Hong Kong Population Projections 1992-2011



Census and Statistics Department, Hong Kong

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Hong Kong Population Projections 1992-2011

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FOREWORD

Following each population census, the Census and Statistics Department

produces projections of the Hong Kong population by age and sex. The main purpose

of the projections is to provide a common basis for Government programme planning in

such areas as education, housing, transport, social services and health services.

Projection results are also widely applied in business development and planning.

Based on the results of the 1991 Population Census, a set of population

projections has been prepared. Assumptions on future trends of fertility, mortality and

migration are required and these are established on the basis of past trends and recent

developments in demographic and socio-economic conditions in Hong Kong. Experience

of fertility and mortality changes in various developed countries are also taken into

consideration in formulating the assumptions.

Apart from projection results, this report also presents a detailed

description of the methodologies and assumptions used.

Frederick W. H. HO

Commissioner for Census and Statistics

May 1992

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1. INTRODUCTION

Population Coverage

Population projections present the future situation of a population under a specific set of assumptions on fertility, mortality and migration. The set of population projections in this report covers not only persons normally living in Hong Kong, but also those staying here temporarily. However, Vietnamese migrants awaiting resettlement in other places are excluded.

Report Structure

Results of the population projection are contained in the section "Projection Results". The projected population figures for each of the years 1992-2011 are presented in quinquennial age groups for each sex.

Methodologies used in the projection are presented in the section "Projection Methodology". This covers the "component method" of population projection and the methodologies for fertility, mortality and migration projection.

The future trends of fertility, mortality and migration and the number of persons staying in Hong Kong temporarily are projected based on a study of past trends and likely developments. Details are contained in the section "Projection of Demographic Trends". The projections constitute assumptions for use in the component method of population projection.

Conventions

The following symbols are used in the tables:

" " signifies not available;

".." signifies not applicable; and

"0.0" signifies less than 0.05 but not zero.

2. PROJECTION RESULTS

Results of the population projection are presented in Tables 1 and 2. Table 1 provides some summary statistics and Table 2 contains the detailed projections.

The population is projected to increase at an average rate of 0.66 % per annum, from 5.69 million in mid-1991 to 6.48 million in mid-2011 (Table 1).

One of the prominent trends of the projection is the continual ageing of the population. The median age is expected to increase from 32 in 1991 to 37 in 2001 and further to 41 in 2011. In 1991, 21% of the population were aged under 15. It is projected to decrease to 16% in 2001 and 15% in 2011. In contrast, the proportion of those aged 65 and over would rise from 9% in 1991 to 12% in 2001 and remain at that level till 2011. Overall, the age dependency ratio is expected to decrease gradually from 422 in 1991 to 386 in 2001, and thereafter stabilize at that level.

In general, the population of schooling ages 3-22 would show a significant reduction over the next 20 years. There are considerable variations of the change among the age groups concerned, which in turn have different implications on the school place requirements at various education levels. At the pre-primary school ages 3-5, the population is expected to decrease moderately from 224 000 in 1991 to 196 000 in 2011. At the primary school ages 6-11, the population would drop substantially from 502 000 to 373 000 over the next 10 years, and then increase gradually to 396 000 in 2011. For secondary education, the population at ages 12-18 would decrease from 582 000 in 1991 to 408 000 in 2011. Likewise, the population at ages 19-22, who are the main source of students for tertiary education, would decrease from 330 000 to 225 000 in the same period.

The population aged 60 and over, who would require elderly welfare services, is expected to increase at an average rate of 2.3% per annum, from 0.74 million in 1991 to 1.17 million in 2011. The rate of increase would be even faster among those aged 70 and over. The number would almost double in the next 20 years and their proportion in the total population would rise from 6% to 9%.

Table 1 Summary Population Statistics: 1991, 1996, 2001, 2006 and 2011

| | Mid-1991 (Base) | Mid-1996 | Mid-2001 | Mid-2006 | Mid-2011 |
|--|--------------------|-----------|-----------|-----------|-----------|
| Population | 5 686 600 | 5 884 700 | 6 080 500 | 6 282 100 | 6 479 800 |
| Average annual growth roover a 5-year period | ate | 0.69% | 0.66% | 0.65% | 0.62% |
| Percentage of population | | | | | |
| Aged 0-14 | 21% | 18% | 16% | 15% | 15% |
| Aged 15-64 | 70% | 72% | 72% | 73 % | 73 % |
| Aged 65 & over | 9% | 10% | 12% | 12% | 12% |
| | | | | | |
| Age dependency ratio | | | | | |
| Child dependency ratio | 297 | 253 | 225 | 211 | 208 |
| Elderly dependency ratio | 125 | 145 | 161 | 167 | 169 |
| Overall dependency ratio | 422 | 398 | 386 | 378 | 377 |
| | | | | | |
| Median age | 32 | 35 | 37 | 39 | 41 |

Table 2 Mid-Year Population Projections by Age Group and Sex

1991 (Mid-year Population Estimates)

| Age Group | Mal | e | Fen | nale | Tot | al |
|-----------|---------|-------|---------|-------|---------|-------|
| | (,000, | % | (,000) | % | (*000) | % |
| 0-4 | 186.9 | 6.4 | 173.5 | 6.2 | 360.4 | 6.3 |
| 5-9 | 211.4 | 7.3 | 195.4 | 7.0 | 406.8 | 7.2 |
| 10-14 | 218.1 | 7.5 | 200.9 | 7.2 | 419.0 | 7.4 |
| 15-19 | 219.0 | 7.5 | 201.4 | 7.2 | 420.4 | 7.4 |
| 20-24 | 219.7 | 7.6 | 220.0 | 7.9 | 439.7 | 7.7 |
| 25-29 | 286.5 | 9.9 | 296.5 | 10.7 | 583.0 | 10.3 |
| 30-34 | 312.3 | 10.8 | 303.9 | 10.9 | 616.2 | 10.8 |
| 35-39 | 263.3 | 9.1 | 248.6 | 8.9 | 511.9 | 9.0 |
| 40-44 | 222.4 | 7.7 | 197.0 | 7.1 | 419.4 | 7.4 |
| 45-49 | 139.9 | 4.8 | 113.8 | 4.1 | 253.7 | 4.5 |
| 50-54 | 139.0 | 4.8 | 114.3 | 4.1 | 253.3 | 4.5 |
| 55-59 | 139.5 | 4.8 | 122.2 | 4.4 | 261.7 | 4.6 |
| 60-64 | 124.2 | 4.3 | 116.9 | 4.2 | 241.1 | 4.2 |
| 65-69 | 92.9 | 3.2 | 98.1 | 3.5 | 191.0 | 3.4 |
| 70-74 | 64.1 | 2.2 | 75.3 | 2.7 | 139.4 | 2.5 |
| 75-79 | 39.5 | 1.4 | 53.7 | 1.9 | 93.2 | 1.6 |
| 80-84 | 16.4 | 0.6 | 30.3 | 1.1 | 46.7 | 0.8 |
| 85 & over | 7.5 | 0.3 | 22.2 | 0.8 | 29.7 | 0.5 |
| Total | 2 902.6 | 100.0 | 2 784.0 | 100.0 | 5 686.6 | 100.0 |
| | | | | | | |

Table 2 Mid-Year Population Projections
(Cont'd) by
Age Group and Sex

| '000) 180.2 204.0 219.5 213.7 218.3 275.4 315.6 275.5 233.2 | % 6.2 7.0 7.5 7.3 7.5 9.4 10.8 9.4 8.0 5.2 | (*000) 167.5 188.3 202.9 195.5 222.7 290.6 310.9 261.5 208.6 126.3 | % 6.0 6.7 7.2 6.9 7.9 10.3 11.1 9.3 7.4 4.5 | ('000) 347.7 392.3 422.4 409.2 441.0 566.0 626.5 537.0 441.8 | % 6.1 6.8 7.4 7.1 7.7 9.9 10.9 9.4 7.7 |
|--|---|--|---|---|--|
| 204.0 219.5 213.7 218.3 275.4 315.6 275.5 233.2 | 7.0 7.5 7.3 7.5 9.4 10.8 9.4 8.0 | 188.3 202.9 195.5 222.7 290.6 310.9 261.5 208.6 | 6.7 7.2 6.9 7.9 10.3 11.1 9.3 7.4 | 392.3 422.4 409.2 441.0 566.0 626.5 537.0 441.8 | 6.8 7.4 7.1 7.7 9.9 10.9 9.4 7.7 |
| 219.5 213.7 218.3 275.4 315.6 275.5 233.2 | 7.5 7.3 7.5 9.4 10.8 9.4 8.0 | 202.9 195.5 222.7 290.6 310.9 261.5 208.6 | 7.2 6.9 7.9 10.3 11.1 9.3 7.4 | 422.4 409.2 441.0 566.0 626.5 537.0 441.8 | 7.4 7.1 7.7 9.9 10.9 9.4 7.7 |
| 213.7 218.3 275.4 315.6 275.5 233.2 | 7.3 7.5 9.4 10.8 9.4 8.0 | 195.5 222.7 290.6 310.9 261.5 208.6 | 6.9 7.9 10.3 11.1 9.3 7.4 | 409.2 441.0 566.0 626.5 537.0 441.8 | 7.1 7.7 9.9 10.9 9.4 7.7 |
| 218.3 275.4 315.6 275.5 233.2 | 7.5 9.4 10.8 9.4 8.0 | 222.7 290.6 310.9 261.5 208.6 | 7.9 10.3 11.1 9.3 7.4 | 441.0 566.0 626.5 537.0 441.8 | 7.7 9.9 10.9 9.4 7.7 |
| 275.4 315.6 275.5 233.2 | 9.4 10.8 9.4 8.0 | 290.6 310.9 261.5 208.6 | 10.3 11.1 9.3 7.4 | 566.0 626.5 537.0 441.8 | 9.9 10.9 9.4 7.7 |
| 315.6 275.5 233.2 153.0 | 10.8 9.4 8.0 | 310.9 261.5 208.6 | 11.1 9.3 7.4 | 626.5 537.0 441.8 | 10.9 9.4 7.7 |
| 275.5 233.2 153.0 | 9.4 8.0 | 261.5 208.6 | 9.3 7.4 | 537.0 441.8 | 9.4 7.7 |
| 233.2 153.0 | 8.0 | 208.6 | 7.4 | 441.8 | 7.7 |
| 153.0 | | | | | |
| | 5.2 | 126.3 | 4.5 | 270.2 | |
| 125 5 | | | | 279.3 | 4.9 |
| 135.5 | 4.6 | 110.1 | 3.9 | 245.6 | 4.3 |
| 139.3 | 4.8 | 120.7 | 4.3 | 260.0 | 4.5 |
| 126.7 | 4.3 | 117.8 | 4.2 | 244.5 | 4.3 |
| 97.1 | 3.3 | 100.7 | 3.6 | 197.8 | 3.4 |
| 66.6 | 2.3 | 78.0 | 2.8 | 144.6 | 2.5 |
| 41.6 | 1.4 | 55.9 | 2.0 | 97.5 | 1.7 |
| 18.5 | 0.6 | 32.4 | 1.2 | 50.9 | 0.9 |
| 7.9 | 0.3 | 22.9 | 0.8 | 30.8 | 0.5 |
| 921.6 | 100.0 | 2 813.3 | 100.0 | 5 734.9 | 100.0 |
| | 97.1 66.6 41.6 18.5 7.9 | 97.1 3.3 66.6 2.3 41.6 1.4 18.5 0.6 | 97.1 3.3 100.7 66.6 2.3 78.0 41.6 1.4 55.9 18.5 0.6 32.4 7.9 0.3 22.9 | 97.1 3.3 100.7 3.6 66.6 2.3 78.0 2.8 41.6 1.4 55.9 2.0 18.5 0.6 32.4 1.2 7.9 0.3 22.9 0.8 | 97.1 3.3 100.7 3.6 197.8 66.6 2.3 78.0 2.8 144.6 41.6 1.4 55.9 2.0 97.5 18.5 0.6 32.4 1.2 50.9 7.9 0.3 22.9 0.8 30.8 |

Table 2 Mid-Year Population Projections (Cont'd) by Age Group and Sex

| ge Group | Mal | Male Female | | Total | | |
|-----------|---------|-------------|---------|-------|---------|-------|
| | (,000) | % | (000) | % | ('000') | % |
| 0-4 | 173.4 | 5.9 | 161.2 | 5.7 | 334.6 | 5.8 |
| 5-9 | 197.6 | 6.7 | 182.1 | 6.4 | 379.7 | 6.6 |
| 10-14 | 220.4 | 7.5 | 203.9 | 7.2 | 424.3 | 7.3 |
| 15-19 | 208.6 | 7.1 | 190.6 | 6.7 | 399.2 | 6.9 |
| 20-24 | 218.4 | 7.4 | 226.0 | 8.0 | 444.4 | 7.7 |
| 25-29 | 263.4 | 9.0 | 282.4 | 9.9 | 545.8 | 9.4 |
| 30-34 | 315.6 | 10.7 | 314.8 | 11.1 | 630.4 | 10.9 |
| 35-39 | 288.7 | 9.8 | 274.7 | 9.7 | 563.4 | 9.7 |
| 40-44 | 241.1 | 8.2 | 217.4 | 7.7 | 458.5 | 7.9 |
| 45-49 | 170.3 | 5.8 | 142.7 | 5.0 | 313.0 | 5.4 |
| 50-54 | 131.6 | 4.5 | 105.8 | 3.7 | 237.4 | 4.1 |
| 55-59 | 139.2 | 4.7 | 118.9 | 4.2 | 258.1 | 4.5 |
| 60-64 | 128.5 | 4.4 | 118.4 | 4.2 | 246.9 | 4.3 |
| 65-69 | 101.3 | 3.4 | 103.2 | 3.6 | 204.5 | 3.5 |
| 70-74 | 69.2 | 2.4 | 80.6 | 2.8 | 149.8 | 2.6 |
| 75-79 | 43.6 | 1.5 | 57.9 | 2.0 | 101.5 | 1.8 |
| 80-84 | 20.7 | 0.7 | 34.8 | 1.2 | 55.5 | 1.0 |
| 85 & over | 8.3 | 0.3 | 24.1 | 0.8 | 32.4 | 0.6 |
| Total | 2 939.9 | 100.0 | 2 839.5 | 100.0 | 5 779.4 | 100.0 |

Table 2 Mid-Year Population Projections
(Cont'd) by
Age Group and Sex

1994

| Age Group | Male | | ren | Female | | ıl |
|-----------|---------|-------|---------|--------|---------|-------|
| | (000°) | % | (,000) | % | (000) | % |
| 0- 4 | 165.7 | 5.6 | 154.4 | 5.4 | 320.1 | 5.5 |
| 5-9 | 194.2 | 6.6 | 178.8 | 6.2 | 373.0 | 6.4 |
| 10-14 | 218.5 | 7.4 | 202.0 | 7.1 | 420.5 | 7.2 |
| 15-19 | 204.9 | 6.9 | 187.9 | 6.6 | 392.8 | 6.8 |
| 20-24 | 217.5 | 7.4 | 226.7 | 7.9 | 444.2 | 7.6 |
| 25-29 | 251.2 | 8.5 | 275.3 | 9.6 | 526.5 | 9.1 |
| 30-34 | 311.3 | 10.5 | 315.8 | 11.0 | 627.1 | 10.8 |
| 35-39 | 300.7 | 10.2 | 287.3 | 10.0 | 588.0 | 10.1 |
| 40-44 | 247.2 | 8.4 | 224.9 | 7.9 | 472.1 | 8.1 |
| 45-49 | 189.2 | 6.4 | 160.9 | 5.6 | 350.1 | 6.0 |
| 50-54 | 129.4 | 4.4 | 103.3 | 3.6 | 232.7 | 4.0 |
| 55-59 | 138.4 | 4.7 | 116.8 | 4.1 | 255.2 | 4.4 |
| 60-64 | 129.9 | 4.4 | 118.3 | 4.1 | 248.2 | 4.3 |
| 65-69 | 105.3 | 3.6 | 105.5 | 3.7 | 210.8 | 3.6 |
| 70-74 | 72.1 | 2.4 | 83.3 | 2.9 | 155.4 | 2.7 |
| 75-79 | 45.4 | 1.5 | 59.9 | 2.1 | 105.3 | 1.8 |
| 80-84 | 22.8 | 0.8 | 37.2 | 1.3 | 60.0 | 1.0 |
| 85 & over | 9.0 | 0.3 | 25.3 | 0.9 | 34.3 | 0.6 |
| Total | 2 952.7 | 100.0 | 2 863.6 | 100.0 | 5 816.3 | 100.0 |

Table 2 Mid-Year Population Projections
(Cont'd) by
Age Group and Sex

| Age Group | Mal | Male Female | | Tota | Total | |
|-----------|---------|-------------|---------|-------|---------|-------|
| | (000) | % | (000) | % | (*000) | % |
| 0-4 | 161.6 | 5.5 | 150.9 | 5.2 | 312.5 | 5.3 |
| 5-9 | 190.0 | 6.4 | 175.1 | 6.1 | 365.1 | 6.2 |
| 10-14 | 214.0 | 7.2 | 197.4 | 6.8 | 411.4 | 7.0 |
| 15-19 | 203.0 | 6.8 | 186.7 | 6.5 | 389.7 | 6.7 |
| 20-24 | 215.0 | 7.3 | 224.8 | 7.8 | 439.8 | 7.5 |
| 25-29 | 241.4 | 8.1 | 272.1 | 9.4 | 513.5 | 8.8 |
| 30-34 | 303.7 | 10.2 | 313.4 | 10.9 | 617.1 | 10.5 |
| 35-39 | 309.8 | 10.5 | 298.1 | 10.3 | 607.9 | 10.4 |
| 40-44 | 254.1 | 8.6 | 233.1 | 8.1 | 487.2 | 8.3 |
| 45-49 | 206.7 | 7.0 | 178.1 | 6.2 | 384.8 | 6.6 |
| 50-54 | 131.1 | 4.4 | 104.7 | 3.6 | 235.8 | 4.0 |
| 55-59 | 136.9 | 4.6 | 114.0 | 3.9 | 250.9 | 4.3 |
| 60-64 | 130.7 | 4.4 | 117.7 | 4.1 | 248.4 | 4.2 |
| 65-69 | 109.0 | 3.7 | 107.5 | 3.7 | 216.5 | 3.7 |
| 70-74 | 75.2 | 2.5 | 86.0 | 3.0 | 161.2 | 2.8 |
| 75-79 | 47.4 | 1.6 | 61.9 | 2.1 | 109.3 | 1.9 |
| 80-84 | 24.8 | 0.8 | 39.4 | 1.4 | 64.2 | 1.1 |
| 85 & over | 10.0 | 0.3 | 26.9 | 0.9 | 36.9 | 0.6 |
| Total | 2 964.4 | 100.0 | 2 887.8 | 100.0 | 5 852.2 | 100.0 |

Table 2 Mid-Year Population Projections
(Cont'd) by
Age Group and Sex

| Age Group | Mal | le | Female | | Female Total | |
|-----------|---------|-------|---------|-------|--------------|-------|
| | (000) | % | ('000') | % | ('000') | % |
| 0- 4 | 159.9 | 5.4 | 149.8 | 5.1 | 309.7 | 5.3 |
| 5-9 | 185.1 | 6.2 | 170.5 | 5.9 | 355.6 | 6.0 |
| 10-14 | 207.7 | 7.0 | 190.9 | 6.6 | 398.6 | 6.8 |
| 15-19 | 203.0 | 6.8 | 187.4 | 6.4 | 390.4 | 6.6 |
| 20-24 | 210.3 | 7.1 | 220.9 | 7.6 | 431.2 | 7.3 |
| 25-29 | 234.5 | 7.9 | 272.3 | 9.4 | 506.8 | 8.6 |
| 30-34 | 292.7 | 9.8 | 308.3 | 10.6 | 601.0 | 10.2 |
| 35-39 | 315.0 | 10.6 | 305.7 | 10.5 | 620.7 | 10.5 |
| 40-44 | 262.8 | 8.8 | 243.1 | 8.3 | 505.9 | 8.6 |
| 45-49 | 220.6 | 7.4 | 192.4 | 6.6 | 413.0 | 7.0 |
| 50-54 | 138.2 | 4.6 | 111.1 | 3.8 | 249.3 | 4.2 |
| 55-59 | 134.4 | 4.5 | 110.6 | 3.8 | 245.0 | 4.2 |
| 60-64 | 131.2 | 4.4 | 116.6 | 4.0 | 247.8 | 4.2 |
| 65-69 | 112.1 | 3.8 | 109.0 | 3.7 | 221.1 | 3.8 |
| 70-74 | 78.6 | 2.6 | 88.6 | 3.0 | 167.2 | 2.8 |
| 75-79 | 49.5 | 1.7 | 64.0 | 2.2 | 113.5 | 1.9 |
| 80-84 | 26.5 | 0.9 | 41.5 | 1.4 | 68.0 | 1.2 |
| 85 & over | 11.2 | 0.4 | 28.7 | 1.0 | 39.9 | 0.7 |
| Total | 2 973.3 | 100.0 | 2 911.4 | 100.0 | 5 884.7 | 100.0 |

Table 2 Mid-Year Population Projections
(Cont'd) by
Age Group and Sex

| Age Group | Mal | Male Female To | | Tota | tal | |
|-----------|---------|----------------|---------|-------|---------|-------|
| | (000) | % | ('000') | % | (000) | % |
| 0-4 | 161.3 | 5.4 | 151.2 | 5.2 | 312.5 | 5.3 |
| 5-9 | 178.4 | 6.0 | 164.6 | 5.6 | 343.0 | 5.8 |
| 10-14 | 200.3 | 6.7 | 183.8 | 6.3 | 384.1 | 6.5 |
| 15-19 | 204.4 | 6.9 | 189.2 | 6.4 | 393.6 | 6.7 |
| 20-24 | 204.0 | 6.8 | 215.6 | 7.3 | 419.6 | 7.1 |
| 25-29 | 230.8 | 7.7 | 275.2 | 9.4 | 506.0 | 8.6 |
| 30-34 | 279.5 | 9.4 | 300.4 | 10.2 | 579.9 | 9.8 |
| 35-39 | 316.7 | 10.6 | 311.2 | 10.6 | 627.9 | 10.6 |
| 40-44 | 273.3 | 9.2 | 254.7 | 8.7 | 528.0 | 8.9 |
| 45-49 | 230.6 | 7.7 | 203.0 | 6.9 | 433.6 | 7.3 |
| 50-54 | 150.8 | 5.1 | 123.1 | 4.2 | 273.9 | 4.6 |
| 55-59 | 131.0 | 4.4 | 106.5 | 3.6 | 237.5 | 4.0 |
| 60-64 | 131.3 | 4.4 | 115.1 | 3.9 | 246.4 | 4.2 |
| 65-69 | 114.4 | 3.8 | 110.0 | 3.7 | 224.4 | 3.8 |
| 70-74 | 82.4 | 2.8 | 91.1 | 3.1 | 173.5 | 2.9 |
| 75-79 | 51.6 | 1.7 | 66.5 | 2.3 | 118.1 | 2.0 |
| 80-84 | 28.0 | 0.9 | 43.3 | 1.5 | 71.3 | 1.2 |
| 85 & over | 12.7 | 0.4 | 30.9 | 1.1 | 43.6 | 0.7 |
| Total | 2 981.5 | 100.0 | 2 935.4 | 100.0 | 5 916.9 | 100.0 |

Table 2 Mid-Year Population Projections
(Cont'd) by
Age Group and Sex

| Age Group | Mal | Male Female | | Tota | Total | |
|-----------|---------|-------------|---------|-------|---------|-------|
| - | (,000) | % | ('000') | % | (*000) | % |
| 0- 4 | 163.9 | 5.5 | 153.6 | 5.2 | 317.5 | 5.3 |
| 5-9 | 171.6 | 5.7 | 158.4 | 5.3 | 330.0 | 5.5 |
| 10-14 | 193.9 | 6.5 | 177.7 | 6.0 | 371.6 | 6.2 |
| 15-19 | 205.3 | 6.9 | 190.1 | 6.4 | 395.4 | 6.6 |
| 20-24 | 198.4 | 6.6 | 211.7 | 7.1 | 410.1 | 6.9 |
| 25-29 | 229.1 | 7.7 | 279.5 | 9.4 | 508.6 | 8.5 |
| 30-34 | 265.9 | 8.9 | 291.5 | 9.8 | 557.4 | 9.4 |
| 35-39 | 315.4 | 10.5 | 314.4 | 10.6 | 629.8 | 10.6 |
| 40-44 | 285.4 | 9.5 | 267.1 | 9.0 | 552.5 | 9.3 |
| 45-49 | 237.7 | 7.9 | 211.2 | 7.1 | 448.9 | 7.5 |
| 50-54 | 167.6 | 5.6 | 139.2 | 4.7 | 306.8 | 5.2 |
| 55-59 | 127.3 | 4.3 | 102.1 | 3.4 | 229.4 | 3.9 |
| 60-64 | 131.1 | 4.4 | 113.5 | 3.8 | 244.6 | 4.1 |
| 65-69 | 116.4 | 3.9 | 110.6 | 3.7 | 227.0 | 3.8 |
| 70-74 | 86.1 | 2.9 | 93.6 | 3.2 | 179.7 | 3.0 |
| 75-79 | 53.8 | 1.8 | 68.9 | 2.3 | 122.7 | 2.1 |
| 80-84 | 29.5 | 1.0 | 45.0 | 1.5 | 74.5 | 1.3 |
| 85 & over | 14.4 | 0.5 | 33.2 | 1.1 | 47.6 | 0.8 |
| Total | 2 992.8 | 100.0 | 2 961.3 | 100.0 | 5 954.1 | 100.0 |
| | | | | | | |

Table 2 Mid-Year Population Projections
(Cont'd) by
Age Group and Sex

| Age Group | Male | | Female | | Total | |
|-----------|---------|-------|---------|-------|---------|-------|
| | (000) | % | ('000) | % | ('000) | % |
| 0-4 | 167.5 | 5.6 | 157.0 | 5.3 | 324.5 | 5.4 |
| 5-9 | 164.0 | 5.5 | 151.6 | 5.1 | 315.6 | 5.3 |
| 10-14 | 190.5 | 6.3 | 174.4 | 5.8 | 364.9 | 6.1 |
| 15-19 | 203.5 | 6.8 | 188.2 | 6.3 | 391.7 | 6.5 |
| 20-24 | 195.0 | 6.5 | 210.7 | 7.0 | 405.7 | 6.8 |
| 25-29 | 228.2 | 7.6 | 282.5 | 9.5 | 510.7 | 8.5 |
| 30-34 | 253.7 | 8.4 | 284.3 | 9.5 | 538.0 | 9.0 |
| 35-39 | 311.0 | 10.3 | 315.0 | 10.5 | 626.0 | 10.4 |
| 40-44 | 297.3 | 9.9 | 279.1 | 9.3 | 576.4 | 9.6 |
| 45-49 | 243.7 | 8.1 | 218.1 | 7.3 | 461.8 | 7.7 |
| 50-54 | 186.4 | 6.2 | 157.0 | 5.3 | 343.4 | 5.7 |
| 55-59 | 125.2 | 4.2 | 99.7 | 3.3 | 224.9 | 3.8 |
| 60-64 | 130.5 | 4.3 | 111.5 | 3.7 | 242.0 | 4.0 |
| 65-69 | 117.7 | 3.9 | 110.7 | 3.7 | 228.4 | 3.8 |
| 70-74 | 89.8 | 3.0 | 95.7 | 3.2 | 185.5 | 3.1 |
| 75-79 | 56.2 | 1.9 | 71.4 | 2.4 | 127.6 | 2.1 |
| 80-84 | 30.9 | 1.0 | 46.7 | 1.6 | 77.6 | 1.3 |
| 85 & over | 15.9 | 0.5 | 35.7 | 1.2 | 51.6 | 0.9 |
| Total | 3 007.0 | 100.0 | 2 989.3 | 100.0 | 5 996.3 | 100.0 |

Table 2 Mid-Year Population Projections
(Cont'd) by
Age Group and Sex

| Age Group | Male | | Female | | Total | |
|-----------|---------|-------|---------|-------|---------|-------|
| | (000) | % | ('000) | % | (000) | % |
| 0- 4 | 171.0 | 5.7 | 160.3 | 5.3 | 331.3 | 5.5 |
| 5-9 | 159.9 | 5.3 | 148.2 | 4.9 | 308.1 | 5.1 |
| 10-14 | 186.4 | 6.2 | 170.7 | 5.7 | 357.1 | 5.9 |
| 15-19 | 199.1 | 6.6 | 183.7 | 6.1 | 382.8 | 6.3 |
| 20-24 | 193.2 | 6.4 | 211.4 | 7.0 | 404.6 | 6.7 |
| 25-29 | 226.1 | 7.5 | 283.3 | 9.4 | 509.4 | 8.4 |
| 30-34 | 244.5 | 8.1 | 281.0 | 9.3 | 525.5 | 8.7 |
| 35-39 | 303.8 | 10.1 | 312.3 | 10.3 | 616.1 | 10.2 |
| 40-44 | 306.6 | 10.1 | 289.3 | 9.6 | 595.9 | 9.9 |
| 45-49 | 250.7 | 8.3 | 225.7 | 7.5 | 476.4 | 7.9 |
| 50-54 | 203.6 | 6.7 | 173.9 | 5.8 | 377.5 | 6.3 |
| 55-59 | 127.0 | 4.2 | 101.1 | 3.4 | 228.1 | 3.8 |
| 60-64 | 129.2 | 4.3 | 108.8 | 3.6 | 238.0 | 3.9 |
| 65-69 | 118.6 | 3.9 | 110.2 | 3.7 | 228.8 | 3.8 |
| 70-74 | 93.1 | 3.1 | 97.6 | 3.2 | 190.7 | 3.2 |
| 75-79 | 58.8 | 1.9 | 73.8 | 2.4 | 132.6 | 2.2 |
| 80-84 | 32.4 | 1.1 | 48.4 | 1.6 | 80.8 | 1.3 |
| 85 & over | 17.6 | 0.6 | 38.2 | 1.3 | 55.8 | 0.9 |
| Total | 3 021.6 | 100.0 | 3 017.9 | 100.0 | 6 039.5 | 100.0 |

Table 2 Mid-Year Population Projections
(Cont'd) by
Age Group and Sex

| Age Group | Ma | le | Fen | nale | Tota | ıl |
|-----------|---------|-------|---------|-------|---------|-------|
| | (000') | % | ('000') | % | ('000') | % |
| 0- 4 | 173.6 | 5.7 | 162.6 | 5.3 | 336.2 | 5.5 |
| 5-9 | 158.3 | 5.2 | 147.1 | 4.8 | 305.4 | 5.0 |
| 10-14 | 181.4 | 6.0 | 166.2 | 5.5 | 347.6 | 5.7 |
| 15-19 | 192.7 | 6.4 | 177.2 | 5.8 | 369.9 | 6.1 |
| 20-24 | 193.5 | 6.4 | 213.7 | 7.0 | 407.2 | 6.7 |
| 25-29 | 222.3 | 7.3 | 282.7 | 9.3 | 505.0 | 8.3 |
| 30-34 | 238.4 | 7.9 | 281.7 | 9.2 | 520.1 | 8.6 |
| 35-39 | 293.7 | 9.7 | 307.0 | 10.1 | 600.7 | 9.9 |
| 40-44 | 312.3 | 10.3 | 296.6 | 9.7 | 608.9 | 10.0 |
| 45-49 | 259.7 | 8.6 | 235.2 | 7.7 | 494.9 | 8.1 |
| 50-54 | 217.6 | 7.2 | 187.8 | 6.2 | 405.4 | 6.7 |
| 55-59 | 134.1 | 4.4 | 107.3 | 3.5 | 241.4 | 4.0 |
| 60-64 | 127.0 | 4.2 | 105.6 | 3.5 | 232.6 | 3.8 |
| 65-69 | 119.2 | 3.9 | 109.2 | 3.6 | 228.4 | 3.8 |
| 70-74 | 95.9 | 3.2 | 99.1 | 3.3 | 195.0 | 3.2 |
| 75-79 | 61.7 | 2.0 | 76.1 | 2.5 | 137.8 | 2.3 |
| 80-84 | 34.1 | 1.1 | 50.1 | 1.6 | 84.2 | 1.4 |
| 85 & over | 19.1 | 0.6 | 40.7 | 1.3 | 59.8 | 1.0 |
| Total | 3 034.6 | 100.0 | 3 045.9 | 100.0 | 6 080.5 | 100.0 |
| | | | | | | |
| | | | | | | |

Table 2 Mid-Year Population Projections
(Cont'd) by
Age Group and Sex

| Age Group | Male | | Fem | ale | Total | |
|-----------|---------|-------|---------|-------|---------|------|
| | (000) | % | (000) | % | (000) | % |
| 0- 4 | 175.0 | 5.7 | 164.0 | 5.3 | 339.0 | 5.5 |
| 5-9 | 159.8 | 5.2 | 148.5 | 4.8 | 308.3 | 5.0 |
| 10-14 | 174.7 | 5.7 | 160.3 | 5.2 | 335.0 | 5.5 |
| 15-19 | 185.4 | 6.1 | 170.1 | 5.5 | 355.5 | 5.8 |
| 20-24 | 195.0 | 6.4 | 217.3 | 7.1 | 412.3 | 6.1 |
| 25-29 | 217.2 | 7.1 | 280.8 | 9.1 | 498.0 | 8. |
| 30-34 | 236.1 | 7.7 | 285.0 | 9.3 | 521.1 | 8.3 |
| 35-39 | 281.6 | 9.2 | 299.0 | 9.7 | 580.6 | 9.5 |
| 40-44 | 314.5 | 10.3 | 301.6 | 9.8 | 616.1 | 10. |
| 45-49 | 270.8 | 8.9 | 246.3 | 8.0 | 517.1 | 8.4 |
| 50-54 | 227.6 | 7.5 | 198.2 | 6.4 | 425.8 | 7.0 |
| 55-59 | 146.5 | 4.8 | 119.2 | 3.9 | 265.7 | 4.3 |
| 60-64 | 123.9 | 4.1 | 101.6 | 3.3 | 225.5 | 3. |
| 65-69 | 119.5 | 3.9 | 107.8 | 3.5 | 227.3 | 3. |
| 70-74 | 98.1 | 3.2 | 100.1 | 3.3 | 198.2 | 3. |
| 75-79 | 64.9 | 2.1 | 78.4 | 2.6 | 143.3 | 2.3 |
| 80-84 | 35.7 | 1.2 | 52.2 | 1.7 | 87.9 | 1. |
| 85 & over | 20.7 | 0.7 | 43.2 | 1.4 | 63.9 | 1.0 |
| Total | 3 047.0 | 100.0 | 3 073.6 | 100.0 | 6 120.6 | 100. |

Table 2 Mid-Year Population Projections
(Cont'd) by
Age Group and Sex

| Age Group | Male | | Fem | Female | | al |
|-----------|---------|-------|---------|--------|---------|-------|
| | (000°) | % | (000) | % | ('000') | % |
| 0-4 | 175.3 | 5.7 | 164.4 | 5.3 | 339.7 | 5.5 |
| 5-9 | 162.4 | 5.3 | 151.0 | 4.9 | 313.4 | 5.1 |
| 10-14 | 167.9 | 5.5 | 154.1 | 5.0 | 322.0 | 5.2 |
| 15-19 | 179.0 | 5.8 | 164.0 | 5.3 | 343.0 | 5.6 |
| 20-24 | 196.2 | 6.4 | 220.1 | 7.1 | 416.3 | 6.8 |
| 25-29 | 212.6 | 6.9 | 280.1 | 9.0 | 492.7 | 8.0 |
| 30-34 | 235.4 | 7.7 | 289.5 | 9.3 | 524.9 | 8.5 |
| 35-39 | 268.8 | 8.8 | 290.1 | 9.4 | 558.9 | 9. |
| 40-44 | . 314.1 | 10.3 | 304.3 | 9.8 | 618.4 | 10.0 |
| 45-49 | 283.1 | 9.3 | 258.2 | 8.3 | 541.3 | 8.8 |
| 50-54 | 234.8 | 7.7 | 206.1 | 6.6 | 440.9 | 7.2 |
| 55-59 | 162.9 | 5.3 | 135.0 | 4.4 | 297.9 | 4.5 |
| 60-64 | 120.5 | 3.9 | 97.4 | 3.1 | 217.9 | 3.5 |
| 65-69 | 119.5 | 3.9 | 106.3 | 3.4 | 225.8 | 3.7 |
| 70-74 | 99.9 | 3.3 | 100.7 | 3.2 | 200.6 | 3.3 |
| 75-79 | 68.0 | 2.2 | 80.6 | 2.6 | 148.6 | 2.4 |
| 80-84 | 37.4 | 1.2 | 54.1 | 1.7 | 91.5 | 1.5 |
| 85 & over | 22.2 | 0.7 | 45.7 | 1.5 | 67.9 | 1. |
| Total | 3 060.0 | 100.0 | 3 101.7 | 100.0 | 6 161.7 | 100.0 |

Table 2 Mid-Year Population Projections
(Cont'd) by
Age Group and Sex

| Age Group | Male | | Female | | Total | |
|-----------|---------|-------|---------|-------|---------|-------|
| | ('000) | % | (000°) | % | ('000') | % |
| 0-4 | 174.5 | 5.7 | 163.5 | 5.2 | 338.0 | 5.4 |
| 5-9 | 166.0 | 5.4 | 154.4 | 4.9 | 320.4 | 5.2 |
| 10-14 | 160.3 | 5.2 | 147.3 | 4.7 | 307.6 | 5.0 |
| 15-19 | 175.8 | 5.7 | 160.7 | 5.1 | 336.5 | 5.4 |
| 20-24 | 194.6 | 6.3 | 220.0 | 7.0 | 414.6 | 6.7 |
| 25-29 | 209.5 | 6.8 | 281.9 | 9.0 | 491.4 | 7.9 |
| 30-34 | 235.0 | 7.6 | 292.7 | 9.4 | 527.7 | 8.5 |
| 35-39 | 257.1 | 8.4 | 282.6 | 9.0 | 539.7 | 8.7 |
| 40-44 | 309.8 | 10.1 | 304.5 | 9.7 | 614.3 | 9.9 |
| 45-49 | 294.8 | 9.6 | 269.8 | 8.6 | 564.6 | 9.1 |
| 50-54 | 240.8 | 7.8 | 212.8 | 6.8 | 453.6 | 7.3 |
| 55-59 | 181.1 | 5.9 | 152.6 | 4.9 | 333.7 | 5.4 |
| 60-64 | 118.7 | 3.9 | 95.0 | 3.0 | 213.7 | 3.4 |
| 65-69 | 119.2 | 3.9 | 104.4 | 3.3 | 223.6 | 3.6 |
| 70-74 | 101.3 | 3.3 | 100.8 | 3.2 | 202.1 | 3.3 |
| 75-79 | 71.0 | 2.3 | 82.5 | 2.6 | 153.5 | 2.5 |
| 80-84 | 39.2 | 1.3 | 56.2 | 1.8 | 95.4 | 1.5 |
| 85 & over | 23.7 | 0.8 | 48.1 | 1.5 | 71.8 | 1.2 |
| Total | 3 072.4 | 100.0 | 3 129.8 | 100.0 | 6 202.2 | 100.0 |

Table 2 Mid-Year Population Projections
(Cont'd) by
Age Group and Sex

| Age Group | Male | | Fen | nale | Total | |
|-----------|---------|-------|---------|-------|---------|-------|
| | (000°) | % | ('000') | % | ('000') | % |
| 0-4 | 173.0 | 5.6 | 162.0 | 5.1 | 335.0 | 5.4 |
| 5-9 | 169.5 | 5.5 | 157.8 | 5.0 | 327.3 | 5.2 |
| 10-14 | 156.4 | 5.1 | 143.8 | 4.6 | 300.2 | 4.8 |
| 15-19 | 171.6 | 5.6 | 157.1 | 5.0 | 328.7 | 5.3 |
| 20-24 | 190.5 | 6.2 | 217.3 | 6.9 | 407.8 | 6.5 |
| 25-29 | 208.3 | 6.8 | 285.2 | 9.0 | 493.5 | 7.9 |
| 30-34 | 233.4 | 7.6 | 293.5 | 9.3 | 526.9 | 8.4 |
| 35-39 | 248.2 | 8.0 | 279.2 | 8.8 | 527.4 | 8.4 |
| 40-44 | 302.8 | 9.8 | 301.4 | 9.5 | 604.2 | 9.7 |
| 45-49 | 304.3 | 9.9 | 279.3 | 8.8 | 583.6 | 9.3 |
| 50-54 | 247.9 | 8.0 | 220.2 | 7.0 | 468.1 | 7.: |
| 55-59 | 197.9 | 6.4 | 169.2 | 5.4 | 367.1 | 5.9 |
| 60-64 | 120.5 | 3.9 | 96.4 | 3.1 | 216.9 | 3.5 |
| 65-69 | 118.0 | 3.8 | 101.9 | 3.2 | 219.9 | 3.: |
| 70-74 | 102.2 | 3.3 | 100.5 | 3.2 | 202.7 | 3.2 |
| 75-79 | 73.8 | 2.4 | 84.2 | 2.7 | 158.0 | 2.: |
| 80-84 | 41.1 | 1.3 | 58.1 | 1.8 | 99.2 | 1.0 |
| 85 & over | 25.1 | 0.8 | 50.7 | 1.6 | 75.8 | 1.3 |
| Total | 3 084.5 | 100.0 | 3 157.8 | 100.0 | 6 242.3 | 100.0 |
| | | | | | | |
| | | | | | | |

Table 2 Mid-Year Population Projections
(Cont'd) by
Age Group and Sex

| Age Group | Male | | Female | | Total | |
|-----------|---------|-------|---------|-------|---------|-------|
| | (000') | % | ('000') | % | (000°) | % |
| 0-4 | 171.6 | 5.5 | 160.8 | 5.0 | 332.4 | 5.3 |
| 5-9 | 172.0 | 5.6 | 160.2 | 5.0 | 332.2 | 5.3 |
| 10-14 | 154.6 | 5.0 | 142.9 | 4.5 | 297.5 | 4.7 |
| 15-19 | 166.7 | 5.4 | 152.6 | 4.8 | 319.3 | 5.1 |
| 20-24 | 184.4 | 6.0 | 212.7 | 6.7 | 397.1 | 6.3 |
| 25-29 | 209.3 | 6.8 | 290.6 | 9.1 | 499.9 | 8.0 |
| 30-34 | 230.4 | 7.4 | 293.0 | 9.2 | 523.4 | 8.3 |
| 35-39 | 243.0 | 7.8 | 279.4 | 8.8 | 522.4 | 8.3 |
| 40-44 | 293.5 | 9.5 | 295.5 | 9.3 | 589.0 | 9.4 |
| 45-49 | 310.3 | 10.0 | 286.0 | 9.0 | 596.3 | 9.5 |
| 50-54 | 256.9 | 8.3 | 229.5 | 7.2 | 486.4 | 7.7 |
| 55-59 | 211.5 | 6.8 | 182.9 | 5.7 | 394.4 | 6.3 |
| 60-64 | 127.3 | 4.1 | 102.6 | 3.2 | 229.9 | 3.7 |
| 65-69 | 116.1 | 3.7 | 98.9 | 3.1 | 215.0 | 3.4 |
| 70-74 | 102.8 | 3.3 | 99.6 | 3.1 | 202.4 | 3.2 |
| 75-79 | 76.1 | 2.5 | 85.5 | 2.7 | 161.6 | 2.6 |
| 80-84 | 43.2 | 1.4 | 60.0 | 1.9 | 103.2 | 1.6 |
| 85 & over | 26.5 | 0.9 | 53.2 | 1.7 | 79.7 | 1.3 |
| Total | 3 096.2 | 100.0 | 3 185.9 | 100.0 | 6 282.1 | 100.0 |

Table 2 Mid-Year Population Projections
(Cont'd) by
Age Group and Sex

| Age Group | Male | | Female | | Total | |
|-----------|---------|-------|---------|-------|---------|-------|
| | (000) | % | ('000') | % | ('000) | % |
| 0-4 | 170.5 | 5.5 | 159.8 | 5.0 | 330.3 | 5.2 |
| 5-9 | 173.6 | 5.6 | 161.6 | 5.0 | 335.2 | 5.3 |
| 10-14 | 156.1 | 5.0 | 144.3 | 4.5 | 300.4 | 4.8 |
| 15-19 | 160.1 | 5.2 | 146.8 | 4.6 | 306.9 | 4.9 |
| 20-24 | 177.4 | 5.7 | 207.4 | 6.5 | 384.8 | 6.1 |
| 25-29 | 211.6 | 6.8 | 297.2 | 9.2 | 508.8 | 8.0 |
| 30-34 | 226.1 | 7.3 | 291.4 | 9.1 | 517.5 | 8.2 |
| 35-39 | 241.3 | 7.8 | 282.5 | 8.8 | 523.8 | 8.3 |
| 40-44 | 282.0 | 9.1 | 287.0 | 8.9 | 569.0 | 9.0 |
| 45-49 | 312.8 | 10.1 | 290.6 | 9.0 | 603.4 | 9.5 |
| 50-54 | 268.0 | 8.6 | 240.3 | 7.5 | 508.3 | 8.0 |
| 55-59 | 221.2 | 7.1 | 193.2 | 6.0 | 414.4 | 6.6 |
| 60-64 | 139.3 | 4.5 | 114.2 | 3.6 | 253.5 | 4.0 |
| 65-69 | 113.3 | 3.6 | 95.1 | 3.0 | 208.4 | 3.3 |
| 70-74 | 103.1 | 3.3 | 98.5 | 3.1 | 201.6 | 3.2 |
| 75-79 | 77.9 | 2.5 | 86.5 | 2.7 | 164.4 | 2.6 |
| 80-84 | 45.4 | 1.5 | 61.9 | 1.9 | 107.3 | 1.7 |
| 85 & over | 27.9 | 0.9 | 55.8 | 1.7 | 83.7 | 1.3 |
| Total | 3 107.6 | 100.0 | 3 214.1 | 100.0 | 6 321.7 | 100.0 |

Table 2 Mid-Year Population Projections
(Cont'd) by
Age Group and Sex

| Age Group | Male | | Fen | Female | | Total | |
|-----------|---------|-------|---------|--------|---------|-------|--|
| | (000°) | % | ('000) | % | ('000') | % | |
| 0-4 | 169.7 | 5.4 | 159.0 | 4.9 | 328.7 | 5.2 | |
| 5-9 | 174.0 | 5.6 | 162.0 | 5.0 | 336.0 | 5.3 | |
| 10-14 | 158.8 | 5.1 | 146.7 | 4.5 | 305.5 | 4.8 | |
| 15-19 | 153.4 | 4.9 | 140.6 | 4.3 | 294.0 | 4.6 | |
| 20-24 | 171.2 | 5.5 | 203.3 | 6.3 | 374.5 | 5.9 | |
| 25-29 | 213.3 | 6.8 | 302.8 | 9.3 | 516.1 | 8.1 | |
| 30-34 | 222.0 | 7.1 | 290.8 | 9.0 | 512.8 | 8.1 | |
| 35-39 | 241.0 | 7.7 | 286.9 | 8.8 | 527.9 | 8.3 | |
| 40-44 | 269.5 | 8.6 | 277.6 | 8.6 | 547.1 | 8.6 | |
| 45-49 | 312.3 | 10.0 | 292.8 | 9.0 | 605.1 | 9.5 | |
| 50-54 | 280.2 | 9.0 | 252.0 | 7.8 | 532.2 | 8.4 | |
| 55-59 | 228.4 | 7.3 | 200.9 | 6.2 | 429.3 | 6.7 | |
| 60-64 | 155.0 | 5.0 | 129.7 | 4.0 | 284.7 | 4.5 | |
| 65-69 | 110.3 | 3.5 | 91.1 | 2.8 | 201.4 | 3.2 | |
| 70-74 | 103.4 | 3.3 | 97.1 | 3.0 | 200.5 | 3.2 | |
| 75-79 | 79.4 | 2.5 | 87.1 | 2.7 | 166.5 | 2.6 | |
| 80-84 | 47.7 | 1.5 | 63.7 | 2.0 | 111.4 | 1.8 | |
| 85 & over | 29.3 | 0.9 | 58.3 | 1.8 | 87.6 | 1.4 | |
| Total | 3 118.9 | 100.0 | 3 242.4 | 100.0 | 6 361.3 | 100.0 | |

Table 2 Mid-Year Population Projections
(Cont'd) by
Age Group and Sex

| | (1000) | | | Female | | Total | |
|-----------|---------|-------|---------|--------|---------|-------|--|
| | (000) | % | (000) | % | (000) | % | |
| 0-4 | 169.0 | 5.4 | 158.4 | 4.8 | 327.4 | 5.1 | |
| 5-9 | 173.1 | 5.5 | 161.2 | 4.9 | 334.3 | 5.2 | |
| 10-14 | 162.3 | 5.2 | 150.2 | 4.6 | 312.5 | 4.9 | |
| 15-19 | 145.8 | 4.7 | 133.9 | 4.1 | 279.7 | 4.4 | |
| 20-24 | 168.2 | 5.4 | 201.8 | 6.2 | 370.0 | 5.8 | |
| 25-29 | 212.2 | 6.8 | 305.5 | 9.3 | 517.7 | 8. | |
| 30-34 | 219.6 | 7.0 | 292.7 | 8.9 | 512.3 | 8.0 | |
| 35-39 | 241.1 | 7.7 | 289.7 | 8.9 | 530.8 | 8.3 | |
| 40-44 | 258.2 | 8.2 | 269.7 | 8.2 | 527.9 | 8.2 | |
| 45-49 | 308.7 | 9.9 | 292.2 | 8.9 | 600.9 | 9.4 | |
| 50-54 | 292.2 | 9.3 | 263.0 | 8.0 | 555.2 | 8.7 | |
| 55-59 | 234.3 | 7.5 | 207.5 | 6.3 | 441.8 | 6.9 | |
| 60-64 | 172.4 | 5.5 | 146.9 | 4.5 | 319.3 | 5.0 | |
| 65-69 | 108.7 | 3.5 | 88.9 | 2.7 | 197.6 | 3.1 | |
| 70-74 | 103.0 | 3.3 | 95.5 | 2.9 | 198.5 | 3. | |
| 75-79 | 80.6 | 2.6 | 87.3 | 2.7 | 167.9 | 2.0 | |
| 80-84 | 49.8 | 1.6 | 65.4 | 2.0 | 115.2 | 1.3 | |
| 85 & over | 30.8 | 1.0 | 61.0 | 1.9 | 91.8 | 1.4 | |
| Total | 3 130.0 | 100.0 | 3 270.8 | 100.0 | 6 400.8 | 100.0 | |

Table 2 Mid-Year Population Projections
(Cont'd) by
Age Group and Sex

| Age Group | Male | | Female | | Total | |
|-----------|---------|-------|---------|-------|---------|-------|
| | (000) | % | ('000') | % | ('000') | % |
| 0- 4 | 168.5 | 5.4 | 157.9 | 4.8 | 326.4 | 5. |
| 5-9 | 171.6 | 5.5 | 159.8 | 4.8 | 331.4 | 5. |
| 10-14 | 165.9 | 5.3 | 153.5 | 4.7 | 319.4 | 5.0 |
| 15-19 | 141.8 | 4.5 | 130.5 | 4.0 | 272.3 | 4.2 |
| 20-24 | 164.3 | 5.2 | 200.0 | 6.1 | 364.3 | 5.7 |
| 25-29 | 208.6 | 6.6 | 305.6 | 9.3 | 514.2 | 8.0 |
| 30-34 | 218.8 | 7.0 | 296.2 | 9.0 | 515.0 | 8.0 |
| 35-39 | 240.0 | 7.6 | 290.2 | 8.8 | 530.2 | 8.2 |
| 40-44 | 249.7 | 7.9 | 265.7 | 8.1 | 515.4 | 8.0 |
| 45-49 | 302.2 | 9.6 | 288.6 | 8.7 | 590.8 | 9.2 |
| 50-54 | 301.6 | 9.6 | 272.5 | 8.3 | 574.1 | 8.9 |
| 55-59 | 241.2 | 7.7 | 214.8 | 6.5 | 456.0 | 7.1 |
| 60-64 | 188.4 | 6.0 | 163.2 | 4.9 | 351.6 | 5.5 |
| 65-69 | 110.6 | 3.5 | 90.3 | 2.7 | 200.9 | 3.1 |
| 70-74 | 102.2 | 3.3 | 93.2 | 2.8 | 195.4 | 3.0 |
| 75-79 | 81.4 | 2.6 | 87.0 | 2.6 | 168.4 | 2.6 |
| 80-84 | 51.8 | 1.6 | 66.7 | 2.0 | 118.5 | 1.8 |
| 85 & over | 32.4 | 1.0 | 63.6 | 1.9 | 96.0 | 1.5 |
| Total | 3 141.0 | 100.0 | 3 299.3 | 100.0 | 6 440.3 | 100.0 |

Table 2 Mid-Year Population Projections
(Cont'd) by
Age Group and Sex

| Age Group | Male | | Female | | Total | |
|-----------|---------|-------|---------|-------|---------|-------|
| | ('000) | % | ('000') | % | (000) | % |
| 0- 4 | 168.1 | 5.3 | 157.5 | 4.7 | 325.6 | 5.0 |
| 5-9 | 170.3 | 5.4 | 158.6 | 4.8 | 328.9 | 5.1 |
| 10-14 | 168.5 | 5.3 | 155.9 | 4.7 | 324.4 | 5.0 |
| 15-19 | 140.2 | 4.4 | 129.5 | 3.9 | 269.7 | 4.2 |
| 20-24 | 159.7 | 5.1 | 197.3 | 5.9 | 357.0 | 5.5 |
| 25-29 | 203.1 | 6.4 | 303.8 | 9.1 | 506.9 | 7.8 |
| 30-34 | 220.4 | 7.0 | 301.6 | 9.1 | 522.0 | 8.1 |
| 35-39 | 237.4 | 7.5 | 289.6 | 8.7 | 527.0 | 8.1 |
| 40-44 | 244.8 | 7.8 | 265.5 | 8.0 | 510.3 | 7.9 |
| 45-49 | 292.8 | 9.3 | 282.4 | 8.5 | 575.2 | 8.9 |
| 50-54 | 307.5 | 9.8 | 278.8 | 8.4 | 586.3 | 9.0 |
| 55-59 | 250.2 | 7.9 | 223.9 | 6.7 | 474.1 | 7.3 |
| 60-64 | 201.5 | 6.4 | 176.6 | 5.3 | 378.1 | 5.8 |
| 65-69 | 117.1 | 3.7 | 96.3 | 2.9 | 213.4 | 3.3 |
| 70-74 | 100.6 | 3.2 | 90.4 | 2.7 | 191.0 | 2.9 |
| 75-79 | 82.0 | 2.6 | 86.3 | 2.6 | 168.3 | 2.6 |
| 80-84 | 53.5 | 1.7 | 67.8 | 2.0 | 121.3 | 1.9 |
| 85 & over | 34.1 | 1.1 | 66.2 | 2.0 | 100.3 | 1.5 |
| Total | 3 151.8 | 100.0 | 3 328.0 | 100.0 | 6 479.8 | 100.0 |

3. PROJECTION METHODOLOGY

Population Projection

The standard method of population projection is known as the "component method". Following the method, a population at a certain base year is brought forward by age and sex under separate projections of fertility, mortality and migration, year after year until the end of the projection period.

The base for the projection is first established using the 1991 Population Census results, which provides up-to-date information on the size and age-sex structure of the population. In constructing the base population, the Census population on 15 March 1991 was first adjusted for the under-reporting of children aged 0-4, and then brought forward to mid-1991, applying an age incrementation process and taking into account births, deaths and migration during the period from 15 March to 30 June in 1991.

Based on the projected future levels of fertility, mortality, migration and the assumed number of persons staying in Hong Kong temporarily, the projection of the population and its age-sex structure is then worked out for each year by repeatedly applying the following algorithm:

- (i) The projected forward survival ratios¹ by age and sex are applied to the base/projected population (excluding persons staying in Hong Kong temporarily) at the beginning of a year to derive the surviving population at the end of that year.
- (ii) The assumed net balance of migration is added to the surviving population at the end of that year.
- (iii) The fertility factor is introduced to obtain the total number of births. The projected age-specific fertility rates are applied to the average number of women at each of the childbearing ages 15-49. These births, after being divided into males and females by an average sex ratio at birth², are

Forward survival ratio determines the proportion of persons surviving from exact age x to x+1.

The average sex ratio at birth is 1 067 males per 1 000 females according to births delivered in the period 1971-1990.

subjected to their respective projected forward survival ratios. The surviving population aged 0 by sex at the end of that year is then derived.

(iv) The projected number of persons staying in Hong Kong temporarily is added in to give the total population. As these persons are not normally living in Hong Kong, they do not contribute to the survival and reproduction processes.

Fertility Projection

The past trends of the age-specific fertility rates (AFR's) provide the basis for formulating the fertility assumptions. In the fertility analysis and projection, a Gamma curve is used to model the AFR's. The distribution of AFR's may be characterized by (i) the total fertility rate (TFR), which equates with the area of the distribution, (ii) the mean and (iii) the variance. These historical distributions of AFR's are studied for projecting into the future.

In formulating the fertility assumptions, the process is not strictly a mechanical one that follows the extrapolated trends. Particular reference is made to two considerations. First, fertility level in Hong Kong is currently very low and further continuous decline is not probable. Second, a rebound in the fertility rates is likely, as was experienced in various developed countries where fertility had fallen and remained at a level well below replacement for a long time. The implications of the projected AFR's for some birth cohorts are also checked to ensure that they are reasonable from the cohort perspective. In this connection, the average number of children ever born and the proportion of women having at least one child implied by the fertility assumptions are assessed in the light of the past experience and the experience of some low fertility countries.

Mortality Projection

The past trends of age-sex-cause-specific death rates provide the basis for formulating the mortality assumptions. The following checks are made to ensure the appropriateness and consistency of the projected death rates:

- the excess of male mortality over female mortality of the projected death rates is checked against the past trend, in particular its most recent pattern; and
- (ii) the expectation of life at birth implied by the projected death rates is assessed with reference to the past experience and the projections of some low mortality countries.

Advice was also sought from relevant health and academic institutions regarding the future trend of certain major causes of death. The projected death rates are adjusted in the light of the checks and consultations, and then applied in the construction of the life table, which gives the forward survival ratios required in the projection under a population ageing and survival process.

Migration Projection

The past levels and, in particular, the recent trends of inward and outward movements of the population, including movements of those persons staying in Hong Kong temporarily, provide the basis for formulating the assumptions on the net balance of migration and the assumed number of persons staying in Hong Kong temporarily.

4. PROJECTION OF DEMOGRAPHIC TRENDS

Fertility

As a result of the curtailment of high-order births and the postponement of low-order births, childbearing among women shifted to higher ages and was concentrated in a narrower age band in the past two decades. The trend is assumed to continue in future.

Total fertility rate (TFR) declined continuously over the period 1976-90. It fell from 2 480 births per 1 000 women in 1976 to 1 930 in 1981. After falling below the Replacement Level (i.e. 2 100) at the beginning of the 1980's, it continued to decline, reaching 1 340 in 1986 and 1 210 in 1990. TFR is projected to decline in the next few years, and then to rise from 1994 onwards to around 1 460 per 1 000 women in 2001. Such a level is similar to the present level of fertility of some low fertility countries such as Germany, Japan and Denmark. After 2001, a slight fall in the fertility rates is assumed when the catching-up of postponed births is over (Table 3).

The age-specific fertility rates (AFR's) for women at the most fertile ages 25-34 would increase gradually between 1992 and 2001. Thereafter, the AFR's for women aged 25-29 would fall slightly, while those for women aged 30-34 would exhibit a small increase. For women aged 35-39, the AFR's would rise gradually throughout the projection period. All these assumptions are in line with the trend of women delaying their childbearing to higher ages.

The implications of the projected AFR's, in terms of the proportion of women remaining childless and the average number of children ever born, are examined for women in different birth cohorts. Data in respect of the fertility experience of a number of these cohorts are presented in Tables 4 and 5. It can be seen that of those women born in 1951, who had almost completed childbearing by now, about 10% would remain childless at the end of their reproductive ages. The percentage is projected to be 28% and 20% respectively for those women born in 1961 and 1971, who will spend most of their reproductive years in the projection period. For women born in 1951 the number

of children ever born to them during their entire reproductive period is expected to average at 2.23. The corresponding figure is projected to be 1.53 for women born in 1961 and 1.43 for women born in 1971. These results are considered realistic for those cohorts, in view of the dramatic decline in fertility in the past decade and the continuation of low fertility conditions.

The continuous fertility decline in Hong Kong was dramatic when compared with the experience of low fertility countries. In some of these countries, when fertility fell to a level very much below replacement, a reversal of the declining trend occurred, suggesting the occurrence of catching-up of some postponed births. The phenomenon was particularly noticeable in Germany, Denmark, the Netherlands and Sweden (Table 6). In Hong Kong, TFR in 1990 was 1 210, indicating that the level of fertility is currently too low to sustain a further continuous decline. Catching-up of postponed births is highly probable and this would most likely lead to a temporary reversal of the declining trend. The latest fertility projections prepared in Japan, the Netherlands and Denmark also assumed a reversal of the fertility decline, although their current fertility levels are higher than that of Hong Kong. This further supports an assumption of slackening in the fertility decline in Hong Kong in the near future to be followed by a rebound.

Mortality

A continuous mortality improvement was experienced in Hong Kong over the past 20 years. Following this development, a gradually declining trend of the age-sex-specific death rates in the period 1992-2011 is projected. However, a faster rate of mortality improvement is assumed in the first 10 years of the projection period. The death rates for the younger persons are projected to decrease at a faster pace than those for the older ones. The projected mortality development is in line with past trends (Tables 7 and 8). Similar paces of mortality improvements are assumed for each sex. As a result, the excess of male mortality over female mortality is expected to remain throughout the projection period at about the same levels as in recent years (Table 9).

As the death rates are projected to decline further, life expectancy would continue to improve. The expectation of life at birth for males will increase by 2.8 years, from 74.9 in 1991 to 77.7 in 2011. For females, an increase of 2.5 years is projected, from 80.5 to 83.0 over the same period. The gap between the expectation of life at birth for males and that for females would narrow from 5.6 years in 1991 to 5.3 in 2011. This development is again consistent with past trends and in line with the experience of some low mortality countries. The improvements of the expectation of life at other ages projected in the next 20 years would broadly follow the trends and patterns in the past years (Tables 10 and 11).

Hong Kong enjoys very low mortality by international standards. Its mortality level is comparable with those of low mortality countries like Japan, Sweden and Switzerland. In the latest mortality projections published in Japan, the United States and the United Kingdom, the scenario of a further mortality decline was commonly assumed. Such a scenario is based on the belief that there would be further advances in medical and health care in future. Moreover, public awareness of environmental protection, smoking problem, balanced diets and physical fitness are all conducive to the continuation of a mortality decline. In general, the mortality projection of Hong Kong follows the same scenario and the projected expectation of life at birth is similar to that projected for these countries (Table 12).

Migration

The past levels of inward and outward movements of population, in particular their recent trends, formed the basis for formulating the migration assumptions. On average, a negative balance of net migration of 3 300 persons per annum is projected for the period 1992-2001. The balance of net migration would turn positive and average at 7 900 persons per annum for the period 2002-2011.

Table 3 Age-Specific Fertility Rates and Total Fertility Rates: 1971-2011

Age-Specific Fertility Rate

| | | | 1 C- | | | | Total |
|-------|--|--|--|--|-----------------------|--|--|
| | 00.04 | 25.22 | The second second | | 10 11 | 15 10 | Fertility |
| 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | Rate |
| | | (Per | r 1 000 w | omen) | | | |
| | | | | | | | |
| 17 | 145 | 243 | 162 | 83 | 28 | 4 | 3 460 |
| 17 | 108 | 189 | 118 | 48 | 14 | 1 | 2 480 |
| 12 | 86 | 153 | 97 | 34 | 7 | 1 | 1 930 |
| 10 | 80 | 147 | 93 | 34 | 6 | 1 | 1 830 |
| 10 | 75 | 137 | 85 | 30 | 5 | 1 | 1 690 |
| 8 | 63 | 124 | 80 | 28 | 5 | 0 | 1 520 |
| 8 | 58 | 119 | 79 | 27 | 5 | 0 | 1 460 |
| 7 | 48 | 109 | 76 | 26 | 4 | 0 | 1 340 |
| 6 | 42 | 103 | 78 | 26 | 4 | 0 | 1 280 |
| 6 | 42 | 108 | 86 | 28 | 5 | 0 | 1 360 |
| 6 | 39 | 96 | 79 | 28 | 5 | 0 | 1 250 |
| 6 | 38 | 94 | 76 | 27 | 4 | 0 | 1 210 |
| 6 | 34 | 93 | 77 | 27 | 4 | 0 | 1 210 |
| : | | | | | | | |
| 6 | 29 | 99 | 90 | 31 | 4 | 0 | 1 300 |
| 7 | 32 | 110 | 104 | 34 | 4 | 0 | 1 460 |
| 7 | 31 | 107 | 105 | 35 | 4 | 0 | 1 450 |
| 7 | 30 | 104 | 107 | 35 | 4 | 0 | 1 440 |
| | 17 12 10 10 8 8 7 6 6 6 6 6 7 7 | 17 145 17 108 12 86 10 80 10 75 8 63 8 58 7 48 6 42 6 42 6 39 6 38 6 34 : 6 29 7 32 7 31 | (Per 17 145 243 17 108 189 12 86 153 10 80 147 10 75 137 8 63 124 8 58 119 7 48 109 6 42 103 6 42 108 6 39 96 6 38 94 6 34 93 : 6 29 99 7 32 110 7 31 107 | 15-19 20-24 25-29 30-34 (Per 1 000 w 17 145 243 162 17 108 189 118 12 86 153 97 10 80 147 93 10 75 137 85 8 63 124 80 8 58 119 79 7 48 109 76 6 42 103 78 6 42 103 78 6 42 108 86 6 39 96 79 6 38 94 76 6 34 93 77 : 6 29 99 90 7 32 110 104 7 31 107 105 | (Per 1 000 women) 17 | (Per 1 000 women) (Per 1 000 women) (Per 1 000 women) (Per 1 000 women) 17 145 243 162 83 28 17 108 189 118 48 14 12 86 153 97 34 7 10 80 147 93 34 6 10 75 137 85 30 5 8 63 124 80 28 5 8 58 119 79 27 5 7 48 109 76 26 4 6 42 103 78 26 4 6 42 108 86 28 5 6 39 96 79 28 5 6 38 94 76 27 4 6 34 93 77 27 4 : 6 29 99 90 31 4 7 32 110 104 34 4 7 31 107 105 35 4 | (Per I 000 women) (Per I 000 women) 17 145 243 162 83 28 4 17 108 189 118 48 14 1 12 86 153 97 34 7 1 10 80 147 93 34 6 1 10 75 137 85 30 5 1 8 63 124 80 28 5 0 8 58 119 79 27 5 0 7 48 109 76 26 4 0 6 42 103 78 26 4 0 6 42 108 86 28 5 0 6 39 96 79 28 5 0 6 34 93 77 27 4 0 <t< td=""></t<> |

Note: (1) Provisional estimates.

Table 4 Percentage of Women with At Least One Child by Mother's Year of Birth and Age

| | | | I | Exact Age | | | |
|---------------------------|------|------|------|-----------|------|------|------|
| Mother's Year of Birth | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| 1931 (1) | 16.6 | 57.8 | 81.6 | 90.8 | 93.0 | 93.5 | 93.5 |
| 1936 (1) | 12.7 | 56.8 | 81.3 | 89.7 | 91.6 | 91.8 | 91.8 |
| 1941 (i) | 14.0 | 57.2 | 84.0 | 91.6 | 93.6 | 93.9 | 93.9 |
| 1946 (2) | 12.4 | 55.9 | 87.8 | 95.3 | 97.1 | 97.4 | 97.4 |
| 1951 (2) | 7.1 | 43.8 | 77.4 | 87.5 | 90.0 | 90.3 | 90.3 |
| 1956 (3) | 7.5 | 37.4 | 67.8 | 78.8 | 81.4 | 81.7 | 81.7 |
| 1961 (3) | 5.8 | 28.9 | 56.0 | 68.3 | 71.5 | 71.8 | 71.8 |
| 1966 (3) | 3.5 | 17.0 | 47.4 | 63.2 | 66.5 | 66.8 | |
| 1971 (3) | 2.7 | 15.0 | 55.8 | 72.9 | 76.1 | | |
| 1976 (4) | 2.9 | 18.2 | 60.9 | 77.9 | | | |
| 1981 (4) | 3.6 | 18.8 | 61.4 | | | | |
| 1986 (4) | 3.5 | 18.5 | | | | | |
| 1991 (4) | 3.5 | | | | | | |
| | | | | | | | |

Notes: (1) Based partly on the 1976 By-census results and partly on birth statistics.

⁽²⁾ Based partly on the 1976 By-census results, partly on birth statistics and partly on projections.

⁽³⁾ Based partly on birth statistics and partly on projections.

⁽⁴⁾ Based entirely on projections.

Table 5 Average Number of Children Ever Born by Mother's Year of Birth and Age

| | | | I | Exact Age | | | |
|---------------------------|------|------|------|-----------|------|------|------|
| Mother's Year of Birth | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| 1931 (1) | 0.24 | 1.34 | 2.95 | 4.29 | 4.82 | 4.95 | 4.95 |
| 1936 (1) | 0.18 | 1.16 | 2.50 | 3.31 | 3.67 | 3.73 | 3.73 |
| 1941 (1) | 0.21 | 1.28 | 2.53 | 3.19 | 3.41 | 3.44 | 3.44 |
| 1946 (2) | 0.20 | 1.20 | 2.36 | 2.86 | 3.00 | 3.02 | 3.02 |
| 1951 (2) | 0.09 | 0.75 | 1.64 | 2.08 | 2.21 | 2.23 | 2.23 |
| 1956 (3) | 0.09 | 0.58 | 1.26 | 1.66 | 1.80 | 1.82 | 1.82 |
| 1961 (3) | 0.07 | 0.42 | 0.94 | 1.34 | 1.50 | 1.53 | 1.53 |
| 1966 (3) | 0.04 | 0.23 | 0.70 | 1.19 | 1.36 | 1.38 | |
| 1971 (3) | 0.03 | 0.18 | 0.71 | 1.23 | 1.41 | | |
| 1976 (4) | 0.03 | 0.19 | 0.73 | 1.26 | | | |
| 1981 (4) | 0.04 | 0.19 | 0.72 | | | | |
| 1986 (4) | 0.03 | 0.19 | | | | | |
| 1991 (4) | 0.03 | | | | | | |

Notes: (1) Based partly on the 1976 By-census results and partly on birth statistics.

⁽²⁾ Based partly on the 1976 By-census results, partly on birth statistics and partly on projections.

⁽³⁾ Based partly on birth statistics and partly on projections.

⁽⁴⁾ Based entirely on projections.

Table 6 Total Fertility Rates of Hong Kong and Selected
Low Fertility Countries/Territories: 1971-1990

| Country/ | | | | | | | | | | | | |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|
| Territory | 1971 | 1976 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |

(Per 1 000 women)

| Hong Kong | 3 460 2 480 1 930 1 830 1 690 1 520 1 460 1 340 1 280 1 360 1 250 1 3 | 210 |
|-----------------|---|---------|
| Singapore | 3 040 2 110 1 720 1 710 1 590 1 610 1 620 1 450 1 640 1 980 1 790 | - |
| Japan | 2 190 1 850 1 720 1 760 1 790 1 800 1 740 1 720 1 690 1 660 1 570 1 5 | 530 |
| West Germany | 1 920 1 450 1 440 1 410 1 330 1 290 1 280 1 350 1 370 1 410 - | 2 |
| Denmark | 2 040 1 750 1 440 1 430 1 380 1 400 1 450 1 480 1 500 1 560 - | - |
| Netherlands | 2 360 1 630 1 560 1 500 1 470 1 490 1 510 1 550 1 560 1 550 1 550 1 | 520 |
| Finland | 1 700 1 720 1 650 1 720 1 740 1 700 1 640 1 600 1 590 1 700 1 710 1 | 790 (1) |
| Sweden | 1 980 1 690 1 630 1 620 1 610 1 650 1 730 1 790 1 840 1 960 2 020 2 | 140 |
| England & Wales | 2 370 1 710 1 800 1 760 1 760 1 750 1 780 1 780 1 820 1 840 1 810 1 8 | 350 |
| Australia | 2 870 2 060 1 940 1 940 1 930 1 880 1 890 1 870 1 850 1 840 1 850 1 9 | 10 |

Note: (1) Preliminary figure for the year 1990.

Table 7 Age-Sex-Specific Death Rates: 1971 - 1991

Index of Rate (1) Death Rate 1971-74 1975-78 1979-82 1983-86 1987-90 Age Group 1971 1976 1981 1986 1991 (2) (Per 1 000 population) Malc 0 21.2 16.2 10.7 7.5 100 77 6.7 60 45 39 1-4 1.0 0.8 0.7 0.3 0.4 100 74 58 41 35 5-9 0.5 0.4 0.2 0.2 0.1 100 88 69 47 36 10-14 0.4 0.3 84 73 57 0.3 0.2 0.2 100 51 15-19 0.7 53 0.4 100 20-24 1.2 0.9 0.7 0.6 0.6 100 78 61 49 44 25-29 1.7 1.1 0.9 0.6 0.7 100 75 62 43 44 30-34 2.0 1.8 1.2 0.9 0.9 100 80 59 47 45 35-39 2.8 2.2 83 1.7 1.3 1.3 100 70 54 52 40-44 4.3 3.4 2.8 2.3 1.9 100 71 62 49 45-49 6.2 5.7 4.6 3.6 3.4 100 90 82 65 62 50-54 10.4 8.7 7.6 6.7 5.7 100 88 72 62 81 55-59 17.6 13.8 12.2 10.3 10.3 100 88 81 70 66 60-64 28.8 23.2 17.2 82 73 59 19.5 15.4 100 67 65-69 43.0 38.8 30.8 27.4 25.9 65 100 70-74 61.0 59.1 92 47.4 42.1 41.2 100 80 75 70 75-79 94.9 82.2 68.1 65.6 63.9 100 96 88 81 81 80-84 109.8 102.7 97.9 87.6 96.1 100 91 85 79 80 85 & over 144.6 166.6 119.9 133.7 130.5 100 104 87 89 Female 0 16.1 12.0 9.2 7.1 5.0 100 78 64 49 40 1-4 0.8 0.8 0.3 100 57 46 5-9 0.3 0.3 0.2 0.2 0.1 100 80 58 56 45 10-14 0.3 0.2 0.3 0.2 0.2 100 85 81 71 53 15-19 0.5 0.4 0.2 0.3 0.3 100 83 65 59 57 20-24 0.7 0.5 0.4 0.3 0.3 100 76 64 55 55 25-29 0.8 0.7 59 51 30-34 1.1 0.5 1.1 0.7 0.5 100 85 66 52 50 35-39 1.5 71 55 1.3 1.0 0.8 0.7 100 51 40-44 2.2 1.9 1.6 1.2 1.0 100 86 76 56 47 45-49 3.3 3.0 2.7 1.9 100 91 67 55 1.5 84 50-54 5.5 4.7 3.6 2.8 77 55-59 7.8 7.3 6.6 5.2 4.6 100 94 87 72 64 60-64 11.7 11.8 9.8 8.6 7.9 100 95 86 77 67 65-69 20.2 18.7 16.6 14.7 14.3 100 101 94 84 79 70-74 31.0 28.0 25.0 23.8 23.4 100 94 90 84 80 75-79 50.3 49.3 41.9 40.5 40.2 100 99 89 82 85 80-84 83.2 75.4 71.4 52.3 67.8 100 95 88 77 82 85 & over 137.6 129.6 122.1 109.2 112.7 100 101 83 82

Notes: (1) Index of rate is computed on unrounded figures with the rate for 1971-74 taken as the base (100).

⁽²⁾ Provisional estimates.

Table 8 Age-Sex-Specific Death Rates: 1991-2011

Death Rate Index of Rate (1) 1991 (2) 1996 2001 2006 2011 1991 1996 2001 Age Group 2006 2011 (Per 1 000 population) Male 6.7 5.7 5.2 4.6 100 85 77 72 75 1-4 0.4 0.3 0.3 0.3 0.3 100 87 79 72 5-9 0.1 0.1 0.1 0.1 0.1 100 81 71 61 54 10-14 0.2 0.2 0.2 0.1 0.1 100 86 78 72 67 15-19 76 73 0.4 0.4 0.3 0.3 0.3 100 87 80 20-24 0.6 0.5 0.5 100 78 75 0.4 25-29 0.7 0.6 0.6 0.5 0.5 100 88 81 76 73 0.8 0.7 87 79 74 71 30-34 0.7 0.6 100 35-39 72 1.3 1.1 1.0 0.9 0.9 100 86 78 67 1.9 1.7 40-44 1.5 1.3 1.2 100 86 76 69 63 45-49 3.4 2.9 2.6 2.3 2.1 100 85 75 67 61 5.7 4.8 75 50-54 4.3 3.8 3.4 100 85 67 60 83 80 55-59 10.3 9.4 8.9 8.5 8.2 100 92 87 60-64 15.4 13.8 12.8 12.0 11.2 100 90 83 78 73 65-69 25.9 21.9 19.7 80 76 23.4 20.8 100 91 85 70-74 41.2 38.1 36.3 35.0 33.7 100 92 88 85 82 75-79 60.3 94 94 92 63.9 61.3 59.8 59.0 100 96 80-84 96.1 91.3 89.1 87.6 85.7 100 95 93 91 89 85 & over 130.5 124.2 121.3 118.9 115.2 100 95 93 91 88 Female 0 5.0 4.3 3.8 3.5 100 85 76 69 3.4 1-4 0.3 0.3 0.3 0.2 0.2 100 87 79 73 67 5-9 0.1 0.1 0.1 0.1 100 85 71 63 52 0.1 10-14 0.2 0.2 0.2 0.1 0.1 100 88 83 76 71 15-19 0.3 0.3 0.2 0.2 0.2 100 88 81 75 71 20-24 0.3 0.3 0.2 0.2 100 85 80 73 71 25-29 0.4 0.3 0.3 0.3 0.3 100 88 82 74 71 30-34 77 70 67 0.5 0.4 0.4 0.3 0.3 100 86 35-39 0.7 0.6 0.5 0.5 0.5 100 77 70 66 70 64 40-44 1.0 0.9 0.8 0.7 0.6 100 88 79 1.2 76 69 64 45-49 1.5 1.3 1.0 100 86 1.1 50-54 2.8 2.4 2.1 1.9 1.7 100 86 77 67 61 77 74 55-59 4.6 4.2 3.8 3.5 3.4 100 91 83 75 70 60-64 7.9 6.9 6.2 5.9 5.5 100 88 78 65-69 14.3 13.3 12.6 11.8 11.5 100 93 88 82 80 87 85 70-74 23.4 22.3 21.3 20.3 19.9 100 95 91 75-79 40.2 38.8 37.1 36.1 35.5 100 96 92 90 88 80-84 64.0 90 89 67.8 62.6 61.1 60.5 100 94 92 85 & over 112.7 108.0 106.2 101.7 98.1 100 96 94

Notes: (1) Index of rate is computed on unrounded figures with the rate for 1991 taken as the base (100).

(2) Provisional estimates.

Table 9 Excess Male Mortality by Age Group: 1971–2011

| | Actual: | | | | | | Proje | cted: | | |
|-----------|---------|---------|---------|---------|---------|----------|-------|-------|------|------|
| Age Group | 1971-74 | 1975-78 | 1979-82 | 1983-86 | 1987-90 | 1991 (1) | 1996 | 2001 | 2006 | 2011 |
| 0 | 1.3 | 1.3 | 1.2 | 1.1 | 1.2 | 1.3 | 1.3 | 1.3 | 1.4 | 1.4 |
| 1-4 | 1.2 | 1.1 | 1.1 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 | 1.2 |
| 5-9 | 1.3 | 1.4 | 1.5 | 1.1 | 1.1 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 10-14 | 1.3 | 1.3 | 1.2 | 1.1 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 15-19 | 1.8 | 1.5 | 1.8 | 1.5 | 1.6 | 1.4 | 1.4 | 1.4 | 1.5 | 1.5 |
| 20-24 | 1.9 | 2.0 | 1.9 | 1.7 | 1.5 | 1.9 | 1.9 | 1.9 | 2.0 | 2.0 |
| 25-29 | 1.8 | 1.7 | 1.9 | 1.5 | 1.8 | 1.8 | 1.8 | 1.8 | 1.9 | 1.9 |
| 30-34 | 1.9 | 1.7 | 1.7 | 1.7 | 1.6 | 1.9 | 1.9 | 1.9 | 2.0 | 2.0 |
| 35-39 | 1.7 | 1.7 | 1.7 | 1.8 | 1.6 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 |
| 40-44 | 1.9 | 1.8 | 1.8 | 2.1 | 2.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 45-49 | 1.9 | 1.9 | 1.9 | 1.9 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| 50-54 | 2.0 | 2.0 | 2.1 | 2.1 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 55-59 | 2.1 | 1.9 | 1.9 | 2.0 | 2.1 | 2.2 | 2.2 | 2.3 | 2.4 | 2.4 |
| 60-64 | 2.2 | 1.9 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.1 | 2.0 | 2.0 |
| 65-69 | 2.2 | 2.0 | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.7 | 1.8 | 1.7 |
| 70-74 | 2.0 | 2.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.7 |
| 75-79 | 1.7 | 1.6 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.7 | 1.7 |
| 80-84 | 1.5 | 1.4 | 1.4 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 85 & over | 1.1 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 | 1.2 | 1.2 |

Note: (1) Provisional estimates.

Table 10 Expectation of Life at Selected Ages for Each Sex: 1971–2011

| | Actua | l: | | | | Projec | ted: | | | Increase |
|-----|-------|------|------|-------|--------|-------------|-------|------|------|--------------------------------|
| Age | 1971 | 1976 | 1981 | 1986 | 1991 | (1) 1996 | 2001 | 2006 | 2011 | (in no. of years) 1991–2011 |
| | | | | | | Male | | | | |
| 0 | 67.8 | 69.6 | 72.3 | 74.1 | 74.9 | 75.9 | 76.7 | 77.2 | 77.7 | 2.8 |
| 20 | 49.9 | 51.3 | 53.6 | 55.0 | 55.7 | 56.6 | 57.4 | 57.9 | 58.3 | 2.6 |
| 40 | 31.4 | 32.5 | 34.5 | 35.7 | 36.5 | 37.3 | 38.0 | 38.4 | 38.9 | 2.4 |
| 60 | 15.4 | 15.8 | 17.7 | 18.5 | 19.1 | 19.6 | 20.2 | 20.5 | 20.8 | 1.7 |
| 80 | 5.4 | 5.2 | 6.4 | 6.6 | 7.0 | 7.2 | 7.5 | 7.6 | 7.7 | 0.7 |
| | | | | | | Female | | | | |
| 0 | 75.3 | 76.2 | 78.5 | 79.4 | 80.5 | 81.5 | 82.2 | 82.6 | 83.0 | 2.5 |
| 20 | 57.1 | 57.6 | 59.6 | 60.4 | 61.2 | 62.1 | 62.7 | 63.2 | 63.4 | 2.2 |
| 40 | 38.0 | 38.5 | 40.3 | 40.9 | 41.7 | 42.5 | 43.1 | 43.5 | 43.8 | 2.1 |
| 60 | 20.5 | 20.8 | 22.3 | 22.6 | 23.2 | 23.8 | 24.3 | 24.6 | 24.8 | 1.6 |
| 80 | 7.1 | 7.1 | 8.5 | 8.3 | 8.8 | 9.3 | 9.6 | 9.7 | 9.8 | 1.0 |
| × | | | | Diffe | erence | (Female – M | (ale) | | | |
| 0 | 7.5 | 6.6 | 6.2 | 5.3 | 5.6 | 5.6 | 5.5 | 5.4 | 5.3 | |
| 20 | 7.2 | 6.3 | 6.0 | 5.4 | 5.5 | 5.5 | 5.3 | 5.3 | 5.1 | ** |
| 40 | 6.6 | 6.0 | 5.8 | 5.2 | 5.2 | 5.2 | 5.1 | 5.1 | 4.9 | • |
| 60 | 5.1 | 5.0 | 4.6 | 4.1 | 4.1 | 4.2 | 4.1 | 4.1 | 4.0 | |
| 80 | 1.7 | 1.9 | 2.1 | 1.7 | 1.8 | 2.1 | 2.1 | 2.1 | 2.1 | |

Table 11 Expectation of Life at Birth for Hong Kong and Selected Low Mortality Countries/Territories: 1971 – 1990

| Country/Territory | 1971 | 1976 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|-------------------|------|------|------|---------|---------|--------|-------|------|------|------|------|------|
| | | | | | Ma | de | | | | | | |
| Hong Kong | 67.8 | 69.6 | 72.3 | 72.6 | 72.3 | 73.2 | 73.8 | 74.1 | 74.2 | 74.4 | 74.2 | 74.6 |
| Japan | 70.2 | 72.2 | 73.8 | 74.2 | 74.2 | 74.5 | 74.8 | 75.2 | 75.6 | 75.5 | 75.9 | 76.0 |
| Switzerland | 70.4 | 71.8 | 72.6 | - | - | - | - | 73.6 | 73.8 | 73.9 | 74.0 | 74.0 |
| Sweden | 72.0 | 72.1 | 73.1 | 73.4 | 73.6 | 73.8 | 73.8 | 74.0 | 74.2 | 74.2 | 74.8 | 74. |
| Norway | 71.4 | 72.2 | 72.7 | 72.7 | 72.7 | 72.7 | 72.7 | 72.9 | 72.8 | 73.1 | 73.3 | 73.4 |
| Netherlands | 71.0 | 71.5 | 72.7 | 72.7 | 72.9 | 73.0 | 73.1 | 73.1 | 73.5 | 73.7 | 73.7 | 73. |
| Iceland | 71.6 | 73.5 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 75.1 | 74.€ | _ | 7 🖮 | - |
| England and Wales | 69.3 | 69.8 | 71.1 | 71.3 | 71.5 | 71.9 | 71.9 | 72.1 | 72.6 | 72.7 | 72.9 | |
| West Germany | 66.6 | 68.2 | 69.3 | 69.4 | 69.5 | 70.1 | 70.4 | 71.0 | 71.5 | 72.0 | 72.1 | - |
| U.S.A | 67.4 | 69.1 | 70.4 | 70.9 | 71.0 | 71.2 | 71.2 | 71.3 | 71.5 | 71.5 | | |
| | | | | | Fer | male | | | | | | |
| Hong Kong | 75.3 | 76.2 | 78.5 | 78.4 | 78.4 | 79.0 | 79.2 | 79.4 | 79.7 | 79.9 | 80.0 | 80.3 |
| Japan | 75.6 | 77.4 | 79.1 | 79.7 | 79.8 | 80.2 | 80.5 | 80.9 | 81.4 | 81.3 | 81.8 | 81. |
| Switzerland | 76.6 | 78.4 | 79.3 | - | - | | - | 80.3 | 80.2 | 80.7 | 80.9 | 80. |
| Sweden | 77.3 | 77.9 | 79.1 | 79.4 | 79.6 | 79.9 | 79.7 | 80.0 | 80.2 | 80.0 | 80.6 | 80.4 |
| Norway | 77.7 | 78.7 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.7 | 79.6 | 79.6 | 79.9 | 79.8 |
| Netherlands | 76.8 | 77.9 | 79.3 | 79.4 | 79.6 | 79.7 | 79.7 | 79.6 | 80.1 | 80.2 | 79.9 | 80.1 |
| Iceland | 77.5 | 79.5 | 79.9 | 79.9 | 79.9 | 79.9 | 79.9 | 80.0 | 79.7 | ~ | | |
| England and Wales | 75.6 | 75.9 | 77.1 | 77.2 | 77.4 | 77.7 | 77.5 | 77.8 | 78.2 | 78.2 | 78.3 | |
| West Germany | 73.7 | 75.1 | 76.4 | 76.6 | 76.6 | 77.3 | 77.4 | 77.7 | 78.1 | 78.6 | 78.8 | - |
| U.S.A | 75.0 | 76.8 | 77.8 | 78.1 | 78.1 | 78.2 | 78.2 | 78.3 | 78.4 | 78.3 | - | , |
| | | | 1 | Differe | nce (Fe | male - | Male) | | | | | |
| Hong Kong | 7.5 | 6.6 | 6.2 | 5.8 | 6.1 | 5.8 | 5.4 | 5.3 | 5.5 | 5.5 | 5.8 | 5.7 |
| Japan | 5.4 | 5.2 | 5,3 | 5.5 | 5.6 | 5.7 | 5.7 | 5.7 | 5.8 | 5.8 | 5.9 | 5.1 |
| Switzerland | 6.2 | 6.6 | 6.7 | - | - | 7 | - | 6.7 | 6.4 | 6.8 | 6.9 | 6.8 |
| Sweden | 5.3 | 5.8 | 6.0 | 6.0 | 6.0 | 6.1 | 5.9 | 6.0 | 6.0 | 5.8 | 5.8 | 5.6 |
| Norway | 6.3 | 6.5 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.8 | 6.8 | 6.5 | - | |
| Netherlands | 5.8 | 6.4 | 6.6 | 6.7 | 6.7 | 6.7 | 6.6 | 6.5 | 6.6 | 6.5 | 6.2 | 6.3 |
| Iceland | 5.9 | 6.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 4.9 | 5.1 | - 1 | - | |
| England and Wales | 6.3 | 6.1 | 6.0 | 5.9 | 5.9 | 5.8 | 5.6 | 5.7 | 5.6 | 5.5 | 5.4 | |
| West Germany | 7.1 | 6.9 | 7.1 | 7.2 | 7.1 | 7.2 | 7.0 | 6.7 | 6.6 | 6.6 | 6.7 | |
| U.S.A | 7.6 | 7.7 | 7.4 | 7.2 | 7.1 | 7.0 | 7.0 | 7.0 | 6.9 | 6.8 | | |

Table 12 Expectation of Life at Birth for Hong Kong and Selected Countries: 1991–2011

| Country/Territory | 1991 | 1996 | 2001 | 2006 | 2011 |
|-------------------|------|----------|-------------|---------|------|
| | | | Male | | |
| Hong Kong (1) | 74.9 | 75.9 | 76.7 | 77.2 | 77.7 |
| Japan | 76.1 | 76.6 | 77.0 | 77.3 | 77.6 |
| U.S.A. (2) | 73.0 | 74.2 | 75.6 | 77.1 | 77.6 |
| U.K. | 73.2 | 74.0 | 74.5 | 75.0 | 75.3 |
| | | | | | |
| | | | Female | | |
| Hong Kong (1) | 80.5 | 81.5 | 82.2 | 82.6 | 83.0 |
| Japan | 81.9 | 82.5 | 82.9 | 83.3 | 83.5 |
| U.S.A. (2) | 79.8 | 80.8 | 82.1 | 83.4 | 83.9 |
| U.K. | 78.8 | 79.5 | 79.9 | 80.2 | 80.4 |
| | | | | | |
| | | Differen | nce (Female | - Male) | |
| Hong Kong (1) | 5.6 | 5.6 | 5.5 | 5.4 | 5.3 |
| Japan | 5.8 | 5.9 | 5.9 | 6.0 | 5.9 |
| U.S.A. (2) | 6.8 | 6.6 | 6.5 | 6.3 | 6.3 |
| U.K. | 5.6 | 5.5 | 5.4 | 5.2 | 5.1 |
| | | | | | |

Notes: (1) Figures for 1991 are provisional estimates.

⁽²⁾ Figures extracted from the low mortality assumption of the population projection series produced in 1989 for the total for the years 1991, 1995, 2000, 2005 and 2010.

5. DEFINITION OF TERMS

Average Annual Growth Rate: When a population increases over a period of more than one year, its average annual growth rate is computed using the following formula:

$$P_2$$
 where P_1 = population at the beginning of a period P_2 = population at the end of a period P_1 = average annual growth rate P_1 = number of years in the period

Age Dependency Ratio: The number of persons aged under 15 or aged 65 and over per 1 000 persons aged 15-64.

Age-sex-specific Death Rate: The number of deaths occurring among 1 000 persons for a given sex in a given age group in a given year.

Age-specific Fertility Rate: The number of live births occurring among 1 000 women in a given age group in a given year.

Cohort: A group of persons all born during the same year being analysed as a unit through their lifetime.

Expectation of Life at Birth: The average number of years of life that a person born in a given year can expect to live, if he were subjected to the prevalent mortality conditions as reflected by the set of age-specific death rates for that year.

Excess Male Mortality: The ratio of the male mortality rate for a given age group to the female mortality rate for the same age group.

Median Age: The age such that 50% of the total number of persons in question are above this age while the other 50% are below it.

Natural Increase: The surplus (or deficit) of births over deaths in a population in a given period.

Replacement Level: For a population to replace itself, it requires that each woman would produce an average of one daughter, who may be said to "replace" her mother in the population. A total fertility rate of 2 100 per 1 000 women is considered to correspond to the replacement level, allowing for slightly more boys than girls given at birth.

Sex ratio: The number of males per 1 000 females.

Total Fertility Rate: The average number of children that would be born alive to 1 000 women during their lifetime if they were to pass through all their childbearing years conforming to the age-specific fertility rates of a given year.

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