389       | 420.5           | 383.0    | 37.5         | 9.7                | 3.7      | 6.0          |
| 6,001 - 8,000              | 93,542    | 92,793   | 749          | 664.4           | 659.2    | 5.2          | 9.4                | 8.5      | 1.0          |
| 8,001 - 10,000             | 121,161   | 120,681  | 480          | 1,091.4         | 1,087.1  | 4.3          | 16.1               | 15.3     | 0.9          |
| 10,001 - 15,000            | 230,555   | 229,957  | 598          | 2,833.0         | 2,825.7  | 7.3          | 51.9               | 50.4     | 1.6          |
| 15,001 - 20,000            | 133,257   | 132,784  | 473          | 2,305.7         | 2,297.5  | 8.2          | 58.9               | 57.2     | 1.6          |
| 20,001 - 30,000            | 132,496   | 131,960  | 536          | 3,206.2         | 3,193.0  | 13.1         | 115.7              | 113.0    | 2.6          |
| 30,001 - 50,000            | 90,309    | 89,811   | 498          | 3,441.9         | 3,422.9  | 19.1         | 189.7              | 186.0    | 3.7          |
| 50,001 - 100,000           | 50,545    | 50,235   | 310          | 3,400.6         | 3,380.1  | 20.5         | 316.9              | 312.7    | 4.1          |
| 100,001 - 200,000          | 15,865    | 15,807   | 58           | 2,136.9         | 2,129.3  | 7.6          | 337.9              | 335.9    | 1.9          |
| 200,001 - 1,000,000        | 4,937     | 4,913    | 24           | 1,534.3         | 1,526.1  | 8.2          | 357.3              | 355.0    | 2.2          |
| 1,000,001 and above        | 123       | 117      | 6            | 356.4           | 280.0    | 76.4         | 112.4              | 87.9     | 24.5         |
|                            | 1991      |          |              |                 |          |              |                    |          |              |
| Total                      | 559,073   | 537,448  | 21,625       | 14,783.5        | 14,633.9 | 149.6        | 1,317.1            | 1,288.8  | 28.3         |
| 6,000 & below              | 60,419    | 42,367   | 18,052       | 247.0           | 201.6    | 45.4         | 9.0                | 2.0      | 7.0          |
| 6,001 - 8,000              | 44,897    | 44,057   | 840          | 318.1           | 312.3    | 5.8          | 5.2                | 4.3      | 0.9          |
| 8,001 - 10,000             | 60,361    | 59,883   | 478          | 545.3           | 541.0    | 4.3          | 8.6                | 7.9      | 0.7          |
| 10,001 - 15,000            | 122,474   | 121,866  | 608          | 1,511.3         | 1,503.9  | 7.5          | 29.1               | 27.8     | 1.3          |
| 15,001 - 20,000            | 74,756    | 74,424   | 332          | 1,293.8         | 1,288.0  | 5.8          | 33.4               | 32.4     | 1.0          |
| 20,001 - 30,000            | 74,365    | 73,915   | 450          | 1,800.6         | 1,789.4  | 11.2         | 66.3               | 64.3     | 2.1          |
| 30,001 - 50,000            | 58,305    | 57,852   | 453          | 2,244.9         | 2,227.4  | 17.6         | 127.6              | 124.4    | 3.1          |
| 50,001 - 100,000           | 42,419    | 42,076   | 343          | 2,926.0         | 2,902.6  | 23.4         | 279.2              | 274.9    | 4.3          |
| 100,001 - 200,000          | 15,945    | 15,895   | 50           | 2,155.4         | 2,149.0  | 6.4          | 339.4              | 338.0    | 1.4          |
| 200,001 - 1,000,000        | 5,036     | 5,019    | 17           | 1,567.8         | 1,561.0  | 6.8          | 365.9              | 364.2    | 1.7          |
| 1,000,001 and above        | 96        | 94       | 2            | 173.3           | 157.8    | 15.5         | 53.4               | 48.6     | 4.8          |

Note : See notes to Table 13.8.

Source : Inland Revenue Authority of Singapore



**13.10 ASSESSED INCOME AND GROSS TAX ASSESSED ON COMPANIES BY ASSESSED INCOME GROUP,  
1990 AND 1991**

| Assessed Income Group<br>(\$)                                                                                                                                                                                                                                 | Taxpayers |          |              | Assessed Income |          |              | Gross Tax Assessed |          |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|--------------|-----------------|----------|--------------|--------------------|----------|--------------|
|                                                                                                                                                                                                                                                               | Total     | Resident | Non-resident | Total           | Resident | Non-resident | Total              | Resident | Non-resident |
|                                                                                                                                                                                                                                                               | Number    |          |              | Million Dollars |          |              |                    |          |              |
| <b>Total</b><br><br>10,000 & below<br>10,001 - 20,000<br>20,001 - 30,000<br>30,001 - 60,000<br>60,001 - 100,000<br><br>100,001 - 300,000<br>300,001 - 500,000<br>500,001 - 1,000,000<br>1,000,001 - 3,000,000<br>3,000,001 - 5,000,000<br>5,000,001 and above | 1990      |          |              |                 |          |              |                    |          |              |
|                                                                                                                                                                                                                                                               | 17,502    | 15,869   | 1,633        | 11,206.1        | 9,249.6  | 1,956.5      | 3,235.1            | 2,800.4  | 434.7        |
|                                                                                                                                                                                                                                                               | 5,080     | 4,540    | 540          | 20.1            | 18.0     | 2.2          | 6.4                | 5.7      | 0.7          |
|                                                                                                                                                                                                                                                               | 2,031     | 1,805    | 226          | 29.5            | 26.3     | 3.2          | 9.4                | 8.4      | 1.0          |
|                                                                                                                                                                                                                                                               | 1,178     | 1,067    | 111          | 29.1            | 26.3     | 2.8          | 9.3                | 8.4      | 0.9          |
|                                                                                                                                                                                                                                                               | 2,132     | 1,953    | 179          | 93.1            | 85.2     | 7.9          | 29.6               | 27.1     | 2.5          |
|                                                                                                                                                                                                                                                               | 1,465     | 1,358    | 107          | 114.0           | 105.7    | 8.3          | 36.1               | 33.5     | 2.6          |
|                                                                                                                                                                                                                                                               | 2,522     | 2,332    | 190          | 440.1           | 406.8    | 33.3         | 139.1              | 128.7    | 10.4         |
|                                                                                                                                                                                                                                                               | 852       | 800      | 52           | 331.6           | 310.8    | 20.8         | 104.8              | 98.4     | 6.4          |
|                                                                                                                                                                                                                                                               | 859       | 786      | 73           | 615.1           | 563.0    | 52.1         | 192.9              | 177.3    | 15.6         |
|                                                                                                                                                                                                                                                               | 788       | 725      | 63           | 1,369.1         | 1,253.0  | 116.1        | 425.5              | 392.0    | 33.4         |
|                                                                                                                                                                                                                                                               | 231       | 205      | 26           | 905.8           | 805.8    | 100.0        | 275.9              | 247.6    | 28.3         |
|                                                                                                                                                                                                                                                               | 364       | 298      | 66           | 7,258.5         | 5,648.7  | 1,609.8      | 2,006.1            | 1,673.2  | 332.9        |
|                                                                                                                                                                                                                                                               | 1991      |          |              |                 |          |              |                    |          |              |
|                                                                                                                                                                                                                                                               | 17,371    | 15,272   | 2,099        | 12,127.0        | 9,951.1  | 2,175.8      | 3,363.1            | 2,893.6  | 469.5        |
|                                                                                                                                                                                                                                                               | 4,468     | 3,837    | 631          | 18.2            | 15.5     | 2.7          | 5.6                | 4.8      | 0.8          |
|                                                                                                                                                                                                                                                               | 1,974     | 1,682    | 292          | 28.8            | 24.6     | 4.2          | 8.9                | 7.6      | 1.3          |
|                                                                                                                                                                                                                                                               | 1,175     | 1,020    | 155          | 29.1            | 25.3     | 3.8          | 9.0                | 7.8      | 1.2          |
|                                                                                                                                                                                                                                                               | 2,227     | 1,974    | 253          | 98.0            | 86.9     | 11.1         | 30.2               | 26.8     | 3.4          |
|                                                                                                                                                                                                                                                               | 1,580     | 1,398    | 182          | 124.1           | 109.8    | 14.3         | 38.1               | 33.8     | 4.4          |
| 2,669                                                                                                                                                                                                                                                         | 2,422     | 247      | 470.5        | 427.5           | 43.0     | 144.5        | 131.5              | 12.9     |              |
| 881                                                                                                                                                                                                                                                           | 806       | 75       | 346.8        | 317.6           | 29.3     | 106.2        | 97.5               | 8.7      |              |
| 908                                                                                                                                                                                                                                                           | 821       | 87       | 647.0        | 585.3           | 61.7     | 196.7        | 178.8              | 17.9     |              |
| 841                                                                                                                                                                                                                                                           | 762       | 79       | 1,452.2      | 1,321.7         | 130.5    | 437.7        | 401.1              | 36.7     |              |
| 230                                                                                                                                                                                                                                                           | 202       | 28       | 891.4        | 784.0           | 107.4    | 268.6        | 238.1              | 30.5     |              |
| 418                                                                                                                                                                                                                                                           | 348       | 70       | 8,020.8      | 6,252.9         | 1,767.9  | 2,117.6      | 1,765.9            | 351.7    |              |

Note : See notes to Table 13.8.

Source : Inland Revenue Authority of Singapore





## 14 PRICES

### Consumer Price Index (CPI)

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

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

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

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

### Retail Prices

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

## Other Price Indices

Other price indices consist of the Domestic Supply Price Index and Indices on Singapore manufactured products, imported products, exported products, building materials, selected farm products and property. For imported products, the prices are valued at cif (cost, insurance and freight); for exported products, they refer to fob (free on board) prices, and for locally manufactured products, they are ex-factory prices. The indices are compiled monthly using the base-weighted Laspeyres' formula using 1985 as the base year.

The list of items and weighting patterns for the Singapore manufactured products were derived from data collected in the 1984 Census of Industrial Production, while those for the exported and imported products were derived from exports and imports statistics of 1984. For the building materials price index, the weights were derived from the 1984 Census of Industrial Production and the 1984 external trade statistics. The weights for the Domestic Supply Price Index were made proportionate to the combined value of retained imports and locally manufactured goods sold in the domestic market. Those for the building materials were proportionate to the consumption of materials of the building and construction industries.

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

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

## Produce Prices

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



# 14.1 CONSUMER PRICE INDEX, 1982-1992

| Section                              | All Items | Food  | Clothing | Housing | Transport & Communications | Miscellaneous |
|--------------------------------------|-----------|-------|----------|---------|----------------------------|---------------|
| Period \ Weights <sup>1</sup>        | 10,000    | 3,977 | 570      | 1,717   | 1,450                      | 2,286         |
| September 1987 - August 1988 = 100   |           |       |          |         |                            |               |
| 1982                                 | 95.7      | 99.9  | 102.7    | 98.0    | 95.2                       | 83.8          |
| 1983                                 | 96.8      | 100.2 | 102.8    | 98.3    | 95.9                       | 87.8          |
| 1984                                 | 99.3      | 101.7 | 102.3    | 100.3   | 99.6                       | 92.7          |
| 1985                                 | 99.8      | 100.5 | 99.8     | 102.8   | 102.9                      | 93.9          |
| 1986                                 | 98.4      | 99.0  | 97.4     | 100.9   | 99.0                       | 95.0          |
| 1987                                 | 98.9      | 98.8  | 97.8     | 99.9    | 100.0                      | 97.6          |
| 1988                                 | 100.4     | 100.2 | 101.1    | 100.1   | 100.9                      | 100.3         |
| 1989                                 | 102.8     | 101.7 | 102.7    | 101.6   | 105.5                      | 103.9         |
| 1990                                 | 106.3     | 102.5 | 103.7    | 107.5   | 113.7                      | 108.2         |
| 1991                                 | 110.0     | 104.0 | 105.5    | 109.5   | 121.6                      | 114.4         |
| 1992                                 | 112.5     | 105.4 | 107.8    | 111.7   | 125.2                      | 118.4         |
| Percentage Change Over Previous Year |           |       |          |         |                            |               |
| 1982                                 | 3.9       | 5.0   | 0.4      | 2.2     | 2.4                        | 4.4           |
| 1983                                 | 1.2       | 0.3   | 0.1      | 0.3     | 0.8                        | 4.8           |
| 1984                                 | 2.6       | 1.5   | -0.4     | 2.1     | 3.8                        | 5.6           |
| 1985                                 | 0.5       | -1.2  | -2.5     | 2.5     | 3.3                        | 1.2           |
| 1986                                 | -1.4      | -1.4  | -2.3     | -1.9    | -3.8                       | 1.2           |
| 1987                                 | 0.5       | -0.2  | 0.3      | -1.0    | 1.1                        | 2.8           |
| 1988                                 | 1.5       | 1.4   | 3.4      | 0.3     | 0.9                        | 2.7           |
| 1989                                 | 2.4       | 1.5   | 1.6      | 1.5     | 4.5                        | 3.7           |
| 1990                                 | 3.4       | 0.8   | 0.9      | 5.7     | 7.8                        | 4.1           |
| 1991                                 | 3.4       | 1.5   | 1.7      | 1.8     | 7.0                        | 5.8           |
| 1992                                 | 2.3       | 1.3   | 2.2      | 2.1     | 2.9                        | 3.5           |

<sup>1</sup> The weights refer to the consumption pattern of 1987/88 and are used in the computation of the indices for the years 1989-1992. Indices for the years 1982 and 1983-1988 relate to the consumption pattern of 1977/78 and 1982/83 respectively.

**14.2 PRICE INDICES OF SELECTED CONSUMER ITEMS, 1982-1992**  
(September 1987 - August 1988 = 100)

|                                 | Utility         |                       |               |                               | Private Road Transport |                              |                           | Miscellaneous                              |                                                               |                                                                             |
|---------------------------------|-----------------|-----------------------|---------------|-------------------------------|------------------------|------------------------------|---------------------------|--------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------|
|                                 | Water<br>Tariff | Electricity<br>Tariff | Gas<br>Tariff | Liquefied<br>Petroleum<br>Gas | Petrol,<br>Premium     | Petrol,<br>Inter-<br>mediate | Other<br>Running<br>Costs | Primary<br>School<br>Miscellaneous<br>Fees | Secondary,<br>Pre-U & JC<br>School &<br>Miscellaneous<br>Fees | Consultation<br>Fees for Adult<br>& Children at<br>Outpatient<br>Dispensary |
| Weights Per<br>10,000<br>Period | 94.0            | 212.0                 | 28.0          | 39.0                          | 244.0                  | 32.0                         | 120.0                     | 13.0                                       | 29.0                                                          | 124.0                                                                       |
| 1982                            | 69.8            | 134.8                 | 152.4         | 123.1                         | 117.3                  | 124.3                        | 70.6                      | 80.9                                       | 93.8                                                          | 71.8                                                                        |
| 1983                            | 70.8            | 127.9                 | 139.2         | 121.9                         | 121.1                  | 123.8                        | 72.6                      | 94.4                                       | 97.7                                                          | 80.6                                                                        |
| 1984                            | 82.3            | 125.0                 | 127.4         | 121.6                         | 136.8                  | 139.1                        | 89.8                      | 94.4                                       | 97.7                                                          | 90.5                                                                        |
| 1985                            | 82.3            | 124.1                 | 127.0         | 121.6                         | 151.5                  | 154.5                        | 98.7                      | 94.4                                       | 97.7                                                          | 94.5                                                                        |
| 1986                            | 89.7            | 109.7                 | 112.7         | 107.7                         | 107.7                  | 108.0                        | 100.0                     | 94.4                                       | 97.7                                                          | 94.9                                                                        |
| 1987                            | 100.0           | 99.6                  | 103.6         | 98.9                          | 103.2                  | 103.2                        | 99.9                      | 94.4                                       | 97.7                                                          | 98.3                                                                        |
| 1988                            | 100.0           | 97.3                  | 98.0          | 99.9                          | 97.6                   | 97.4                         | 101.4                     | 104.5                                      | 101.9                                                         | 101.1                                                                       |
| 1989                            | 100.0           | 92.0                  | 100.2         | 98.4                          | 108.3                  | 108.9                        | 124.2                     | 107.9                                      | 106.5                                                         | 104.6                                                                       |
| 1990                            | 100.0           | 97.3                  | 105.6         | 103.2                         | 126.1                  | 126.2                        | 136.2                     | 107.9                                      | 114.5                                                         | 110.9                                                                       |
| 1991                            | 101.3           | 96.2                  | 118.7         | 114.1                         | 131.7                  | 126.6                        | 136.6                     | 134.8                                      | 145.0                                                         | 125.4                                                                       |
| 1992                            | 103.1           | 88.4                  | 118.7         | 112.4                         | 130.7                  | 125.8                        | 136.9                     | 152.4                                      | 158.7                                                         | 128.2                                                                       |

Note : See note to Table 14.1



# 14.3 RETAIL PRICES OF SELECTED FOODSTUFFS, 1982-1992

Dollars

| Year | Rice & Other Cereals |                 |                 |       | Meat & Poultry |                |            |              |      | Milk & Eggs    |               |          |
|------|----------------------|-----------------|-----------------|-------|----------------|----------------|------------|--------------|------|----------------|---------------|----------|
|      | Thai Rice 100%       | Instant Noodles | Rice Vermicelli | Bread | Lean Pork      | Pork Rib Bones | Fresh Beef | Fresh Mutton | Hen  | Condensed Milk | Powdered Milk | Hen Eggs |
|      | 5 kg                 | 425g Pkt        | 400g Pkt        | 400g  | Per kg         |                |            |              |      | 397g Tin       | 2 kg tin      | Per 10   |
| 1982 | 5.50                 | 1.95            | .63             | .63   | 7.86           | 7.89           | 12.21      | 11.00        | 4.80 | 1.15           | 13.48         | 1.67     |
| 1983 | 5.38                 | 1.76            | .68             | .62   | 7.96           | 7.96           | 12.60      | 10.98        | 4.59 | 1.15           | 14.05         | 1.54     |
| 1984 | 5.35                 | 1.78            | .70             | .67   | 7.33           | 7.56           | 12.60      | 10.98        | 4.62 | 1.12           | 14.02         | 1.67     |
| 1985 | 4.60                 | 1.75            | .70             | .67   | 6.68           | 7.14           | 13.12      | 10.97        | 4.51 | 1.01           | 13.81         | 1.57     |
| 1986 | 4.05                 | 1.75            | .70             | .67   | 6.22           | 6.79           | 13.28      | 10.92        | 4.23 | .95            | 13.70         | 1.46     |
| 1987 | 3.93                 | 1.74            | .67             | .68   | 6.24           | 6.88           | 13.32      | 10.80        | 4.11 | .93            | 13.70         | 1.46     |
| 1988 | 4.63                 | 1.77            | .67             | .67   | 6.57           | 7.30           | 12.51      | 10.80        | 4.02 | .97            | 13.98         | 1.57     |
| 1989 | 4.78                 | 1.77            | .65             | .68   | 6.86           | 7.59           | 13.00      | 10.94        | 4.15 | 1.10           | 15.68         | 1.46     |
| 1990 | 4.85                 | 1.77            | .62             | .72   | 6.50           | 7.33           | 12.98      | 10.84        | 4.15 | 1.13           | 16.44         | 1.50     |
| 1991 | 4.88                 | 1.76            | .69             | .72   | 6.02           | 7.00           | 13.04      | 10.44        | 4.15 | 1.10           | 15.96         | 1.48     |
| 1992 | 4.91                 | 1.69            | .73             | .76   | 6.28           | 7.25           | 13.32      | 10.41        | 4.28 | 1.11           | 15.69         | 1.41     |

# 14.3 RETAIL PRICES OF SELECTED FOODSTUFFS, 1982-1992 *(continued)*

Dollars

| Year | Cooking Oils   |          | Fish & Other Sea Products |               |                             |                            |              |                  | Vegetables |                 |               |      |
|------|----------------|----------|---------------------------|---------------|-----------------------------|----------------------------|--------------|------------------|------------|-----------------|---------------|------|
|      | Deodorised Oil | Corn Oil | Kurau (cut)               | White Pomfret | Spanish Mackerel (Tenggiri) | Gold Banded Scad (Kunning) | Fresh Prawns | Fresh Cuttlefish | Cabbage    | Spinach (Bayam) | Small Mustard | Kale |
|      | 2 kg bottle    |          | Per kg                    |               |                             |                            |              |                  | Per kg     |                 |               |      |
| 1982 | 5.03           | 6.24     | 18.79                     | 15.53         | 8.64                        | 4.52                       | 23.02        | 4.57             | 1.48       | 1.40            | 2.20          | 3.67 |
| 1983 | 4.96           | 5.83     | 20.66                     | 13.85         | 8.54                        | 4.65                       | 23.59        | 4.97             | 1.65       | 1.55            | 2.42          | 4.17 |
| 1984 | 5.50           | 6.20     | 20.36                     | 14.40         | 8.61                        | 4.77                       | 23.13        | 4.87             | 1.42       | 1.86            | 2.50          | 4.42 |
| 1985 | 5.49           | 6.05     | 20.93                     | 14.55         | 8.38                        | 5.05                       | 21.77        | 5.20             | 1.55       | 1.77            | 2.28          | 4.29 |
| 1986 | 5.34           | 5.79     | 22.03                     | 13.89         | 8.34                        | 5.62                       | 22.73        | 5.19             | 1.43       | 1.60            | 1.99          | 3.58 |
| 1987 | 5.29           | 5.64     | 22.59                     | 13.33         | 8.05                        | 5.04                       | 23.78        | 5.37             | 1.61       | 1.76            | 2.37          | 4.14 |
| 1988 | 5.31           | 5.64     | 22.72                     | 13.52         | 8.03                        | 5.15                       | 24.89        | 5.59             | 1.66       | 1.74            | 2.33          | 3.96 |
| 1989 | 5.28           | 6.14     | 23.87                     | 13.78         | 8.20                        | 5.27                       | 23.19        | 5.22             | 1.58       | 1.67            | 2.12          | 3.47 |
| 1990 | 5.24           | 5.70     | 25.39                     | 13.98         | 8.36                        | 5.23                       | 21.75        | 5.01             | 1.64       | 1.82            | 2.21          | 3.41 |
| 1991 | 5.18           | 5.79     | 26.57                     | 14.88         | 8.50                        | 5.43                       | 22.47        | 5.38             | 1.71       | 2.10            | 2.42          | 3.47 |
| 1992 | 5.16           | 5.74     | 29.00                     | 15.60         | 8.78                        | 5.67                       | 22.42        | 6.17             | 1.67       | 2.17            | 2.26          | 3.20 |



# 14.3 RETAIL PRICES OF SELECTED FOODSTUFFS, 1982-1992 (continued)

Dollars

| Year | Vegetables |          |              | Fruits |                |        |       |      | Miscellaneous |               |               |              |
|------|------------|----------|--------------|--------|----------------|--------|-------|------|---------------|---------------|---------------|--------------|
|      | Long Beans | Tomatoes | Red Chillies | Papaya | Bananas (Emas) | Orange | Apple | Pear | Sugar         | Coffee Powder | Food Beverage | Tea          |
|      | Per kg     |          |              | Per kg |                | Each   |       |      | Per kg        |               | 400g Tin      | 100 Tea Bags |
| 1982 | 1.58       | 2.20     | 4.96         | .88    | 1.19           | .42    | .35   | .60  | 1.26          | 10.62         | 3.67          | 4.83         |
| 1983 | 1.85       | 2.42     | 7.84         | .96    | 1.22           | .35    | .30   | .56  | 1.25          | 11.65         | 3.71          | 4.70         |
| 1984 | 1.89       | 2.31     | 6.09         | .92    | 1.25           | .39    | .32   | .57  | 1.22          | 11.65         | 3.55          | 4.74         |
| 1985 | 1.94       | 2.47     | 5.33         | .99    | 1.26           | .38    | .29   | .55  | 1.07          | 11.68         | 3.60          | 4.87         |
| 1986 | 1.77       | 2.23     | 4.48         | 1.02   | 1.24           | .39    | .31   | .54  | .96           | 12.47         | 3.52          | 4.95         |
| 1987 | 1.89       | 2.32     | 4.97         | .90    | 1.23           | .38    | .30   | .55  | .96           | 11.70         | 3.38          | 5.12         |
| 1988 | 1.89       | 2.33     | 4.64         | .86    | 1.23           | .38    | .33   | .59  | .84           | 11.50         | 3.48          | 5.00         |
| 1989 | 1.78       | 2.13     | 3.90         | 1.02   | 1.26           | .38    | .33   | .59  | 1.00          | 10.98         | 3.64          | 4.83         |
| 1990 | 2.01       | 2.21     | 4.71         | 1.00   | 1.27           | .38    | .32   | .57  | 1.12          | 10.70         | 3.62          | 4.82         |
| 1991 | 2.18       | 2.26     | 4.67         | .92    | 1.26           | .43    | .34   | .69  | .98           | 10.58         | 3.48          | 4.81         |
| 1992 | 2.39       | 2.35     | 4.42         | 1.04   | 1.25           | .38    | .34   | .66  | .95           | 10.65         | 3.32          | 4.86         |

**14.4 DOMESTIC SUPPLY PRICE INDEX, 1986-1992**  
(1985 = 100)

| Item                               | Weight | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  |
|------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| <b>All Items</b>                   | 10,000 | 84.9  | 91.3  | 89.6  | 91.9  | 93.5  | 88.2  | 84.6  |
| <b>Food</b>                        | 476    | 99.9  | 100.9 | 105.6 | 108.7 | 105.3 | 104.1 | 103.9 |
| Live animals                       | 8      | 102.2 | 105.9 | 115.5 | 119.2 | 108.3 | 98.3  | 113.6 |
| Meat & meat preparations           | 48     | 102.2 | 102.4 | 101.5 | 110.2 | 108.4 | 103.4 | 100.2 |
| Dairy produce & eggs               | 40     | 100.6 | 96.9  | 108.4 | 124.7 | 127.1 | 118.3 | 117.9 |
| Fish & fish preparations           | 54     | 107.2 | 112.3 | 119.1 | 115.7 | 116.8 | 121.2 | 127.1 |
| Cereals & cereal preparations      | 76     | 93.7  | 94.1  | 105.4 | 112.0 | 104.2 | 100.9 | 101.3 |
| Vegetables & fruits                | 101    | 107.8 | 110.1 | 112.3 | 107.7 | 109.4 | 116.1 | 115.7 |
| Sugar & sugar preparations         | 35     | 91.0  | 96.2  | 94.3  | 114.0 | 106.7 | 79.1  | 73.0  |
| Coffee etc & spices                | 45     | 95.0  | 89.3  | 87.6  | 84.2  | 67.6  | 78.5  | 75.1  |
| Animal feeding stuff               | 40     | 98.3  | 102.1 | 115.1 | 114.9 | 109.5 | 107.5 | 107.3 |
| Miscellaneous food preparations    | 29     | 89.6  | 89.3  | 85.7  | 84.9  | 87.2  | 86.2  | 86.7  |
| <b>Beverages &amp; Tobacco</b>     | 121    | 101.8 | 106.7 | 107.9 | 114.5 | 117.0 | 125.4 | 129.8 |
| Beverages                          | 70     | 101.9 | 104.8 | 107.2 | 114.3 | 115.1 | 117.4 | 120.6 |
| Tobacco & manufactures             | 51     | 101.5 | 109.4 | 108.8 | 114.7 | 119.6 | 136.5 | 142.4 |
| <b>Crude Materials</b>             | 184    | 95.6  | 99.1  | 106.4 | 101.1 | 100.1 | 101.9 | 94.0  |
| Oil seeds, nuts, & kernels         | 10     | 81.3  | 81.6  | 97.7  | 99.8  | 86.7  | 88.2  | 86.2  |
| Crude rubber incl synthetic        | 51     | 104.6 | 122.5 | 139.7 | 109.5 | 92.4  | 86.4  | 85.2  |
| Cork & wood                        | 30     | 103.4 | 105.8 | 110.8 | 112.6 | 121.2 | 123.4 | 124.7 |
| Paper making material              | 1      | 95.8  | 109.9 | 122.9 | 139.5 | 132.0 | 107.7 | 104.9 |
| Textile fibres & waste             | 8      | 78.3  | 79.7  | 81.5  | 83.4  | 68.6  | 65.6  | 59.2  |
| Crude fertilizers & minerals       | 59     | 89.9  | 84.0  | 82.2  | 81.2  | 100.6 | 111.3 | 86.1  |
| Metallic ores & scrap              | 7      | 97.7  | 102.4 | 110.6 | 105.6 | 103.5 | 97.7  | 93.0  |
| Crude materials nec                | 18     | 97.3  | 104.4 | 121.0 | 127.4 | 103.4 | 103.8 | 112.9 |
| <b>Mineral Fuels</b>               | 3,501  | 54.3  | 65.9  | 51.8  | 58.8  | 68.6  | 55.8  | 49.7  |
| Petroleum & products               | 3,485  | 54.2  | 65.9  | 51.8  | 58.8  | 68.6  | 55.8  | 49.7  |
| Gas                                | 16     | 77.9  | 61.4  | 54.3  | 54.2  | 61.4  | 54.9  | 50.8  |
| <b>Animal &amp; Vegetable Oils</b> | 209    | 58.7  | 67.4  | 81.6  | 67.8  | 56.5  | 63.4  | 67.5  |
| Vegetable oil unprocessed          | 48     | 62.5  | 69.5  | 82.9  | 79.0  | 66.4  | 68.6  | 71.6  |
| Other animal & vegetable oils      | 161    | 57.6  | 66.8  | 81.2  | 64.4  | 53.6  | 61.8  | 66.3  |



**14.4 DOMESTIC SUPPLY PRICE INDEX, 1986-1992** (continued)  
(1985 = 100)

| Item                                       | Weight | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  |
|--------------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| <b>Chemicals &amp; Chemical Products</b>   | 438    | 99.8  | 106.3 | 118.8 | 112.8 | 106.8 | 105.5 | 98.3  |
| Organic chemicals                          | 88     | 97.6  | 103.9 | 128.9 | 117.7 | 107.5 | 109.8 | 89.7  |
| Inorganic chemicals                        | 35     | 101.1 | 116.8 | 120.0 | 111.3 | 106.6 | 91.5  | 86.2  |
| Dyes & colours                             | 56     | 96.9  | 102.9 | 109.2 | 110.1 | 107.9 | 107.5 | 105.7 |
| Medicinal products                         | 27     | 100.6 | 102.2 | 96.6  | 85.6  | 84.4  | 82.2  | 81.6  |
| Perfume, toilet preparations               | 55     | 104.0 | 104.9 | 108.8 | 116.2 | 116.8 | 117.1 | 118.3 |
| Fertilizers manufactured                   | 3      | 59.7  | 75.1  | 98.9  | 89.4  | 87.3  | 98.0  | 82.5  |
| Explosives                                 | 1      | 95.2  | 95.2  | 95.6  | 97.9  | 97.9  | 97.9  | 97.9  |
| Plastic materials                          | 121    | 101.7 | 113.5 | 136.0 | 121.4 | 110.5 | 108.3 | 99.9  |
| Chemical products nec                      | 52     | 98.8  | 96.2  | 95.8  | 100.7 | 98.6  | 99.4  | 97.7  |
| <b>Manufactured Goods</b>                  | 1,498  | 100.1 | 105.0 | 113.7 | 120.2 | 120.0 | 119.0 | 114.7 |
| Leather products nec                       | 6      | 99.0  | 112.2 | 136.2 | 146.4 | 153.1 | 163.9 | 161.8 |
| Rubber manufactures nec                    | 34     | 106.8 | 110.1 | 115.3 | 116.6 | 115.8 | 119.3 | 118.7 |
| Wood & cork manufactures                   | 62     | 101.3 | 109.9 | 126.8 | 123.7 | 116.9 | 109.4 | 110.2 |
| Paper manufactures                         | 134    | 105.7 | 115.3 | 126.0 | 129.9 | 122.9 | 122.1 | 115.3 |
| Textile manufactures                       | 256    | 96.5  | 102.5 | 103.7 | 102.9 | 102.3 | 101.6 | 99.4  |
| Non-metal mineral manufactures             | 327    | 95.6  | 94.8  | 95.5  | 108.2 | 118.6 | 123.4 | 120.7 |
| Iron & steel                               | 262    | 101.3 | 109.8 | 126.7 | 133.5 | 128.2 | 123.5 | 112.6 |
| Non-ferrous metals                         | 92     | 89.4  | 95.9  | 126.8 | 135.5 | 113.5 | 102.2 | 93.3  |
| Metal manufactures                         | 325    | 106.3 | 110.2 | 117.5 | 125.8 | 129.7 | 129.4 | 127.7 |
| <b>Machinery &amp; Transport Equipment</b> | 2,750  | 104.8 | 107.1 | 108.9 | 106.9 | 103.2 | 100.6 | 99.6  |
| Power generating machinery                 | 144    | 104.3 | 106.0 | 108.1 | 107.0 | 104.1 | 101.4 | 99.1  |
| Industrial machinery                       | 144    | 102.3 | 107.9 | 115.5 | 97.9  | 95.0  | 96.3  | 103.0 |
| Metalworking machinery                     | 54     | 98.3  | 96.7  | 101.9 | 106.4 | 101.8 | 99.8  | 96.1  |
| General industrial machinery               | 372    | 108.9 | 117.9 | 126.4 | 127.9 | 136.2 | 141.5 | 142.9 |
| Office & data machines                     | 380    | 92.2  | 91.5  | 90.1  | 90.2  | 84.9  | 81.3  | 77.2  |
| Telecommunication apparatus                | 344    | 109.6 | 109.7 | 109.5 | 108.7 | 105.2 | 103.3 | 100.6 |
| Electrical machinery nec                   | 1,180  | 104.3 | 105.0 | 104.4 | 102.5 | 96.3  | 90.5  | 89.0  |
| Road vehicles                              | 132    | 125.6 | 136.0 | 146.0 | 141.1 | 128.5 | 128.9 | 132.9 |
| <b>Miscellaneous Manufactures</b>          | 823    | 106.3 | 110.3 | 113.3 | 111.3 | 109.2 | 107.9 | 105.4 |
| Prefab building, sanitary, lighting        | 18     | 103.5 | 104.7 | 102.7 | 98.5  | 100.6 | 99.9  | 97.6  |
| Furniture, bedding, mattresses             | 70     | 104.9 | 107.6 | 111.7 | 111.1 | 110.6 | 112.0 | 112.1 |
| Travel goods                               | 22     | 101.7 | 105.7 | 110.6 | 112.1 | 112.9 | 110.8 | 110.9 |
| Clothing                                   | 114    | 101.5 | 104.6 | 107.8 | 112.6 | 113.9 | 110.1 | 107.6 |
| Footwear                                   | 30     | 112.1 | 114.9 | 114.4 | 113.4 | 116.0 | 114.7 | 112.4 |
| Scientific instruments                     | 73     | 100.0 | 99.9  | 100.0 | 98.3  | 95.6  | 93.2  | 91.5  |
| Photographic apparatus                     | 114    | 111.0 | 118.7 | 125.7 | 121.3 | 120.9 | 121.9 | 117.7 |
| Miscellaneous mfd articles nec             | 382    | 107.8 | 112.1 | 114.7 | 110.8 | 106.3 | 104.8 | 101.9 |

**14.5 SINGAPORE MANUFACTURED PRODUCTS PRICE INDEX, 1986-1992**  
(1985 = 100)

| Item                               | Weight | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  |
|------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| <b>All Items</b>                   | 10,000 | 85.2  | 87.1  | 85.5  | 87.4  | 90.8  | 86.3  | 82.5  |
| <b>Food</b>                        | 282    | 98.4  | 97.2  | 94.3  | 96.7  | 96.4  | 92.4  | 91.6  |
| Meat & meat preparations           | 15     | 104.0 | 103.7 | 103.5 | 106.2 | 106.3 | 99.8  | 100.0 |
| Dairy produce & eggs               | 24     | 96.3  | 94.6  | 96.7  | 108.4 | 112.6 | 106.0 | 105.5 |
| Fish & fish preparations           | 8      | 98.8  | 99.7  | 101.5 | 101.8 | 101.8 | 101.8 | 103.1 |
| Cereals & cereal preparations      | 64     | 99.7  | 98.3  | 99.6  | 102.5 | 105.3 | 104.5 | 106.2 |
| Vegetables & fruits                | 14     | 100.9 | 101.2 | 101.1 | 101.7 | 102.1 | 103.1 | 102.9 |
| Sugar & sugar preparations         | 30     | 83.4  | 83.5  | 69.8  | 84.9  | 83.2  | 66.9  | 59.3  |
| Coffee etc & spices                | 50     | 108.5 | 108.5 | 93.2  | 81.0  | 70.3  | 63.6  | 61.4  |
| Animal feeding stuff               | 38     | 98.1  | 94.9  | 100.0 | 107.8 | 107.5 | 105.5 | 105.5 |
| Miscellaneous food preparations    | 39     | 93.7  | 90.4  | 91.5  | 91.7  | 97.7  | 98.9  | 99.3  |
| <b>Beverages &amp; Tobacco</b>     | 125    | 99.7  | 104.0 | 106.2 | 116.8 | 119.3 | 128.3 | 135.4 |
| Beverages                          | 78     | 99.6  | 99.7  | 101.7 | 111.9 | 110.0 | 111.7 | 116.1 |
| Tobacco & manufactures             | 47     | 99.7  | 111.2 | 113.5 | 125.0 | 134.6 | 155.7 | 167.6 |
| <b>Crude Materials</b>             | 207    | 98.7  | 107.3 | 116.5 | 101.0 | 99.4  | 99.6  | 89.3  |
| Crude rubber incl synthetic        | 106    | 105.1 | 123.4 | 139.9 | 109.9 | 92.7  | 86.6  | 85.5  |
| Cork & wood                        | 16     | 99.3  | 99.7  | 109.4 | 109.4 | 112.0 | 110.0 | 110.0 |
| Crude fertilizers & minerals       | 63     | 90.1  | 82.8  | 81.0  | 80.5  | 104.2 | 117.1 | 85.5  |
| Metallic ores & scrap              | 14     | 85.8  | 87.6  | 86.9  | 87.2  | 80.7  | 76.7  | 74.2  |
| Crude materials nec                | 8      | 104.9 | 137.6 | 150.9 | 151.1 | 156.8 | 154.0 | 153.8 |
| <b>Mineral Fuels</b>               | 3,104  | 59.0  | 63.9  | 53.7  | 59.8  | 71.3  | 63.6  | 54.4  |
| Petroleum & products               | 3,063  | 58.8  | 64.0  | 53.6  | 59.8  | 71.3  | 63.5  | 54.2  |
| Gas                                | 41     | 68.1  | 62.5  | 60.0  | 55.7  | 68.0  | 72.4  | 69.0  |
| <b>Animal &amp; Vegetable Oils</b> | 167    | 68.8  | 73.5  | 86.5  | 84.1  | 73.8  | 75.2  | 78.4  |
| Vegetable oil unprocessed          | 62     | 66.2  | 73.9  | 88.0  | 89.0  | 77.0  | 76.6  | 80.4  |
| Other animal & vegetable oils      | 105    | 70.3  | 73.3  | 85.6  | 81.3  | 72.0  | 74.4  | 77.2  |



**14.5 SINGAPORE MANUFACTURED PRODUCTS PRICE INDEX, 1986-1992** *(continued)*  
(1985 = 100)

| Item                                       | Weight | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  |
|--------------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| <b>Chemicals &amp; Chemical Products</b>   | 580    | 96.4  | 106.8 | 124.8 | 112.8 | 104.2 | 102.4 | 91.7  |
| Organic chemicals                          | 176    | 87.4  | 99.7  | 121.4 | 115.0 | 103.9 | 103.0 | 88.4  |
| Inorganic chemicals                        | 32     | 99.2  | 104.0 | 105.0 | 97.2  | 94.7  | 92.9  | 89.9  |
| Dyes & colours                             | 57     | 99.6  | 105.1 | 110.4 | 114.8 | 115.0 | 116.3 | 113.5 |
| Medicinal products                         | 59     | 105.0 | 104.1 | 100.5 | 98.3  | 89.9  | 87.9  | 85.1  |
| Perfume, toilet preparations               | 35     | 97.5  | 98.6  | 99.5  | 103.5 | 102.6 | 101.8 | 102.4 |
| Plastics in primary forms                  | 149    | 101.2 | 124.5 | 167.5 | 128.4 | 112.4 | 106.4 | 87.3  |
| Chemical products nec                      | 72     | 97.1  | 96.2  | 97.4  | 96.8  | 96.6  | 97.9  | 92.3  |
| <b>Manufactured Goods</b>                  | 1,082  | 96.4  | 96.1  | 101.6 | 111.6 | 116.8 | 119.5 | 115.6 |
| Leather products nec                       | 3      | 79.9  | 79.9  | 108.6 | 113.0 | 113.0 | 113.0 | 113.0 |
| Rubber manufactures nec                    | 16     | 79.7  | 78.8  | 82.6  | 85.7  | 84.8  | 83.7  | 82.4  |
| Wood & cork manufactures                   | 77     | 100.1 | 109.3 | 119.4 | 116.2 | 114.3 | 108.5 | 104.6 |
| Paper manufactures                         | 114    | 99.2  | 101.6 | 107.0 | 108.8 | 112.0 | 115.1 | 115.4 |
| Textile manufactures                       | 54     | 101.2 | 110.1 | 111.1 | 110.9 | 104.4 | 101.9 | 97.1  |
| Non-metal mineral manufactures             | 291    | 92.8  | 87.4  | 86.5  | 102.2 | 120.1 | 131.3 | 126.0 |
| Iron & steel                               | 139    | 97.8  | 98.1  | 107.0 | 117.1 | 117.3 | 114.1 | 104.9 |
| Non-ferrous metals                         | 42     | 74.7  | 79.4  | 91.4  | 102.0 | 83.5  | 77.8  | 74.2  |
| Metal manufactures                         | 346    | 100.0 | 98.7  | 106.9 | 119.7 | 123.5 | 125.2 | 123.3 |
| <b>Machinery &amp; Transport Equipment</b> | 3,479  | 96.8  | 94.9  | 93.2  | 92.6  | 92.8  | 86.7  | 88.3  |
| Power generating machinery                 | 64     | 106.0 | 103.4 | 99.6  | 98.9  | 97.8  | 90.0  | 86.6  |
| Industrial machinery                       | 119    | 92.5  | 93.5  | 96.3  | 87.5  | 89.6  | 90.3  | 106.1 |
| Metalworking machinery                     | 21     | 98.7  | 98.6  | 101.8 | 107.7 | 110.1 | 109.7 | 107.6 |
| General industrial machinery               | 254    | 100.7 | 101.7 | 101.9 | 104.7 | 104.4 | 105.4 | 104.3 |
| Office & data machines                     | 881    | 88.2  | 83.0  | 81.6  | 78.3  | 71.9  | 63.3  | 58.1  |
| Telecommunication apparatus                | 743    | 97.2  | 94.9  | 92.0  | 90.2  | 88.8  | 86.8  | 84.9  |
| Electrical machinery nec                   | 1,374  | 101.3 | 101.1 | 99.1  | 100.8 | 106.0 | 97.5  | 104.7 |
| Road vehicles                              | 23     | 93.1  | 87.9  | 86.2  | 88.3  | 85.5  | 85.7  | 89.5  |
| <b>Miscellaneous Manufactures</b>          | 974    | 102.6 | 104.2 | 106.1 | 106.1 | 105.1 | 102.1 | 99.3  |
| Prefab building, sanitary, lighting        | 6      | 98.1  | 93.8  | 93.9  | 97.7  | 118.8 | 118.5 | 118.5 |
| Furniture, bedding, mattresses             | 106    | 98.3  | 98.9  | 100.7 | 100.7 | 99.4  | 102.7 | 102.1 |
| Travel goods                               | 7      | 99.0  | 99.3  | 99.3  | 99.3  | 99.3  | 99.7  | 100.5 |
| Clothing                                   | 272    | 101.9 | 104.3 | 106.0 | 113.8 | 117.0 | 111.6 | 109.3 |
| Footwear                                   | 11     | 100.0 | 102.4 | 106.2 | 107.5 | 113.0 | 113.8 | 113.8 |
| Scientific instruments                     | 42     | 95.2  | 83.4  | 78.4  | 73.3  | 70.6  | 65.4  | 66.1  |
| Photographic apparatus                     | 47     | 98.5  | 99.3  | 98.3  | 88.0  | 87.8  | 85.7  | 86.2  |
| Miscellaneous mfd articles nec             | 483    | 105.1 | 107.8 | 110.8 | 107.7 | 104.0 | 100.9 | 96.7  |

**14.6 IMPORT PRICE INDEX, 1986-1992**  
(1985 = 100)

| Item                               | Weight | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  |
|------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| <b>All Items</b>                   | 10,000 | 88.3  | 95.6  | 96.0  | 95.9  | 95.0  | 89.9  | 87.0  |
| <b>Food</b>                        | 682    | 100.0 | 99.9  | 103.8 | 103.0 | 96.3  | 94.7  | 93.3  |
| Live animals                       | 8      | 102.2 | 105.9 | 115.4 | 118.8 | 107.6 | 97.2  | 113.7 |
| Meat & meat preparations           | 47     | 100.9 | 100.8 | 100.5 | 110.7 | 108.1 | 103.9 | 100.0 |
| Dairy produce & eggs               | 36     | 102.1 | 97.9  | 112.4 | 130.8 | 132.1 | 123.1 | 122.4 |
| Fish & fish preparations           | 75     | 105.2 | 113.7 | 122.2 | 115.7 | 115.6 | 119.8 | 125.3 |
| Cereals & cereal preparations      | 153    | 90.6  | 92.8  | 107.6 | 116.3 | 103.7 | 98.8  | 98.4  |
| Vegetables & fruits                | 144    | 105.6 | 107.1 | 109.2 | 104.7 | 105.8 | 112.5 | 110.8 |
| Sugar & sugar preparations         | 21     | 97.7  | 107.5 | 116.2 | 139.9 | 127.6 | 90.0  | 85.3  |
| Coffee etc & spices                | 146    | 103.6 | 92.1  | 80.3  | 65.6  | 51.6  | 50.6  | 44.9  |
| Animal feeding stuff               | 33     | 97.6  | 107.8 | 127.6 | 120.5 | 110.4 | 107.8 | 107.5 |
| Miscellaneous food preparations    | 19     | 84.0  | 83.2  | 74.6  | 71.3  | 73.0  | 69.0  | 69.3  |
| <b>Beverages &amp; Tobacco</b>     | 72     | 104.3 | 109.3 | 108.9 | 110.1 | 112.0 | 119.2 | 119.5 |
| Beverages                          | 37     | 105.0 | 111.2 | 114.1 | 117.1 | 121.1 | 123.9 | 125.3 |
| Tobacco & manufactures             | 35     | 103.5 | 107.2 | 103.4 | 102.7 | 102.3 | 114.2 | 113.3 |
| <b>Crude Materials</b>             | 507    | 99.2  | 109.3 | 124.4 | 105.2 | 93.0  | 90.6  | 90.3  |
| Hides, skins undressed             | 3      | 89.0  | 94.5  | 111.0 | 103.9 | 81.7  | 75.5  | 74.2  |
| Oil seeds, nuts, kernels           | 18     | 76.8  | 81.4  | 98.2  | 98.5  | 83.5  | 85.9  | 85.5  |
| Crude rubber incl synthetic        | 305    | 103.9 | 120.1 | 140.9 | 107.4 | 90.9  | 86.5  | 85.7  |
| Cork & wood                        | 61     | 101.0 | 100.3 | 103.9 | 107.1 | 116.7 | 119.1 | 119.3 |
| Paper making material              | 2      | 95.8  | 109.9 | 122.9 | 139.5 | 132.0 | 107.7 | 104.9 |
| Textile fibres & waste             | 16     | 78.3  | 77.7  | 78.1  | 78.6  | 66.1  | 62.7  | 57.6  |
| Crude fertilizers & minerals       | 31     | 92.8  | 89.3  | 84.5  | 81.5  | 88.8  | 92.7  | 82.3  |
| Metallic ores & scrap              | 30     | 86.8  | 89.9  | 94.2  | 96.0  | 94.6  | 92.3  | 90.9  |
| Crude materials nec                | 41     | 95.1  | 97.3  | 115.2 | 122.2 | 88.5  | 89.4  | 102.3 |
| <b>Mineral Fuels</b>               | 2,923  | 53.6  | 66.5  | 51.8  | 59.0  | 68.5  | 54.8  | 49.2  |
| Petroleum & products               | 2,915  | 53.5  | 66.5  | 51.8  | 59.0  | 68.5  | 54.9  | 49.3  |
| Gas                                | 8      | 88.0  | 60.3  | 48.5  | 52.7  | 54.7  | 37.1  | 32.4  |
| <b>Animal &amp; Vegetable Oils</b> | 234    | 56.2  | 65.4  | 79.7  | 64.9  | 53.3  | 60.9  | 66.4  |
| Vegetable oil unprocessed          | 77     | 55.7  | 63.4  | 76.4  | 68.4  | 56.0  | 62.3  | 69.5  |
| Other animal & vegetable oils      | 157    | 56.4  | 66.4  | 81.3  | 63.2  | 51.9  | 60.3  | 64.9  |



**14.6 IMPORT PRICE INDEX, 1986-1992** (continued)  
(1985 = 100)

| Item                                       | Weight | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  |
|--------------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| <b>Chemicals &amp; Chemical Products</b>   | 491    | 105.2 | 106.1 | 117.2 | 110.1 | 104.5 | 103.8 | 97.2  |
| Organic chemicals                          | 98     | 105.0 | 105.8 | 126.6 | 110.5 | 102.3 | 107.3 | 89.2  |
| Inorganic chemicals                        | 34     | 100.0 | 117.2 | 122.3 | 116.8 | 108.8 | 90.4  | 84.8  |
| Dyes & colours                             | 36     | 100.1 | 107.4 | 112.7 | 103.1 | 100.7 | 97.4  | 96.7  |
| Medicinal products                         | 35     | 102.6 | 104.6 | 99.1  | 87.7  | 86.6  | 84.9  | 84.4  |
| Perfume, toilet preparations               | 56     | 106.9 | 109.1 | 113.1 | 120.5 | 121.4 | 121.9 | 123.0 |
| Fertilizers manufactured                   | 19     | 70.6  | 76.0  | 88.2  | 84.4  | 82.6  | 87.6  | 78.9  |
| Plastics in primary forms                  | 5      | 95.5  | 96.3  | 106.1 | 106.1 | 106.1 | 106.1 | 106.1 |
| Plastics in non-primary forms              | 129    | 102.8 | 114.2 | 135.0 | 120.8 | 110.5 | 109.4 | 101.9 |
| Chemical products nec                      | 79     | 97.9  | 94.4  | 94.6  | 101.3 | 98.3  | 98.5  | 96.4  |
| <b>Manufactured Goods</b>                  | 1,366  | 99.2  | 107.5 | 118.5 | 121.6 | 116.4 | 113.4 | 108.8 |
| Leather products nec                       | 6      | 102.8 | 118.6 | 141.5 | 151.7 | 159.4 | 171.9 | 169.4 |
| Rubber manufactures nec                    | 44     | 108.6 | 114.3 | 121.2 | 120.1 | 118.2 | 122.8 | 120.8 |
| Wood & cork manufactures                   | 69     | 102.2 | 111.8 | 134.6 | 130.9 | 120.8 | 111.0 | 114.6 |
| Paper manufactures                         | 102    | 109.9 | 123.9 | 137.7 | 142.4 | 129.4 | 126.5 | 115.6 |
| Textile manufactures                       | 326    | 95.5  | 100.8 | 102.2 | 101.8 | 101.3 | 100.6 | 98.8  |
| Non-metal mineral manufactures             | 205    | 98.3  | 101.6 | 103.7 | 112.6 | 116.2 | 115.4 | 114.8 |
| Iron & steel                               | 266    | 101.7 | 116.4 | 138.4 | 140.5 | 130.8 | 127.9 | 115.1 |
| Non-ferrous metals                         | 164    | 78.9  | 83.6  | 106.5 | 114.5 | 92.3  | 82.2  | 76.2  |
| Metal manufactures                         | 184    | 111.8 | 121.9 | 127.3 | 129.6 | 133.0 | 130.1 | 128.7 |
| <b>Machinery &amp; Transport Equipment</b> | 3,065  | 107.6 | 111.7 | 115.2 | 113.0 | 108.9 | 107.2 | 106.2 |
| Power generating machinery                 | 193    | 104.3 | 106.8 | 110.9 | 109.0 | 106.6 | 106.8 | 105.5 |
| Industrial machinery                       | 268    | 106.8 | 121.3 | 135.3 | 122.0 | 119.8 | 123.8 | 131.4 |
| Metalworking machinery                     | 65     | 98.1  | 96.4  | 101.7 | 105.5 | 99.8  | 97.5  | 93.2  |
| General industrial machinery               | 436    | 109.2 | 119.7 | 131.0 | 132.4 | 140.1 | 145.1 | 145.8 |
| Office & data machines                     | 327    | 98.1  | 100.5 | 99.1  | 100.0 | 94.2  | 91.2  | 87.3  |
| Telecommunication apparatus                | 407    | 113.5 | 113.9 | 114.2 | 114.8 | 110.9 | 108.9 | 106.0 |
| Electrical machinery nec                   | 1,173  | 105.2 | 106.0 | 105.1 | 102.7 | 95.5  | 89.8  | 87.3  |
| Road vehicles                              | 196    | 128.5 | 139.7 | 150.0 | 143.7 | 130.4 | 130.1 | 134.1 |
| <b>Miscellaneous Manufactures</b>          | 660    | 107.4 | 111.8 | 114.8 | 111.9 | 109.0 | 108.4 | 106.3 |
| Prefab building, sanitary, lighting        | 19     | 104.1 | 106.1 | 104.9 | 100.0 | 98.1  | 97.8  | 94.6  |
| Furniture, bedding, mattresses             | 31     | 115.1 | 120.5 | 128.6 | 127.8 | 127.7 | 127.2 | 128.5 |
| Travel goods                               | 21     | 101.2 | 105.7 | 111.9 | 114.9 | 115.7 | 112.5 | 112.3 |
| Clothing                                   | 106    | 102.2 | 106.3 | 108.5 | 110.0 | 109.7 | 107.5 | 105.0 |
| Footwear                                   | 28     | 114.4 | 116.9 | 115.1 | 112.7 | 114.3 | 112.1 | 108.9 |
| Scientific instruments                     | 107    | 100.7 | 101.3 | 101.7 | 99.3  | 96.1  | 94.1  | 92.4  |
| Photographic apparatus                     | 132    | 111.9 | 120.3 | 127.7 | 123.1 | 122.6 | 123.6 | 119.4 |
| Miscellaneous mfd articles nec             | 216    | 109.5 | 113.7 | 115.7 | 110.5 | 103.7 | 103.9 | 102.6 |

**14.7 EXPORT PRICE INDEX, 1986-1992**  
(1985 = 100)

| Item                               | Weight        | 1986         | 1987         | 1988         | 1989         | 1990         | 1991         | 1992         |
|------------------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>All Items</b>                   | <b>10,000</b> | <b>85.9</b>  | <b>88.9</b>  | <b>87.6</b>  | <b>87.2</b>  | <b>87.6</b>  | <b>83.3</b>  | <b>78.1</b>  |
| <b>Food</b>                        | <b>555</b>    | <b>100.9</b> | <b>99.9</b>  | <b>99.8</b>  | <b>94.4</b>  | <b>86.2</b>  | <b>84.3</b>  | <b>80.4</b>  |
| Live animals                       | 3             | 99.0         | 100.0        | 95.7         | 94.2         | 94.2         | 94.2         | 94.2         |
| Meat & meat preparations           | 13            | 103.9        | 108.9        | 102.6        | 120.9        | 120.7        | 119.0        | 112.9        |
| Dairy produce & eggs               | 16            | 97.3         | 96.6         | 98.1         | 108.4        | 104.9        | 100.5        | 96.0         |
| Fish & fish preparations           | 63            | 98.7         | 109.8        | 106.4        | 99.0         | 94.7         | 90.2         | 87.7         |
| Cereals & cereal preparations      | 157           | 96.4         | 101.9        | 111.0        | 115.8        | 108.7        | 107.3        | 103.5        |
| Vegetables & fruits                | 74            | 93.0         | 89.1         | 90.8         | 84.5         | 86.1         | 92.1         | 89.1         |
| Sugar & sugar preparations         | 5             | 97.1         | 99.1         | 113.3        | 129.4        | 130.4        | 112.1        | 101.6        |
| Coffee etc & spices                | 180           | 109.8        | 99.0         | 88.3         | 70.6         | 53.2         | 49.3         | 44.8         |
| Animal feeding stuff               | 24            | 105.7        | 109.3        | 123.9        | 123.3        | 116.4        | 108.8        | 103.3        |
| Miscellaneous food preparations    | 20            | 87.1         | 87.2         | 96.3         | 91.5         | 94.7         | 97.0         | 96.7         |
| <b>Beverages &amp; Tobacco</b>     | <b>46</b>     | <b>102.0</b> | <b>103.8</b> | <b>106.2</b> | <b>109.3</b> | <b>110.4</b> | <b>110.9</b> | <b>111.2</b> |
| Beverages                          | 25            | 101.8        | 104.4        | 106.2        | 107.7        | 108.9        | 106.6        | 106.6        |
| Tobacco & manufactures             | 21            | 102.1        | 103.1        | 106.3        | 111.3        | 112.1        | 116.1        | 116.7        |
| <b>Crude Materials</b>             | <b>648</b>    | <b>99.5</b>  | <b>113.4</b> | <b>132.8</b> | <b>111.2</b> | <b>97.8</b>  | <b>93.0</b>  | <b>90.9</b>  |
| Hides, skins undressed             | 10            | 101.2        | 131.3        | 173.0        | 150.4        | 140.5        | 118.9        | 115.5        |
| Oil seeds, nuts, kernels           | 12            | 80.8         | 87.3         | 94.7         | 98.6         | 84.3         | 77.2         | 82.0         |
| Crude rubber incl synthetic        | 406           | 104.8        | 120.2        | 146.6        | 109.8        | 91.7         | 86.7         | 85.3         |
| Cork & wood                        | 69            | 113.0        | 126.7        | 125.8        | 144.1        | 152.2        | 151.2        | 149.3        |
| Paper making material              | 9             | 96.2         | 114.7        | 120.7        | 116.6        | 101.8        | 101.3        | 93.1         |
| Crude fertilizers & minerals       | 19            | 96.9         | 87.3         | 75.3         | 71.5         | 70.5         | 66.1         | 60.6         |
| Metallic ores & scrap              | 73            | 67.6         | 78.3         | 92.0         | 89.5         | 75.3         | 70.3         | 65.7         |
| Crude materials nec                | 50            | 90.3         | 103.2        | 115.0        | 117.6        | 109.2        | 104.3        | 101.3        |
| <b>Mineral Fuels</b>               | <b>3,021</b>  | <b>59.2</b>  | <b>64.6</b>  | <b>54.2</b>  | <b>60.5</b>  | <b>72.5</b>  | <b>64.4</b>  | <b>56.0</b>  |
| Petroleum & products               | 2,982         | 59.2         | 64.7         | 54.2         | 60.6         | 72.6         | 64.3         | 55.9         |
| Gas                                | 39            | 63.7         | 58.0         | 56.5         | 51.4         | 64.3         | 69.0         | 65.0         |
| <b>Animal &amp; Vegetable Oils</b> | <b>288</b>    | <b>69.2</b>  | <b>71.9</b>  | <b>81.6</b>  | <b>73.5</b>  | <b>70.3</b>  | <b>73.1</b>  | <b>75.4</b>  |
| Vegetable oil unprocessed          | 210           | 68.2         | 71.1         | 79.6         | 72.9         | 70.9         | 73.3         | 75.2         |
| Other animal & vegetable oils      | 78            | 71.9         | 74.2         | 86.8         | 75.3         | 68.6         | 72.6         | 76.0         |



**14.7 EXPORT PRICE INDEX, 1986-1992 (continued)**  
(1985 = 100)

| Item                                       | Weight | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  |
|--------------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| <b>Chemicals &amp; Chemical Products</b>   | 565    | 98.8  | 103.5 | 117.1 | 109.5 | 103.0 | 100.7 | 91.9  |
| Organic chemicals                          | 172    | 97.0  | 101.9 | 117.4 | 119.3 | 115.0 | 110.9 | 99.6  |
| Inorganic chemicals                        | 24     | 96.6  | 93.8  | 90.4  | 89.6  | 85.3  | 82.1  | 76.9  |
| Dyes & colours                             | 23     | 100.0 | 100.1 | 99.8  | 106.8 | 104.8 | 102.4 | 101.7 |
| Medicinal products                         | 49     | 103.6 | 96.3  | 93.8  | 85.2  | 79.8  | 78.5  | 78.8  |
| Perfume, toilet preparations               | 35     | 101.5 | 99.4  | 98.7  | 97.7  | 92.3  | 90.1  | 88.0  |
| Fertilizers manufactured                   | 32     | 84.4  | 79.6  | 91.4  | 100.7 | 105.0 | 102.9 | 100.8 |
| Plastics in primary forms                  | 6      | 103.2 | 101.8 | 106.0 | 106.0 | 106.0 | 106.0 | 122.7 |
| Plastics in non-primary forms              | 122    | 99.6  | 122.0 | 163.5 | 127.0 | 112.3 | 107.6 | 88.0  |
| Chemical products nec                      | 102    | 102.3 | 99.8  | 97.8  | 96.1  | 89.6  | 92.7  | 88.1  |
| <b>Manufactured Goods</b>                  | 784    | 95.2  | 100.8 | 109.9 | 112.6 | 106.8 | 103.8 | 99.3  |
| Rubber manufactures nec                    | 28     | 105.8 | 106.1 | 108.3 | 108.9 | 107.6 | 104.9 | 104.4 |
| Wood & cork manufactures                   | 90     | 104.5 | 114.6 | 132.5 | 124.0 | 115.7 | 110.1 | 105.5 |
| Paper manufactures                         | 51     | 103.2 | 108.3 | 120.4 | 125.4 | 125.8 | 123.2 | 118.7 |
| Textile manufactures                       | 155    | 101.4 | 106.2 | 109.8 | 109.1 | 108.0 | 102.7 | 96.6  |
| Non-metal mineral manufactures             | 73     | 101.3 | 104.1 | 107.7 | 112.6 | 118.2 | 116.1 | 115.3 |
| Iron & steel                               | 133    | 93.6  | 111.3 | 135.2 | 138.4 | 129.0 | 128.6 | 118.1 |
| Non-ferrous metals                         | 127    | 73.2  | 72.6  | 77.0  | 89.6  | 66.2  | 60.9  | 60.3  |
| Metal manufactures                         | 127    | 95.5  | 95.8  | 97.6  | 100.2 | 101.9 | 102.7 | 99.2  |
| <b>Machinery &amp; Transport Equipment</b> | 3,417  | 98.3  | 96.7  | 93.0  | 92.8  | 89.6  | 86.6  | 82.8  |
| Power generating machinery                 | 155    | 100.6 | 99.4  | 98.4  | 98.7  | 99.6  | 97.0  | 95.2  |
| Industrial machinery                       | 288    | 101.4 | 103.2 | 99.8  | 100.2 | 80.2  | 79.2  | 77.5  |
| Metalworking machinery                     | 41     | 100.4 | 102.0 | 108.0 | 112.6 | 111.5 | 107.8 | 102.9 |
| General industrial machinery               | 342    | 98.5  | 99.3  | 99.8  | 100.8 | 99.6  | 98.5  | 94.6  |
| Office & data machines                     | 574    | 88.1  | 83.6  | 81.9  | 79.6  | 72.5  | 70.3  | 62.3  |
| Telecommunication apparatus                | 651    | 101.3 | 101.9 | 99.9  | 97.1  | 92.3  | 88.8  | 85.4  |
| Electrical machinery nec                   | 1,251  | 99.5  | 96.0  | 88.4  | 89.6  | 91.7  | 87.6  | 84.2  |
| Road vehicles                              | 115    | 106.0 | 111.3 | 109.1 | 110.1 | 107.9 | 105.8 | 110.2 |
| <b>Miscellaneous Manufactures</b>          | 676    | 102.6 | 105.0 | 107.2 | 106.0 | 107.6 | 105.1 | 102.2 |
| Prefab building, sanitary, lighting        | 9      | 99.6  | 97.7  | 95.9  | 95.3  | 90.8  | 89.2  | 82.0  |
| Furniture, bedding, mattresses             | 34     | 100.9 | 104.8 | 107.6 | 110.0 | 109.9 | 113.0 | 112.1 |
| Travel goods                               | 9      | 100.0 | 100.0 | 116.7 | 133.3 | 133.3 | 133.3 | 133.3 |
| Clothing                                   | 222    | 100.5 | 109.3 | 111.9 | 111.0 | 121.3 | 117.7 | 118.1 |
| Footwear                                   | 9      | 106.6 | 107.9 | 111.3 | 112.8 | 111.9 | 110.4 | 109.6 |
| Scientific instruments                     | 94     | 105.1 | 103.2 | 102.7 | 99.3  | 96.9  | 95.7  | 94.2  |
| Photographic apparatus                     | 77     | 110.8 | 112.0 | 113.5 | 109.1 | 103.4 | 103.0 | 100.6 |
| Miscellaneous mfd articles nec             | 222    | 101.0 | 99.3  | 102.0 | 101.2 | 99.1  | 95.4  | 87.9  |

# 14.8 BUILDING MATERIALS PRICE INDEX, 1982-1992

| Section                                                                              | All Items                            | Timber & Wood Products | Concrete Ingredients (Granite) | Paints | Cement | Bricks & Concrete Blocks | Tiles | Iron & Steel Products | Cables | Sanitary & Plumbing Fixtures | Others |
|--------------------------------------------------------------------------------------|--------------------------------------|------------------------|--------------------------------|--------|--------|--------------------------|-------|-----------------------|--------|------------------------------|--------|
| Period \ Weights <sup>1</sup>                                                        | 10,000                               | 585                    | 872                            | 292    | 1,338  | 2,076                    | 952   | 1,764                 | 646    | 69                           | 1,406  |
| 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992 | 1985 = 100                           |                        |                                |        |        |                          |       |                       |        |                              |        |
|                                                                                      | 120.5                                | 109.2                  | 145.3                          | 97.0   | 164.6  | 115.5                    | 115.2 | 111.9                 | 108.3  | 103.3                        | 101.0  |
|                                                                                      | 115.7                                | 105.4                  | 131.1                          | 97.0   | 162.6  | 117.9                    | 111.7 | 102.5                 | 113.3  | 100.9                        | 101.6  |
|                                                                                      | 107.7                                | 103.7                  | 118.4                          | 98.5   | 121.9  | 113.9                    | 108.9 | 100.8                 | 111.5  | 100.0                        | 101.8  |
|                                                                                      | 100.0                                | 100.0                  | 100.0                          | 100.0  | 100.0  | 100.0                    | 100.0 | 100.0                 | 100.0  | 100.0                        | 100.0  |
|                                                                                      | 97.1                                 | 94.5                   | 89.9                           | 100.4  | 93.0   | 91.5                     | 102.9 | 101.6                 | 98.6   | 97.9                         | 104.0  |
|                                                                                      | 97.1                                 | 98.1                   | 84.3                           | 105.7  | 93.4   | 84.1                     | 107.7 | 109.2                 | 101.3  | 98.7                         | 101.0  |
|                                                                                      | 102.9                                | 109.4                  | 83.4                           | 113.3  | 90.5   | 84.0                     | 113.3 | 125.7                 | 115.5  | 109.3                        | 108.0  |
|                                                                                      | 113.0                                | 110.6                  | 82.6                           | 116.8  | 123.7  | 94.0                     | 113.2 | 131.2                 | 130.0  | 115.5                        | 118.8  |
|                                                                                      | 119.3                                | 114.9                  | 105.4                          | 114.4  | 143.9  | 106.3                    | 113.7 | 122.9                 | 126.7  | 104.1                        | 123.2  |
|                                                                                      | 122.7                                | 111.2                  | 116.5                          | 114.6  | 151.4  | 114.4                    | 114.0 | 119.0                 | 123.5  | 102.7                        | 128.9  |
|                                                                                      | 116.9                                | 112.0                  | 92.9                           | 111.9  | 151.6  | 106.6                    | 114.0 | 107.8                 | 121.2  | 102.8                        | 128.9  |
|                                                                                      | Percentage Change Over Previous Year |                        |                                |        |        |                          |       |                       |        |                              |        |
|                                                                                      | -4.1                                 | -0.5                   | -8.7                           | -      | -1.7   | 0.9                      | -4.4  | -7.2                  | -12.4  | 3.3                          | 1.5    |
|                                                                                      | -4.0                                 | -3.5                   | -9.8                           | -      | -1.2   | 2.1                      | -3.1  | -8.3                  | 4.6    | -2.3                         | 0.6    |
|                                                                                      | -6.9                                 | -1.6                   | -9.7                           | 1.5    | -25.1  | -3.4                     | -2.5  | -1.7                  | -1.6   | -0.9                         | 0.3    |
|                                                                                      | -7.2                                 | -3.6                   | -15.5                          | 1.5    | -17.9  | -12.2                    | -8.2  | -0.8                  | -10.3  | -                            | -1.8   |
|                                                                                      | -2.9                                 | -5.5                   | -10.1                          | 0.4    | -7.0   | -8.5                     | 2.9   | 1.6                   | -1.4   | -2.1                         | 4.0    |
|                                                                                      | -0.1                                 | 3.8                    | -6.3                           | 5.3    | 0.3    | -8.1                     | 4.7   | 7.5                   | 2.7    | 0.9                          | -2.9   |
| 6.0                                                                                  | 11.5                                 | -1.0                   | 7.2                            | -3.1   | -0.2   | 5.2                      | 15.0  | 14.0                  | 10.6   | 7.0                          |        |
| 9.8                                                                                  | 1.1                                  | -0.9                   | 3.1                            | 36.7   | 12.0   | -0.1                     | 4.4   | 12.6                  | 5.8    | 10.0                         |        |
| 5.6                                                                                  | 3.8                                  | 27.5                   | -2.1                           | 16.4   | 13.1   | 0.5                      | -6.3  | -2.5                  | -9.9   | 3.7                          |        |
| 2.8                                                                                  | -3.2                                 | 10.7                   | 0.2                            | 5.2    | 7.6    | 0.2                      | -3.2  | -2.6                  | -1.3   | 4.7                          |        |
| -4.7                                                                                 | 0.7                                  | -20.3                  | -2.4                           | 0.1    | -6.8   | -                        | -9.4  | -1.9                  | 0.1    | -                            |        |

<sup>1</sup> 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.

Source : Construction Industry Development Board with effect from October 1992



# 14.9 PRICE INDICES OF SELECTED FARM PRODUCTS, 1982-1992

| Period                               | Pigs  | Fowls | Ducks | Hen Eggs | Leafy Vegetables | Fruit Vegetables | Root Vegetables | Fresh Fish |
|--------------------------------------|-------|-------|-------|----------|------------------|------------------|-----------------|------------|
| 1985 = 100                           |       |       |       |          |                  |                  |                 |            |
| 1982                                 | 132.2 | 116.0 | 121.6 | 108.0    | 101.9            | 109.9            | 86.1            | 95.0       |
| 1983                                 | 133.3 | 108.2 | 109.2 | 98.6     | 111.5            | 113.7            | 98.6            | 94.8       |
| 1984                                 | 100.8 | 102.9 | 115.6 | 110.7    | 106.9            | 110.6            | 111.9           | 102.5      |
| 1985                                 | 100.0 | 100.0 | 100.0 | 100.0    | 100.0            | 100.0            | 100.0           | 100.0      |
| 1986                                 | 94.9  | 87.2  | 98.9  | 91.6     | 87.3             | 97.0             | 88.8            | 101.0      |
| 1987                                 | 98.1  | 87.7  | 94.3  | 91.6     | 102.9            | 106.5            | 88.8            | 97.7       |
| 1988                                 | 107.0 | 81.0  | 100.7 | 107.3    | 94.6             | 105.7            | 88.8            | 97.4       |
| 1989                                 | 104.2 | 89.8  | 104.5 | 91.5     | 91.0             | 97.8             | 95.1            | 98.2       |
| 1990                                 | 95.4  | 113.6 | 109.9 | 104.6    | 89.6             | 102.7            | 98.6            | 98.5       |
| 1991                                 | 80.4  | 99.0  | 97.8  | 104.2    | 104.6            | 109.5            | 105.9           | 99.8       |
| 1992                                 | 100.4 | 99.7  | 91.6  | 95.5     | 97.2             | 118.7            | 109.2           | 101.6      |
| Percentage Change Over Previous Year |       |       |       |          |                  |                  |                 |            |
| 1982                                 | 5.3   | -2.1  | -9.1  | -12.8    | 37.7             | 31.6             | 10.7            | 6.2        |
| 1983                                 | 0.8   | -6.7  | -10.2 | -8.8     | 9.4              | 3.4              | 14.5            | -0.2       |
| 1984                                 | -24.4 | -4.9  | 5.9   | 12.3     | -4.1             | -2.7             | 13.4            | 8.1        |
| 1985                                 | -0.8  | -2.8  | -13.5 | -9.7     | -6.5             | -9.6             | -10.6           | -2.4       |
| 1986                                 | -5.1  | -12.8 | -1.1  | -8.3     | -12.6            | -2.9             | -11.1           | 1.0        |
| 1987                                 | 3.4   | 0.6   | -4.7  | -0.1     | 17.8             | 9.8              | -               | -3.2       |
| 1988                                 | 9.0   | -7.6  | 6.9   | 17.1     | -8.0             | -0.8             | -               | -0.4       |
| 1989                                 | -2.6  | 10.8  | 3.7   | -14.7    | -3.8             | -7.5             | 7.0             | 0.9        |
| 1990                                 | -8.5  | 26.4  | 5.2   | 14.2     | -1.6             | 5.0              | 3.7             | 0.3        |
| 1991                                 | -15.7 | -12.8 | -11.1 | -0.4     | 16.7             | 6.6              | 7.5             | 1.2        |
| 1992                                 | 24.9  | 0.6   | -6.3  | -8.3     | -7.1             | 8.4              | 3.0             | 1.8        |

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

**14.10 PROPERTY PRICE INDEX BY TYPE OF PROPERTY, 1982-1992**  
(1990 = 100)

| Type of Property | All Properties | Residential |          |               |                 |               |                   | Commercial |         |       | Industrial |                   |             |
|------------------|----------------|-------------|----------|---------------|-----------------|---------------|-------------------|------------|---------|-------|------------|-------------------|-------------|
|                  |                | Total       | Detached | Semi-detached | Terraced Houses | Private Flats | Condominium Units | Total      | Offices | Shops | Total      | Flatted Factories | Ware-houses |
| Weights          | 10,000         | 8,357       | 1,114    | 990           | 1,500           | 1,513         | 3,240             | 1,232      | 586     | 646   | 411        | 354               | 57          |
| Period           |                |             |          |               |                 |               |                   |            |         |       |            |                   |             |
| 1982             | 88.3           | 80.5        | 66.2     | 76.1          | 75.0            | 92.2          | na                | 107.3      | 100.8   | 110.0 | 122.2      | na                | na          |
| 1983             | 92.2           | 90.0        | 76.9     | 93.5          | 90.6            | 95.7          | na                | 96.5       | 90.6    | 98.9  | 101.9      | na                | na          |
| 1984             | 84.9           | 85.2        | 76.9     | 93.5          | 89.0            | 84.9          | 81.6              | 79.6       | 70.2    | 88.5  | 90.4       | na                | na          |
| 1985             | 70.6           | 71.6        | 62.2     | 75.7          | 76.1            | 73.2          | 69.9              | 59.5       | 52.4    | 66.4  | 72.3       | na                | na          |
| 1986             | 61.7           | 63.9        | 62.3     | 68.9          | 65.0            | 58.5          | 60.7              | 54.1       | 44.2    | 63.5  | 53.8       | na                | na          |
| 1987             | 72.8           | 74.2        | 78.4     | 81.9          | 77.5            | 70.8          | 68.5              | 63.8       | 51.2    | 75.6  | 56.8       | na                | na          |
| 1988             | 76.7           | 78.9        | 81.8     | 84.3          | 81.4            | 79.5          | 74.9              | 68.2       | 61.2    | 74.5  | 57.1       | na                | na          |
| 1989             | 87.6           | 88.5        | 87.1     | 91.1          | 88.4            | 87.9          | 88.6              | 84.6       | 84.5    | 84.6  | 79.1       | na                | na          |
| 1990             | 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       |
| 1991             | 109.1          | 110.5       | 111.2    | 113.2         | 112.3           | 115.0         | 106.3             | 100.0      | 97.1    | 102.6 | 110.4      | 111.3             | 104.8       |
| 1992             | 123.1          | 127.6       | 128.1    | 130.2         | 128.9           | 127.5         | 126.1             | 93.6       | 93.5    | 93.6  | 121.2      | 121.2             | 121.4       |

Note : Data for 1992 are compiled from Caveats lodged with Registry of Land Titles and Deeds.

Source : Urban Redevelopment Authority



# 14.11 PRODUCE PRICES, 1982-1992

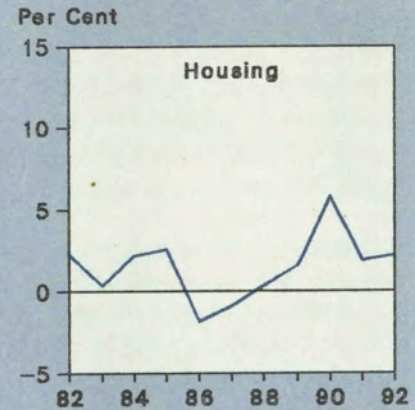
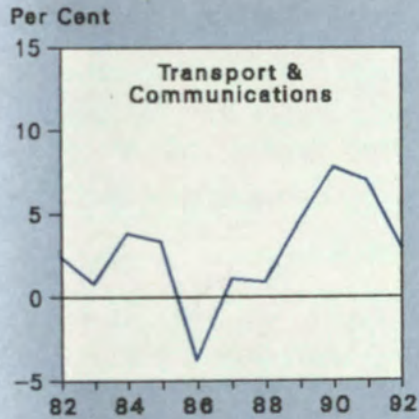
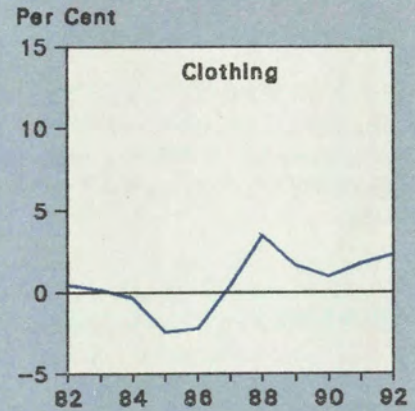
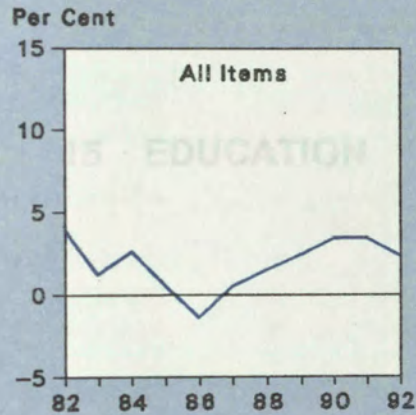
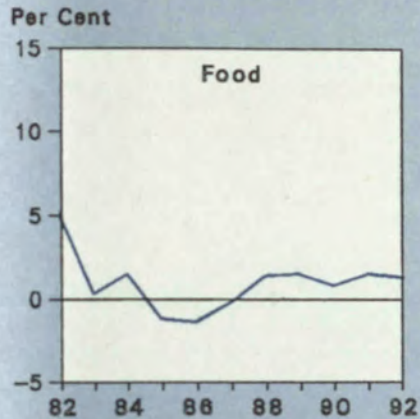
| Year | Rubber                   |        |        |                 |        |        |        | Pepper                         |                      | Coffee AP 1 | Crude Coconut Oil (in Drums) | Tin                   |
|------|--------------------------|--------|--------|-----------------|--------|--------|--------|--------------------------------|----------------------|-------------|------------------------------|-----------------------|
|      | Ribbed Smoked Sheet      |        |        | Thin Pale Crepe |        | SSR 20 | SSR 50 | Black Lampong                  | White Muntok Genuine |             |                              |                       |
|      | Int 2                    | Int 3  | Int 4  | Int 1           | Int 9  |        |        |                                |                      |             |                              |                       |
|      | Cents Per kilogram (fob) |        |        |                 |        |        |        | Dollars Per 100 kilogram (fob) |                      |             |                              | RM Per Kilogram (fob) |
| 1982 | 172.60                   | 167.14 | 155.97 | )               | )      | 162.60 | 159.88 | 278.36                         | 346.37               | 419.79      | 106.88                       | 30.18                 |
| 1983 | 217.85                   | 214.38 | 205.13 | )               | )      | 204.05 | 200.80 | 305.73                         | 405.98               | 452.17      | 143.82                       | 30.16                 |
| 1984 | 196.73                   | 193.91 | 186.88 | )               | )      | 195.17 | 193.22 | 436.72                         | 658.21               | 583.75      | 218.58                       | 29.16                 |
| 1985 | 160.92                   | 158.92 | 155.26 | )               | )      | 157.85 | 155.77 | 797.68                         | 893.78               | 556.39      | 127.67                       | 29.65                 |
| 1986 | 171.45                   | 169.40 | 165.32 | )               | )      | 165.83 | 162.79 | 996.57                         | 1,292.33             | 668.73      | 64.25                        | 15.50                 |
| 1987 | 202.57                   | 199.05 | 193.13 | )               | )      | 192.88 | 191.00 | 1,047.32                       | 1,233.59             | 461.40      | 101.28                       | 16.83                 |
| 1988 | 232.86                   | 230.49 | 226.31 | 304.58          | 310.58 | 220.94 | 219.17 | 665.89                         | 938.80               | 424.65      | 124.52                       | 18.46                 |
| 1989 | 182.57                   | 178.26 | 171.55 | 268.14          | 274.14 | 167.83 | 165.83 | 489.39                         | 574.06               | 309.52      | 109.76                       | 23.08                 |
| 1990 | 153.98                   | 148.94 | 144.96 | 231.11          | 237.11 | 141.30 | 139.30 | 321.47                         | 335.81               | 201.75      | 74.91                        | 16.44                 |
| 1991 | 141.71                   | 138.59 | 134.75 | 215.28          | 221.28 | 137.23 | 135.23 | 237.57                         | 244.89               | 187.21      | 85.72                        | 15.04                 |
| 1992 | 138.84                   | 137.26 | 134.17 | 206.01          | 212.01 | 137.34 | 135.34 | 175.56                         | 217.60               | 164.13      | 106.49                       | 15.21                 |

Note : Int = International  
SSR = Singapore Specified Rubber  
AP 1 = After Polished Grade 1  
RM = Ringgit Malaysia

Source : Rubber Association of Singapore  
Chinese Produce Exchange

# CHART 20

## ANNUAL CHANGES IN CONSUMER PRICE INDEX, 1982-1992







## 15 EDUCATION



## 15 EDUCATION

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

### Primary Education

At primary level, pupils go through a four-year foundation stage (from Primary One to Four), and a two-year orientation stage (from Primary Five to Six). At the foundation stage, the emphasis is basic literacy and numeracy skills. Eighty per cent of the curriculum is provided to give pupils a working knowledge of English and a good grounding in the mother tongue and Mathematics. Pupils also learn subjects like Music, Art and Crafts, Health Education and Moral Education, and participate in Physical Education and extra-curricular activities.

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

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

### Secondary Education

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

### Pre-University Education

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

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

### **Sources of Data**

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

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

### **Institute of Technical Education**

*The Institute of Technical Education (ITE)* was established on 1 April 1992 to replace the former Vocational & Industrial Training Board (VITB). As a post-secondary educational institution, ITE's roles are to provide technical

training for secondary school leavers and Continuing Education & Training (CET) programmes for workers.

ITE offers full-time technical training and business studies courses to school leavers with GCE 'O' and 'N' levels qualifications. Technical training leads to the award of the Industrial Technician Certificate and the National Technical Certificate. Business Studies courses lead to the award of the Certificate in Business Studies and the Certificate in Office Skills.

ITE also offers the opportunity for workers to upgrade their skills and educational level. The part-time Modular Skills Training (MOST) Scheme is for workers who wish to upgrade or acquire new skills. The Basic Education for Skills Training (BEST) programme offers part-time basic literacy and numeracy programmes for workers to attain primary level education with the objective of enabling them to take up skills training. The Worker Improvement through Secondary Education (WISE) programme prepares workers to sit for the GCE 'N' level examination in English Language and/or Mathematics. The Training Initiative for Mature Employees (TIME) programme enables mature workers aged 40 or over without formal education to take up skills training.

ITE administers apprenticeship and assists industry in conducting ad-hoc training programmes and encourages them to set up training centres. ITE is also the national authority for the setting of skills standards, the conduct of public trade testing and the certification of skills.



## Higher Learning

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

*The National University of Singapore* was established on 8 August 1980 with the merger of the University of Singapore (founded in 1962) and Nanyang University (founded in 1956). It has eight faculties, namely, Architecture and Building, Arts and Social Sciences, Business Administration, Dentistry, Engineering, Law, Medicine and Science. All faculties offer courses leading to first degrees as well as higher degrees. There are also 4 postgraduate schools for Medical Studies, Dental Studies, Management Studies and Engineering. In addition, the University has three non-faculty departments - Department of Extra-mural Studies, English Language Proficiency Unit and Human Resource Management Unit.

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

Research is top priority at the University. Strong encouragement is given to multi-disciplinary research and joint R & D projects with industry. The setting up of research

institutes and centres of excellence for research and training is being done to enable staff and students to be actively engaged in research.

*The Nanyang Technological University (NTU)* was established on 1 July 1991. It has its origin in the former Nanyang Technological Institute (NTI) which was set up in 1981. In its main campus in Jurong, there are six schools namely, School of Accountancy and Business, School of Applied Science, School of Civil and Structural Engineering, School of Electrical and Electronic Engineering, School of Mechanical and Production Engineering and School of Communication Studies.

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

*The National Institute of Education (NIE)*, formed in July 1991 by the merging of the former Institute of Education and the College of Physical Education, became part of NTU on the same day. Located at the University's branch campus in Bukit Timah, NIE provides professional training for teachers as well as the study of Science, Physical Education, the Humanities and Fine Arts in its four schools, respectively the Schools of Education, Science, Physical Education and Arts.

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

There are four polytechnics offering a wide range of technical, business and management courses at diploma and post-diploma levels. They are the Singapore Polytechnic, Ngee Ann Polytechnic, Temasek Polytechnic and the new Nanyang Polytechnic. Each of the polytechnics specializes in specific fields, in addition to various basic engineering and general

business and management courses. Some of the specialized courses include Banking and Financial Services, Biotechnology, Graphic Design and Product Design, Mass Communication, Tourism Management, Nautical Studies, Plastic Mould Design, Public Health Engineering, Quality Assurance Engineering and Software Engineering. Some of the specialized courses are conducted on a part-time basis for working adults.

### Expenditure on Education

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



# 15.1 ENROLMENT IN EDUCATIONAL INSTITUTIONS, 1982-1992

| Number of Institutions |         |                 |           |          |           |            |                             |          |           |            |                                                |                                              |
|------------------------|---------|-----------------|-----------|----------|-----------|------------|-----------------------------|----------|-----------|------------|------------------------------------------------|----------------------------------------------|
| Year                   | Total   | Primary Schools | Secondary |          |           |            | Pre-University <sup>1</sup> |          |           |            | Technical & Vocational Institutes <sup>2</sup> | Institutions of Higher Learning <sup>3</sup> |
|                        |         |                 | Total     | Academic | Technical | Commercial | Total                       | Academic | Technical | Commercial |                                                |                                              |
| 1982                   | 506,946 | 286,780         | 157,262   | 134,888  | 17,565    | 4,809      | 19,583                      | 12,609   | 458       | 6,516      | 16,361                                         | 26,960                                       |
| 1983                   | 521,420 | 290,800         | 161,936   | 137,173  | 18,226    | 6,537      | 20,407                      | 13,693   | 134       | 6,580      | 17,132                                         | 31,145                                       |
| 1984                   | 528,502 | 288,623         | 164,928   | 138,388  | 19,071    | 7,469      | 22,836                      | 15,800   | -         | 7,036      | 16,172                                         | 35,943                                       |
| 1985                   | 529,462 | 278,060         | 164,168   | 136,268  | 19,782    | 8,118      | 26,160                      | 18,167   | -         | 7,993      | 21,161                                         | 39,913                                       |
| 1986                   | 537,663 | 268,820         | 173,990   | 142,945  | 21,601    | 9,444      | 29,098                      | 20,145   | -         | 8,953      | 23,438                                         | 42,317                                       |
| 1987                   | 536,785 | 261,603         | 172,054   | 141,658  | 20,876    | 9,520      | 30,803                      | 20,985   | -         | 9,818      | 27,349                                         | 44,976                                       |
| 1988                   | 537,618 | 259,270         | 168,587   | 139,787  | 19,622    | 9,178      | 33,168                      | 22,259   | -         | 10,909     | 29,604                                         | 46,989                                       |
| 1989                   | 537,995 | 257,833         | 166,274   | 139,464  | 17,730    | 9,080      | 32,802                      | 21,598   | -         | 11,204     | 30,344                                         | 50,742                                       |
| 1990                   | 534,165 | 257,932         | 161,029   | 136,365  | 15,819    | 8,845      | 30,430                      | 19,435   | -         | 10,995     | 29,102                                         | 55,672                                       |
| 1991                   | 535,239 | 260,286         | 157,282   | 132,600  | 15,330    | 9,352      | 28,431                      | 17,708   | -         | 10,723     | 28,871                                         | 60,369                                       |
| 1992                   | 538,507 | 262,599         | 156,362   | 131,260  | 15,421    | 9,681      | 25,787                      | 16,431   | -         | 9,356      | 27,984                                         | 65,775                                       |

<sup>1</sup> Include Pre-U Centres, Centralised Institutes and Junior Colleges.

<sup>2</sup> Include enrolment from Institutes run by Economic Development Board.

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

Source : Ministry of Education

# 15.2 STUDENTS AND TEACHERS IN EDUCATIONAL INSTITUTIONS, END JUNE 1992

|                                                                           | Institutions <sup>1</sup> | Students |         |         | Teachers |       |         |
|---------------------------------------------------------------------------|---------------------------|----------|---------|---------|----------|-------|---------|
|                                                                           |                           | Total    | Males   | Females | Total    | Males | Females |
| <b>Total</b>                                                              | 392                       | 538,507  | 288,251 | 250,256 | 24,781   | 9,834 | 14,947  |
| Primary Schools                                                           | 194                       | 262,599  | 137,971 | 124,628 | 10,188   | 2,681 | 7,507   |
| Secondary Schools                                                         | 140                       | 156,362  | 80,273  | 76,089  | 7,653    | 2,851 | 4,802   |
| Pre-U Centres <sup>2</sup> & Centralised Institutes <sup>3</sup>          | 16 <sup>4</sup>           | 6,886    | 2,299   | 4,587   | -        | -     | -       |
| Junior Colleges                                                           | 14                        | 18,901   | 8,946   | 9,955   | 1,625    | 589   | 1,036   |
| Institutes of Technical Education & Economic Development Board Institutes | 21                        | 27,984   | 21,071  | 6,913   | 1,594    | 1,193 | 401     |
| Polytechnics                                                              | 4                         | 35,517   | 21,517  | 14,000  | 2,585    | 1,755 | 830     |
| National Institute of Education                                           | 1                         | 2,088    | 487     | 1,601   | 218      | 105   | 113     |
| National University of Singapore & Nanyang Technological University       | 2                         | 28,170   | 15,687  | 12,483  | 918      | 660   | 258     |

Source : Ministry of Education

- 1 A school conducting both primary and secondary classes is treated as one primary and one secondary school.
- 2 Teachers teaching in Pre-U Centres are included under Secondary Schools.
- 3 Teachers teaching in Centralised Institutes are included under Junior Colleges.
- 4 Include 10 Pre-U Centres where Pre-U classes are held in Secondary Schools.



# 15.3 PRIMARY SCHOOLS, STUDENTS AND TEACHERS BY TYPE OF SCHOOL, 1982-1992

|                                   | Number  |         |         |         |         |         |         |         |         |         |         |
|-----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                                   | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992    |
| <b>Total Schools</b>              | 320     | 305     | 275     | 252     | 236     | 230     | 221     | 212     | 208     | 202     | 194     |
| Government                        | 211     | 207     | 193     | 180     | 172     | 169     | 166     | 158     | 157     | 152     | 145     |
| Government-aided                  | 107     | 96      | 81      | 71      | 63      | 60      | 54      | 53      | 50      | 49      | 48      |
| Private                           | 2       | 2       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       |
| <b>Total Students</b>             | 286,780 | 290,800 | 288,623 | 278,060 | 268,820 | 261,603 | 259,270 | 257,833 | 257,932 | 260,286 | 262,599 |
| Government                        | 217,885 | 219,742 | 219,930 | 211,855 | 205,281 | 199,174 | 198,429 | 196,186 | 195,994 | 197,491 | 198,481 |
| Government-aided                  | 68,734  | 70,862  | 68,564  | 66,020  | 63,387  | 62,225  | 60,688  | 61,504  | 61,763  | 62,618  | 63,984  |
| Private                           | 161     | 196     | 129     | 185     | 152     | 204     | 153     | 143     | 175     | 177     | 134     |
| <b>Total Teachers<sup>1</sup></b> | 9,444   | 9,915   | 10,416  | 10,351  | 10,256  | 10,190  | 9,962   | 9,998   | 10,006  | 9,843   | 10,188  |
| Government                        | 7,437   | 7,854   | 7,958   | 7,917   | 7,921   | 7,893   | 7,798   | 7,797   | 7,848   | 7,677   | 7,682   |
| Government-aided                  | 2,007   | 2,061   | 2,458   | 2,434   | 2,335   | 2,297   | 2,164   | 2,201   | 2,158   | 2,166   | 2,506   |

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

Source : Ministry of Education

**15.4 ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED PRIMARY SCHOOLS BY LEVEL AND AGE, END JUNE 1992**  
**a) Males**

| Age<br>Level & Course |  | Number  |                  |                |                |                 |                  |                  |                  |                  |                  |              |
|-----------------------|--|---------|------------------|----------------|----------------|-----------------|------------------|------------------|------------------|------------------|------------------|--------------|
|                       |  | Total   | Under 7<br>Years | 7 &<br>Under 8 | 8 &<br>Under 9 | 9 &<br>Under 10 | 10 &<br>Under 11 | 11 &<br>Under 12 | 12 &<br>Under 13 | 13 &<br>Under 14 | 14 &<br>Under 15 | 15 &<br>Over |
| Total                 |  | 137,891 | 21,473           | 21,183         | 20,620         | 21,752          | 21,526           | 21,072           | 6,112            | 3,986            | 131              | 36           |
| Primary 1             |  | 21,687  | 21,467           | 176            | 40             | 4               | -                | -                | -                | -                | -                | -            |
| Primary 2             |  | 21,347  | 6                | 21,000         | 254            | 74              | 10               | 3                | -                | -                | -                | -            |
| Primary 3             |  | 20,757  | -                | 7              | 20,313         | 285             | 126              | 18               | 8                | -                | -                | -            |
| Primary 4             |  | 21,944  | -                | -              | 13             | 21,380          | 341              | 166              | 37               | 7                | -                | -            |
| Primary 5             |  |         |                  |                |                |                 |                  |                  |                  |                  |                  |              |
| EM1                   |  | 2,565   | -                | -              | -              | 1               | 2,518            | 35               | 8                | 3                | -                | -            |
| EM2                   |  | 19,137  | -                | -              | -              | 8               | 15,901           | 2,878            | 270              | 67               | 13               | -            |
| EM3                   |  | 4,562   | -                | -              | -              | -               | 2,607            | 1,668            | 265              | 17               | 2                | 3            |
| Primary 6             |  | 16,532  | -                | -              | -              | -               | 10               | 15,243           | 938              | 304              | 26               | 11           |
| Primary 7             |  |         |                  |                |                |                 |                  |                  |                  |                  |                  |              |
| Extended              |  | 3,306   | -                | -              | -              | -               | -                | 1,054            | 2,183            | 57               | 10               | 2            |
| Monolingual           |  | 251     | -                | -              | -              | -               | -                | -                | 248              | 2                | 1                | -            |
| EM3                   |  | 1,088   | -                | -              | -              | -               | 13               | 7                | 1,048            | 12               | 8                | -            |
| Primary 8             |  |         |                  |                |                |                 |                  |                  |                  |                  |                  |              |
| Extended              |  | 3,355   | -                | -              | -              | -               | -                | -                | 1,107            | 2,186            | 47               | 15           |
| Monolingual           |  | 1,360   | -                | -              | -              | -               | -                | -                | -                | 1,331            | 24               | 5            |

Notes: EM1 refers to the stream where pupils learn English and the mother tongue at higher level.

EM2 refers to the stream where pupils learn English and the mother tongue.

EM3 refers to the stream where pupils learn English and the mother tongue at basic proficiency level.

Source : Ministry of Education



# 15.4 ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED PRIMARY SCHOOLS BY LEVEL AND AGE, END JUNE 1992

## b) Females

|                |         |               |             |             |              |               |               |               |               |               | Number    |
|----------------|---------|---------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|-----------|
| Level & Course | Age     |               |             |             |              |               |               |               |               |               |           |
|                | Total   | Under 7 Years | 7 & Under 8 | 8 & Under 9 | 9 & Under 10 | 10 & Under 11 | 11 & Under 12 | 12 & Under 13 | 13 & Under 14 | 14 & Under 15 | 15 & Over |
| <b>Total</b>   | 124,574 | 19,766        | 19,227      | 18,885      | 19,841       | 19,832        | 19,365        | 4,783         | 2,780         | 82            | 13        |
| Primary 1      | 19,935  | 19,758        | 144         | 29          | 2            | 2             | -             | -             | -             | -             | -         |
| Primary 2      | 19,325  | 8             | 19,069      | 196         | 45           | 7             | -             | -             | -             | -             | -         |
| Primary 3      | 19,033  | -             | 14          | 18,649      | 268          | 83            | 16            | 3             | -             | -             | -         |
| Primary 4      | 19,957  | -             | -           | 11          | 19,522       | 291           | 118           | 12            | 3             | -             | -         |
| Primary 5      |         |               |             |             |              |               |               |               |               |               |           |
| EM1            | 3,174   | -             | -           | -           | -            | 3,133         | 31            | 9             | 1             | -             | -         |
| EM2            | 17,162  | -             | -           | -           | 4            | 14,787        | 2,145         | 190           | 29            | 6             | 1         |
| EM3            | 2,503   | -             | -           | -           | -            | 1,522         | 821           | 142           | 15            | 3             | -         |
| Primary 6      | 16,777  | -             | -           | -           | -            | 5             | 15,338        | 1,116         | 294           | 19            | 5         |
| Primary 7      |         |               |             |             |              |               |               |               |               |               |           |
| Extended       | 2,587   | -             | -           | -           | -            | -             | 893           | 1,660         | 27            | 7             | -         |
| Monolingual    | 137     | -             | -           | -           | -            | -             | -             | 137           | -             | -             | -         |
| EM3            | 622     | -             | -           | -           | -            | 2             | 3             | 606           | 9             | 1             | 1         |
| Primary 8      |         |               |             |             |              |               |               |               |               |               |           |
| Extended       | 2,664   | -             | -           | -           | -            | -             | -             | 908           | 1,716         | 35            | 5         |
| Monolingual    | 698     | -             | -           | -           | -            | -             | -             | -             | 686           | 11            | 1         |

Source : Ministry of Education

# 15.5 SECONDARY SCHOOLS, STUDENTS AND TEACHERS BY TYPE OF SCHOOL, 1982-1992

| Type of School                 | Number  |         |         |         |         |         |         |         |         |         |         |
|--------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                                | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992    |
| Total Schools                  | 150     | 147     | 150     | 149     | 157     | 161     | 161     | 164     | 164     | 164     | 160     |
| Government                     | 94      | 93      | 98      | 98      | 109     | 113     | 113     | 116     | 115     | 115     | 111     |
| Government-aided & Independent | 52      | 50      | 48      | 47      | 44      | 44      | 44      | 44      | 45      | 45      | 45      |
| Private                        | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       |
| Total Students                 | 176,845 | 182,343 | 187,764 | 190,328 | 203,088 | 202,857 | 201,755 | 199,076 | 191,459 | 185,713 | 182,149 |
| Government                     | 128,786 | 133,839 | 137,400 | 137,526 | 149,296 | 148,240 | 147,596 | 145,587 | 137,800 | 133,327 | 129,708 |
| Government-aided & Independent | 46,266  | 46,629  | 48,445  | 50,763  | 51,840  | 52,885  | 52,589  | 51,971  | 51,956  | 50,643  | 50,787  |
| Private                        | 1,793   | 1,875   | 1,919   | 2,039   | 1,952   | 1,732   | 1,570   | 1,518   | 1,703   | 1,743   | 1,654   |
| Total Teachers <sup>1</sup>    | 8,355   | 8,650   | 8,240   | 8,574   | 8,703   | 9,378   | 9,040   | 9,236   | 9,197   | 9,200   | 9,278   |
| Government                     | 5,694   | 5,946   | 6,006   | 6,261   | 6,461   | 6,960   | 6,806   | 6,834   | 6,698   | 6,688   | 6,744   |
| Government-aided & Independent | 2,584   | 2,625   | 2,150   | 2,227   | 2,159   | 2,341   | 2,161   | 2,338   | 2,428   | 2,445   | 2,469   |
| Private <sup>2</sup>           | 77      | 79      | 84      | 86      | 83      | 77      | 73      | 64      | 71      | 67      | 65      |

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

2 Include teachers teaching primary classes.

Source : Ministry of Education



# 15.6 ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED SECONDARY SCHOOLS BY LEVEL AND AGE, END JUNE 1992

## a) Males

Number

| Age<br>Level & Course | Total  | Under 12<br>Years | 12 &<br>Under 13 | 13 &<br>Under 14 | 14 &<br>Under 15 | 15 &<br>Under 16 | 16 &<br>Under 17 | 17 &<br>Under 18 | 18 &<br>Under 19 | 19 &<br>Under 20 | 20 &<br>Over |
|-----------------------|--------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------|
| <b>Total</b>          | 90,853 | 13                | 15,025           | 16,237           | 17,423           | 19,381           | 11,712           | 8,373            | 2,080            | 513              | 96           |
| Secondary 1           |        |                   |                  |                  |                  |                  |                  |                  |                  |                  |              |
| Special               | 1,341  | 1                 | 1,289            | 31               | 18               | 2                | -                | -                | -                | -                | -            |
| Express               | 10,042 | 11                | 8,914            | 588              | 477              | 46               | 5                | 1                | -                | -                | -            |
| Normal                | 7,567  | 1                 | 4,814            | 1,435            | 1,260            | 46               | 11               | -                | -                | -                | -            |
| Secondary 2           |        |                   |                  |                  |                  |                  |                  |                  |                  |                  |              |
| Special               | 1,305  | -                 | -                | 1,271            | 28               | 6                | -                | -                | -                | -                | -            |
| Express               | 10,007 | -                 | 8                | 8,881            | 509              | 531              | 65               | 12               | 1                | -                | -            |
| Normal                | 6,723  | -                 | -                | 4,010            | 1,425            | 1,227            | 50               | 8                | 2                | -                | 1            |
| Secondary 3           |        |                   |                  |                  |                  |                  |                  |                  |                  |                  |              |
| Special               | 1,349  | -                 | -                | 3                | 1,269            | 64               | 13               | -                | -                | -                | -            |
| Express               | 10,342 | -                 | -                | 18               | 8,738            | 1,013            | 503              | 53               | 15               | 2                | -            |
| Normal                | 6,552  | -                 | -                | -                | 3,689            | 1,765            | 1,033            | 57               | 8                | -                | -            |
| Secondary 4           |        |                   |                  |                  |                  |                  |                  |                  |                  |                  |              |
| Special               | 1,180  | -                 | -                | -                | -                | 1,122            | 48               | 9                | 1                | -                | -            |
| Express               | 11,374 | -                 | -                | -                | 10               | 9,479            | 1,254            | 584              | 31               | 14               | 2            |
| Normal                | 6,819  | -                 | -                | -                | -                | 4,064            | 1,557            | 1,119            | 58               | 18               | 3            |
| Secondary 5           |        |                   |                  |                  |                  |                  |                  |                  |                  |                  |              |
| Normal                | 5,430  | -                 | -                | -                | -                | -                | 3,046            | 1,644            | 706              | 29               | 5            |
| Pre-University 1      | 614    | -                 | -                | -                | -                | -                | 308              | 212              | 88               | 6                | -            |
| Pre-University 2      | 688    | -                 | -                | -                | -                | -                | -                | 323              | 256              | 102              | 7            |
| Pre-University 3      | 574    | -                 | -                | -                | -                | -                | -                | -                | 284              | 223              | 67           |
| Junior College 1      | 4,455  | -                 | -                | -                | -                | 16               | 3,809            | 518              | 104              | 6                | 2            |
| Junior College 2      | 4,491  | -                 | -                | -                | -                | -                | 10               | 3,833            | 526              | 113              | 9            |

Source : Ministry of Education

**15.6 ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED SECONDARY SCHOOLS BY LEVEL AND AGE, END JUNE 1992**  
**b) Females**

| Age<br>Level & Course |  | Number |                   |                  |                  |                  |                  |                  |                  |                  |                  |              |
|-----------------------|--|--------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------|
|                       |  | Total  | Under 12<br>Years | 12 &<br>Under 13 | 13 &<br>Under 14 | 14 &<br>Under 15 | 15 &<br>Under 16 | 16 &<br>Under 17 | 17 &<br>Under 18 | 18 &<br>Under 19 | 19 &<br>Under 20 | 20 &<br>Over |
| Total                 |  | 89,642 | 5                 | 14,473           | 16,018           | 16,769           | 18,660           | 11,661           | 8,691            | 2,605            | 647              | 113          |
| Secondary 1           |  |        |                   |                  |                  |                  |                  |                  |                  |                  |                  |              |
| Special               |  | 1,178  | -                 | 1,143            | 28               | 7                | -                | -                | -                | -                | -                | -            |
| Express               |  | 9,947  | 5                 | 9,118            | 515              | 282              | 22               | 4                | 1                | -                | -                | -            |
| Normal                |  | 6,430  | -                 | 4,197            | 1,299            | 908              | 23               | 2                | 1                | -                | -                | -            |
| Secondary 2           |  |        |                   |                  |                  |                  |                  |                  |                  |                  |                  |              |
| Special               |  | 1,119  | -                 | 2                | 1,090            | 21               | 5                | 1                | -                | -                | -                | -            |
| Express               |  | 10,514 | -                 | 12               | 9,576            | 508              | 383              | 32               | 3                | -                | -                | -            |
| Normal                |  | 5,517  | -                 | 1                | 3,503            | 1,141            | 838              | 30               | 3                | 1                | -                | -            |
| Secondary 3           |  |        |                   |                  |                  |                  |                  |                  |                  |                  |                  |              |
| Special               |  | 1,201  | -                 | -                | -                | 1,151            | 36               | 12               | 2                | -                | -                | -            |
| Express               |  | 10,653 | -                 | -                | 7                | 9,388            | 886              | 335              | 30               | 7                | -                | -            |
| Normal                |  | 5,670  | -                 | -                | -                | 3,350            | 1,462            | 824              | 28               | 5                | -                | 1            |
| Secondary 4           |  |        |                   |                  |                  |                  |                  |                  |                  |                  |                  |              |
| Special               |  | 1,136  | -                 | -                | -                | -                | 1,106            | 26               | 3                | 1                | -                | -            |
| Express               |  | 11,433 | -                 | -                | -                | 13               | 10,146           | 862              | 383              | 21               | 8                | -            |
| Normal                |  | 5,942  | -                 | -                | -                | -                | 3,749            | 1,313            | 840              | 33               | 7                | -            |
| Secondary 5           |  |        |                   |                  |                  |                  |                  |                  |                  |                  |                  |              |
| Normal                |  | 5,061  | -                 | -                | -                | -                | -                | 3,132            | 1,287            | 617              | 21               | 4            |
| Pre-University 1      |  | 1,210  | -                 | -                | -                | -                | -                | 722              | 375              | 110              | 3                | -            |
| Pre-University 2      |  | 1,306  | -                 | -                | -                | -                | -                | 2                | 775              | 405              | 118              | 6            |
| Pre-University 3      |  | 1,370  | -                 | -                | -                | -                | -                | -                | 1                | 858              | 417              | 94           |
| Junior College 1      |  | 4,916  | -                 | -                | -                | -                | 4                | 4,360            | 474              | 75               | 3                | -            |
| Junior College 2      |  | 5,039  | -                 | -                | -                | -                | -                | 4                | 4,485            | 472              | 70               | 8            |

Source : Ministry of Education



**15.7 ENROLMENT AT PRIMARY LEVELS IN PRIVATE REGULAR SCHOOLS  
BY LEVEL AND AGE, END JUNE 1992**

Number

| Age       |           | Total   | Under 7<br>Years | 7 &<br>Under 8 | 8 &<br>Under 9 | 9 &<br>Under 10 | 10 &<br>Under 11 | 11 &<br>Under 12 | 12 &<br>Under 13 | 13 &<br>Under 14 | 14 &<br>Under 15 | 15 &<br>Over |   |
|-----------|-----------|---------|------------------|----------------|----------------|-----------------|------------------|------------------|------------------|------------------|------------------|--------------|---|
| Level     |           |         |                  |                |                |                 |                  |                  |                  |                  |                  |              |   |
|           |           | Males   |                  |                |                |                 |                  |                  |                  |                  |                  |              |   |
|           | Total     | 80      | 4                | 3              | 3              | 4               | 5                | 11               | 7                | 12               | 14               | 17           |   |
|           | Primary 1 | 4       | 4                | -              | -              | -               | -                | -                | -                | -                | -                | -            |   |
|           | Primary 2 | 4       | -                | 3              | -              | -               | 1                | -                | -                | -                | -                | -            |   |
|           | Primary 3 | 6       | -                | -              | 3              | 2               | -                | -                | 1                | -                | -                | -            |   |
|           | Primary 4 | 13      | -                | -              | -              | 1               | 3                | 4                | 3                | 1                | -                | 1            |   |
|           | Primary 5 | 13      | -                | -              | -              | 1               | 1                | 1                | 3                | 5                | 1                | 1            |   |
|           | Primary 6 | 40      | -                | -              | -              | -               | -                | 6                | -                | 6                | 13               | 15           |   |
|           |           | Females |                  |                |                |                 |                  |                  |                  |                  |                  |              |   |
|           | Total     | 54      | 2                | 2              | 3              | 8               | 4                | 4                | 6                | 1                | 9                | 15           |   |
|           | Primary 1 | 2       | 2                | -              | -              | -               | -                | -                | -                | -                | -                | -            | - |
|           | Primary 2 | 2       | -                | 2              | -              | -               | -                | -                | -                | -                | -                | -            | - |
|           | Primary 3 | 4       | -                | -              | 2              | 2               | -                | -                | -                | -                | -                | -            | - |
| Primary 4 | 7         | -       | -                | 1              | 5              | 1               | -                | -                | -                | -                | -                | -            |   |
| Primary 5 | 10        | -       | -                | -              | 1              | 3               | -                | 4                | 1                | -                | -                | 1            |   |
| Primary 6 | 29        | -       | -                | -              | -              | -               | 4                | 2                | -                | 9                | -                | 14           |   |

Source : Ministry of Education

**15.8 ENROLMENT AT SECONDARY LEVELS IN PRIVATE REGULAR SCHOOLS  
BY LEVEL AND AGE, END JUNE 1992**

| Age              |                  | Number |                  |                  |                  |                  |                  |                  |                  |                  |                  |              |
|------------------|------------------|--------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------|
| Level            |                  | Total  | 11 &<br>Under 12 | 12 &<br>Under 13 | 13 &<br>Under 14 | 14 &<br>Under 15 | 15 &<br>Under 16 | 16 &<br>Under 17 | 17 &<br>Under 18 | 18 &<br>Under 19 | 19 &<br>Under 20 | 20 &<br>Over |
|                  | Males            |        |                  |                  |                  |                  |                  |                  |                  |                  |                  |              |
|                  | Total            | 665    | -                | 3                | 6                | 45               | 55               | 66               | 114              | 171              | 141              | 64           |
|                  | Secondary 1      | 87     | -                | 3                | 3                | 39               | 23               | 11               | 6                | 2                | -                | -            |
|                  | Secondary 2      | 69     | -                | -                | 3                | 4                | 20               | 25               | 11               | 4                | 2                | -            |
|                  | Secondary 3      | 39     | -                | -                | -                | 2                | 3                | 10               | 12               | 7                | 3                | 2            |
|                  | Secondary 4      | 47     | -                | -                | -                | -                | 9                | 1                | 9                | 22               | 5                | 1            |
|                  | Pre-University 1 | 187    | -                | -                | -                | -                | -                | 19               | 64               | 59               | 31               | 14           |
|                  | Pre-University 2 | 229    | -                | -                | -                | -                | -                | -                | 12               | 77               | 97               | 43           |
|                  | Pre-University 3 | 7      | -                | -                | -                | -                | -                | -                | -                | -                | 3                | 4            |
|                  | Females          |        |                  |                  |                  |                  |                  |                  |                  |                  |                  |              |
|                  | Total            | 989    | -                | 2                | 11               | 50               | 63               | 98               | 199              | 276              | 183              | 107          |
|                  | Secondary 1      | 92     | -                | 2                | 6                | 44               | 25               | 7                | 6                | 2                | -                | -            |
|                  | Secondary 2      | 83     | -                | -                | 5                | 5                | 34               | 22               | 13               | 3                | 1                | -            |
|                  | Secondary 3      | 63     | -                | -                | -                | 1                | 3                | 14               | 19               | 17               | 8                | 1            |
|                  | Secondary 4      | 50     | -                | -                | -                | -                | 1                | 4                | 12               | 16               | 8                | 9            |
|                  | Pre-University 1 | 325    | -                | -                | -                | -                | -                | 51               | 118              | 92               | 41               | 23           |
|                  | Pre-University 2 | 299    | -                | -                | -                | -                | -                | -                | 30               | 117              | 91               | 61           |
| Pre-University 3 | 77               | -      | -                | -                | -                | -                | -                | 1                | 29               | 34               | 13               |              |

Source : Ministry of Education



# 15.9 ENROLMENT IN INSTITUTIONS OF HIGHER LEARNING, 1982-1992

Number

| Year | Total <sup>1</sup> |         | National University <sup>2</sup><br>of Singapore |                    | Nanyang Technological University <sup>3</sup> |         | Singapore Polytechnic |         |
|------|--------------------|---------|--------------------------------------------------|--------------------|-----------------------------------------------|---------|-----------------------|---------|
|      | Males              | Females | Males                                            | Females            | Males                                         | Females | Males                 | Females |
| 1982 | 17,169             | 9,791   | 6,231                                            | 5,740              | 525                                           | 57      | 7,714                 | 2,033   |
| 1983 | 19,295             | 11,850  | 6,213                                            | 6,830              | 1,147                                         | 120     | 8,523                 | 2,386   |
| 1984 | 22,582             | 13,361  | 6,567                                            | 7,329              | 1,715                                         | 230     | 9,565                 | 2,789   |
| 1985 | 25,075             | 14,838  | 7,299                                            | 7,694              | 1,825                                         | 253     | 9,965                 | 2,880   |
| 1986 | 26,470             | 15,847  | 7,840                                            | 7,944              | 1,900                                         | 302     | 10,022                | 2,885   |
| 1987 | 27,812             | 17,164  | 7,737                                            | 7,229              | 2,454                                         | 1,486   | 10,529                | 3,224   |
| 1988 | 28,664             | 18,325  | 8,254                                            | 7,945              | 2,650                                         | 1,751   | 10,479                | 3,553   |
| 1989 | 30,368             | 20,374  | 8,303                                            | 8,309              | 3,357                                         | 2,125   | 10,676                | 4,059   |
| 1990 | 32,692             | 22,980  | 8,718                                            | 8,658              | 4,265                                         | 2,700   | 10,921                | 4,632   |
| 1991 | 34,928             | 25,441  | 8,339                                            | 8,580              | 5,937                                         | 3,189   | 11,162                | 5,404   |
| 1992 | 37,691             | 28,084  | 8,719 <sup>p</sup>                               | 8,822 <sup>p</sup> | 6,968                                         | 3,661   | 11,662                | 6,084   |

<sup>1</sup> Include part-time students.

<sup>2</sup> Include enrolment for both undergraduate and postgraduate courses.

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

# 15.9 ENROLMENT IN INSTITUTIONS OF HIGHER LEARNING, 1982-1992 (continued)

| Year | Number               |         |                     |         |                     |         |                                              |         |                                            |         |
|------|----------------------|---------|---------------------|---------|---------------------|---------|----------------------------------------------|---------|--------------------------------------------|---------|
|      | Ngee Ann Polytechnic |         | Temasek Polytechnic |         | Nanyang Polytechnic |         | National Institute of Education <sup>3</sup> |         | College of Physical Education <sup>3</sup> |         |
|      | Males                | Females | Males               | Females | Males               | Females | Males                                        | Females | Males                                      | Females |
| 1982 | 2,507                | 1,153   | -                   | -       | -                   | -       | 192                                          | 808     | -                                          | -       |
| 1983 | 3,175                | 1,650   | -                   | -       | -                   | -       | 237                                          | 864     | -                                          | -       |
| 1984 | 4,545                | 2,374   | -                   | -       | -                   | -       | 163                                          | 619     | 27                                         | 20      |
| 1985 | 5,718                | 3,047   | -                   | -       | -                   | -       | 216                                          | 909     | 52                                         | 55      |
| 1986 | 6,426                | 3,510   | -                   | -       | -                   | -       | 226                                          | 1,140   | 56                                         | 66      |
| 1987 | 6,821                | 4,037   | -                   | -       | -                   | -       | 218                                          | 1,121   | 53                                         | 67      |
| 1988 | 7,066                | 4,213   | -                   | -       | -                   | -       | 172                                          | 802     | 43                                         | 61      |
| 1989 | 7,667                | 4,704   | -                   | -       | -                   | -       | 296                                          | 1,117   | 69                                         | 60      |
| 1990 | 8,180                | 5,111   | 175                 | 531     | -                   | -       | 348                                          | 1,283   | 85                                         | 65      |
| 1991 | 8,610                | 5,668   | 465                 | 1,003   | -                   | -       | 415                                          | 1,597   | -                                          | -       |
| 1992 | 8,954                | 5,863   | 778                 | 1,490   | 123                 | 563     | 487                                          | 1,601   | -                                          | -       |

Source : Ministry of Education



15.10 MALE STUDENTS ADMITTED TO INSTITUTIONS OF HIGHER LEARNING, 1982/83-1992/93

|                                                             |         | Number  |         |         |         |         |         |         |         |         |         |
|-------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Course \ Session                                            | 1982/83 | 1983/84 | 1984/85 | 1985/86 | 1986/87 | 1987/88 | 1988/89 | 1989/90 | 1990/91 | 1991/92 | 1992/93 |
| Total                                                       | 6,702   | 7,060   | 8,902   | 8,967   | 8,373   | 9,035   | 9,177   | 10,155  | 11,006  | 11,216  | 12,451  |
| National University of Singapore (NUS) <sup>1</sup>         | 1,913   | 1,683   | 2,224   | 2,346   | 2,316   | 2,160   | 2,646   | 2,470   | 2,623   | 1,985   | 1,953   |
| Arts & Social Sciences                                      | 237     | 172     | 223     | 242     | 262     | 238     | 321     | 313     | 391     | 410     | 357     |
| Science <sup>2</sup>                                        | 298     | 281     | 411     | 369     | 473     | 443     | 578     | 543     | 609     | 584     | 668     |
| Medicine                                                    | 147     | 134     | 157     | 143     | 128     | 102     | 97      | 99      | 100     | 97      | 115     |
| Dentistry                                                   | 22      | 23      | 35      | 29      | 22      | 21      | 24      | 23      | 25      | 28      | 19      |
| Law                                                         | 67      | 94      | 107     | 113     | 105     | 109     | 116     | 97      | 91      | 100     | 83      |
| Business Administration                                     | 171     | 123     | 141     | 199     | 196     | 171     | 204     | 207     | 219     | 278     | 141     |
| Accountancy <sup>3</sup>                                    | 91      | 81      | 101     | 122     | 134     | -       | -       | -       | -       | -       | -       |
| Architecture, Building<br>& Estate Management               | 112     | 114     | 173     | 143     | 121     | 100     | 84      | 101     | 115     | 118     | 140     |
| Engineering                                                 | 768     | 661     | 876     | 986     | 875     | 976     | 1,222   | 1,067   | 1,073   | 370     | 430     |
| Nanyang Technological University (NTU) <sup>4 &amp; 5</sup> | 132     | 153     | 153     | 140     | 102     | 322     | 336     | 756     | 1,061   | 1,831   | 2,127   |
| Engineering <sup>5</sup>                                    | 132     | 153     | 153     | 140     | 102     | 129     | 134     | 345     | 441     | 1,112   | 1,251   |
| Accountancy <sup>3</sup>                                    | -       | -       | -       | -       | -       | 193     | 202     | 223     | 318     | 313     | 298     |
| Business                                                    | -       | -       | -       | -       | -       | -       | -       | 65      | 110     | 142     | 234     |
| Computer Technology                                         | -       | -       | -       | -       | -       | -       | -       | 123     | 192     | 216     | 274     |
| Materials Engineering                                       | -       | -       | -       | -       | -       | -       | -       | -       | -       | 35      | 33      |
| Arts with Diploma in Education                              | -       | -       | -       | -       | -       | -       | -       | -       | -       | 7       | 24      |
| Science with Diploma in Education                           | -       | -       | -       | -       | -       | -       | -       | -       | -       | 6       | 13      |
| National Institute of Education (NIE) <sup>6</sup>          | -       | -       | -       | -       | -       | -       | -       | -       | -       | 189     | 386     |
| Institute of Education <sup>6</sup>                         | 149     | 176     | 129     | 199     | 144     | 197     | 183     | 236     | 268     | -       | -       |
| College of Physical Education <sup>6 &amp; 7</sup>          | -       | -       | 25      | 26      | 25      | 25      | 17      | 51      | 45      | -       | -       |

1 Cover undergraduates only.

2 Include Pharmacy.

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

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

5 Exclude second year engineering students transferred from NUS. No more streaming from NUS into 2nd year from 1992/93 onwards.

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

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

**15.10 MALE STUDENTS ADMITTED TO INSTITUTIONS OF HIGHER LEARNING, 1982/83 -1992/93 (continued)**

|                                                        |  | Number  |         |         |         |         |         |         |         |         |         |         |
|--------------------------------------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Session                                                |  | 1982/83 | 1983/84 | 1984/85 | 1985/86 | 1986/87 | 1987/88 | 1988/89 | 1989/90 | 1990/91 | 1991/92 | 1992/93 |
| Course                                                 |  |         |         |         |         |         |         |         |         |         |         |         |
| Singapore Polytechnic <sup>8</sup>                     |  | 3,335   | 3,700   | 4,109   | 3,820   | 3,510   | 3,846   | 3,482   | 3,715   | 3,891   | 3,962   | 4,367   |
| Engineering                                            |  | 2,745   | 3,017   | 3,519   | 3,333   | 3,140   | 3,409   | 2,984   | 3,148   | 3,197   | 3,297   | 3,449   |
| Architecture & Building                                |  | 414     | 450     | 416     | 351     | 229     | 198     | 213     | 226     | 219     | 155     | 278     |
| Nautical                                               |  | 120     | 105     | 87      | 71      | 71      | 83      | 62      | 75      | 114     | 153     | 171     |
| Business Administration <sup>9</sup>                   |  | 56      | 128     | 87      | 65      | 70      | 106     | 100     | 207     | 192     | 230     | 284     |
| Computer <sup>10</sup>                                 |  | -       | -       | -       | -       | -       | 50      | 123     | 59      | 169     | 127     | 185     |
| Ngee Ann Polytechnic <sup>11</sup>                     |  | 1,173   | 1,348   | 2,262   | 2,436   | 2,276   | 2,485   | 2,513   | 2,927   | 2,936   | 2,918   | 3,115   |
| Engineering                                            |  | 951     | 1,081   | 1,985   | 2,159   | 1,908   | 2,128   | 2,215   | 2,564   | 2,646   | 2,582   | 2,652   |
| Business Studies & Accountancy                         |  | 165     | 192     | 167     | 228     | 301     | 279     | 220     | 254     | 209     | 247     | 293     |
| Computer Studies                                       |  | 57      | 75      | 110     | 49      | 67      | 78      | 78      | 99      | 71      | 72      | 135     |
| Mass Communication                                     |  | -       | -       | -       | -       | -       | -       | -       | 10      | 10      | 17      | 35      |
| Temasek Polytechnic <sup>12</sup>                      |  | -       | -       | -       | -       | -       | -       | -       | -       | 182     | 331     | 381     |
| Business                                               |  | -       | -       | -       | -       | -       | -       | -       | -       | 79      | 121     | 103     |
| Design                                                 |  | -       | -       | -       | -       | -       | -       | -       | -       | 103     | 53      | 78      |
| Science & Technology                                   |  | -       | -       | -       | -       | -       | -       | -       | -       | -       | 157     | -       |
| Information Technology & Applied Science <sup>13</sup> |  | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | 72      |
| Engineering                                            |  | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | 128     |
| Nanyang Polytechnic <sup>14</sup>                      |  | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | 122     |
| Business                                               |  | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | 84      |
| Health Sciences                                        |  | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | 38      |

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

8 Include part-time students.

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

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

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

12 Temasek Polytechnic was established in April 1990.

13 Include part-time students enrolled in full-time equivalent diploma course which was introduced in 1992/93.

14 Nanyang Polytechnic was established in April 1992.



15.11 FEMALE STUDENTS ADMITTED TO INSTITUTIONS OF HIGHER LEARNING, 1982/83 -1992/93

|                                                             |  | Number  |         |         |         |         |         |         |         |         |         |         |
|-------------------------------------------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Course \ Session                                            |  | 1982/83 | 1983/84 | 1984/85 | 1985/86 | 1986/87 | 1987/88 | 1988/89 | 1989/90 | 1990/91 | 1991/92 | 1992/93 |
| Total                                                       |  | 4,203   | 4,902   | 5,090   | 5,585   | 5,820   | 6,461   | 6,738   | 7,731   | 8,921   | 9,283   | 10,761  |
| National University of Singapore (NUS) <sup>1</sup>         |  | 2,024   | 2,478   | 2,217   | 2,308   | 2,581   | 2,326   | 2,691   | 2,589   | 2,430   | 2,319   | 2,588   |
| Arts & Social Sciences                                      |  | 661     | 781     | 686     | 719     | 785     | 773     | 979     | 971     | 955     | 941     | 1,029   |
| Science <sup>2</sup>                                        |  | 461     | 521     | 501     | 538     | 598     | 689     | 685     | 744     | 772     | 741     | 736     |
| Medicine                                                    |  | 53      | 68      | 49      | 57      | 61      | 79      | 73      | 61      | 50      | 53      | 35      |
| Dentistry                                                   |  | 15      | 14      | 8       | 9       | 16      | 14      | 10      | 11      | 9       | 7       | 15      |
| Law                                                         |  | 94      | 103     | 105     | 87      | 130     | 87      | 84      | 99      | 108     | 103     | 117     |
| Business Administration                                     |  | 269     | 397     | 353     | 292     | 332     | 337     | 456     | 485     | 302     | 264     | 423     |
| Accountancy <sup>3</sup>                                    |  | 296     | 342     | 326     | 334     | 400     | -       | -       | -       | -       | -       | -       |
| Architecture, Building<br>& Estate Management               |  | 106     | 125     | 108     | 115     | 106     | 126     | 164     | 144     | 170     | 145     | 131     |
| Engineering                                                 |  | 69      | 127     | 86      | 157     | 153     | 221     | 240     | 74      | 64      | 65      | 102     |
| Nanyang Technological University (NTU) <sup>4 &amp; 5</sup> |  | 18      | 20      | 26      | 28      | 19      | 449     | 535     | 783     | 1,121   | 1,197   | 1,236   |
| Engineering <sup>5</sup>                                    |  | 18      | 20      | 26      | 28      | 19      | 24      | 26      | 124     | 161     | 142     | 139     |
| Accountancy <sup>3</sup>                                    |  | -       | -       | -       | -       | -       | 425     | 509     | 485     | 415     | 391     | 420     |
| Business                                                    |  | -       | -       | -       | -       | -       | -       | -       | 140     | 474     | 471     | 429     |
| Computer Technology                                         |  | -       | -       | -       | -       | -       | -       | -       | 34      | 71      | 73      | 25      |
| Materials Engineering                                       |  | -       | -       | -       | -       | -       | -       | -       | -       | -       | 14      | 27      |
| Arts with Diploma in Education                              |  | -       | -       | -       | -       | -       | -       | -       | -       | -       | 82      | 170     |
| Science with Diploma in Education                           |  | -       | -       | -       | -       | -       | -       | -       | -       | -       | 24      | 26      |
| National Institute of Education (NIE) <sup>6</sup>          |  | -       | -       | -       | -       | -       | -       | -       | -       | -       | 888     | 1,250   |
| Institute of Education <sup>6</sup>                         |  | 741     | 503     | 418     | 737     | 778     | 671     | 570     | 734     | 877     | -       | -       |
| College of Physical Education <sup>6 &amp; 7</sup>          |  | -       | -       | 20      | 36      | 30      | 35      | 25      | 33      | 37      | -       | -       |

Note : See notes to Table 15.10.

15.11 FEMALE STUDENTS ADMITTED TO INSTITUTIONS OF HIGHER LEARNING, 1982/83-1992/93 (continued)

|                                                        |         | Number  |         |         |         |         |         |         |         |         |         |         |
|--------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Course                                                 | Session | 1982/83 | 1983/84 | 1984/85 | 1985/86 | 1986/87 | 1987/88 | 1988/89 | 1989/90 | 1990/91 | 1991/92 | 1992/93 |
| Singapore Polytechnic <sup>8</sup>                     |         | 859     | 997     | 1,189   | 1,000   | 895     | 1,316   | 1,405   | 1,633   | 1,882   | 2,180   | 2,395   |
| Engineering                                            |         | 553     | 625     | 790     | 727     | 721     | 836     | 797     | 928     | 1,061   | 1,199   | 1,222   |
| Architecture & Building                                |         | 302     | 343     | 347     | 222     | 101     | 119     | 122     | 148     | 188     | 210     | 255     |
| Nautical                                               |         | -       | -       | -       | -       | -       | -       | -       | 1       | 1       | 20      | 23      |
| Business Administration <sup>9</sup>                   |         | 4       | 29      | 52      | 51      | 73      | 239     | 333     | 476     | 468     | 580     | 701     |
| Computer <sup>10</sup>                                 |         | -       | -       | -       | -       | -       | 122     | 153     | 80      | 164     | 171     | 194     |
| Ngee Ann Polytechnic <sup>11</sup>                     |         | 561     | 904     | 1,220   | 1,476   | 1,517   | 1,664   | 1,512   | 1,959   | 2,024   | 2,157   | 2,110   |
| Engineering                                            |         | 179     | 303     | 528     | 611     | 474     | 540     | 543     | 700     | 764     | 816     | 807     |
| Business Studies & Accountancy                         |         | 319     | 436     | 582     | 765     | 865     | 934     | 801     | 973     | 952     | 1,021   | 988     |
| Computer Studies                                       |         | 63      | 165     | 110     | 100     | 178     | 190     | 168     | 228     | 228     | 232     | 226     |
| Mass Communication                                     |         | -       | -       | -       | -       | -       | -       | -       | 58      | 80      | 88      | 89      |
| Temasek Polytechnic <sup>12</sup>                      |         | -       | -       | -       | -       | -       | -       | -       | -       | 550     | 542     | 605     |
| Business                                               |         | -       | -       | -       | -       | -       | -       | -       | -       | 341     | 305     | 345     |
| Design                                                 |         | -       | -       | -       | -       | -       | -       | -       | -       | 209     | 93      | 109     |
| Science & Technology                                   |         | -       | -       | -       | -       | -       | -       | -       | -       | -       | 144     | -       |
| Information Technology & Applied Science <sup>13</sup> |         | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | 109     |
| Engineering                                            |         | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | 42      |
| Nanyang Polytechnic <sup>14</sup>                      |         | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | 577     |
| Business                                               |         | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | 300     |
| Health Sciences                                        |         | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | 277     |

Note : See notes to Table 15.10.

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



## 15.12 MALE GRADUATES FROM INSTITUTIONS OF HIGHER LEARNING, 1981/82-1991/92

Number

| Session<br>Course                                   | 1981/82 | 1982/83 | 1983/84 | 1984/85 | 1985/86 | 1986/87 | 1987/88 | 1988/89 | 1989/90 | 1990/91 | 1991/92 |
|-----------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                                                     |         |         |         |         |         |         |         |         |         |         |         |
| <b>Total</b>                                        | 3,736   | 4,085   | 4,749   | 5,140   | 5,827   | 6,847   | 7,347   | 7,406   | 7,634   | 7,998   | 8,704   |
| National University of Singapore (NUS) <sup>1</sup> | 1,254   | 1,397   | 1,583   | 1,337   | 1,384   | 1,584   | 1,631   | 1,836   | 1,694   | 1,856   | 1,926   |
| Arts & Social Sciences                              | 209     | 224     | 239     | 280     | 249     | 281     | 291     | 325     | 317     | 372     | 407     |
| Science <sup>2</sup>                                | 293     | 270     | 219     | 313     | 345     | 432     | 414     | 526     | 518     | 625     | 609     |
| Medicine                                            | 77      | 83      | 105     | 82      | 103     | 155     | 113     | 164     | 151     | 114     | 119     |
| Dentistry                                           | 11      | 27      | 23      | 12      | 20      | 23      | 26      | 34      | 17      | 10      | 27      |
| Law                                                 | 36      | 31      | 52      | 60      | 71      | 82      | 100     | 113     | 88      | 107     | 115     |
| Business Administration                             | 139     | 145     | 161     | 178     | 140     | 151     | 201     | 209     | 192     | 222     | 211     |
| Accountancy                                         | 96      | 91      | 80      | 73      | 81      | 99      | -       | -       | -       | -       | -       |
| Architecture, Building<br>& Estate Management       | 91      | 112     | 155     | 146     | 130     | 152     | 180     | 148     | 143     | 120     | 99      |
| Engineering                                         | 302     | 414     | 549     | 193     | 245     | 209     | 306     | 317     | 268     | 286     | 339     |
| Nanyang Technological University (NTU) <sup>3</sup> | -       | -       | -       | 501     | 597     | 560     | 736     | 794     | 823     | 921     | 1,248   |
| Engineering                                         | -       | -       | -       | 501     | 597     | 560     | 616     | 664     | 642     | 724     | 869     |
| Accountancy                                         | -       | -       | -       | -       | -       | -       | 120     | 130     | 181     | 197     | 208     |
| Business                                            | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | 60      |
| Computer Technology                                 | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | 111     |
| National Institute of Education (NIE) <sup>4</sup>  | -       | -       | -       | -       | -       | -       | -       | -       | -       | 76      | 289     |
| Institute of Education <sup>4</sup>                 | 152     | 138     | 184     | 126     | 152     | 155     | 186     | 166     | 229     | 121     | -       |
| College of Physical Education <sup>4 &amp; 5</sup>  | -       | -       | -       | -       | -       | 3       | 7       | 5       | 45      | 69      | -       |

1 Cover first degree graduates only.

2 Include Pharmacy.

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

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

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

15.12 MALE GRADUATES FROM INSTITUTIONS OF HIGHER LEARNING, 1981/82-1991/92 (continued)

| Session<br><br>Course                |  | Number  |         |         |         |         |         |         |         |         |         |         |
|--------------------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                                      |  | 1981/82 | 1982/83 | 1983/84 | 1984/85 | 1985/86 | 1986/87 | 1987/88 | 1988/89 | 1989/90 | 1990/91 | 1991/92 |
| Singapore Polytechnic <sup>6</sup>   |  | 1,838   | 1,965   | 2,148   | 2,223   | 2,527   | 2,776   | 2,909   | 2,825   | 3,016   | 3,000   | 3,104   |
| Engineering                          |  | 1,536   | 1,598   | 1,694   | 1,811   | 2,037   | 2,397   | 2,464   | 2,412   | 2,644   | 2,562   | 2,576   |
| Architecture & Building              |  | 274     | 262     | 287     | 291     | 324     | 234     | 317     | 268     | 184     | 206     | 190     |
| Nautical                             |  | 28      | 67      | 106     | 79      | 80      | 35      | 30      | 32      | 27      | 32      | 42      |
| Business Administration <sup>7</sup> |  | -       | 38      | 61      | 42      | 86      | 55      | 39      | 47      | 94      | 110     | 165     |
| Computer <sup>8</sup>                |  | -       | -       | -       | -       | -       | 55      | 59      | 66      | 67      | 90      | 131     |
| Ngee Ann Polytechnic <sup>6</sup>    |  | 492     | 585     | 834     | 953     | 1,167   | 1,769   | 1,878   | 1,780   | 1,827   | 1,920   | 2,105   |
| Engineering                          |  | 421     | 483     | 665     | 781     | 919     | 1,511   | 1,675   | 1,553   | 1,592   | 1,692   | 1,852   |
| Business Studies & Accountancy       |  | 71      | 102     | 124     | 151     | 169     | 160     | 149     | 180     | 189     | 158     | 180     |
| Computer Studies                     |  | -       | -       | 45      | 21      | 79      | 98      | 54      | 47      | 46      | 70      | 68      |
| Mass Communication                   |  | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | 5       |
| Temasek Polytechnic <sup>9</sup>     |  | -       | -       | -       | -       | -       | -       | -       | -       | -       | 35      | 32      |
| Business                             |  | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |
| Design                               |  | -       | -       | -       | -       | -       | -       | -       | -       | -       | 35      | 32      |

6 Include graduates from part-time courses.

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

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

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

9 Temasek Polytechnic was established in April 1990.

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



15.13 FEMALE GRADUATES FROM INSTITUTIONS OF HIGHER LEARNING, 1981/82-1991/92

| Session<br>Course                                  | Number  |         |         |         |         |         |         |         |         |         |         |
|----------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                                                    | 1981/82 | 1982/83 | 1983/84 | 1984/85 | 1985/86 | 1986/87 | 1987/88 | 1988/89 | 1989/90 | 1990/91 | 1991/92 |
| <b>Total</b>                                       | 2,783   | 2,866   | 3,583   | 3,815   | 4,591   | 5,036   | 5,235   | 5,409   | 6,077   | 6,554   | 7,595   |
| National University of Singapore(NUS) <sup>1</sup> | 1,141   | 1,508   | 1,826   | 2,117   | 2,476   | 2,390   | 1,993   | 2,150   | 2,307   | 2,584   | 2,689   |
| Arts & Social Sciences                             | 414     | 541     | 600     | 766     | 873     | 828     | 808     | 887     | 876     | 1,080   | 1,104   |
| Science <sup>2</sup>                               | 284     | 393     | 507     | 541     | 600     | 580     | 568     | 640     | 760     | 706     | 728     |
| Medicine                                           | 51      | 44      | 58      | 55      | 47      | 45      | 56      | 60      | 56      | 53      | 78      |
| Dentistry                                          | 11      | 16      | 21      | 15      | 15      | 17      | 2       | 10      | 11      | 10      | 10      |
| Law                                                | 37      | 49      | 54      | 67      | 89      | 90      | 108     | 84      | 122     | 88      | 79      |
| Business Administration                            | 134     | 188     | 229     | 286     | 391     | 367     | 303     | 343     | 341     | 453     | 479     |
| Accountancy                                        | 125     | 201     | 265     | 291     | 330     | 311     | -       | -       | -       | -       | -       |
| Architecture, Building<br>& Estate Management      | 38      | 49      | 56      | 77      | 113     | 118     | 124     | 93      | 109     | 144     | 158     |
| Engineering                                        | 47      | 27      | 36      | 19      | 18      | 34      | 24      | 33      | 32      | 50      | 53      |
| Nanyang Technological University(NTU) <sup>3</sup> | -       | -       | -       | 56      | 64      | 104     | 386     | 522     | 510     | 626     | 768     |
| Engineering                                        | -       | -       | -       | 56      | 64      | 104     | 79      | 115     | 119     | 156     | 175     |
| Accountancy                                        | -       | -       | -       | -       | -       | -       | 307     | 407     | 391     | 470     | 443     |
| Business                                           | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | 118     |
| Computer Technology                                | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | 32      |
| National Institute of Education (NIE) <sup>4</sup> | -       | -       | -       | -       | -       | -       | -       | -       | -       | 307     | 934     |
| Institute of Education <sup>4</sup>                | 797     | 454     | 683     | 408     | 570     | 649     | 757     | 581     | 683     | 410     | -       |
| College of Physical Education <sup>4 &amp; 5</sup> | -       | -       | -       | 1       | 2       | 2       | 7       | 8       | 36      | 43      | -       |

Note : See notes to Table 15.12.

15.13 FEMALE GRADUATES FROM INSTITUTIONS OF HIGHER LEARNING, 1981/82-1991/92 (continued)

| Session<br><br>Course                |  | Number  |         |         |         |         |         |         |         |         |         |         |
|--------------------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                                      |  | 1981/82 | 1982/83 | 1983/84 | 1984/85 | 1985/86 | 1986/87 | 1987/88 | 1988/89 | 1989/90 | 1990/91 | 1991/92 |
| Singapore Polytechnic <sup>6</sup>   |  | 586     | 561     | 615     | 644     | 714     | 950     | 911     | 941     | 1,184   | 1,231   | 1,489   |
| Engineering                          |  | 355     | 325     | 382     | 435     | 520     | 662     | 588     | 671     | 753     | 706     | 787     |
| Architecture & Building              |  | 231     | 233     | 229     | 205     | 168     | 172     | 211     | 109     | 113     | 108     | 116     |
| Nautical                             |  | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |
| Business Administration <sup>7</sup> |  | -       | 3       | 4       | 4       | 26      | 37      | 41      | 73      | 227     | 316     | 435     |
| Computer <sup>8</sup>                |  | -       | -       | -       | -       | -       | 79      | 71      | 88      | 91      | 101     | 151     |
| Ngee Ann Polytechnic <sup>6</sup>    |  | 259     | 343     | 459     | 589     | 765     | 941     | 1,181   | 1,207   | 1,357   | 1,299   | 1,660   |
| Engineering                          |  | 105     | 141     | 126     | 141     | 246     | 422     | 496     | 406     | 435     | 422     | 563     |
| Business Studies & Accountancy       |  | 154     | 202     | 273     | 366     | 405     | 418     | 546     | 649     | 781     | 698     | 865     |
| Computer Studies                     |  | -       | -       | 60      | 82      | 114     | 101     | 139     | 152     | 141     | 179     | 186     |
| Mass Communication                   |  | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | 46      |
| Temasek Polytechnic <sup>9</sup>     |  | -       | -       | -       | -       | -       | -       | -       | -       | -       | 54      | 55      |
| Business                             |  | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |
| Design                               |  | -       | -       | -       | -       | -       | -       | -       | -       | -       | 54      | 55      |

Note : See notes to Table 15.12.

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



## 15.14 INTAKE OF TRAINEES OF INSTITUTE OF TECHNICAL EDUCATION, 1988-1992

Number

| Course Level                                          | 1988   |        |         | 1989   |        |         | 1990   |        |         | 1991   |        |         | 1992   |        |         |
|-------------------------------------------------------|--------|--------|---------|--------|--------|---------|--------|--------|---------|--------|--------|---------|--------|--------|---------|
|                                                       | Total  | Males  | Females | Total  | Males  | Females | Total  | Males  | Females | Total  | Males  | Females | Total  | Males  | Females |
| <b>Total</b>                                          | 27,473 | 21,726 | 5,747   | 29,066 | 22,922 | 6,144   | 29,507 | 23,350 | 6,157   | 30,012 | 24,103 | 5,909   | 29,102 | 23,232 | 5,870   |
| Full-time                                             | 10,294 | 6,526  | 3,768   | 9,982  | 6,307  | 3,675   | 9,221  | 5,869  | 3,352   | 8,969  | 5,627  | 3,342   | 8,743  | 5,516  | 3,227   |
| Part-time                                             | 17,179 | 15,200 | 1,979   | 19,084 | 16,615 | 2,469   | 20,286 | 17,481 | 2,805   | 21,043 | 18,476 | 2,567   | 20,359 | 17,716 | 2,643   |
| Diploma in Applied Arts <sup>1</sup>                  | 108    | 42     | 66      | 106    | 36     | 70      | -      | -      | -       | -      | -      | -       | -      | -      | -       |
| Full-time                                             | 108    | 42     | 66      | 106    | 36     | 70      | -      | -      | -       | -      | -      | -       | -      | -      | -       |
| Industrial Technician Certificate                     | 1,751  | 1,506  | 245     | 1,708  | 1,482  | 226     | 1,871  | 1,622  | 249     | 1,857  | 1,666  | 191     | 1,927  | 1,713  | 214     |
| Full-time                                             | 1,336  | 1,125  | 211     | 1,343  | 1,141  | 202     | 1,410  | 1,207  | 203     | 1,326  | 1,161  | 165     | 1,404  | 1,232  | 172     |
| Part-time                                             | 415    | 381    | 34      | 365    | 341    | 24      | 461    | 415    | 46      | 531    | 505    | 26      | 523    | 481    | 42      |
| Certificate in Business Studies                       | 1,040  | 164    | 876     | 1,098  | 172    | 926     | 1,077  | 160    | 917     | 1,135  | 164    | 971     | 1,104  | 177    | 927     |
| Full-time                                             | 1,040  | 164    | 876     | 1,098  | 172    | 926     | 1,077  | 160    | 917     | 1,135  | 164    | 971     | 1,104  | 177    | 927     |
| National Technical Certificate (Grade 2) <sup>2</sup> | 5,987  | 5,650  | 337     | 5,790  | 5,442  | 348     | 5,992  | 5,588  | 404     | 6,412  | 5,983  | 429     | 5,964  | 5,524  | 440     |
| Full-time                                             | 1,346  | 1,229  | 117     | 1,301  | 1,175  | 126     | 1,370  | 1,273  | 97      | 1,289  | 1,228  | 61      | 1,290  | 1,235  | 55      |
| Part-time                                             | 4,641  | 4,421  | 220     | 4,489  | 4,267  | 222     | 4,622  | 4,315  | 307     | 5,123  | 4,755  | 368     | 4,674  | 4,289  | 385     |
| Certificate in Office Skills <sup>3</sup>             | 1,529  | 193    | 1,336   | 1,418  | 169    | 1,249   | 1,367  | 145    | 1,222   | 1,219  | 101    | 1,118   | 1,204  | 127    | 1,077   |
| Full-time                                             | 1,529  | 193    | 1,336   | 1,418  | 169    | 1,249   | 1,367  | 145    | 1,222   | 1,219  | 101    | 1,118   | 1,204  | 127    | 1,077   |

# 15.14 INTAKE OF TRAINEES OF INSTITUTE OF TECHNICAL EDUCATION, 1988-1992 (continued)

| Course Level                                                                                            | 1988   |        |         | 1989   |        |         | 1990   |        |         | 1991   |        |         | 1992   |        |         | Number |
|---------------------------------------------------------------------------------------------------------|--------|--------|---------|--------|--------|---------|--------|--------|---------|--------|--------|---------|--------|--------|---------|--------|
|                                                                                                         | Total  | Males  | Females | Total  | Males  | Females | Total  | Males  | Females | Total  | Males  | Females | Total  | Males  | Females |        |
| National Technical Certificate (Grade 3) <sup>2</sup> / Certificate of Vocational Training <sup>4</sup> | 2,507  | 1,920  | 587     | 4,716  | 3,614  | 1,102   | 3,997  | 3,084  | 913     | 4,000  | 2,973  | 1,027   | 3,741  | 2,745  | 996     |        |
| Full-time                                                                                               | 2,507  | 1,920  | 587     | 4,716  | 3,614  | 1,102   | 3,997  | 3,084  | 913     | 4,000  | 2,973  | 1,027   | 3,741  | 2,745  | 996     |        |
| National Technical Certificate (Grade 3) <sup>2</sup>                                                   | 11,943 | 10,308 | 1,635   | 13,415 | 11,433 | 1,982   | 14,474 | 12,317 | 2,157   | 14,981 | 12,900 | 2,081   | 14,534 | 12,515 | 2,019   |        |
| Part-time                                                                                               | 11,943 | 10,308 | 1,635   | 13,415 | 11,433 | 1,982   | 14,474 | 12,317 | 2,157   | 14,981 | 12,900 | 2,081   | 14,534 | 12,515 | 2,019   |        |
| Pre-Vocational Training <sup>4</sup>                                                                    | 2,428  | 1,853  | 575     | -      | -      | -       | -      | -      | -       | -      | -      | -       | -      | -      | -       |        |
| Full-time                                                                                               | 2,428  | 1,853  | 575     | -      | -      | -       | -      | -      | -       | -      | -      | -       | -      | -      | -       |        |
| Certificate of Competency                                                                               | 66     | 62     | 4       | 197    | 191    | 6       | 186    | 180    | 6       | 107    | 107    | -       | 289    | 287    | 2       |        |
| Part-time                                                                                               | 66     | 62     | 4       | 197    | 191    | 6       | 186    | 180    | 6       | 107    | 107    | -       | 289    | 287    | 2       |        |
| Ad hoc                                                                                                  | 114    | 28     | 86      | 618    | 383    | 235     | 543    | 254    | 289     | 301    | 209    | 92      | 339    | 144    | 195     |        |
| Part-time                                                                                               | 114    | 28     | 86      | 618    | 383    | 235     | 543    | 254    | 289     | 301    | 209    | 92      | 339    | 144    | 195     |        |

1 Transferred to the Temasek Polytechnic with effect from July 1990.

2 Prior to April 1992, it was known as National Trade Certificate.

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

4 In January 1989, the former Pre-Vocational Training course was replaced by the Basic Vocational Training (BVT) 1st Year. It is no longer considered as a terminal programme. It is now the 1st year programme of a 3-year course leading to the award of the National Technical Certificate-Grade 3 or the new Certificate of Vocational Training. The Certificate of Vocational Training is awarded to female trainees who opt for the BVT-2nd year non-technical option and successfully complete another year in a Work-Based programme.

Source : Institute of Technical Education



# 15.15 TRAINEES WHO COMPLETED TRAINING AT INSTITUTE OF TECHNICAL EDUCATION, 1988-1992

Number

| Course Level                              | 1988   |        |         | 1989   |        |         | 1990   |        |         | 1991   |        |         | 1992   |        |         |
|-------------------------------------------|--------|--------|---------|--------|--------|---------|--------|--------|---------|--------|--------|---------|--------|--------|---------|
|                                           | Total  | Males  | Females | Total  | Males  | Females | Total  | Males  | Females | Total  | Males  | Females | Total  | Males  | Females |
| <b>Total</b>                              | 26,026 | 20,756 | 5,270   | 26,911 | 21,539 | 5,372   | 27,425 | 21,775 | 5,650   | 27,644 | 22,418 | 5,226   | 26,930 | 21,558 | 5,372   |
| Full-time                                 | 9,025  | 5,749  | 3,276   | 7,532  | 4,695  | 2,837   | 7,469  | 4,580  | 2,889   | 6,968  | 4,294  | 2,674   | 6,910  | 4,150  | 2,760   |
| Part-time                                 | 17,001 | 15,007 | 1,994   | 19,379 | 16,844 | 2,535   | 19,956 | 17,195 | 2,761   | 20,676 | 18,124 | 2,552   | 20,020 | 17,408 | 2,612   |
| Diploma in Applied Arts <sup>1</sup>      | 78     | 20     | 58      | 78     | 24     | 54      | 82     | 36     | 46      | -      | -      | -       | -      | -      | -       |
| Full-time                                 | 78     | 20     | 58      | 78     | 24     | 54      | 82     | 36     | 46      | -      | -      | -       | -      | -      | -       |
| Industrial Technician                     |        |        |         |        |        |         |        |        |         |        |        |         |        |        |         |
| Certificate                               | 827    | 672    | 155     | 1,062  | 915    | 147     | 1,172  | 991    | 181     | 1,164  | 1,008  | 156     | 1,231  | 1,067  | 164     |
| Full-time                                 | 700    | 557    | 143     | 923    | 781    | 142     | 1,025  | 846    | 179     | 1,000  | 855    | 145     | 1,047  | 894    | 153     |
| Part-time                                 | 127    | 115    | 12      | 139    | 134    | 5       | 147    | 145    | 2       | 164    | 153    | 11      | 184    | 173    | 11      |
| Certificate in Business                   |        |        |         |        |        |         |        |        |         |        |        |         |        |        |         |
| Studies                                   | 645    | 87     | 558     | 629    | 101    | 528     | 744    | 113    | 631     | 831    | 114    | 717     | 859    | 105    | 754     |
| Full-time                                 | 645    | 87     | 558     | 629    | 101    | 528     | 744    | 113    | 631     | 831    | 114    | 717     | 859    | 105    | 754     |
| National Technical                        |        |        |         |        |        |         |        |        |         |        |        |         |        |        |         |
| Certificate (Grade 2) <sup>2</sup>        | 5,347  | 5,028  | 319     | 5,700  | 5,317  | 383     | 5,861  | 5,415  | 446     | 6,473  | 5,969  | 504     | 6,123  | 5,576  | 547     |
| Full-time                                 | 737    | 638    | 99      | 1,133  | 986    | 147     | 1,239  | 1,100  | 139     | 1,350  | 1,214  | 136     | 1,449  | 1,287  | 162     |
| Part-time                                 | 4,610  | 4,390  | 220     | 4,567  | 4,331  | 236     | 4,622  | 4,315  | 307     | 5,123  | 4,755  | 368     | 4,674  | 4,289  | 385     |
| Certificate in Office Skills <sup>3</sup> | 1,431  | 131    | 1,300   | 1,381  | 148    | 1,233   | 1,245  | 110    | 1,135   | 1,184  | 107    | 1,077   | 1,103  | 69     | 1,034   |
| Full-time                                 | 1,431  | 131    | 1,300   | 1,381  | 148    | 1,233   | 1,245  | 110    | 1,135   | 1,184  | 107    | 1,077   | 1,103  | 69     | 1,034   |
| National Technical                        |        |        |         |        |        |         |        |        |         |        |        |         |        |        |         |
| Certificate (Grade 3) <sup>2</sup>        | 15,370 | 13,075 | 2,295   | 17,027 | 14,296 | 2,731   | 17,214 | 14,692 | 2,522   | 17,367 | 14,904 | 2,463   | 16,743 | 14,310 | 2,433   |
| Full-time                                 | 3,302  | 2,678  | 624     | 3,388  | 2,655  | 733     | 2,740  | 2,375  | 365     | 2,386  | 2,004  | 382     | 2,209  | 1,795  | 414     |
| Part-time                                 | 12,068 | 10,397 | 1,671   | 13,639 | 11,641 | 1,998   | 14,474 | 12,317 | 2,157   | 14,981 | 12,900 | 2,081   | 14,534 | 12,515 | 2,019   |
| Certificate of Vocational                 |        |        |         |        |        |         |        |        |         |        |        |         |        |        |         |
| Training <sup>4</sup>                     | -      | -      | -       | -      | -      | -       | 394    | -      | 394     | 217    | -      | 217     | 243    | -      | 243     |
| Full-time                                 | -      | -      | -       | -      | -      | -       | 394    | -      | 394     | 217    | -      | 217     | 243    | -      | 243     |
| Pre-Vocational Training <sup>4</sup>      | 2,132  | 1,638  | 494     | -      | -      | -       | -      | -      | -       | -      | -      | -       | -      | -      | -       |
| Full-time                                 | 2,132  | 1,638  | 494     | -      | -      | -       | -      | -      | -       | -      | -      | -       | -      | -      | -       |
| Certificate of Competency                 | 56     | 56     | -       | 197    | 191    | 6       | 170    | 164    | 6       | 107    | 107    | -       | 289    | 287    | 2       |
| Part-time                                 | 56     | 56     | -       | 197    | 191    | 6       | 170    | 164    | 6       | 107    | 107    | -       | 289    | 287    | 2       |
| Ad hoc                                    | 140    | 49     | 91      | 837    | 547    | 290     | 543    | 254    | 289     | 301    | 209    | 92      | 339    | 144    | 195     |
| Part-time                                 | 140    | 49     | 91      | 837    | 547    | 290     | 543    | 254    | 289     | 301    | 209    | 92      | 339    | 144    | 195     |

Note : See notes to Table 15.14.

Source : Institute of Technical Education

# 15.16 GOVERNMENT EXPENDITURE ON EDUCATION, 1982/83-1992/93

Thousand Dollars

|                                                                        | 1982/83   | 1983/84   | 1984/85   | 1985/86   | 1986/87   | 1987/88   | 1988/89   | 1989/90   | 1990/91   | 1991/92   | 1992/93 <sup>1</sup> |
|------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|
| <b>Total</b>                                                           | 1,358,430 | 1,611,647 | 1,769,728 | 1,775,580 | 1,638,767 | 1,653,956 | 1,604,302 | 1,765,065 | 2,055,073 | 2,816,373 | 2,668,671            |
| <b>Recurrent Expenditure</b>                                           | 983,751   | 1,107,113 | 1,272,559 | 1,388,325 | 1,277,288 | 1,352,551 | 1,461,858 | 1,619,760 | 1,794,521 | 2,356,796 | 2,066,671            |
| Primary Schools                                                        | 337,339   | 357,249   | 403,915   | 422,806   | 384,044   | 392,741   | 446,713   | 497,385   | 531,475   | 551,040   | 578,343              |
| Secondary Schools &<br>Junior Colleges                                 | 323,163   | 348,200   | 392,387   | 431,866   | 402,396   | 424,465   | 486,226   | 533,091   | 570,968   | 597,506   | 633,251              |
| Institute of Technical Education                                       | 47,401    | 55,121    | 65,662    | 80,294    | 68,966    | 64,191    | 72,857    | 79,551    | 84,300    | 87,580    | 91,600               |
| Tertiary                                                               | 229,057   | 291,782   | 350,152   | 387,224   | 362,813   | 413,541   | 393,298   | 434,842   | 526,477   | 1,038,782 | 634,859              |
| National University of Singapore<br>& Nanyang Technological University | 156,435   | 197,947   | 240,448   | 253,811   | 240,805   | 293,443   | 259,014   | 288,571   | 351,476   | 841,154   | 397,400              |
| National Institute of Education                                        | 17,746    | 18,817    | 21,268    | 22,979    | 19,883    | 20,843    | 21,072    | 19,395    | 23,591    | 27,620    | 34,909               |
| Polytechnics                                                           | 54,876    | 75,018    | 88,436    | 110,434   | 102,125   | 99,255    | 113,212   | 126,876   | 151,410   | 170,008   | 202,550              |
| Others <sup>1</sup>                                                    | 46,791    | 54,761    | 60,443    | 66,135    | 59,069    | 57,613    | 62,764    | 74,891    | 81,301    | 81,888    | 128,618              |
| <b>Development Expenditure</b>                                         | 374,679   | 504,534   | 497,169   | 387,255   | 361,479   | 301,405   | 142,444   | 145,305   | 260,552   | 459,577   | 602,000              |

<sup>1</sup> Include Curriculum Development Institute of Singapore, Extra Curricular Activities Centre, Institute of Southeast Asian Studies, Science Centre Board and headquarters expenditure.

Source : Ministry of Education



## 16 HEALTH AND MEDICAL CARE

There are 12 public sector hospitals of which 6 are general hospitals providing accident and emergency services and multi-disciplinary treatment, and 6 specialist hospitals providing specialist treatment in obstetrics and gynaecology, ophthalmology, psychiatry, dermatology, venereology and infectious diseases. In addition, there are 10 private hospitals catering to the medical needs of the people.

The Primary Health Care Services which include Community Health (CHS), Maternal & Child Health (MCH) and School Health Services (SHS) are provided at 18 community health clinics and 17 maternal and child health clinics. The community health clinics offer general and curative treatment while maternal and child health clinics concentrate on preventive health care for women of child-bearing age and

Primary Health Care Services

on the station area of Benin City. There are 18 community health clinics and 17 maternal and child health clinics. The community health clinics offer general and curative treatment while maternal and child health clinics concentrate on preventive health care for women of child-bearing age and

Medical Personnel

The health services provided by the government is very comprehensive. The Ministry of Health is responsible for the development of health services, the maintenance of public health standards, the development of health programmes and preventive measures, the provision of treatment and hospital services and family planning services to the public sector. In addition, the Ministry provides family planning and population services to private and voluntary organizations and individuals. It is also responsible for the development of health services and the provision of health services to the public sector.

## 16 HEALTH AND MEDICAL CARE

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

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

### Primary Health Care Services

The Primary Health Care Services which include Community Health (CHS), Maternal & Child Health (M&CH) and School Health Services (SHS) are provided at 19 community health clinics and 17 maternal and child health clinics. The community health clinics offer general and curative treatment while maternal and child health clinics concentrate on preventive health care for women of child-bearing age and

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

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

### Hospital Services

There are 12 public sector hospitals of which 6 are general hospitals providing accident and emergency services and multi-disciplinary treatment, and 6 specialist hospitals providing specialist treatment in obstetrics and gynaecology, ophthalmology, psychiatry, dermatology, venereology and infectious diseases. In addition, there are 10 private hospitals catering to the medical needs of the people.



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

### **Other Medical and Supporting Services**

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

### **Dental Services**

The Dental Services provide curative and preventive dental treatment at 184 dental clinics located at the various hospitals, community/maternal and child health clinics and schools. Data on attendances at dental clinics are obtained

from the administrative and patient registration records of the clinics.

### **Medical Personnel**

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

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

# 16.1 HOSPITALS AND GOVERNMENT CLINICS, 1982-1992

Number

| Year | Hospitals |                                         |                             | Government<br>Dental<br>Clinics <sup>2</sup> | Community<br>Health<br>Clinics | Maternal &<br>Child Health<br>Clinics |
|------|-----------|-----------------------------------------|-----------------------------|----------------------------------------------|--------------------------------|---------------------------------------|
|      | Total     | Public Sector<br>Hospitals <sup>1</sup> | Private Sector<br>Hospitals |                                              |                                |                                       |
| 1982 | 26        | 13                                      | 13                          | 137                                          | 26                             | 29                                    |
| 1983 | 23        | 11                                      | 12                          | 160                                          | 26                             | 29                                    |
| 1984 | 22        | 11                                      | 11                          | 162                                          | 26                             | 29                                    |
| 1985 | 22        | 11                                      | 11                          | 176                                          | 26                             | 29                                    |
| 1986 | 22        | 11                                      | 11                          | 183                                          | 26                             | 28                                    |
| 1987 | 21        | 10                                      | 11                          | 183                                          | 24                             | 23                                    |
| 1988 | 21        | 10                                      | 11                          | 191                                          | 21                             | 20                                    |
| 1989 | 20        | 10                                      | 10                          | 193                                          | 21                             | 19                                    |
| 1990 | 21        | 11                                      | 10                          | 192                                          | 21                             | 18                                    |
| 1991 | 22        | 11                                      | 11                          | 185                                          | 22                             | 17                                    |
| 1992 | 22        | 12                                      | 10                          | 184                                          | 19                             | 17                                    |

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

2 Include dental clinics in schools.

Source : Ministry of Health



# 16.2 REGISTERED HEALTH PERSONNEL, 1982-1992

Number

| Year | Doctors             |         |                        | Dentists <sup>1</sup> |         |                        | Pharmacists         |         |                                     | State Registered Nurses |         |                        | State Enrolled Nurses |         |                        | Midwives            |         |                        |
|------|---------------------|---------|------------------------|-----------------------|---------|------------------------|---------------------|---------|-------------------------------------|-------------------------|---------|------------------------|-----------------------|---------|------------------------|---------------------|---------|------------------------|
|      | Public <sup>2</sup> | Private | Not in active practice | Public <sup>2</sup>   | Private | Not in active practice | Public <sup>2</sup> | Private | Not in active practice <sup>3</sup> | Public <sup>2</sup>     | Private | Not in active practice | Public <sup>2</sup>   | Private | Not in active practice | Public <sup>2</sup> | Private | Not in active practice |
| 1982 | 1,001               | 1,143   | 81                     | 180                   | 213     | 9                      | 59                  | 314     | -                                   | 2,884                   | 1,356   | 813                    | 2,017                 | 187     | 222                    | 503                 | 79      | 138                    |
| 1983 | 1,047               | 1,249   | 65                     | 174                   | 248     | 14                     | 58                  | 329     | -                                   | 3,205                   | 1,567   | 764                    | 1,690                 | 236     | 219                    | 437                 | 88      | 149                    |
| 1984 | 1,109               | 1,294   | 101                    | 165                   | 294     | 16                     | 58                  | 351     | -                                   | 3,241                   | 1,656   | 795                    | 1,673                 | 253     | 212                    | 407                 | 73      | 172                    |
| 1985 | 1,214               | 1,307   | 110                    | 159                   | 326     | 11                     | 55                  | 381     | -                                   | 3,613                   | 1,835   | 838                    | 1,569                 | 316     | 222                    | 377                 | 83      | 163                    |
| 1986 | 1,337               | 1,348   | 96                     | 157                   | 341     | 28                     | 58                  | 396     | -                                   | 3,540                   | 2,038   | 813                    | 1,579                 | 365     | 235                    | 356                 | 86      | 161                    |
| 1987 | 1,420               | 1,413   | 106                    | 160                   | 379     | 18                     | 59                  | 428     | -                                   | 3,374                   | 2,203   | 861                    | 1,602                 | 421     | 262                    | 352                 | 92      | 144                    |
| 1988 | 1,551               | 1,496   | 115                    | 164                   | 411     | 18                     | 75                  | 421     | 30                                  | 3,871                   | 1,847   | 870                    | 1,665                 | 432     | 272                    | 343                 | 92      | 134                    |
| 1989 | 1,720               | 1,538   | 139                    | 184                   | 440     | 19                     | 93                  | 433     | 31                                  | 3,935                   | 1,962   | 881                    | 1,715                 | 464     | 280                    | 332                 | 95      | 123                    |
| 1990 | 1,831               | 1,593   | 149                    | 185                   | 466     | 21                     | 96                  | 452     | 39                                  | 4,238                   | 1,980   | 966                    | 1,612                 | 526     | 373                    | 300                 | 104     | 139                    |
| 1991 | 1,971               | 1,677   | 131                    | 180                   | 479     | 23                     | 112                 | 477     | 40                                  | 4,435                   | 2,119   | 1,016                  | 1,695                 | 575     | 393                    | 289                 | 100     | 140                    |
| 1992 | 1,985               | 1,813   | 164                    | 175                   | 503     | 28                     | 126                 | 515     | 36                                  | 4,596                   | 2,250   | 1,129                  | 1,605                 | 616     | 437                    | 281                 | 108     | 141                    |

Source : Ministry of Health

1 Refer to those with professional degrees only.

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

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

# 16.3 BEDS IN PUBLIC SECTOR HOSPITALS, 1982-1992

Number

|                                            | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  |
|--------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Total</b>                               | 8,246 | 8,222 | 8,085 | 8,329 | 8,274 | 8,191 | 7,893 | 7,852 | 7,922 | 7,892 | 7,833 |
| Alexandra Hospital                         | 545   | 545   | 545   | 560   | 560   | 554   | 523   | 520   | 397   | 397   | 399   |
| Changi Hospital                            | 202   | 203   | 203   | 203   | 144   | 144   | 144   | 144   | 144   | 144   | 144   |
| Sembawang Hospital <sup>1</sup>            | 62    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| Singapore General Hospital <sup>2</sup>    | 1,500 | 1,593 | 1,656 | 1,671 | 1,650 | 1,621 | 1,488 | 1,479 | 1,663 | 1,664 | 1,660 |
| Tan Tock Seng Hospital <sup>3</sup>        | 1,324 | 1,274 | 1,274 | 1,434 | 1,407 | 1,410 | 1,445 | 1,432 | 1,432 | 1,362 | 1,133 |
| Communicable Disease Centre <sup>4</sup>   | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 214   |
| Toa Payoh Hospital <sup>5</sup>            | 410   | 410   | 410   | 410   | 410   | 410   | 410   | 407   | 350   | 357   | 357   |
| Kandang Kerbau Hospital <sup>5</sup>       | 687   | 681   | 681   | 681   | 561   | 561   | 510   | 440   | 490   | 516   | 514   |
| St Andrew's Hospital <sup>6</sup>          | 80    | 80    | 80    | 80    | 80    | -     | -     | -     | -     | -     | -     |
| Middle Road Hospital <sup>7</sup>          | 44    | 44    | 44    | 44    | 35    | 35    | -     | -     | -     | -     | -     |
| Middleton Hospital <sup>8</sup>            | 228   | 228   | 228   | -     | -     | -     | -     | -     | -     | -     | -     |
| Woodbridge Hospital <sup>9</sup>           | 2,914 | 2,914 | 2,714 | 2,714 | 2,714 | 2,654 | 2,500 | 2,500 | 2,500 | 2,500 | 2,460 |
| View Road Hospital                         | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   |
| National University Hospital <sup>10</sup> | -     | -     | -     | 282   | 463   | 552   | 623   | 680   | 696   | 702   | 702   |

1 Closed with effect from 31 March 1983.

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

3 Restructured with effect from 1 April 1992.

4 Operating as a separate government entity from Tan Tock Seng Hospital with effect from 1 April 1992.

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

6 Closed with effect from 31 December 1987.

7 Closed with effect from 9 December 1988.

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

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

10 Started functioning from 24 June 1985.

Source : Ministry of Health



# 16.4 BEDS IN PRIVATE SECTOR HOSPITALS, 1982-1992

Number

|                                             | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  |
|---------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Total</b>                                | 1,583 | 1,637 | 1,602 | 1,671 | 1,837 | 1,836 | 1,837 | 1,792 | 1,837 | 1,909 | 1,893 |
| Gleneagles Hospital                         | 121   | 121   | 127   | 127   | 127   | 126   | 130   | 132   | 132   | 132   | 151   |
| Jurong Hospital <sup>1</sup>                | 40    | 40    | 40    | 40    | 40    | 40    | 40    | 40    | 40    | 40    | -     |
| Mt Alvernia Hospital                        | 304   | 304   | 304   | 304   | 304   | 304   | 304   | 304   | 321   | 321   | 276   |
| East Shore Hospital <sup>2</sup>            | 149   | 149   | 149   | 149   | 149   | 149   | 145   | 137   | 135   | 145   | 145   |
| Youngberg Hospital                          | 68    | 68    | 55    | 55    | 38    | 38    | 38    | 20    | 40    | 40    | 40    |
| Adam Road Hospital <sup>3</sup>             | 45    | 45    | 45    | 45    | 45    | 45    | 45    | 45    | 60    | 60    | 60    |
| Kwong Wai Shiu Hospital                     | 425   | 425   | 425   | 505   | 505   | 505   | 454   | 454   | 454   | 454   | 454   |
| Shenton Medical Centre <sup>4</sup>         | 15    | 18    | 18    | 18    | 16    | 16    | 16    | 15    | 10    | 10    | -     |
| Thomson Medical Centre                      | 96    | 96    | 96    | 108   | 108   | 108   | 160   | 160   | 160   | 158   | 160   |
| Mt Elizabeth Hospital                       | 282   | 337   | 323   | 300   | 485   | 485   | 485   | 485   | 485   | 485   | 485   |
| Eye Clinic <sup>5</sup>                     | 20    | 20    | 20    | 20    | 20    | 20    | 20    | -     | -     | -     | -     |
| Gentle Nursing & Health Centre <sup>6</sup> | 18    | 14    | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| Balestier Medical Centre <sup>7</sup>       | -     | -     | -     | -     | -     | -     | -     | -     | -     | 64    | 62    |
| St Andrew's Community Hospital <sup>8</sup> | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 60    |

Source : Ministry of Health

1 Closed with effect from 19 October 1992.

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

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

4 Known as Shenton Nursing Home prior to November 1991.

Functioned as an outpatient clinic with effect from 1 January 1992.

5 Closed with effect from 31 December 1989.

6 Closed with effect from 1 February 1984.

7 Opened with effect from 1 October 1991.

8 Opened with effect from 19 February 1992.

# 16.5 ADMISSIONS TO PUBLIC SECTOR HOSPITALS, 1982-1992

Number

|                                            | 1982    | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    | 1991    | 1992    |
|--------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>Total</b>                               | 233,683 | 226,991 | 230,138 | 232,988 | 237,014 | 247,659 | 265,380 | 257,407 | 259,541 | 259,752 | 265,535 |
| Alexandra Hospital                         | 32,459  | 31,553  | 33,898  | 33,255  | 30,145  | 29,468  | 29,300  | 26,896  | 20,142  | 19,716  | 18,361  |
| Changi Hospital                            | 3,888   | 4,343   | 3,466   | 3,755   | 3,937   | 3,245   | 3,889   | 4,451   | 4,926   | 4,272   | 4,401   |
| Sembawang Hospital <sup>1</sup>            | 1,058   | 119     | -       | -       | -       | -       | -       | -       | -       | -       | -       |
| Singapore General Hospital <sup>2</sup>    | 60,552  | 60,685  | 62,310  | 64,982  | 65,473  | 73,950  | 83,756  | 80,045  | 80,643  | 84,411  | 84,633  |
| Tan Tock Seng Hospital <sup>3</sup>        | 36,671  | 39,915  | 38,459  | 42,987  | 45,475  | 47,672  | 47,958  | 45,911  | 46,351  | 45,200  | 44,544  |
| Communicable Disease Centre <sup>4</sup>   | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | 2,268   |
| Toa Payoh Hospital <sup>5</sup>            | 29,280  | 29,410  | 29,925  | 29,477  | 28,070  | 26,961  | 27,968  | 26,077  | 22,513  | 21,387  | 21,228  |
| Kandang Kerbau Hospital <sup>5</sup>       | 54,280  | 48,072  | 48,436  | 48,442  | 39,620  | 32,648  | 34,409  | 29,648  | 36,172  | 38,966  | 41,186  |
| St Andrew's Hospital <sup>6</sup>          | 104     | 122     | 174     | 124     | 158     | 140     | -       | -       | -       | -       | -       |
| Middle Road Hospital <sup>7</sup>          | 925     | 820     | 887     | 738     | 767     | 803     | 673     | -       | -       | -       | -       |
| Middleton Hospital <sup>8</sup>            | 9,215   | 6,562   | 6,587   | -       | -       | -       | -       | -       | -       | -       | -       |
| Woodbridge Hospital <sup>9</sup>           | 5,177   | 5,335   | 5,828   | 6,056   | 5,959   | 5,908   | 5,756   | 5,837   | 5,926   | 5,560   | 5,643   |
| View Road Hospital                         | 74      | 55      | 168     | 179     | 130     | 129     | 114     | 127     | 148     | 87      | 146     |
| National University Hospital <sup>10</sup> | -       | -       | -       | 2,993   | 17,280  | 26,735  | 31,557  | 38,415  | 42,720  | 40,153  | 43,125  |

Note : See notes to Table 16.3.

Source : Ministry of Health



# 16.6 HOSPITAL ADMISSIONS AND PUBLIC SECTOR OUTPATIENT ATTENDANCES, 1982-1992

|                                      | Number    |           |           |           |           |           |           |           |           |           |           |
|--------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                      | 1982      | 1983      | 1984      | 1985      | 1986      | 1987      | 1988      | 1989      | 1990      | 1991      | 1992      |
|                                      |           |           |           |           |           |           |           |           |           |           |           |
| Hospital Admissions                  |           |           |           |           |           |           |           |           |           |           |           |
| Total                                | 275,234   | 271,790   | 277,881   | 280,152   | 290,322   | 310,302   | 336,498   | 329,013   | 337,103   | 336,937   | 348,042   |
| Public Sector Hospitals <sup>1</sup> | 233,683   | 226,991   | 230,138   | 232,988   | 237,014   | 247,659   | 265,380   | 257,407   | 259,541   | 259,752   | 265,535   |
| Private Sector Hospitals             | 41,551    | 44,799    | 47,743    | 47,164    | 53,308    | 62,643    | 71,118    | 71,606    | 77,562    | 77,185    | 82,507    |
| Public Sector Outpatient Attendances |           |           |           |           |           |           |           |           |           |           |           |
| Specialist Outpatient Clinics        | 1,238,563 | 1,241,146 | 1,222,817 | 1,246,343 | 1,311,863 | 1,339,712 | 1,386,350 | 1,346,095 | 1,455,985 | 1,578,396 | 1,762,927 |
| Accident & Emergency Departments     | 439,734   | 458,824   | 469,522   | 438,308   | 378,145   | 436,660   | 485,762   | 514,434   | 533,571   | 541,502   | 545,339   |
| Community Health Clinics             | 2,928,976 | 2,662,370 | 2,431,286 | 2,346,344 | 2,344,081 | 2,199,875 | 2,155,640 | 2,072,973 | 2,015,083 | 1,935,380 | 2,108,865 |
| Maternal & Child Health Clinics      | 926,286   | 869,015   | 782,118   | 747,623   | 765,919   | 771,122   | 808,395   | 812,503   | 791,865   | 775,583   | 809,759   |
| Dental Clinics                       | 1,139,698 | 1,175,300 | 1,133,267 | 1,164,031 | 1,165,610 | 1,155,532 | 1,132,513 | 1,142,101 | 1,109,043 | 1,092,143 | 1,082,380 |

<sup>1</sup> Include Government Hospitals, Government Restructured Hospitals and National University Hospital.

Source : Ministry of Health

# 16.7 VISITS TO GOVERNMENT DENTAL CLINICS, 1982-1992

Number

| Year | Total     | Dental Clinics |          |           |
|------|-----------|----------------|----------|-----------|
|      |           | School         | Hospital | Community |
| 1982 | 1,139,698 | 520,969        | 194,589  | 424,140   |
| 1983 | 1,175,300 | 638,307        | 165,355  | 371,638   |
| 1984 | 1,133,267 | 660,597        | 146,949  | 325,721   |
| 1985 | 1,164,031 | 750,157        | 149,332  | 264,542   |
| 1986 | 1,165,610 | 804,504        | 159,999  | 201,107   |
| 1987 | 1,155,532 | 825,484        | 172,056  | 157,992   |
| 1988 | 1,132,513 | 813,119        | 183,160  | 136,234   |
| 1989 | 1,142,101 | 829,625        | 188,649  | 123,827   |
| 1990 | 1,109,043 | 825,279        | 181,284  | 102,480   |
| 1991 | 1,092,143 | 825,318        | 165,778  | 101,047   |
| 1992 | 1,082,380 | 813,405        | 168,945  | 100,030   |

Source : Ministry of Health



# 16.8 NOTIFICATIONS OF SPECIFIC NOTIFIABLE DISEASES, 1982-1992

Number

| Year | Dengue/<br>DHF | Malaria | Enteric<br>Fever <sup>1</sup> | Viral<br>Hepatitis | Cholera | Polio-<br>myelitis | Diphthe-<br>ria | Chicken<br>pox | Viral<br>Encephali-<br>tis | Tuber-<br>culosis  | Leprosy |
|------|----------------|---------|-------------------------------|--------------------|---------|--------------------|-----------------|----------------|----------------------------|--------------------|---------|
| 1982 | 216            | 282     | 174                           | 426                | 31      | 1                  | 6               | 1,283          | 15                         | 2,179              | 61      |
| 1983 | 205            | 219     | 137                           | 626                | 14      | 2                  | 4               | 1,395          | 16                         | 2,065              | 69      |
| 1984 | 86             | 193     | 118                           | 601                | 40      | 2                  | -               | 3,034          | 17                         | 2,143              | 43      |
| 1985 | 126            | 166     | 148                           | 610                | 27      | -                  | -               | 2,879          | 5                          | 1,952              | 57      |
| 1986 | 354            | 180     | 158                           | 730                | 27      | 2                  | 1               | 4,276          | 7                          | 1,760              | 39      |
| 1987 | 436            | 165     | 132                           | 752                | 63      | -                  | 1               | 4,312          | 4                          | 1,616              | 44      |
| 1988 | 245            | 228     | 174                           | 464                | 19      | -                  | -               | 8,711          | 4                          | 1,666              | 39      |
| 1989 | 944            | 203     | 128                           | 439                | 39      | -                  | 1               | 17,087         | 4                          | 1,617              | 48      |
| 1990 | 1,733          | 216     | 231                           | 440                | 26      | -                  | 1               | 18,934         | 4                          | 1,591              | 36      |
| 1991 | 2,179          | 267     | 132                           | 501                | 34      | -                  | 1               | 17,930         | 1                          | 1,841              | 23      |
| 1992 | 2,878          | 221     | 162                           | 596                | 17      | -                  | 1               | 32,060         | 10                         | 1,764 <sup>P</sup> | 41      |

Note : No cases of plague, smallpox and yellow fever were reported during the period.

Source : Ministry of the Environment  
Ministry of Health

<sup>1</sup> Refer to typhoid and paratyphoid.

## 16.9 IMMUNIZATION COVERAGE BY PUBLIC AND PRIVATE SECTORS, 1982-1992

Per Cent

|               | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|---------------|------|------|------|------|------|------|------|------|------|------|------|
| BCG           |      |      |      |      |      |      |      |      |      |      |      |
| National      | 87   | 82   | 95   | 93   | 94   | 98   | 99   | 99   | 99   | 99   | 99   |
| Public        | 80   | 77   | 75   | 73   | 68   | 61   | 57   | 53   | 47   | 46   | 47   |
| Private       | 7    | 5    | 20   | 20   | 26   | 37   | 42   | 46   | 52   | 53   | 52   |
| Diphtheria    |      |      |      |      |      |      |      |      |      |      |      |
| National      | 83   | 84   | 77   | 78   | 91   | 96   | 90   | 90   | 86   | 91   | 90   |
| Public        | 66   | 66   | 63   | 63   | 69   | 59   | 66   | 65   | 63   | 66   | 72   |
| Private       | 17   | 18   | 14   | 15   | 22   | 37   | 24   | 25   | 23   | 25   | 18   |
| Poliomyelitis |      |      |      |      |      |      |      |      |      |      |      |
| National      | 83   | 86   | 81   | 81   | 94   | 95   | 90   | 91   | 86   | 91   | 92   |
| Public        | 68   | 69   | 64   | 63   | 69   | 59   | 66   | 66   | 63   | 66   | 63   |
| Private       | 15   | 17   | 17   | 18   | 25   | 36   | 24   | 25   | 23   | 25   | 29   |
| Measles       |      |      |      |      |      |      |      |      |      |      |      |
| National      | 78   | 88   | 85   | 75   | 85   | 94   | 82   | 77   | 82   | 92   | 89   |
| Public        | 71   | 78   | 73   | 61   | 64   | 63   | 62   | 60   | 60   | 71   | 61   |
| Private       | 7    | 10   | 12   | 14   | 21   | 31   | 20   | 17   | 22   | 21   | 28   |

Source : Ministry of Health



# 16.10 VACCINATION AND IMMUNIZATION OF SCHOOL CHILDREN, 1982-1992

Thousand Doses

|                            | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|
| BCG Vaccination            | 44.5 | 35.2 | 35.4 | 32.9 | 29.2 | 31.2 | 39.0 | 31.5 | 34.5 | 31.8 | 27.7 |
| Diphtheria Tetanus         | 98.0 | 84.7 | 81.2 | 81.8 | 78.5 | 71.0 | 79.2 | 76.2 | 74.5 | 76.4 | 70.2 |
| Poliomyelitis Immunization | 91.6 | 84.2 | 75.6 | 80.4 | 77.1 | 57.0 | 77.4 | 73.6 | 74.0 | 75.7 | 70.1 |
| Rubella                    | 51.2 | 44.6 | 44.9 | 44.5 | 40.0 | 38.2 | 41.7 | 36.4 | 38.0 | 37.2 | 30.7 |

Source: Ministry of Health

# 16.11 STUDENT MEDICAL CHECK-UP, 1982-1992

Thousand

|                                                   | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  |
|---------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Total</b>                                      | 204.0 | 185.0 | 174.3 | 196.6 | 195.6 | 469.6 | 616.3 | 611.1 | 589.7 | 580.0 | 587.9 |
| <b>Category of Students:</b>                      |       |       |       |       |       |       |       |       |       |       |       |
| New Entrants                                      | 39.4  | 42.7  | 38.4  | 39.1  | 39.9  | 39.9  | 40.5  | 40.8  | 39.0  | 40.2  | 41.5  |
| Primary School Leavers<br>and equivalent levels   | 55.7  | 48.3  | 48.8  | 47.2  | 42.9  | 39.7  | 42.7  | 38.3  | 38.5  | 38.9  | 33.2  |
| Secondary School Leavers<br>and equivalent levels | 15.6  | 17.2  | 21.4  | 37.4  | 35.7  | 35.2  | 38.7  | 37.8  | 36.7  | 36.0  | 39.1  |
| Re-examination                                    | 92.6  | 74.5  | 64.0  | 71.7  | 77.2  | 354.8 | 485.6 | 486.6 | 472.6 | 461.8 | 470.6 |
| Others <sup>1</sup>                               | 0.7   | 2.3   | 1.7   | 1.3   | -     | -     | 8.8   | 7.6   | 2.8   | 3.1   | 3.5   |
| <b>Sex of Students:</b>                           |       |       |       |       |       |       |       |       |       |       |       |
| Males                                             | 95.9  | 86.3  | 79.0  | 100.4 | 98.9  | 242.8 | 319.8 | 317.4 | 305.5 | 300.1 | 302.9 |
| Females                                           | 108.1 | 98.7  | 95.3  | 96.2  | 96.7  | 226.8 | 296.5 | 293.7 | 284.2 | 279.9 | 285.0 |

<sup>1</sup> Figures from 1988 refer to Institute of Technical Education and Special School Students.

Source : Ministry of Health



# 16.12 COMMON DEFECTS OF STUDENTS EXAMINED, 1982-1992

|                                         | 1982                        | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  |
|-----------------------------------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Incidence of:                           | Per 10,000 Males Examined   |       |       |       |       |       |       |       |       |       |       |
|                                         |                             |       |       |       |       |       |       |       |       |       |       |
| Defective Vision                        | 3,161                       | 2,690 | 2,786 | 3,490 | 4,062 | 3,598 | 3,824 | 4,062 | 4,106 | 4,243 | 4,407 |
| Obesity - Primary School Entrants       | 250                         | 380   | 622   | 777   | 952   | 1,174 | 1,189 | 1,156 | 1,188 | 1,426 | 1,501 |
| - Primary School Leavers                | 1,064                       | 1,204 | 1,123 | 1,144 | 1,443 | 1,570 | 1,789 | 1,785 | 1,881 | 2,080 | 2,117 |
| - Secondary School Leavers <sup>1</sup> | -                           | -     | -     | -     | -     | 1,271 | 1,320 | 1,385 | 1,401 | 1,634 | 1,719 |
| Scoliosis                               | 78                          | 127   | 331   | 587   | 477   | 538   | 494   | 527   | 505   | 232   | 313   |
| Asthma                                  | na                          | na    | na    | 123   | 295   | 135   | 166   | 129   | 468   | 462   | 445   |
| Phimosis                                | 462                         | 434   | 444   | 493   | 514   | 511   | 426   | 377   | 330   | 301   | 287   |
| Incidence of:                           | Per 10,000 Females Examined |       |       |       |       |       |       |       |       |       |       |
|                                         |                             |       |       |       |       |       |       |       |       |       |       |
| Defective Vision                        | 3,558                       | 3,747 | 3,773 | 4,409 | 4,514 | 3,998 | 4,151 | 4,377 | 4,424 | 4,532 | 4,640 |
| Obesity - Primary School Entrants       | 181                         | 239   | 555   | 650   | 761   | 973   | 1,004 | 938   | 977   | 1,217 | 1,197 |
| - Primary School Leavers                | 944                         | 952   | 757   | 716   | 930   | 1,023 | 1,020 | 1,010 | 1,159 | 1,372 | 1,315 |
| - Secondary School Leavers              | 916                         | 1,442 | 1,019 | 971   | 1,047 | 1,106 | 1,158 | 1,162 | 1,136 | 1,357 | 1,465 |
| Scoliosis                               | 278                         | 529   | 622   | 957   | 852   | 791   | 837   | 896   | 853   | 538   | 637   |
| Asthma                                  | na                          | na    | na    | 80    | 199   | 100   | 101   | 93    | 334   | 308   | 274   |
| Heart Conditions                        | 193                         | 373   | 138   | 201   | 147   | 189   | 182   | 158   | 294   | 229   | 185   |

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

Source: Ministry of Health

# 16.13 BLOOD DONATIONS AND TRANSFUSIONS, 1982-1992

| Year | Donors  | Blood Donations Received |                                    |        |           |                                                        |                                   | Blood Transfusions Given |                                      |                          |
|------|---------|--------------------------|------------------------------------|--------|-----------|--------------------------------------------------------|-----------------------------------|--------------------------|--------------------------------------|--------------------------|
|      |         | Total                    | National Blood Centre <sup>1</sup> | Mobile | Red Cross | National University Hospital Blood Centre <sup>2</sup> | Manulife Static Site <sup>3</sup> | Total                    | Public Sector Hospitals <sup>4</sup> | Private Sector Hospitals |
|      | Persons | Number of Units          |                                    |        |           |                                                        |                                   |                          |                                      |                          |
| 1982 | 39,448  | 59,711                   | 31,595                             | 28,116 | -         | -                                                      | -                                 | 53,408                   | 47,942                               | 5,466                    |
| 1983 | 38,808  | 59,474                   | 31,954                             | 27,520 | -         | -                                                      | -                                 | 52,507                   | 46,869                               | 5,638                    |
| 1984 | 38,350  | 58,018                   | 31,966                             | 24,125 | 1,927     | -                                                      | -                                 | 54,421                   | 48,082                               | 6,339                    |
| 1985 | 39,772  | 59,308                   | 33,627                             | 21,530 | 4,151     | -                                                      | -                                 | 52,411                   | 46,164                               | 6,247                    |
| 1986 | 42,337  | 61,990                   | 34,448                             | 22,041 | 5,501     | -                                                      | -                                 | 56,045                   | 48,804                               | 7,241                    |
| 1987 | 39,654  | 59,985                   | 34,137                             | 20,474 | 5,374     | -                                                      | -                                 | 53,658                   | 46,301                               | 7,357                    |
| 1988 | 39,478  | 57,991                   | 36,814                             | 16,684 | 4,493     | -                                                      | -                                 | 52,617                   | 44,811                               | 7,806                    |
| 1989 | 41,738  | 61,239                   | 35,932                             | 20,736 | 4,115     | 456                                                    | -                                 | 55,096                   | 47,525                               | 7,571                    |
| 1990 | 43,383  | 61,403                   | 36,679                             | 18,934 | 3,098     | 2,692                                                  | -                                 | 57,683                   | 49,186                               | 8,497                    |
| 1991 | 45,302  | 63,691                   | 33,860                             | 22,572 | 3,096     | 4,163                                                  | -                                 | 55,258                   | 47,711                               | 7,547                    |
| 1992 | 42,442  | 60,130                   | 31,959                             | 21,489 | 2,639     | 3,933                                                  | 110                               | 53,465                   | 45,596                               | 7,869                    |

Notes : One unit of blood is approximately 430 millilitres.

Source : Ministry of Health

Figures exclude blood bank in Mt Alvernia Hospital.

1 Formerly known as Blood Transfusion Service.

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

3 Started functioning with effect from 27 October 1992.

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



| Year                 | 1982   | 1983   | 1984   | 1985   | 1986   | 1987   | 1988   | 1989   | 1990   | 1991   | 1992   |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Licensed Hawkers     | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 |
| Food Establishments  | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 |
| Food & Beverage      | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 |
| Food & Drink         | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 |
| Food & Confectionery | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 |
| Food & Bakery        | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 |
| Food & Restaurant    | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 |
| Food & Hotel         | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 |
| Food & Shop          | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 |
| Food & Office        | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 |
| Food & Warehouse     | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 |
| Food & Other         | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 | 10,173 |

## 17 HAWKERS AND FOOD ESTABLISHMENTS

## 17 HAWKERS AND FOOD ESTABLISHMENTS

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

### Licensed Hawkers

The number of licensed hawkers in various types of premises managed by the Ministry of the Environment has

been decreasing over the years because of clearance of several markets and food centres for re-development.

### Licensed Food Establishments

The total number of licensed food establishments has been on the rise over the past decade. Due to the increasing affluence among Singaporeans, there are significant increases in restaurants, snack bars, food factories and supermarkets.



**17.1 LICENSED HAWKERS BY a) TYPE OF PREMISES AND b) TYPE OF GOODS SOLD, 1982-1992**  
(End of Year)

|                           | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | Number<br>1992 |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|
| <b>Total</b>              | 9,818 | 8,406 | 7,580 | 6,775 | 6,479 | 6,254 | 6,095 | 5,813 | 5,358 | 4,689 | 4,475          |
| <b>Type of Premises</b>   |       |       |       |       |       |       |       |       |       |       |                |
| Market/Food Centre        | 7,148 | 6,936 | 6,693 | 6,353 | 6,098 | 5,960 | 5,817 | 5,613 | 5,184 | 4,530 | 4,332          |
| Street Pitch <sup>1</sup> | 2,296 | 1,121 | 576   | 151   | 126   | 56    | 54    | -     | -     | -     | -              |
| Show Case                 | 61    | 57    | 52    | 43    | 38    | 31    | 28    | 26    | 19    | 18    | 18             |
| Itinerant <sup>2</sup>    | 313   | 292   | 259   | 228   | 217   | 207   | 196   | 174   | 155   | 141   | 125            |
| <b>Type of Goods Sold</b> |       |       |       |       |       |       |       |       |       |       |                |
| Market Produce            | 4,158 | 3,560 | 3,242 | 2,906 | 2,776 | 2,642 | 2,532 | 2,420 | 2,198 | 1,856 | 1,785          |
| Cooked Food               | 4,340 | 3,863 | 3,506 | 3,127 | 3,069 | 2,994 | 2,939 | 2,825 | 2,634 | 2,357 | 2,222          |
| Piece & Sundries          | 1,320 | 983   | 832   | 742   | 634   | 618   | 624   | 568   | 526   | 476   | 468            |

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

Source : Ministry of the Environment

1 Phased out by 1989.

2 Hawkers selling ice-cream, cakes or/and bread.

**17.2 LICENSED HAWKERS BY a) MANAGEMENT AUTHORITY AND b) TYPE OF GOODS SOLD, 1982-1992**  
(End of Year)

| Number                      |        |        |        |        |        |        |        |        |        |        |        |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 1982   | 1983   | 1984   | 1985   | 1986   | 1987   | 1988   | 1989   | 1990   | 1991   | 1992   |
| <b>Total</b>                | 17,573 | 18,407 | 18,751 | 19,011 | 18,974 | 18,574 | 18,194 | 17,203 | 16,484 | 16,182 | 15,933 |
| <b>Management Authority</b> |        |        |        |        |        |        |        |        |        |        |        |
| HDB                         | 15,736 | 16,692 | 17,198 | 17,410 | 17,514 | 17,158 | 16,917 | 16,356 | 15,814 | 15,509 | 15,384 |
| JTC                         | 232    | 234    | 231    | 229    | 226    | 228    | 230    | 228    | 226    | 227    | 216    |
| PSA                         | 58     | 58     | 58     | 60     | 75     | 76     | 76     | 76     | 70     | 70     | 72     |
| STPB                        | 29     | 29     | 26     | 29     | 29     | 29     | 29     | 25     | -      | -      | -      |
| Private Market              | 1,518  | 1,394  | 1,238  | 1,283  | 1,130  | 1,083  | 942    | 518    | 374    | 376    | 261    |
| <b>Type of Goods Sold</b>   |        |        |        |        |        |        |        |        |        |        |        |
| Market Produce              | 9,806  | 10,102 | 10,201 | 10,330 | 10,190 | 9,853  | 9,541  | 8,863  | 8,352  | 8,177  | 8,037  |
| Cooked Food                 | 5,856  | 6,073  | 6,274  | 6,352  | 6,401  | 6,352  | 6,309  | 6,119  | 5,963  | 5,880  | 5,786  |
| Piece & Sundries            | 1,911  | 2,232  | 2,276  | 2,329  | 2,383  | 2,369  | 2,344  | 2,221  | 2,169  | 2,125  | 2,110  |

Source : Ministry of the Environment



### 17.3 LICENSED FOOD ESTABLISHMENTS, 1982-1992

| End of Year | Total | Restaurants | Eating Houses | Snack Bars | Canteens |        | Coffee Shops | Food Factories | Super-markets | Number |
|-------------|-------|-------------|---------------|------------|----------|--------|--------------|----------------|---------------|--------|
|             |       |             |               |            | School   | Others |              |                |               | Others |
|             |       |             |               |            |          |        |              |                |               |        |
| 1982        | 6,226 | 585         | 1,530         | 284        | 450      | 1,360  | 231          | 1,042          | 77            | 667    |
| 1983        | 6,401 | 650         | 1,502         | 331        | 445      | 1,355  | 237          | 1,086          | 86            | 709    |
| 1984        | 6,579 | 736         | 1,508         | 404        | 434      | 1,269  | 243          | 1,141          | 115           | 729    |
| 1985        | 6,870 | 767         | 1,603         | 482        | 428      | 1,173  | 261          | 1,206          | 169           | 781    |
| 1986        | 7,254 | 806         | 1,649         | 568        | 449      | 1,105  | 272          | 1,219          | 161           | 1,025  |
| 1987        | 7,645 | 880         | 1,723         | 671        | 447      | 1,137  | 263          | 1,260          | 160           | 1,104  |
| 1988        | 7,820 | 921         | 1,742         | 708        | 420      | 1,113  | 237          | 1,352          | 143           | 1,184  |
| 1989        | 8,025 | 962         | 1,722         | 749        | 399      | 1,132  | 212          | 1,428          | 141           | 1,280  |
| 1990        | 8,240 | 1,125       | 1,670         | 754        | 400      | 1,129  | 180          | 1,439          | 140           | 1,403  |
| 1991        | 8,410 | 1,236       | 1,572         | 773        | 397      | 1,154  | 158          | 1,460          | 156           | 1,504  |
| 1992        | 8,584 | 1,342       | 1,523         | 814        | 386      | 1,190  | 142          | 1,452          | 160           | 1,575  |

Source : Ministry of the Environment

The main objective of the Child Care Programme is to provide a wide range of child care services to children and their parents. The programme is designed to meet the needs of children and their parents in the community. The programme is designed to meet the needs of children and their parents in the community. The programme is designed to meet the needs of children and their parents in the community.

The programme is designed to meet the needs of children and their parents in the community. The programme is designed to meet the needs of children and their parents in the community. The programme is designed to meet the needs of children and their parents in the community.

## 18 COMMUNITY SERVICES

The Ministry of Community Development plans to coordinate and monitor the implementation of a range of services for senior citizens. The main services under the Aged Programme include Community-based Services and Residential Care Services.

Data on the Residential Homes for the Aged are obtained from the Government Welfare Homes, Voluntary Homes for the Aged and Commercial Homes.

The Ministry of Community Development (MCD) provides a wide range of community services which include: (i) the care, protection and rehabilitation of children and youth; (ii) assistance programmes for the aged; the destitute; the disabled; families with problems; victims of violence; and social and health services. The MCD also promotes neighbourhood cohesiveness and social cohesion among the people through a network of effective grassroots organisations.

Grassroots organisations include Residents' Committees, Citizens' Consultative Committees, Community Centre/Cub Management Committees, Women's Executive Committees, Senior Citizens' Executive Committees and Community Sports Clubs. They have created ample opportunities for residents to participate in the affairs of their communities and to interact with one another to promote better communication and closer rapport between the Government and the people.



## 18 COMMUNITY SERVICES

The Ministry of Community Development (MCD) provides a wide range of community services, which include: (i) the care, protection and rehabilitation of children and youth, (ii) assistance programmes for the aged, the destitutes, the disabled, families with problems and victims of civil calamities. It also promotes neighbourliness, racial harmony and social cohesion among the people through a network of effective grassroots organisations.

### Grassroots organisations

Grassroots organisations include Residents' Committees, Citizens' Consultative Committees, Community Centre/Club Management Committees, Women's Executive Committees, Senior Citizens' Executive Committees and Constituency Sports Clubs. They have created ample opportunities for residents to participate in the affairs of their communities and to interact with one another to promote better communication and closer rapport between the Government and the people.

### Volunteers

"Volunteers", in the MCD context, refer to individuals who are providing services in Community and Welfare Programmes without receiving a full market rate of remuneration or allowance.

### Services for Senior Citizens

The Ministry of Community Development plans, coordinates and monitors the implementation of a range of services for senior citizens. The main services under the Aged Programme includes Community-based Services and Residential Care Services.

Data on the Residential Homes for the Aged are obtained from the Government Welfare Homes, Voluntary Homes for the Aged and Commercial Homes.

## Child Care Centres

The main objectives of the Child Care Programme are to promote and develop Child Care Centres. The Ministry encourages individuals, organisations and employers in the public and private sectors to set up child care facilities. Most centres provide full-day and half-day care services for children between the ages of two and seven years old.

## Public Assistance

Public Assistance (PA) is provided to help the financially distressed regain their independence. It is not

intended as an unemployment, retirement or disability support. PA allowances are granted to the following categories of persons :

- (i) aged destitutes;
- (ii) the disabled, the mentally ill and the chronically sick who are unfit to work;
- (iii) widows or deserted wives with children under 12 years of age; and
- (iv) orphans.



# 18.1 GRASSROOTS ORGANISATIONS, 1982-1992

Number

| End of Year       | Residents' Committees (RC) | Citizens' Consultative Committees (CCC) | CCC Area <sup>1</sup> Committees | Community Centres/ Club Management Committees (CCMC) | Women's Executive Committees (WEC) | Senior Citizens <sup>2</sup> Executive Committees | Constituency Sports Clubs |
|-------------------|----------------------------|-----------------------------------------|----------------------------------|------------------------------------------------------|------------------------------------|---------------------------------------------------|---------------------------|
| 1982              | 241                        | 75                                      | -                                | 155                                                  | 74                                 | -                                                 | 70                        |
| 1983              | 246                        | 75                                      | 32                               | 146                                                  | 75                                 | -                                                 | 70                        |
| 1984              | 263                        | 75                                      | 37                               | 145                                                  | 76                                 | -                                                 | 68                        |
| 1985              | 276                        | 79                                      | 37                               | 138                                                  | 80                                 | -                                                 | 68                        |
| 1986              | 311                        | 79                                      | 39                               | 125                                                  | 80                                 | 53                                                | 75                        |
| 1987              | 341                        | 79                                      | 44                               | 120                                                  | 80                                 | 71                                                | 76                        |
| 1988              | 363                        | 76                                      | 49                               | 112                                                  | 81                                 | 74                                                | 70                        |
| 1989              | 378                        | 81                                      | 47                               | 110                                                  | 86                                 | 79                                                | 79                        |
| 1990              | 395                        | 81                                      | 46                               | 112                                                  | 88                                 | 83                                                | 80                        |
| 1991              | 401                        | 81                                      | 46                               | 107                                                  | 88                                 | 91                                                | 81                        |
| 1992 <sup>p</sup> | 402                        | 81                                      | 46                               | 110                                                  | 90                                 | 91                                                | 81                        |

1 CCC Area Committees started in 1983.

2 Senior Citizens' Executive Committees started in 1986.

Source : Ministry of Community Development

# 18.2 VOLUNTEERS BY VOLUNTEER GROUP AND TYPE OF SERVICE, 1982-1992

(End of Period)

| Volunteer Group                                                                         | 1982   | 1983   | 1984   | 1985   | 1986   | 1987   | 1988   | 1989   | 1990   | 1991   | 1992 <sup>P</sup> |
|-----------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|
| <b>COMMUNITY SERVICE</b>                                                                |        |        |        |        |        |        |        |        |        |        |                   |
| Total                                                                                   | 11,433 | 11,942 | 12,417 | 12,290 | 14,343 | 15,753 | 16,815 | 17,527 | 18,211 | 18,692 | 19,236            |
| RC/Block Representative                                                                 | 4,080  | 4,262  | 4,476  | 4,579  | 5,847  | 7,031  | 7,868  | 8,466  | 8,590  | 8,958  | 8,984             |
| CCC/CCC Area Committees <sup>1</sup>                                                    | 1,873  | 2,198  | 2,300  | 2,242  | 2,408  | 2,471  | 2,447  | 2,551  | 2,610  | 2,555  | 2,662             |
| Community Resource Volunteers <sup>2</sup>                                              | -      | -      | -      | -      | -      | 26     | 50     | 76     | 79     | 100    | 114               |
| Community Centre/Club Management Committees                                             | 2,201  | 2,193  | 2,278  | 2,148  | 2,152  | 2,089  | 2,036  | 1,950  | 2,134  | 2,121  | 2,213             |
| Women's Executive Committee                                                             | 794    | 809    | 876    | 901    | 942    | 929    | 932    | 946    | 1,130  | 1,111  | 1,206             |
| Senior Citizens' Executive Committees <sup>3</sup>                                      | -      | -      | -      | -      | 425    | 693    | 1,028  | 1,069  | 1,146  | 1,267  | 1,339             |
| Youth Executive Committees                                                              | 1,448  | 1,430  | 1,485  | 1,401  | 1,444  | 1,387  | 1,400  | 1,371  | 1,371  | 1,399  | 1,440             |
| Constituency Sports Club Members                                                        | 1,037  | 1,050  | 1,002  | 1,019  | 1,125  | 1,127  | 1,054  | 1,098  | 1,151  | 1,181  | 1,278             |
| <b>WELFARE SERVICE</b>                                                                  |        |        |        |        |        |        |        |        |        |        |                   |
| Total                                                                                   | 338    | 348    | 413    | 748    | 700    | 833    | 884    | 825    | 1,047  | 1,108  | 1,235             |
| Welfare Service Boards/Committees                                                       | na     | na     | na     | 58     | 58     | 96     | 99     | 111    | 90     | 75     | 93                |
| Befrienders for the Aged Destitutes <sup>4</sup>                                        | -      | -      | -      | 124    | 144    | 165    | 131    | 117    | 127    | 126    | 129               |
| Volunteer Probation Officers                                                            | 338    | 321    | 295    | 391    | 294    | 284    | 264    | 251    | 300    | 330    | 387               |
| Befrienders for Senior Citizens <sup>5</sup>                                            | -      | 27     | 118    | 175    | 193    | 274    | 375    | 316    | 482    | 534    | 599               |
| Volunteers in Toa Payoh Girls' Homes, Singapore Boys' Home and Bukit Batok Boys' Hostel | -      | -      | -      | -      | 11     | 14     | 15     | 30     | 48     | 43     | 27                |

- 1 CCC Area Committees started in 1983.
- 2 Community Resource Volunteers started in 1987.
- 3 Senior Citizens' Executive Committees started in 1986.
- 4 Befrienders for the Aged Destitutes started in 1985.
- 5 Befrienders for Senior Citizens started in 1983.

Source : Ministry of Community Development



# 18.3 ENROLMENT IN CHILD CARE CENTRES BY TYPE OF PROGRAMME AND ORGANISATION, 1982-1992

Number

| Period<br>(As at 1 Dec) | Total  | Type of Programme  |                         |       |           |                        |         |                       |
|-------------------------|--------|--------------------|-------------------------|-------|-----------|------------------------|---------|-----------------------|
|                         |        | Full-Day Programme |                         |       |           |                        |         | Half-Day<br>Programme |
|                         |        | Total              | People's<br>Association | NTUC  | Voluntary | Workplace <sup>1</sup> | Private |                       |
| 1982                    | 1,406  | 1,406              | 60                      | 890   | 421       | -                      | 35      | -                     |
| 1983                    | 1,862  | 1,734              | 133                     | 771   | 741       | 35                     | 54      | 128                   |
| 1984                    | 2,375  | 1,919              | 128                     | 787   | 778       | 132                    | 94      | 456                   |
| 1985                    | 2,918  | 2,157              | 263                     | 642   | 829       | 268                    | 155     | 761                   |
| 1986                    | 3,756  | 2,799              | 461                     | 705   | 1,069     | 369                    | 195     | 957                   |
| 1987                    | 5,659  | 4,537              | 601                     | 779   | 1,874     | 626                    | 657     | 1,122                 |
| 1988                    | 8,044  | 6,652              | 696                     | 863   | 2,586     | 835                    | 1,671   | 1,393                 |
| 1989                    | 10,201 | 8,633              | 836                     | 1,014 | 3,249     | 866                    | 2,668   | 1,568                 |
| 1990                    | 12,474 | 11,105             | 847                     | 1,057 | 3,961     | 975                    | 4,265   | 1,369                 |
| 1991                    | 16,109 | 14,337             | 924                     | 1,236 | 4,787     | 1,140                  | 6,250   | 1,772                 |
| 1992                    | 18,732 | 16,613             | 869                     | 1,486 | 5,391     | 1,254                  | 7,613   | 2,119                 |

Notes : Data for 1982 were as at 31 March and those for 1983 to 1986 were as at 31 December.

NTUC = National Trades Union Congress.

Source : Ministry of Community Development

1 Include 3 centres set up by employers at workplace but run by private operators.

# 18.4 PUBLIC ASSISTANCE RECIPIENTS BY CATEGORY, 1983-1992

|                   |       |                 |                          |                                       |                          | Number                                  |
|-------------------|-------|-----------------|--------------------------|---------------------------------------|--------------------------|-----------------------------------------|
| End of Period     | Total | Aged Destitutes | Medically Unfit for Work | Abandoned/ Distressed Wives & Orphans | Handicapped and Disabled | Widows with Children under 12 years old |
| 1983              | 3,241 | 2,850           | 103                      | 59                                    | 175                      | 54                                      |
| 1984              | 3,278 | 2,883           | 109                      | 70                                    | 163                      | 53                                      |
| 1985              | 3,076 | 2,734           | 76                       | 53                                    | 160                      | 53                                      |
| 1986              | 3,075 | 2,736           | 79                       | 53                                    | 155                      | 52                                      |
| 1987              | 2,934 | 2,618           | 78                       | 55                                    | 134                      | 49                                      |
| 1988              | 2,867 | 2,565           | 83                       | 54                                    | 118                      | 47                                      |
| 1989              | 2,827 | 2,508           | 82                       | 69                                    | 123                      | 45                                      |
| 1990              | 2,791 | 2,463           | 84                       | 71                                    | 126                      | 47                                      |
| 1991              | 2,332 | 2,030           | 89                       | 75                                    | 95                       | 43                                      |
| 1992 <sup>P</sup> | 2,255 | 1,954           | 90                       | 70                                    | 102                      | 39                                      |

Source : Ministry of Community Development



# 18.5 RESIDENTS IN OLD FOLKS' HOMES BY TYPE OF ORGANISATION AND SEX, 1984-1992

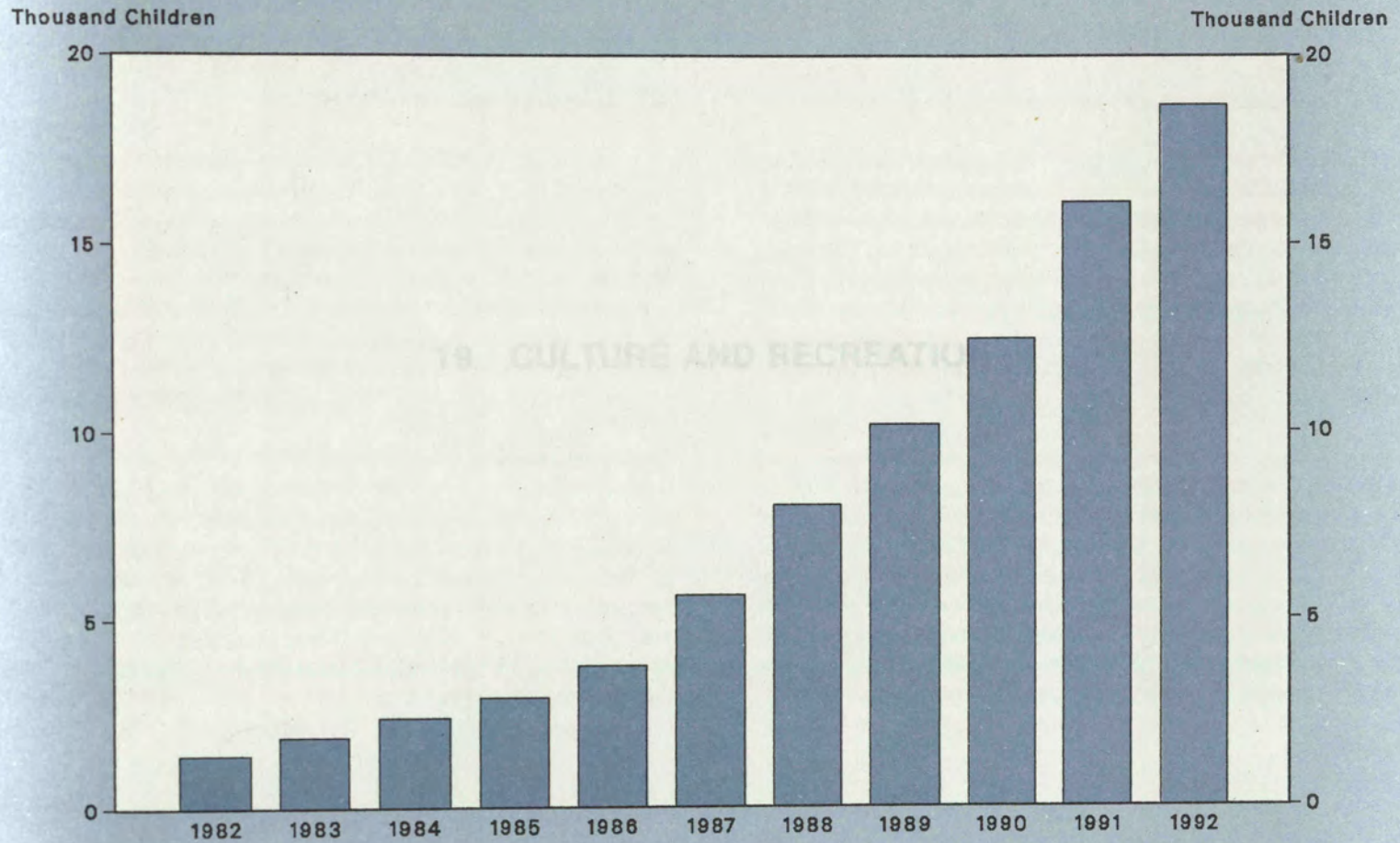
Number

| End of Period     | Total   |       |         | Government |       |         | Voluntary |       |         | Commercial |       |         |
|-------------------|---------|-------|---------|------------|-------|---------|-----------|-------|---------|------------|-------|---------|
|                   | Persons | Males | Females | Persons    | Males | Females | Persons   | Males | Females | Persons    | Males | Females |
| 1984              | 3,102   | 1,508 | 1,594   | 885        | 667   | 218     | 1,939     | 761   | 1,178   | 278        | 80    | 198     |
| 1985              | 3,279   | 1,560 | 1,719   | 857        | 670   | 187     | 1,980     | 746   | 1,234   | 442        | 144   | 298     |
| 1986              | 3,400   | 1,580 | 1,820   | 774        | 627   | 147     | 2,032     | 756   | 1,276   | 594        | 197   | 397     |
| 1987              | 3,542   | 1,660 | 1,882   | 754        | 623   | 131     | 2,070     | 774   | 1,296   | 718        | 263   | 455     |
| 1988              | 3,730   | 1,789 | 1,941   | 749        | 615   | 134     | 2,065     | 847   | 1,218   | 916        | 327   | 589     |
| 1989              | 3,793   | 1,729 | 2,064   | 760        | 632   | 128     | 2,094     | 754   | 1,340   | 939        | 343   | 596     |
| 1990              | 3,864   | 1,736 | 2,128   | 794        | 657   | 137     | 2,074     | 738   | 1,336   | 996        | 341   | 655     |
| 1991              | 3,838   | 1,747 | 2,091   | 798        | 666   | 132     | 2,070     | 738   | 1,332   | 970        | 343   | 627     |
| 1992 <sup>P</sup> | 3,850   | 1,701 | 2,149   | 765        | 641   | 124     | 2,147     | 778   | 1,369   | 938        | 282   | 656     |

Source : Ministry of Community Development

CHART 21

ENROLMENT IN CHILD CARE CENTRES, 1982-1992





## 19 CULTURE AND RECREATION

## 19 CULTURE AND RECREATION

### SBC Radio and Television

Established in 1980, Singapore Broadcasting Corporation (SBC) operates nine radio stations and three VHF Television channels in the official languages - Malay, Mandarin, Tamil and English.

SBC maintains a balance in news and a variety of information and entertainment programmes in various language media to cater to a multi-racial and multilingual audience.

SBC's latest teletext service, INtv, a news and information service of 800 pages is transmitted from 6 am to 12 midnight daily over two of its channels.

Under the Singapore Broadcasting Act, 1979, a licence is required by every person using one or more television receivers at any place of residence or premises. The annual licence fee is \$100 for a colour television set, \$36 for a monochrome television set and \$24 for a car radio receiver.

### NTUC Radio Heart

NTUC VOICE Co-operative Society Limited was registered on 2 July 1990 to operate a radio station called NTUC Radio Heart which started broadcasting on 15 January 1991. It is the first private wireless radio station in Singapore. It operates two stations, broadcasting in the four official languages. Its mission is to inform, educate and help listeners to better understand labour policies and current issues as well as to provide them with entertaining radio programmes.

### Rediffusion

Rediffusion (Singapore) Pte Ltd, a commercial audio broadcasting station under Government franchise since 1949, provides direct sound broadcasts via cable to subscribers on two networks. One network broadcasts Mandarin programmes daily from 6 am to 12 midnight and the other carries 24 hours of non-stop English/Chinese cultural programmes. The monthly rental is \$10.00 per set.



## **Cinema**

Data on cinemas are obtained from the Customs and Excise Department. Under the Entertainment Duty Act, all cinemas are liable to pay entertainment duty according to their admission charges. Total attendances are based on the number of tickets sold.

## **Library**

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

In addition to the Central Library at Stamford Road, there are eight full-time branch libraries in Ang Mo Kio, Bedok, Bukit Merah, Geylang East, Jurong East, Marine Parade, Queenstown, and Toa Payoh. They provide books and materials for loan, an audio-visual service and a basic reference and information service.

The Reference Services Division of the Central Library maintains books and collections of special interest for research and other purposes as well as periodicals,

newspapers, maps, etc. Many documents and publications are also on microfilm and microfiche.

The Arts Resource Centre in the Reference Services Division maintains a good collection of books, periodicals and audio-visual materials, covering various aspects of fine arts.

The computerized National Library Network (NALINET) is a centralized system which links the National Library and its eight branch libraries. The computerized functions include cataloguing, acquisitions, serials, legal deposit, enquiries, loans and the online public access catalogue. Data on library membership, loans and collections are generated on a regular basis by the computer system.

## **Sports Facilities**

The Singapore Sports Council (SSC) is responsible for the promotion of both competitive and recreational sports in Singapore. Through the "Sports for All" policy, it promotes a wide range of sports activities and programmes.

The SSC also provides a wide range of sports facilities for the public. Apart from the National Stadium and the Singapore Indoor Stadium; the SSC maintains and operates a number of stadia, multi-purpose fields, sports halls, netball

courts, squash courts, tennis courts, swimming pools and fitness parks and corners.

## Cultural and Sports Courses

The People's Association (PA), a statutory board

established on 1 Jul 1960, is a community development agency. The PA organises and promotes group participation in social, cultural, educational, youth, sports, recreational and other wholesome activities to nurture inter-racial understanding at its community centres and community clubs. The community centres and community clubs conduct regular sports and cultural courses.



# 19.1 RADIO AND TELEVISION LICENCES AND REDIFFUSION SUBSCRIBERS, 1982-1992

Number

| End of Year | Radio Licences Issued <sup>1</sup> | Television Licences Issued | Rediffusion Subscribers |
|-------------|------------------------------------|----------------------------|-------------------------|
| 1982        | 73,602                             | 424,089                    | 110,348                 |
| 1983        | 104,735                            | 464,269                    | 95,030                  |
| 1984        | 111,009                            | 474,877                    | 81,336                  |
| 1985        | 108,735                            | 481,907                    | 73,195                  |
| 1986        | 111,568                            | 509,908                    | 66,145                  |
| 1987        | 109,453                            | 531,215                    | 62,457                  |
| 1988        | 107,101                            | 554,133                    | 62,940                  |
| 1989        | 105,120                            | 533,021                    | 55,406                  |
| 1990        | 126,778                            | 582,540                    | 45,376                  |
| 1991        | 184,971                            | 595,730                    | 39,484                  |
| 1992        | 190,900                            | 614,309                    | 37,270                  |

<sup>1</sup> With effect from Dec 1990, a licence is no longer required for a radio installed in an address irrespective of whether a TV licence has been obtained.

Source : Singapore Broadcasting Corporation  
Rediffusion (Singapore) Pte Ltd

# 19.2 RADIO AND TELEVISION TRANSMISSION, 1982-1992

Hours Per Week

| Year | Total<br>(Radio) | Radio (SBC) |       |         |       |                     | Radio (SBC and NTUC <sup>1</sup> ) |       |         |       | Television |
|------|------------------|-------------|-------|---------|-------|---------------------|------------------------------------|-------|---------|-------|------------|
|      |                  | AM/FM       |       |         |       | Symphony<br>92.4 FM | FM                                 |       |         |       |            |
|      |                  | English     | Malay | Chinese | Tamil |                     | English                            | Malay | Chinese | Tamil |            |
| 1982 | 639              | 126         | 135   | 147     | 105   | 126                 | -                                  | -     | -       | -     | 115.0      |
| 1983 | 646              | 126         | 135   | 147     | 112   | 126                 | -                                  | -     | -       | -     | 115.0      |
| 1984 | 646              | 126         | 135   | 147     | 112   | 126                 | -                                  | -     | -       | -     | 132.0      |
| 1985 | 649              | 127         | 135   | 148     | 112   | 127                 | -                                  | -     | -       | -     | 149.2      |
| 1986 | 649              | 127         | 135   | 148     | 112   | 127                 | -                                  | -     | -       | -     | 155.0      |
| 1987 | 653              | 131         | 135   | 148     | 112   | 127                 | -                                  | -     | -       | -     | 155.0      |
| 1988 | 653              | 131         | 135   | 148     | 112   | 127                 | -                                  | -     | -       | -     | 156.0      |
| 1989 | 828              | 131         | 139   | 130     | 112   | 127                 | 168                                | -     | -       | -     | 161.0      |
| 1990 | 1,218            | 128         | 149   | 127     | 134   | 127                 | 294                                | 126   | 133     | -     | 172.4      |
| 1991 | 1,504            | 127         | 149   | 127     | 134   | 127                 | 427                                | 140   | 259     | 14    | 193.9      |
| 1992 | 1,514            | 127         | 149   | 127     | 134   | 126                 | 423                                | 148   | 259     | 21    | 195.1      |

<sup>1</sup> Operated with effect from January 1991.

Source : Singapore Broadcasting Corporation  
NTUC Voice Co-operative Society Ltd



# 19.3 CINEMAS, 1982-1992

| Year | Cinemas |                 |        | Total Seating Capacity | Attendances |
|------|---------|-----------------|--------|------------------------|-------------|
|      | Total   | Air Conditioned | Others |                        |             |
|      | Number  |                 |        | Thousand               |             |
| 1982 | 72      | 63              | 9      | 71                     | 35,781      |
| 1983 | 57      | 55              | 2      | 63                     | 30,659      |
| 1984 | 51      | 49              | 2      | 57                     | 27,388      |
| 1985 | 47      | 47              | -      | 54                     | 22,702      |
| 1986 | 42      | 42              | -      | 49                     | 19,520      |
| 1987 | 41      | 41              | -      | 48                     | 19,767      |
| 1988 | 46      | 46              | -      | 48                     | 22,251      |
| 1989 | 51      | 51              | -      | 49                     | 21,376      |
| 1990 | 56      | 56              | -      | 48                     | 20,655      |
| 1991 | 60      | 60              | -      | 47                     | 20,736      |
| 1992 | 77      | 77              | -      | 51                     | 19,300      |

Source : Customs & Excise Department

# 19.4 NATIONAL LIBRARY MEMBERSHIP, 1982-1992

Number

| Year              | Total   | Persons Aged<br>12 Years & Over | Children Under<br>12 Years |
|-------------------|---------|---------------------------------|----------------------------|
| 1982              | 540,215 | 334,755                         | 205,460                    |
| 1983              | 640,322 | 422,279                         | 218,043                    |
| 1984              | 715,501 | 492,370                         | 223,131                    |
| 1985              | 833,907 | 594,977                         | 238,930                    |
| 1986              | 925,245 | 681,050                         | 244,195                    |
| 1987              | 891,253 | 672,665                         | 218,588                    |
| 1988 <sup>1</sup> | 442,200 | 308,442                         | 133,758                    |
| 1989              | 615,180 | 449,785                         | 165,395                    |
| 1990              | 722,316 | 545,797                         | 176,519                    |
| 1991              | 796,459 | 619,863                         | 176,596                    |
| 1992              | 875,056 | 696,604                         | 178,452                    |

1 Members re-registered as a result of computerisation.

Source : Singapore National Library



# 19.5 BOOK COLLECTIONS AT THE NATIONAL LIBRARY, 1982-1992

Number

| Year | Total     | English   | Chinese | Malay   | Tamil  |
|------|-----------|-----------|---------|---------|--------|
| 1982 | 1,601,680 | 885,346   | 447,000 | 202,528 | 66,806 |
| 1983 | 1,771,412 | 966,050   | 493,884 | 232,902 | 78,576 |
| 1984 | 2,162,231 | 1,196,288 | 615,236 | 263,118 | 87,589 |
| 1985 | 2,322,242 | 1,290,524 | 661,109 | 282,015 | 88,594 |
| 1986 | 2,541,556 | 1,452,482 | 701,125 | 304,274 | 83,675 |
| 1987 | 2,671,796 | 1,545,392 | 732,467 | 307,737 | 86,200 |
| 1988 | 2,769,398 | 1,606,345 | 739,362 | 335,649 | 88,042 |
| 1989 | 2,936,305 | 1,719,069 | 776,880 | 350,707 | 89,649 |
| 1990 | 2,437,094 | 1,492,350 | 613,730 | 264,213 | 66,801 |
| 1991 | 2,726,156 | 1,685,069 | 668,602 | 299,144 | 73,341 |
| 1992 | 2,890,676 | 1,813,994 | 682,480 | 316,134 | 78,068 |

Source : Singapore National Library

# 19.6 LOANS OF BOOKS AT THE NATIONAL LIBRARY, 1982-1992

Number

| Year | Total     | Persons Aged<br>12 Years & Over | Children Under<br>12 Years |
|------|-----------|---------------------------------|----------------------------|
| 1982 | 4,679,017 | 2,638,849                       | 2,040,168                  |
| 1983 | 6,227,930 | 3,453,528                       | 2,774,402                  |
| 1984 | 6,093,392 | 3,472,286                       | 2,621,106                  |
| 1985 | 7,025,899 | 3,886,211                       | 3,139,688                  |
| 1986 | 8,659,955 | 4,625,025                       | 4,034,930                  |
| 1987 | 7,580,674 | 3,934,840                       | 3,645,834                  |
| 1988 | 7,438,247 | 3,488,080                       | 3,950,167                  |
| 1989 | 9,317,796 | 4,282,810                       | 5,034,986                  |
| 1990 | 9,118,091 | 4,290,581                       | 4,827,510                  |
| 1991 | 9,066,277 | 4,265,431                       | 4,800,846                  |
| 1992 | 6,995,924 | 3,248,914                       | 3,747,010                  |

Source : Singapore National Library



# 19.7 DAILY NEWSPAPER CIRCULATION, 1982-1992

Number

| Year | Total   | English | Chinese | Malay  | Tamil |
|------|---------|---------|---------|--------|-------|
| 1982 | 657,340 | 289,537 | 326,583 | 34,025 | 7,195 |
| 1983 | 694,711 | 301,205 | 351,392 | 35,267 | 6,847 |
| 1984 | 709,383 | 307,376 | 357,778 | 37,444 | 6,785 |
| 1985 | 713,866 | 308,221 | 359,303 | 39,915 | 6,427 |
| 1986 | 684,298 | 282,192 | 354,892 | 41,760 | 5,454 |
| 1987 | 700,927 | 292,721 | 360,691 | 42,041 | 5,474 |
| 1988 | 743,334 | 340,401 | 354,840 | 42,458 | 5,635 |
| 1989 | 777,052 | 362,634 | 366,211 | 42,849 | 5,358 |
| 1990 | 813,484 | 385,902 | 378,381 | 44,361 | 4,840 |
| 1991 | 877,523 | 422,869 | 401,116 | 47,988 | 5,550 |
| 1992 | 916,102 | 447,600 | 410,424 | 53,059 | 5,019 |

# 19.8 VISITORS TO PLACES OF INTEREST, 1982-1992

Thousand

| Period | National Museum <sup>1</sup> | Singapore Science Centre <sup>2</sup> | Singapore Zoological Gardens | Sentosa <sup>3</sup> | Chinese/Japanese Gardens <sup>3</sup> | Jurong Bird Park <sup>3</sup> |
|--------|------------------------------|---------------------------------------|------------------------------|----------------------|---------------------------------------|-------------------------------|
| 1982   | 320.0                        | 347.9                                 | 751.1                        | 1,900.7              | 805.3                                 | 707.1                         |
| 1983   | 253.8                        | 410.1                                 | 862.7                        | 1,400.0              | 692.6                                 | 704.6                         |
| 1984   | 152.0                        | 463.1                                 | 896.1                        | 1,660.0              | 721.2                                 | 699.1                         |
| 1985   | 406.9                        | 558.6                                 | 850.0                        | 1,641.0              | 642.1                                 | 741.5                         |
| 1986   | 396.4                        | 578.6                                 | 958.8                        | 1,675.7              | 616.8                                 | 761.0                         |
| 1987   | 348.9                        | 620.1                                 | 1,112.1                      | 2,106.8              | 712.8                                 | 850.2                         |
| 1988   | 322.5                        | 690.2                                 | 1,104.3                      | 2,606.8              | 629.5                                 | 980.7                         |
| 1989   | na                           | 767.4                                 | 1,133.0                      | 2,616.8              | 512.7                                 | 1,038.9                       |
| 1990   | na                           | 711.9                                 | 1,341.3                      | 2,590.0              | 453.0                                 | 1,009.6                       |
| 1991   | 255.7                        | 543.1                                 | 1,164.5                      | 3,320.0              | 395.5                                 | 1,026.7                       |
| 1992   | 239.1                        | 515.0                                 | 1,355.3                      | 3,609.8              | 350.9                                 | 1,532.9                       |

Note : Figures may not add up due to rounding.

1 Major renovation and repair were carried out during January 1989 - November 1990.

2 Figures for 1982-1986 refer to financial year beginning on 1 Apr and ending on 31 March the following year.

3 Figures refer to financial years.

Source : National Museum

Singapore Science Centre

Singapore Zoological Gardens

Sentosa Development Corporation

Singapore Leisure Industries Pte Ltd

Jurong Bird Park



# 19.9 UTILISATION OF SPORTS FACILITIES, 1982-1992

Number

| Period | Swimming<br>(Complex) | Tennis<br>(Court) | Badminton<br>(Court) | Squash<br>(Court) | Netball<br>(Court) | Soccer | Hockey | Rugby | Athletics |
|--------|-----------------------|-------------------|----------------------|-------------------|--------------------|--------|--------|-------|-----------|
|        | Attendance            | Bookings          |                      |                   |                    |        |        |       |           |
| 1982   | 5,905,741             | 96,962            | 50,814               | 179,126           | 2,595              | 10,585 | 377    | 71    | 548       |
| 1983   | 6,766,438             | 98,755            | 41,172               | 165,795           | 2,516              | 10,540 | 447    | 92    | 644       |
| 1984   | 5,960,539             | 139,320           | 46,473               | 178,232           | 2,818              | 10,052 | 764    | 104   | 529       |
| 1985   | 6,101,678             | 156,008           | 66,139               | 187,661           | 2,166              | 10,181 | 716    | 52    | 619       |
| 1986   | 6,435,994             | 138,377           | 61,912               | 165,331           | 1,755              | 10,950 | 711    | 92    | 547       |
| 1987   | 6,247,930             | 135,937           | 67,332               | 130,044           | 1,221              | 10,140 | 697    | 74    | 721       |
| 1988   | 6,523,324             | 141,291           | 71,687               | 98,536            | 203                | 10,099 | 664    | 113   | 627       |
| 1989   | 6,190,794             | 148,938           | 59,043               | 70,649            | 183                | 8,163  | 537    | 173   | 508       |
| 1990   | 6,011,906             | 161,476           | 78,188               | 60,074            | 397                | 8,156  | 1,129  | 81    | 464       |
| 1991   | 5,418,025             | 180,460           | 86,166               | 65,194            | 678                | 8,043  | 1,471  | 61    | 571       |
| 1992   | 5,626,328             | 188,879           | 118,554              | 66,369            | 1,822              | 9,130  | 1,357  | 121   | 530       |

Notes : Data refer to sports facilities provided by Singapore Sports Council.  
Figures for 1982-1984 refer to financial years.

Source : Singapore Sports Council

# 19.10 SPORTS AND CULTURAL COURSES CONDUCTED BY COMMUNITY CENTRES/CLUBS, 1982-1992

Number

| Type of Course   | FY 82/83     | FY 83/84 | FY 84/85 | FY 85/86 | FY 86/87 | FY 87/88 | FY 88/89 | FY 89/90 | FY 90/91 | FY 91/92 |
|------------------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| SPORTS COURSES   | Classes      |          |          |          |          |          |          |          |          |          |
|                  | 1,192        | 1,363    | 1,557    | 1,749    | 1,938    | 2,150    | 1,700    | 2,090    | 2,452    | 2,309    |
|                  | 337          | 341      | 382      | 446      | 429      | 427      | 320      | 314      | 387      | 323      |
|                  | 256          | 276      | 325      | 367      | 436      | 698      | 340      | 353      | 347      | 364      |
|                  | 390          | 483      | 541      | 666      | 774      | 752      | 734      | 801      | 835      | 818      |
|                  | 91           | 88       | 114      | 111      | 108      | 111      | 117      | 62       | 117      | 118      |
|                  | 112          | 156      | 187      | 139      | 179      | 143      | 180      | 558      | 762      | 686      |
|                  | 6            | 19       | 8        | 20       | 12       | 19       | 9        | 2        | 4        | -        |
|                  | 1,629        | 2,252    | 3,158    | 4,130    | 4,657    | 4,826    | 4,887    | 5,450    | 5,474    | 5,679    |
|                  | 619          | 965      | 1,704    | 2,356    | 2,634    | 2,528    | 2,667    | 3,028    | 3,022    | 2,911    |
|                  | 40           | 30       | 30       | 41       | 49       | 40       | 41       | 38       | 29       | 22       |
|                  | 970          | 1,255    | 1,421    | 1,733    | 1,974    | 2,254    | 2,179    | 2,369    | 2,420    | 2,738    |
| CULTURAL COURSES | -            | 2        | 3        | -        | -        | 4        | -        | 15       | 3        | 8        |
| SPORTS COURSES   | Participants |          |          |          |          |          |          |          |          |          |
|                  | 30,973       | 35,612   | 40,158   | 45,571   | 56,137   | 67,702   | 40,522   | 44,751   | 45,219   | 41,143   |
|                  | 5,521        | 5,450    | 5,220    | 5,951    | 5,757    | 5,263    | 3,656    | 3,056    | 3,601    | 3,196    |
|                  | 5,092        | 5,375    | 6,445    | 8,100    | 13,402   | 27,557   | 6,889    | 6,985    | 6,974    | 5,996    |
|                  | 14,725       | 17,872   | 20,341   | 24,640   | 30,004   | 28,278   | 23,038   | 24,145   | 24,328   | 22,020   |
|                  | 3,228        | 3,061    | 3,697    | 3,716    | 3,550    | 3,508    | 3,795    | 2,194    | 3,853    | 3,319    |
|                  | 2,279        | 3,543    | 4,330    | 2,751    | 3,218    | 2,801    | 3,016    | 8,339    | 6,422    | 6,612    |
|                  | 128          | 311      | 125      | 413      | 206      | 295      | 128      | 32       | 41       | -        |
|                  | 22,896       | 32,968   | 50,311   | 63,451   | 68,875   | 72,299   | 77,893   | 90,124   | 88,277   | 90,190   |
|                  | 11,427       | 18,743   | 36,046   | 46,369   | 49,856   | 51,205   | 55,134   | 60,355   | 57,207   | 54,942   |
|                  | 709          | 555      | 488      | 733      | 847      | 646      | 660      | 628      | 461      | 396      |
|                  | 10,760       | 13,608   | 13,732   | 16,349   | 18,172   | 20,321   | 22,099   | 28,814   | 30,525   | 34,452   |
| CULTURAL COURSES | -            | 62       | 45       | -        | -        | 127      | -        | 327      | 84       | 400      |

1 FY refers to financial year beginning on 1 April and ending on 31 March the following year

Source : People's Association



## 20 MISCELLANEOUS

## 20 MISCELLANEOUS

The mission of the Singapore Joint Civil Defence Forces (SJCDF) is to protect and save civilian lives and property in the event of an emergency and also to prevent and fight fires in peacetime. Data on fire occurrence and property damaged by fire are compiled by SJCDF.

### Definitions

*Structural (Residential)* : Refers to all building structures, either permanent or temporary, used for residential purposes only.

*Structural (Non-Residential)* : Refers to all building structures, either permanent or temporary, used for other than residential purposes such as commercial, manufacturing, storages, sales and services, etc.

*Non-Structural* : Refers to all properties other than building structures such as motor-vehicles, ships, vegetation, discarded materials, outdoor electrical cables/wiring, etc.



## 20.1 FIRE OCCURRENCES AND VALUE OF PROPERTY DAMAGED, 1982-1992

| Type of Property | 1982                                                  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992 <sup>P</sup> |       |
|------------------|-------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------|
|                  | Fire Occurrences (Number)                             |       |       |       |       |       |       |       |       |       |                   |       |
|                  | Total                                                 | 6,093 | 6,802 | 4,646 | 5,384 | 5,306 | 5,206 | 4,718 | 5,177 | 6,444 | 5,740             | 5,102 |
|                  | Structural (Residential)                              | 1,648 | 2,048 | 2,241 | 2,332 | 2,198 | 2,122 | 2,269 | 2,364 | 2,253 | 2,176             | 2,115 |
|                  | Structural (Non-Residential)                          | 916   | 679   | 614   | 642   | 700   | 583   | 682   | 590   | 645   | 1,149             | 736   |
|                  | Non-Structural                                        | 3,529 | 4,075 | 1,791 | 2,410 | 2,408 | 2,501 | 1,767 | 2,223 | 3,546 | 2,415             | 2,251 |
|                  | Estimated Value of Property Damaged (Million Dollars) |       |       |       |       |       |       |       |       |       |                   |       |
|                  | Total                                                 | 26.5  | 47.1  | 28.0  | 18.8  | 17.3  | 17.9  | 39.9  | 75.6  | 43.7  | 23.2              | 9.2   |
|                  | Structural (Residential)                              | 2.4   | 6.0   | 5.1   | 3.1   | 3.1   | 2.8   | 2.5   | 0.8   | 2.1   | 5.8               | na    |
|                  | Structural (Non-Residential)                          | 22.8  | 18.5  | 20.8  | 14.2  | 12.9  | 13.4  | 36.3  | 73.3  | 39.8  | 12.1              | na    |
| Non-Structural   | 1.3                                                   | 22.6  | 2.1   | 1.5   | 1.3   | 1.7   | 1.1   | 1.6   | 1.8   | 5.3   | na                |       |

Source : Singapore Joint Civil Defence Forces

## READERS' FEEDBACK

Please evaluate the Yearbook of Statistics in respect of the

|                       | <u>good</u>              | <u>satisfactory</u>      | <u>need to be Improved</u> |
|-----------------------|--------------------------|--------------------------|----------------------------|
| (i) Contents          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>   |
| (ii) Notes and Tables | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>   |
| (iii) Charts          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>   |

Please suggest Improvements:

---

---

---

Name \_\_\_\_\_ Occupation/Designation \_\_\_\_\_

Name of Organization \_\_\_\_\_

Address \_\_\_\_\_ Tel No \_\_\_\_\_

Please return the above to:

Chief Statistician  
Department of Statistics  
(Publications Section)  
8 Shenton Way #10-01  
Treasury Building  
Singapore 0106

or Contact:

Statistical Information Services  
Tel: 3209702  
Fax: 3209689



Publications are  
obtainable from

: Singapore National Printers Ltd  
8 Shenton Way #B1-07  
Treasury Building  
Singapore 0106  
Tel: 2230834

Publications marked with  
(\*) are obtainable from

: Department of Statistics  
8 Shenton Way #10-01  
Treasury Building  
Singapore 0106  
Tel: 3209684

#### Electronic Dissemination

An on-line *Public Access Time Series (PATS)* database providing up-to-date statistical information is available for subscription. For details, please call Service Desk at Tel : 3209495

#### Enquiries

Please direct enquiries on this publication to :

Publications Section  
Department of Statistics  
Singapore  
Tel : 3208049

# DEPARTMENT OF STATISTICS PUBLICATIONS

## LATEST EDITIONS

Prices in S\$  
(excluding postage)

### General

|   |                                                      |      |
|---|------------------------------------------------------|------|
| 1 | Monthly Digest of Statistics                         | 4.00 |
| 2 | Singapore Standard Industrial Classification, 1990   | 3.50 |
| 3 | Singapore Standard Occupational Classification, 1990 | 7.50 |
| 4 | A Guide to Singapore Official Statistics, 1992       | 6.00 |
| 5 | Yearbook of Statistics, 1992                         | 6.00 |

### Economic Statistics

|    |                                                                          |       |
|----|--------------------------------------------------------------------------|-------|
| 6  | Singapore National Accounts, 1987                                        | 7.50  |
| 7  | Singapore's Corporate Sector : Size, Composition and Financial Structure | 9.00  |
| 8  | Seasonal Adjustment of Economic Indicators                               | 9.00  |
| 9  | Singapore Input-Output Tables, 1988                                      | 33.00 |
| 10 | Analysis of Singapore Input-Output Tables, 1973-1988                     | 4.50  |
| 11 | Foreign Equity Investment in Singapore, 1980-1989                        | 6.50  |
| 12 | Singapore's Investment Abroad, 1990                                      | 8.00  |

### Economic Surveys Series

|     |                                                                                               |      |
|-----|-----------------------------------------------------------------------------------------------|------|
| 13  | Transport & Communications, 1990                                                              | 8.50 |
| 14  | Real Estate & Business Services, 1990                                                         | 6.50 |
| 15  | Community, Social & Personal Services, 1990                                                   | 8.50 |
| 16  | Hotels & Catering, 1990                                                                       | 6.50 |
| 17  | The Services Sector, 1990                                                                     | 6.50 |
| 18  | Wholesale & Retail, 1990                                                                      | 9.00 |
| *19 | Survey of Business Expectations of Commerce and Services Sectors, Singapore, 2nd Quarter 1993 | -    |

### Prices and Household Expenditure

|     |                                                                           |      |
|-----|---------------------------------------------------------------------------|------|
| 20  | Domestic Supply Price Index (1985=100) - A Technical Note                 | 2.70 |
| 21  | Singapore Manufactured Products Price Index (1985=100) - A Technical Note | 2.90 |
| 22  | Import Price Index (1985=100) - A Technical Note                          | 2.80 |
| 23  | Export Price Index (1985=100) - A Technical Note                          | 2.70 |
| 24  | The Consumer Price Index, Singapore (September 1987-August 1988=100)      | 2.00 |
| 25  | Report on the Household Expenditure Survey, 1987/88                       | 6.50 |
| *26 | Consumer Price Index, Singapore, April 1993                               | 1.00 |

### Population, Demographic and Social Statistics

|    |                                                                                                       |       |
|----|-------------------------------------------------------------------------------------------------------|-------|
| 27 | Census of Population, 1990 - Advance Data Release                                                     | 7.00  |
| 28 | Singapore Census of Population 1990, Statistical Release 1 - Demographic Characteristics              | 13.00 |
| 29 | Singapore Census of Population 1990, Statistical Release 2 - Households and Housing                   | 16.00 |
| 30 | Singapore Census of Population 1990, Statistical Release 3 - Literacy, Languages Spoken and Education | 18.00 |
| 31 | Profile of Singapore Resident Population, 1980-1991                                                   | 8.00  |
| 32 | Statistics on Marriages and Divorces, 1991                                                            | 13.50 |

### Occasional Paper Series

|     |                                                                                        |      |
|-----|----------------------------------------------------------------------------------------|------|
| *33 | Efficiency of Singapore Companies : A Study of the Returns to Assets Ratios            | 1.00 |
| *34 | Destination, Activity and Returns of Singapore's Direct Investments Abroad             | 1.00 |
| *35 | Comparison of Retail Prices of Food Items Sold at Wet Markets and Market Produce Shops | 1.00 |
| *36 | A Guide to Singapore's Consumer Price Index                                            | 1.00 |
| *37 | A Guide to the Retail Sales and Catering Trade Indices                                 | 1.00 |



To be purchased from the  
Singapore National Printers Ltd, Publications Sales Division  
8 Shenton Way #B1-07, Treasury Building, Singapore 0106  
Tel : 2230834

---

**Price : \$6.00**

**ISSN 0583-3655**

Printed by Namic Printers Pte Ltd