

### 3. Explanation of Ratios

$$\text{Live birth rates per 1,000 population} = \frac{\text{Live births}}{\text{Total population as of October 1}} \times 1,000$$

$$\text{Death rates per 1,000 population} = \frac{\text{Deaths}}{\text{Total population as of October 1}} \times 1,000$$

$$\text{Death rates by causes of death per 100,000 population} = \frac{\text{Deaths by causes of death}}{\text{Total population as of October 1}} \times 100,000$$

$$\text{Age-adjusted death rates by causes of death per 100,000 population} = \frac{\left[ \begin{array}{c} \text{Death rates by causes of} \\ \text{deaths in 5-year age group} \\ \text{observed population} \end{array} \right] \times \left[ \begin{array}{c} \text{Population of a given age} \\ \text{group of standard} \\ \text{population} \end{array} \right] \text{Total of each age group}}{\text{Total of standard population}}$$

Note: "Death rates by causes of deaths in 5-year age group of observed population" in the above expression are calculated by multiplying by 100,000.

Standard population, model population by age (5-years age groups) in 1985

Age	Standard population	Age	Standard population
0~ 4years	8 180 000	50~54	7 616 000
5~ 9	8 338 000	55~59	6 581 000
10~ 14	8 497 000	60~64	5 546 000
15~ 19	8 655 000	65~69	4 511 000
20~ 24	8 814 000	70~74	3 476 000
25~ 29	8 972 000	75~79	2 441 000
30~ 34	9 130 000	80~84	1 406 000
35~ 39	9 289 000	85 and over	784 000
40~ 44	9 400 000	Total	120 287 000
45~ 49	8 651 000		

$$\text{Infant mortality rates per 1,000 live births} = \frac{\text{Infant deaths}}{\text{Live births}} \times 1,000$$

Note: Infant death indicates death under 1 year of age after birth.

$$\text{Foetal death rates per 1,000 total births} = \frac{\text{Foetal deaths}}{\text{Total births ( live births + foetal deaths )}} \times 1,000$$

Note: Foetal death indicates delivery of a dead infant at 12 completed weeks or more of gestation.

$$\text{Marriage rates per 1,000 population} = \frac{\text{Number of marriage notifications}}{\text{Total population as of October 1}} \times 1,000$$

$$\text{Divorce rates per 1,000 population} = \frac{\text{Number of divorce notifications}}{\text{Total population as of October 1}} \times 1,000$$