

This page was added on 03 December 2012 to included the Disclaimer below.
No other amendments were made to this Product

DISCLAIMER

Users are warned that this historic issue of this publication series may contain language or views which, reflecting the authors' attitudes or that of the period in which the item was written, may be considered to be inappropriate or offensive today.

CHAPTER XIV. VITAL STATISTICS.

NOTE.—1. In the Vital Statistics chapter of Official Year Book No. 37, tables covered 1946 and, where possible, 1945. In issue No. 38 these tables covered 1948 and where possible, 1947. In the present issue these tables cover 1950 and, where possible, 1949. In some cases, however, space does not permit of the inclusion of figures for 1949. These figures will be found in *Demography Bulletin* No. 67 unless otherwise specifically indicated.

2. Figures for Australia throughout are exclusive of full-blood aboriginals.

§ 1. Marriages.

1. Number, 1950.—The number of marriages registered in Australia during the year ended 31st December, 1950 was 75,599, giving a rate of 9.24 per 1,000 of the mean population for the year. In 1942 both the number (86,060) and the rate (11.99) were the highest on record. A summary of the number of marriages registered in each State and Territory since 1861 is given in the following table:—

MARRIAGES.

| Period. | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tas. | N.T. | A.C.T. | Aust. |
|---------|--------|-----------|---------|----------|----------|------|------|--------|-------|
|---------|--------|-----------|---------|----------|----------|------|------|--------|-------|

ANNUAL AVERAGES.

| | | | | | | | | | |
|--------------|--------|--------|--------|-------|-------|-------|-----|-----|--------|
| 1861-1865 .. | 3,384 | 4,447 | 738 | 1,245 | 153 | 668 | .. | .. | 10,635 |
| 1866-1870 .. | 3,654 | 4,580 | 930 | 1,287 | 164 | 629 | .. | .. | 11,244 |
| 1871-1875 .. | 4,242 | 4,874 | 1,255 | 1,494 | 167 | 658 | .. | .. | 12,690 |
| 1876-1880 .. | 5,181 | 5,083 | 1,493 | 2,137 | 196 | 817 | .. | .. | 14,907 |
| 1881-1885 .. | 7,148 | 6,718 | 2,326 | 2,476 | 223 | 1,000 | .. | .. | 19,891 |
| 1886-1890 .. | 7,730 | 8,567 | 3,054 | 2,067 | 299 | 959 | .. | .. | 22,676 |
| 1891-1895 .. | 7,985 | 7,543 | 2,705 | 2,142 | 466 | 905 | .. | .. | 21,746 |
| 1896-1900 .. | 9,094 | 7,852 | 3,102 | 2,190 | 1,572 | 1,098 | (a) | .. | 24,908 |
| 1901-1905 .. | 10,435 | 8,294 | 3,154 | 2,412 | 2,024 | 1,342 | 7 | .. | 27,668 |
| 1906-1910 .. | 12,742 | 9,502 | 4,203 | 3,159 | 2,098 | 1,446 | 10 | (b) | 33,160 |
| 1911-1915 .. | 16,741 | 11,762 | 5,696 | 4,032 | 2,552 | 1,549 | 16 | 4 | 42,352 |
| 1916-1920 .. | 15,744 | 11,321 | 5,397 | 3,756 | 2,145 | 1,443 | 27 | 5 | 39,838 |
| 1921-1925 .. | 18,041 | 13,293 | 6,072 | 4,200 | 2,564 | 1,594 | 14 | 4 | 45,782 |
| 1926-1930 .. | 19,253 | 12,955 | 6,279 | 4,036 | 3,167 | 1,506 | 23 | 30 | 47,249 |
| 1931-1935 .. | 18,742 | 12,773 | 6,950 | 3,967 | 3,328 | 1,638 | 29 | 53 | 47,480 |
| 1936-1940 .. | 25,295 | 17,784 | 8,982 | 5,726 | 4,399 | 2,187 | 83 | 85 | 64,541 |
| 1941-1945 .. | 28,506 | 19,450 | 10,563 | 6,517 | 4,668 | 2,097 | 71 | 109 | 71,981 |
| 1946-1950 .. | 30,162 | 20,453 | 10,666 | 6,581 | 5,205 | 2,529 | 114 | 181 | 75,891 |

YEARLY TOTALS.

| | | | | | | | | | |
|---------|--------|--------|--------|-------|-------|-------|-----|-----|--------|
| 1946 .. | 31,684 | 21,405 | 11,666 | 6,700 | 5,171 | 2,650 | 63 | 157 | 79,496 |
| 1947 .. | 30,172 | 20,437 | 10,999 | 6,668 | 5,282 | 2,584 | 124 | 191 | 76,457 |
| 1948 .. | 30,164 | 20,035 | 10,125 | 6,704 | 5,186 | 2,428 | 110 | 150 | 74,902 |
| 1949 .. | 28,757 | 20,066 | 10,234 | 6,247 | 4,951 | 2,422 | 130 | 192 | 72,999 |
| 1950 .. | 30,036 | 20,320 | 10,304 | 6,585 | 5,434 | 2,560 | 144 | 216 | 75,599 |

(a) Included with South Australia prior to 1901.

(b) Part of New South Wales prior to 1911.

2. Crude Marriage-rates.—The crude marriage-rates for each State and Territory for a series of years are given hereunder :—

CRUDE MARRIAGE-RATES.(a)

| Period. | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tas. | N.T. | A.C.T. | Aust. |
|-----------------------|--------|-----------|---------|----------|----------|-------|-------|--------|-------|
| AVERAGE ANNUAL RATES. | | | | | | | | | |
| 1861-1865 .. | 9.05 | 7.84 | 13.56 | 8.84 | 8.34 | 7.34 | .. | .. | 8.54 |
| 1866-1870 .. | 8.05 | 6.90 | 9.11 | 7.37 | 6.97 | 6.44 | .. | .. | 7.42 |
| 1871-1875 .. | 7.79 | 6.37 | 9.14 | 7.63 | 6.43 | 6.38 | .. | .. | 7.16 |
| 1876-1880 .. | 7.84 | 6.16 | 7.67 | 8.73 | 6.89 | 7.51 | .. | .. | 7.23 |
| 1881-1885 .. | 8.54 | 7.42 | 8.88 | 8.35 | 6.99 | 8.20 | .. | .. | 8.11 |
| 1886-1890 .. | 7.51 | 8.16 | 8.54 | 6.65 | 6.92 | 7.02 | .. | .. | 7.75 |
| 1891-1895 .. | 6.70 | 6.45 | 6.51 | 6.34 | 7.01 | 6.00 | .. | .. | 6.53 |
| 1896-1900 .. | 6.96 | 6.63 | 6.61 | 6.17 | 10.15 | 6.63 | (b) | .. | 6.85 |
| 1901-1905 .. | 7.37 | 6.88 | 6.12 | 6.75 | 9.26 | 7.49 | 1.68 | .. | 7.10 |
| 1906-1910 .. | 8.11 | 7.63 | 7.52 | 8.34 | 8.06 | 7.71 | 2.61 | (c) | 7.89 |
| 1911-1915 .. | 9.32 | 8.48 | 8.69 | 9.31 | 8.26 | 8.01 | 4.33 | 1.93 | 8.86 |
| 1916-1920 .. | 8.03 | 7.82 | 7.64 | 8.20 | 6.80 | 7.20 | 5.74 | 1.91 | 7.82 |
| 1921-1925 .. | 8.20 | 8.28 | 7.62 | 8.13 | 7.27 | 7.40 | 3.82 | 1.21 | 8.04 |
| 1926-1930 .. | 7.86 | 7.42 | 7.10 | 7.12 | 7.80 | 6.97 | 5.11 | 3.86 | 7.52 |
| 1931-1935 .. | 7.20 | 7.02 | 7.35 | 6.83 | 7.58 | 7.19 | 5.92 | 5.74 | 7.16 |
| 1936-1940 .. | 9.29 | 9.52 | 8.80 | 9.65 | 9.49 | 9.25 | 13.28 | 7.22 | 9.35 |
| 1941-1945 .. | 9.97 | 9.86 | 10.04 | 10.61 | 9.74 | 8.61 | 7.18 | 7.57 | 9.94 |
| 1946-1950 .. | 9.86 | 9.73 | 9.45 | 9.93 | 10.00 | 9.51 | 9.20 | 10.00 | 9.77 |
| | | | | | | | | | (d) |
| YEARLY RATES. | | | | | | | | | |
| 1946 .. | 10.76 | 10.57 | 10.70 | 10.55 | 10.49 | 10.51 | 5.96 | (d) | 10.65 |
| 1947 .. | 10.11 | 9.95 | 9.95 | 10.32 | 10.50 | 10.02 | 11.39 | 9.88 | 10.09 |
| 1948 .. | 9.96 | 9.59 | 9.01 | 10.18 | 10.07 | 9.18 | 9.03 | 8.25 | 9.71 |
| 1949 .. | 9.23 | 9.38 | 8.92 | 9.27 | 9.29 | 8.88 | 9.65 | 10.05 | 9.23 |
| 1950 .. | 9.31 | 9.22 | 8.74 | 9.40 | 9.73 | 9.07 | 9.65 | 10.53 | 9.24 |

(a) Number of marriages (not persons married) per 1,000 of mean population. (b) Included with South Australia prior to 1901. (c) Part of New South Wales prior to 1911. (d) Rates based on revised mean population estimates shown on p. 527 are as follows :—1946-50, 9.35 ; 1947, 11.21 ; 1948, 7.81 ; 1949, 9.06 ; 1950, 9.16.

3. Proportion of Persons Married to Unmarried Population.—As the marriage-rates in some international tabulations are based on the unmarried population aged 15 years and over, the corresponding rates have been calculated for Australia for the last seven census periods. The period in each case comprises the census year with the year immediately preceding and the year immediately following, and the figures are as follows :—

PROPORTION OF PERSONS MARRIED TO UNMARRIED POPULATION : AUSTRALIA.

| Period. | Rate.(a) | Period. | Rate.(a) |
|---------------|----------|---------------|----------|
| 1880-82 | 48.98 | 1920-22 | 56.22 |
| 1890-92 | 45.74 | 1932-34 | 42.88 |
| 1900-02 | 42.14 | 1946-48 | 71.33 |
| 1910-12 | 50.44 | | |

(a) Number of persons married per 1,000 unmarried persons aged 15 years and over.

4. **Crude Marriage-rates of Various Countries.**—The following table gives the crude marriage-rates for Australia and each State thereof in comparison with the rates for various other countries.

CRUDE MARRIAGE-RATES (a) : VARIOUS COUNTRIES.

| Country. | 1908-13. | 1921-25. | 1926-30. | 1931-35. | 1950. |
|--|------------|------------|------------|------------|------------|
| Yugoslavia | (b) | 10.6 | 9.5 | 7.8 | 11.4 |
| United States of America | (b) | 10.6 | 9.9 | 9.2 | 11.0 |
| Czechoslovakia | 7.7 | 10.0 | 9.3 | 8.2 | (d) 10.4 |
| Hungary | (b) | 10.0 | 9.2 | 8.5 | (e) 10.4 |
| Union of South Africa (c) | (b) | 8.0 | 9.3 | 9.4 | 9.9 |
| Austria | (b) | 9.6 | 7.5 | 6.8 | 9.2 |
| New Zealand(f) | 8.5 | 8.0 | 7.7 | 7.3 | 9.2 |
| Australia(g) | 8.4 | 8.0 | 7.5 | 7.2 | 9.2 |
| <i>Western Australia(g)</i> | 8.1 | 7.3 | 7.8 | 7.6 | 9.7 |
| <i>South Australia(g)</i> | 9.1 | 8.1 | 7.1 | 6.8 | 9.4 |
| <i>New South Wales(g)</i> | 8.8 | 8.2 | 7.9 | 7.2 | 9.3 |
| <i>Victoria(g)</i> | 8.0 | 8.3 | 7.4 | 7.0 | 9.2 |
| <i>Tasmania(g)</i> | 7.9 | 7.4 | 7.0 | 7.2 | 9.1 |
| <i>Queensland(g)</i> | 8.2 | 7.6 | 7.1 | 7.3 | 8.7 |
| Canada | (b) | 7.3 | 7.3 | 6.4 | 9.0 |
| Rumania | 9.5 | 10.4 | 9.4 | 9.0 | (d) 8.9 |
| Japan | 9.3 | 8.8 | 8.0 | 7.6 | 8.6 |
| Finland | 6.1 | 7.1 | 7.2 | 7.2 | 8.5 |
| Denmark | 7.3 | 7.9 | 7.8 | 8.7 | 8.4 |
| Argentina | 6.8 | 7.2 | 7.4 | 6.5 | (e) 8.4 |
| Norway | 6.2 | 6.3 | 6.1 | 6.5 | 8.3 |
| Belgium | 7.9 | 10.6 | 9.1 | 7.8 | 8.2 |
| Netherlands | 7.5 | 8.2 | 7.7 | 7.2 | 8.2 |
| Great Britain and Northern Ireland | 7.3 | 7.7 | 7.5 | 7.9 | 8.1 |
| <i>England and Wales</i> | 7.6 | 7.8 | 7.7 | 8.1 | 8.1 |
| <i>Scotland</i> | 6.7 | 7.1 | 6.7 | 7.1 | 7.8 |
| <i>Northern Ireland</i> | 5.2 | 6.2 | 5.9 | 6.2 | 6.6 |
| France | 7.9 | 9.5 | 8.2 | 7.4 | 7.9 |
| Switzerland | 7.3 | 7.7 | 7.5 | 7.7 | 7.9 |
| Chile | (b) | 6.9 | 9.3 | 6.9 | 7.9 |
| Italy | 7.7 | 9.0 | 7.3 | 6.8 | 7.7 |
| Sweden | 6.0 | 6.3 | 6.7 | 7.3 | 7.7 |
| Portugal | 6.9 | 7.9 | 6.9 | 6.6 | 7.6 |
| Spain | 7.0 | 7.3 | 7.3 | 6.5 | 7.4 |
| Greece | (b) | 7.5 | 7.1 | 6.8 | (d) 6.6 |
| Mexico | (b) | (b) | (b) | 6.1 | 5.8 |
| Eire | 5.2 | 4.9 | 4.6 | 4.6 | 5.4 |

(a) Number of marriages per 1,000 of mean population. (b) Not available. (c) White population only. (d) 1949. (e) 1948. (f) Excludes Maoris. (g) Excludes full-blood aboriginals.

5. **Age and Conjugal Condition at Marriage.**—(i) *General.* Age at marriage in single ages and previous conjugal condition of bridegrooms and brides in 1949 and 1950 will be found in *Demography Bulletins* Nos. 67 and 68. A summary in age-groups is given hereunder for these years. There were 5,046 males aged less than twenty-one years married during 1950 while the corresponding number of females was 21,186. At the other extreme there were 89 bachelors and 43 spinsters in the age-group 65 years and over.

Information regarding the percentage distribution of bridegrooms and brides according to conjugal condition is shown for 1907-10, in five-year periods thereafter until 1950 and for each of the years 1948, 1949 and 1950.

AGE AND CONJUGAL CONDITION OF PERSONS MARRIED: AUSTRALIA.

| Age at Marriage (Years). | Bridegrooms. | | | | Brides. | | | |
|--------------------------|--------------|-----------|-----------|--------|------------|---------|-----------|--------|
| | Bachelors. | Widowers. | Divorced. | Total. | Spinsters. | Widows. | Divorced. | Total. |
| 1949. | | | | | | | | |
| Under 20.. | 2,108 | 2 | .. | 2,110 | 13,379 | 6 | 6 | 13,391 |
| 20-24 .. | 29,279 | 22 | 75 | 29,376 | 33,520 | 87 | 359 | 33,966 |
| 25-29 .. | 20,036 | 108 | 651 | 20,795 | 10,704 | 363 | 1,284 | 12,351 |
| 30-34 .. | 6,895 | 259 | 1,082 | 8,236 | 3,431 | 488 | 1,176 | 5,095 |
| 35-39 .. | 3,212 | 353 | 1,093 | 4,658 | 1,715 | 492 | 980 | 3,187 |
| 40-44 .. | 1,546 | 410 | 775 | 2,731 | 874 | 457 | 542 | 1,873 |
| 45-49 .. | 839 | 452 | 501 | 1,792 | 473 | 436 | 332 | 1,241 |
| 50-54 .. | 373 | 461 | 280 | 1,114 | 244 | 361 | 157 | 762 |
| 55-59 .. | 208 | 488 | 168 | 864 | 138 | 281 | 66 | 485 |
| 60-64 .. | 93 | 438 | 73 | 604 | 78 | 248 | 25 | 351 |
| 65 and over | 92 | 601 | 26 | 719 | 41 | 243 | 13 | 297 |
| Total .. | 64,681 | 3,594 | 4,724 | 72,999 | 64,597 | 3,462 | 4,940 | 72,999 |

| | | | | | | | | |
|-------------|--------|-------|-------|--------|--------|-------|-------|--------|
| 1950. | | | | | | | | |
| Under 20.. | 2,186 | .. | 1 | 2,187 | 13,895 | 7 | 7 | 13,909 |
| 20-24 .. | 30,442 | 14 | 66 | 30,522 | 34,633 | 106 | 348 | 35,087 |
| 25-29 .. | 20,552 | 131 | 707 | 21,390 | 10,848 | 312 | 1,304 | 12,464 |
| 30-34 .. | 6,899 | 208 | 1,085 | 8,192 | 3,427 | 518 | 1,303 | 5,248 |
| 35-39 .. | 3,372 | 311 | 1,197 | 4,880 | 1,785 | 597 | 1,046 | 3,428 |
| 40-44 .. | 1,682 | 414 | 845 | 2,941 | 930 | 468 | 687 | 2,085 |
| 45-49 .. | 817 | 419 | 609 | 1,845 | 497 | 438 | 364 | 1,299 |
| 50-54 .. | 416 | 482 | 347 | 1,245 | 255 | 437 | 165 | 857 |
| 55-59 .. | 199 | 543 | 172 | 914 | 136 | 345 | 91 | 572 |
| 60-64 .. | 128 | 494 | 98 | 720 | 64 | 233 | 28 | 325 |
| 65 and over | 89 | 626 | 48 | 763 | 43 | 258 | 24 | 325 |
| Total .. | 66,782 | 3,642 | 5,175 | 75,599 | 66,513 | 3,719 | 5,367 | 75,599 |

PERCENTAGE OF TOTAL.

| | | | | | | | | |
|------------|-------|------|------|--------|-------|------|------|--------|
| 1907-10 .. | 93.11 | 6.41 | 0.48 | 100.00 | 94.17 | 5.22 | 0.61 | 100.00 |
| 1911-15 .. | 93.92 | 5.51 | 0.57 | 100.00 | 94.62 | 4.62 | 0.76 | 100.00 |
| 1916-20 .. | 92.82 | 6.33 | 0.85 | 100.00 | 93.44 | 5.59 | 0.97 | 100.00 |
| 1921-25 .. | 92.18 | 6.38 | 1.44 | 100.00 | 92.99 | 5.49 | 1.52 | 100.00 |
| 1926-30 .. | 92.31 | 5.93 | 1.76 | 100.00 | 93.46 | 4.55 | 1.99 | 100.00 |
| 1931-35 .. | 92.63 | 5.39 | 1.98 | 100.00 | 94.37 | 3.53 | 2.10 | 100.00 |
| 1936-40 .. | 92.59 | 4.82 | 2.59 | 100.00 | 93.94 | 3.38 | 2.68 | 100.00 |
| 1941-45 .. | 91.44 | 4.77 | 3.79 | 100.00 | 92.11 | 3.93 | 3.96 | 100.00 |
| 1946-50 .. | 88.82 | 4.74 | 6.44 | 100.00 | 88.71 | 4.74 | 6.55 | 100.00 |
| 1948 .. | 88.65 | 4.71 | 6.64 | 100.00 | 88.72 | 4.55 | 6.73 | 100.00 |
| 1949 .. | 88.61 | 4.92 | 6.47 | 100.00 | 88.49 | 4.74 | 6.77 | 100.00 |
| 1950 .. | 88.34 | 4.82 | 6.84 | 100.00 | 87.98 | 4.92 | 7.10 | 100.00 |

(ii) *Relative Ages of Bridegrooms and Brides.* The relative ages of bridegrooms and brides in 1949 and 1950 are shown in single years in *Demography Bulletins* Nos. 67 and 68. A summary in age-groups of five years is given below :—

RELATIVE AGES OF BRIDEGROOMS AND BRIDES : AUSTRALIA.

| Age of Bridegroom (Years). | Total Bridegrooms. | Age of Bride (Years). | | | | | | | |
|----------------------------|--------------------|-----------------------|--------|--------|--------|--------|--------|--------|--------------|
| | | Under 15. | 15-19. | 20-24. | 25-29. | 30-34. | 35-39. | 40-44. | 45 and over. |
| 1949. | | | | | | | | | |
| Under 20 .. | 2,110 | 7 | 1,514 | 556 | 29 | 2 | .. | I | I |
| 20-24 .. | 29,376 | 10 | 8,488 | 18,378 | 2,216 | 227 | 39 | 11 | 7 |
| 25-29 .. | 20,795 | 2 | 2,706 | 11,255 | 5,467 | 1,071 | 237 | 48 | 9 |
| 30-34 .. | 8,236 | .. | 487 | 2,697 | 2,736 | 1,540 | 603 | 140 | 33 |
| 35-39 .. | 4,058 | .. | 127 | 796 | 1,268 | 1,176 | 890 | 294 | 107 |
| 40-44 .. | 2,731 | .. | 30 | 195 | 432 | 635 | 711 | 489 | 239 |
| 45-49 .. | 1,792 | .. | 11 | 62 | 131 | 283 | 410 | 412 | 483 |
| 50-54 .. | 1,114 | .. | 4 | 14 | 48 | 103 | 177 | 248 | 520 |
| 55-59 .. | 864 | .. | 3 | 11 | 15 | 34 | 75 | 133 | 593 |
| 60-64 .. | 604 | .. | I | 2 | 4 | 18 | 29 | 64 | 486 |
| 65 and over | 719 | .. | I | .. | 5 | 6 | 16 | 33 | 658 |
| Total Brides | 72,999 | 19 | 13,372 | 33,966 | 12,351 | 5,095 | 3,187 | 1,873 | 3,136 |
| 1950. | | | | | | | | | |
| Under 20 .. | 2,187 | 5 | 1,619 | 529 | 28 | 2 | 3 | .. | I |
| 20-24 .. | 30,522 | 6 | 8,960 | 18,967 | 2,286 | 242 | 47 | 10 | 4 |
| 25-29 .. | 21,390 | 3 | 2,692 | 11,928 | 5,320 | 1,124 | 260 | 52 | 11 |
| 30-34 .. | 8,192 | 2 | 466 | 2,583 | 2,762 | 1,587 | 612 | 133 | 47 |
| 35-39 .. | 4,880 | .. | 112 | 759 | 1,370 | 1,209 | 939 | 373 | 118 |
| 40-44 .. | 2,941 | .. | 32 | 221 | 441 | 662 | 779 | 538 | 268 |
| 45-49 .. | 1,845 | .. | 8 | 64 | 163 | 273 | 443 | 442 | 452 |
| 50-54 .. | 1,245 | .. | 4 | 22 | 60 | 97 | 206 | 273 | 583 |
| 55-59 .. | 914 | .. | .. | 8 | 24 | 35 | 89 | 146 | 612 |
| 60-64 .. | 720 | .. | .. | 5 | 8 | 11 | 35 | 75 | 586 |
| 65 and over | 763 | .. | .. | I | 2 | 6 | 15 | 43 | 696 |
| Total Brides | 75,599 | 16 | 13,893 | 35,087 | 12,464 | 5,248 | 3,428 | 2,085 | 3,378 |

(iii) *Average Ages of Bridegrooms and Brides.* The age at marriage of brides declined slightly during recent years to an average of about 25½ years, although in the period 1937-39 this decline was temporarily arrested and the average rose to almost 26 years. The average ages in years of brides for the past six years were :—1945, 25.93; 1946, 25.51; 1947, 25.60; 1948, 25.57; 1949, 25.65; and 1950, 25.73. For the following five-yearly periods the average ages in years were :—1911-15, 25.76; 1916-20, 26.05; 1921-25, 25.76; 1926-30, 25.57; 1931-35, 25.50; 1936-40, 25.72; 1941-45, 25.68; and 1946-50, 25.61. The average age in years of bridegrooms was 29.29 in 1945, 28.73 in 1946,

28.93 in 1947, 28.88 in 1948, 28.91 in 1949 and 28.99 in 1950. It follows, therefore, that brides are, generally speaking, a little more than three years younger than bridegrooms. The average age of brides and bridegrooms for the years 1940-46 showed the effects of war-time conditions. The proportion of young persons marrying during those years increased, thereby causing decreases in the average ages of both brides and bridegrooms. The difference in age between brides and bridegrooms was 3.36 in 1945, 3.22 in 1946, 3.33 in 1947, 3.31 in 1948, 3.26 in 1949 and 3.26 in 1950.

6. **Previous Conjugal Condition.**—The number of bachelors and spinsters, widowed and divorced persons, who were married during 1950 is shown in the table on page 578. The following table shows the relative conjugal condition of the contracting parties. Corresponding figures for 1949 may be obtained from *Demography Bulletin* No. 67.

PREVIOUS CONJUGAL CONDITION OF PERSONS MARRIED : AUSTRALIA, 1950.

| Conjugal Condition of Bridegrooms. | Total Bridegrooms. | Conjugal Condition of Brides. | | |
|------------------------------------|--------------------|-------------------------------|--------------|--------------|
| | | Spinsters. | Widows. | Divorced. |
| Bachelors | 66,782 | 61,690 | 1,773 | 3,319 |
| Widowers | 3,642 | 1,624 | 1,346 | 672 |
| Divorced | 5,175 | 3,199 | 600 | 1,376 |
| Total Brides .. . | 75,599 | 66,513 | 3,719 | 5,367 |

7. **Birthplace of Persons Marrying.**—A table showing birthplace of persons marrying in 1911, 1921 and 1940 may be found on p. 326 of Official Year Book No. 34. In *Demography Bulletins* Nos. 67 and 68, the relative birthplaces of bridegrooms and brides marrying in 1949 and 1950 will be found tabulated in detail.

8. **Occupation of Bridegrooms.**—The distribution of the 75,599 bridegrooms for 1950 amongst classes of occupations was as follows :—Craftsmen, 19,708 ; Operatives, 13,821 ; Commercial and Clerical, 13,195 ; Rural, Fishing and Hunting, 9,305 ; Labourers, 7,119 ; Domestic and Protective Service, 3,991 ; Professional and Semi-Professional 3,302 ; Administrative, 2,670 ; and Not Gainfully Occupied and Not Stated, 2,488.

9. **Celebration of Marriages.**—In all the States marriages may be celebrated either by ministers of religion who are registered for that purpose with the Registrar-General, or by certain civil officers—in most cases district registrars. Most of the marriages are celebrated by ministers of religion. The registered ministers in 1950 belonged to more than forty different denominations, some of which, however, have only very few adherents. A number of these have been bracketed under the heading " Other Christian ". The figures for 1950 are shown in the following table. Corresponding figures for 1949 may be obtained from *Demography Bulletin* No. 67.

MARRIAGES IN EACH DENOMINATION, 1950.

| Denomination. | N.S.W. | Vic. | Qld. | S.A. | W.A. | Tas. | N.T. | A.C.T. | Australia. | |
|--|---------------|---------------|---------------|--------------|--------------|--------------|------------|------------|---------------|----------------------|
| | | | | | | | | | No. | Proportion of Total. |
| | | | | | | | | | | % |
| Church of England | 11,432 | 5,908 | 2,787 | 1,461 | 1,804 | 948 | 26 | 74 | 24,440 | 32.33 |
| Roman Catholic .. | 6,274 | 4,093 | 2,314 | 922 | 902 | 464 | 44 | 71 | 15,084 | 19.95 |
| Methodist .. | 3,302 | 2,946 | 1,845 | 1,926 | 791 | 410 | 29 | 3 | 11,252 | 14.88 |
| Presbyterian .. | 3,804 | 4,009 | 1,974 | 378 | 468 | 156 | 10 | 27 | 10,826 | 14.32 |
| Baptist .. | 414 | 366 | 196 | 194 | 60 | 90 | .. | .. | 1,320 | 1.75 |
| Congregational .. | 385 | 317 | 112 | 266 | 103 | 58 | .. | 2 | 1,243 | 1.64 |
| Church of Christ .. | 88 | 326 | 81 | 182 | 50 | 15 | .. | .. | 742 | 0.98 |
| Lutheran .. | 105 | 236 | 247 | 395 | 35 | 1 | 2 | 1 | 1,022 | 1.35 |
| Salvation Army .. | 87 | 107 | 98 | 32 | 26 | 17 | 7 | 1 | 375 | 0.50 |
| Greek Orthodox .. | 119 | 59 | 53 | 27 | 41 | .. | .. | .. | 299 | 0.40 |
| Seventh-Day Adventist .. | 71 | 30 | 31 | 18 | 17 | 11 | .. | .. | 178 | 0.23 |
| Unitarian .. | 3 | 36 | .. | 3 | .. | .. | .. | .. | 42 | 0.06 |
| Other Christian .. | 152 | 121 | 132 | 50 | 57 | 19 | .. | .. | 531 | 0.70 |
| Hebrew .. | 173 | 219 | 11 | 4 | 15 | .. | .. | .. | 422 | 0.56 |
| Total .. | 26,409 | 18,773 | 9,881 | 5,858 | 4,369 | 2,189 | 118 | 179 | 67,776 | 89.65 |
| Civil Officers .. | 3,627 | 1,547 | 423 | 727 | 1,065 | 371 | 26 | 37 | 7,823 | 10.35 |
| Grand Total .. | 30,036 | 20,320 | 10,304 | 6,585 | 5,434 | 2,560 | 144 | 216 | 75,599 | 100.00 |
| Proportion of Total Marriages celebrated by— | | | | | | | | | | |
| Ministers of Religion .. | % 87.92 | % 92.39 | % 95.89 | % 88.96 | % 80.40 | % 85.51 | % 81.94 | % 82.87 | | % 89.65 |
| Civil Officers .. | % 12.08 | % 7.61 | % 4.11 | % 11.04 | % 19.60 | % 14.49 | % 18.06 | % 17.13 | | % 10.35 |

10. Divorces.—Chapter VII.—Public Justice shows details of the number of marriages dissolved annually by divorce, nullity of marriage and judicial separation. The number dissolved by decrees for divorce and nullity of marriage made absolute and by judicial separation in 1950 was 7,357 or 9.7 per cent. of the number of marriages celebrated during the year.

Detailed tables relating to divorce statistics for 1950 and summary tables for earlier years are shown also in *Demography Bulletin* No. 68, 1950.

§ 2. Fertility and Reproduction.

1. Introductory.—Of the two elements of increase in the population, namely natural increase and net migration, the former has been by far the more important over the past few decades. The level of natural increase depends on the excess of births over deaths and the relation between fertility and mortality determines the rate of reproduction or replacement of the population.

2. Number of Live Births.—(1) Year, 1950. There are various methods of measuring the fertility of the population by relating the number of births to the numbers in the population. In each the basic data are, of course, the numbers of live births.

The number of live births registered in Australia during 1950 is shown in the table below. The table shows also the number of confinements resulting in one or more live births. The figures exclude cases where the births were of still-born children only. Corresponding figures for 1949 may be obtained from *Demography Bulletin* No. 67.

LIVE BIRTHS, 1950.

| Particulars. | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tas. | N.T. | A.C.T. | Australia. |
|-----------------------|---------------|---------------|---------------|---------------|---------------|--------------|------------|------------|----------------|
| MALE BIRTHS. | | | | | | | | | |
| Single births | 35,920 | 24,959 | 14,536 | 8,712 | 7,138 | 3,673 | 199 | 469 | 95,606 |
| Twins .. | 858 | 577 | 338 | 168 | 152 | 79 | 5 | 15 | 2,192 |
| Triplets .. | 3 | 18 | 6 | .. | 3 | .. | .. | .. | 30 |
| Quadruplets | 2 | .. | .. | .. | .. | .. | .. | .. | 2 |
| Total .. | 36,783 | 25,554 | 14,880 | 8,880 | 7,293 | 3,752 | 204 | 484 | 97,830 |
| FEMALE BIRTHS. | | | | | | | | | |
| Single births | 33,991 | 23,667 | 13,846 | 8,256 | 6,763 | 3,406 | 204 | 459 | 90,592 |
| Twins .. | 808 | 598 | 300 | 170 | 166 | 81 | 3 | 11 | 2,137 |
| Triplets .. | 8 | 11 | 2 | .. | 3 | 3 | .. | .. | 27 |
| Quadruplets | 2 | .. | .. | .. | 3 | .. | .. | .. | 5 |
| Total .. | 34,809 | 24,276 | 14,148 | 8,426 | 6,935 | 3,490 | 207 | 470 | 92,761 |
| TOTAL BIRTHS. | | | | | | | | | |
| Single births | 69,911 | 48,626 | 28,382 | 16,968 | 13,901 | 7,079 | 403 | 928 | 186,198 |
| Twins .. | (a) 1,666 | (b) 1,175 | (c) 638 | 338 | (d) 318 | (d) 160 | 8 | 26 | (e) 4,329 |
| Triplets .. | (f) 11 | (f) 29 | (f) 8 | .. | 6 | 3 | .. | .. | (g) 57 |
| Quadruplets | 4 | .. | .. | .. | (h) 3 | .. | .. | .. | (h) 7 |
| Total .. | 71,592 | 49,830 | 29,028 | 17,306 | 14,228 | 7,242 | 411 | 954 | 190,591 |

CONFINEMENTS (LIVE BIRTHS).

| | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tas. | N.T. | A.C.T. | Australia. |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------|--------------|------------|------------|----------------|
| Mothers of Nuptial Children .. | 67,894 | 47,640 | 27,291 | 16,663 | 13,544 | 6,881 | 353 | 916 | 181,182 |
| Mothers of Ex-nuptial Children .. | 2,885 | 1,594 | 1,419 | 474 | 522 | 282 | 54 | 25 | 7,255 |
| Total Mothers | 70,779 | 49,234 | 28,710 | 17,137 | 14,066 | 7,163 | 407 | 941 | 188,437 |

(a) Excludes 60 still-born twins. (b) Excludes 21 still-born twins. (c) Excludes 12 still-born twins.
 (d) Excludes 6 still-born twins. (e) Excludes 105 still-born twins. (f) Excludes 1 still-born triplet.
 (g) Excludes 3 still-born triplets. (h) Excludes 1 still-born quadruplet.

NOTE.—In States other than New South Wales, South Australia and Western Australia the registration of still-births is not compulsory and it is possible that in some cases where one child only of a multiple pregnancy is live-born the confinement has been treated as a single birth. This applies particularly to South Australia, where registration practice for twins, when one is live-born and one still-born, is to treat each child as a single birth, and for triplets with one still-born, to treat the two live-born as twins, and so on.

(ii) *Years 1861 to 1950.* The average annual number of live births in each State and Territory for each five-year period from 1861 to 1950 and the total number of live births in each State and Territory for each year 1946 to 1950 are given in the following table :—

LIVE BIRTHS.

| Period. | N.S.W. | Vic. | Q'land. | S. Aust. | W. Aust. | Tas. | N.T. | A.C.T. | Aust. |
|---------|--------|------|---------|----------|----------|------|------|--------|-------|
|---------|--------|------|---------|----------|----------|------|------|--------|-------|

ANNUAL AVERAGES.

| | | | | | | | | | |
|--------------|--------|--------|--------|--------|--------|-------|-----|-----|---------|
| 1861-1865 .. | 15,992 | 24,670 | 2,352 | 6,095 | 653 | 3,090 | .. | .. | 52,852 |
| 1866-1870 .. | 18,529 | 26,210 | 4,524 | 7,014 | 761 | 4,936 | .. | .. | 59,974 |
| 1871-1875 .. | 21,308 | 27,272 | 5,856 | 7,279 | 807 | 3,064 | .. | .. | 65,586 |
| 1876-1880 .. | 25,514 | 26,470 | 7,507 | 9,262 | 922 | 3,433 | .. | .. | 73,108 |
| 1881-1885 .. | 31,793 | 28,051 | 9,796 | 11,324 | 1,093 | 4,286 | .. | .. | 86,343 |
| 1886-1890 .. | 37,660 | 34,461 | 14,030 | 10,640 | 1,539 | 4,742 | .. | .. | 103,072 |
| 1891-1895 .. | 39,513 | 36,171 | 14,573 | 10,619 | 2,048 | 4,959 | .. | .. | 107,883 |
| 1896-1900 .. | 36,716 | 31,089 | 14,193 | 9,436 | 4,480 | 4,681 | (a) | .. | 100,595 |
| 1901-1905 .. | 37,968 | 30,182 | 13,770 | 8,883 | 6,682 | 5,128 | 31 | .. | 102,644 |
| 1906-1910 .. | 42,967 | 31,257 | 15,022 | 9,699 | 7,690 | 5,465 | 31 | (b) | 112,131 |
| 1911-1915 .. | 51,631 | 35,205 | 19,100 | 12,092 | 8,844 | 5,807 | 47 | 43 | 132,769 |
| 1916-1920 .. | 51,543 | 33,339 | 19,438 | 11,526 | 7,728 | 5,469 | 83 | 40 | 129,166 |
| 1921-1925 .. | 54,439 | 35,964 | 20,058 | 11,744 | 8,055 | 5,566 | 68 | 33 | 135,927 |
| 1926-1930 .. | 53,308 | 34,333 | 19,361 | 11,006 | 8,748 | 4,819 | 70 | 118 | 131,763 |
| 1931-1935 .. | 44,964 | 28,380 | 17,480 | 8,646 | 8,061 | 4,547 | 79 | 145 | 112,302 |
| 1936-1940 .. | 47,679 | 30,282 | 19,534 | 9,388 | 8,877 | 4,866 | 125 | 221 | 120,972 |
| 1941-1945 .. | 56,583 | 38,002 | 23,431 | 12,546 | 10,400 | 5,418 | 113 | 384 | 146,886 |
| 1946-1950 .. | 68,856 | 47,372 | 28,003 | 16,270 | 13,130 | 7,064 | 289 | 734 | 181,718 |

YEARLY TOTALS.

| | | | | | | | | | |
|---------|--------|--------|--------|--------|--------|-------|-----|-----|---------|
| 1946 .. | 67,247 | 46,693 | 27,024 | 15,813 | 12,105 | 6,847 | 132 | 518 | 176,379 |
| 1947 .. | 69,398 | 47,366 | 28,358 | 16,317 | 12,874 | 7,140 | 276 | 655 | 182,384 |
| 1948 .. | 67,234 | 46,099 | 27,858 | 15,870 | 12,931 | 6,979 | 280 | 725 | 177,976 |
| 1949 .. | 68,812 | 46,873 | 27,748 | 16,042 | 13,511 | 7,110 | 346 | 819 | 181,261 |
| 1950 .. | 71,592 | 49,830 | 29,028 | 17,306 | 14,228 | 7,242 | 411 | 954 | 190,591 |

(a) Included with South Australia prior to 1901.

(b) Part of New South Wales prior to 1911.

3 **Crude Birth-rates.**—The oldest and most popular method of measuring fertility is to relate the number of births to the total population, thus obtaining the crude birth-rate. The crude birth-rate measures the rate per thousand persons (irrespective of age or sex) at which the population has added to its numbers by way of births during a given period.

Crude birth-rates for each five-year period from 1861 to 1950 and for each year from 1946 to 1950 for each State and Territory are set out below:—

CRUDE BIRTH-RATES.(a)

| Period. | N.S.W. | Vic. | Q'land. | S. Aust. | W. Aust. | Tas. | N.T. | A.C.T. | Aust. |
|-----------------------|--------|-------|---------|----------|----------|-------|-------|--------|-------|
| AVERAGE ANNUAL RATES. | | | | | | | | | |
| 1861-1865.. | 42.77 | 43.51 | 43.24 | 43.26 | 35.56 | 33.98 | .. | .. | 42.44 |
| 1866-1870.. | 40.83 | 39.46 | 44.35 | 40.17 | 32.35 | 30.08 | .. | .. | 39.57 |
| 1871-1875.. | 39.12 | 35.65 | 42.64 | 37.15 | 30.84 | 29.69 | .. | .. | 37.01 |
| 1876-1880.. | 38.62 | 32.10 | 38.55 | 37.86 | 32.48 | 31.53 | .. | .. | 35.46 |
| 1881-1885.. | 38.00 | 31.00 | 37.38 | 38.21 | 34.22 | 35.14 | .. | .. | 35.19 |
| 1886-1890.. | 36.60 | 32.82 | 39.25 | 34.21 | 35.61 | 34.71 | .. | .. | 35.21 |
| 1891-1895.. | 33.15 | 30.94 | 35.09 | 31.43 | 30.78 | 32.88 | .. | .. | 32.38 |
| 1896-1900.. | 28.10 | 26.24 | 30.25 | 26.57 | 28.91 | 28.27 | (b) | .. | 27.67 |
| 1901-1905.. | 26.82 | 25.05 | 26.72 | 24.87 | 30.56 | 28.63 | 6.99 | .. | 26.35 |
| 1906-1910.. | 27.36 | 25.11 | 26.88 | 25.59 | 29.53 | 29.14 | 8.32 | (c) | 26.67 |
| 1911-1915.. | 28.74 | 25.39 | 29.15 | 27.94 | 28.62 | 30.01 | 12.87 | 18.89 | 27.78 |
| 1916-1920.. | 26.28 | 23.04 | 27.50 | 25.17 | 24.49 | 27.29 | 17.86 | 16.48 | 25.35 |
| 1921-1925.. | 24.73 | 22.40 | 25.17 | 22.72 | 22.85 | 25.84 | 18.20 | 9.54 | 23.86 |
| 1926-1930.. | 21.76 | 19.65 | 21.90 | 19.41 | 21.54 | 22.29 | 15.60 | 14.96 | 20.98 |
| 1931-1935.. | 17.28 | 15.60 | 18.48 | 14.89 | 18.36 | 19.95 | 15.99 | 15.77 | 16.94 |
| 1936-1940.. | 17.51 | 16.20 | 19.48 | 15.82 | 19.16 | 20.58 | 19.96 | 18.68 | 17.52 |
| 1941-1945.. | 19.79 | 19.27 | 22.28 | 20.43 | 21.72 | 22.23 | 11.40 | 26.82 | 20.28 |
| 1946-1950.. | 22.50 | 22.53 | 24.80 | 24.55 | 25.23 | 26.56 | 23.29 | 40.53 | 23.38 |

YEARLY RATES.

| | | | | | | | | (d) | | |
|------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1946 | .. | 22.83 | 23.05 | 24.79 | 24.90 | 24.57 | 27.15 | 12.49 | 32.61 | 23.62 |
| 1947 | .. | 23.25 | 23.06 | 25.65 | 25.25 | 25.60 | 27.70 | 25.34 | 38.75 | 24.06 |
| 1948 | .. | 22.19 | 22.06 | 24.80 | 24.11 | 25.12 | 26.38 | 22.97 | 39.90 | 23.08 |
| 1949 | .. | 22.10 | 21.92 | 24.18 | 23.80 | 25.35 | 26.08 | 25.68 | 42.85 | 22.91 |
| 1950 | .. | 22.20 | 22.61 | 24.62 | 24.72 | 25.47 | 25.66 | 27.55 | 46.52 | 23.29 |

(a) Number of births per 1,000 of mean population.

(b) Included with South Australia prior to 1901.

(c) Part of New South Wales prior to 1911.

(d) Rates based on revised mean population

estimates shown on p. 527 are as follows:—1946-50, 37.89; 1947, 38.46; 1948, 37.77; 1949, 38.65; 1950, 40.44.

NOTE.—The birth-rates in the table above are based on live births registered in the respective States and Territories. Some years ago a large proportion of births in respect of which the mother's usual residence was the Australian Capital Territory took place in Queanbeyan, just over the New South Wales border, but with improved hospital facilities in the Territory the movement to outside hospitals rapidly diminished and has been reversed since 1939. The following rates, based on births in respect of which the mother's usual residence is the Australian Capital Territory and on revised population figures, are a truer measure of birth-rates in the Australian Capital Territory:—

| Annual Average. | Year. |
|-------------------|-------|
| 1926-1930 | 22.45 |
| 1931-1935 | 19.53 |
| 1936-1940 | 19.29 |
| 1941-1945 | 23.06 |
| 1946-1950 | 27.10 |
| 1946 | 26.00 |
| 1947 | 25.66 |
| 1948 | 25.99 |
| 1949 | 27.28 |
| 1950 | 29.63 |

The variations similarly caused in the birth-rates for the States and Northern Territory by referring the birth registrations to the State or Territory in which the mother was usually resident are shown by the following corrected rates for 1950:—New South Wales, 22.22; Victoria, 22.62; Queensland, 24.77; South Australia, 24.67; Western Australia, 25.50; Tasmania, 25.72; and Northern Territory, 28.15.

The preceding table shows a marked reduction in the crude birth-rate since 1861. The average annual rate, which for the five years ended 1865 was 42.44, fell to 27.67 for the five years ended 1900. In the earlier years of the present century the rate fluctuated somewhat but from 1912, when 28.60 was recorded, there was an almost continuous decline to the very low figure of 16.39 in 1934. The decline in the depression years was to some extent occasioned by the postponement of marriages, and with subsequent improvement in economic conditions the rate rose. Since 1940 the rate has increased quite appreciably owing to a continued improvement in the economic welfare of the community and the war-time boom in marriages. The latter resulted in an abnormal number of first births but investigation indicates that rates for births other than first were generally slightly higher than might have been expected from pre-war experience. The improvement in the birth-rate has been maintained since the end of the war despite some falling off in marriage rates.

4. Crude Birth-rates of Various Countries.—The following table gives the crude birth-rates for Australia and each State in comparison with the rates for various other countries.

CRUDE BIRTH-RATES (a) : VARIOUS COUNTRIES.

| Country. | 1908-13. | 1921-25. | 1926-30. | 1931-35. | 1950. |
|--|-------------|-------------|-------------|-------------|-------------|
| Egypt | 43.6 | 43.0 | 44.3 | 42.9 | 48.8 |
| Mexico | (b) | (c) 31.9 | 30.7 | 43.1 | 45.7 |
| Ceylon | 36.9 | 39.2 | 40.4 | 36.9 | 40.2 |
| Chile | (d) 39.9 | 39.4 | 41.6 | 33.6 | 32.4 |
| Yugoslavia | (b) | 35.0 | 34.2 | 31.8 | 30.2 |
| Japan | 32.9 | 34.6 | 33.5 | 31.6 | 28.3 |
| Canada | (b) | 27.4 | 24.1 | 21.4 | 27.1 |
| Greece | (b) | 23.0 | 30.2 | 29.5 | (e) 26.1 |
| Union of South Africa(f) | (d) 31.9 | 27.1 | 25.9 | 24.1 | 25.7 |
| Argentina | 37.1 | 32.4 | 30.1 | 26.4 | (e) 24.9 |
| New Zealand (g) | 26.5 | 22.2 | 19.7 | 17.0 | 24.6 |
| Finland | 29.5 | 24.7 | 22.5 | 19.5 | 24.4 |
| Portugal | 34.6 | 33.2 | 31.2 | 29.0 | 24.2 |
| United States of America | (h) 25.1 | 22.5 | 19.7 | (i) 16.9 | 23.4 |
| Rumania | 43.1 | 37.9 | 35.2 | 32.9 | (j) 23.4 |
| Australia(k) | 27.4 | 23.9 | 21.0 | 16.9 | 23.3 |
| <i>Tasmania(k)</i> | 29.6 | 25.8 | 22.3 | 19.9 | 25.7 |
| <i>Western Australia(k)</i> | 28.9 | 22.9 | 21.5 | 18.4 | 25.5 |
| <i>South Australia(k)</i> | 27.1 | 22.7 | 19.4 | 14.9 | 24.7 |
| <i>Queensland(k)</i> | 28.2 | 25.2 | 21.9 | 18.5 | 24.6 |
| <i>Victoria(k)</i> | 25.3 | 22.4 | 19.7 | 15.6 | 22.6 |
| <i>New South Wales(k)</i> | 28.2 | 24.7 | 21.8 | 17.3 | 22.2 |
| Czechoslovakia | 31.1 | 27.1 | 23.2 | 19.6 | 22.9 |
| Netherlands | 29.1 | 25.7 | 23.2 | 21.2 | 22.7 |
| Eire | 23.1 | 20.3 | 20.1 | 19.4 | 21.0 |
| France | 19.5 | 19.3 | 18.2 | 16.5 | 20.4 |
| Spain | 32.1 | 29.8 | 28.5 | 27.1 | 19.9 |
| Italy | 32.4 | 29.8 | 26.8 | 23.8 | 19.6 |
| Norway | 26.0 | 22.2 | 18.0 | 15.2 | 19.3 |
| Hungary | (d) 34.3 | 29.4 | 26.0 | 22.4 | (l) 19.1 |
| Denmark | 27.1 | 22.3 | 19.4 | 17.7 | 18.6 |
| Switzerland | 24.7 | 19.5 | 17.6 | 16.4 | 18.1 |
| Belgium | 23.4 | 20.4 | 18.6 | 16.8 | 16.5 |
| Sweden | 24.4 | 19.1 | 15.9 | 14.1 | 16.4 |
| Great Britain and Northern Ireland | 24.6 | 20.4 | 17.2 | 15.5 | 16.1 |
| <i>Northern Ireland</i> | 23.1 | 23.1 | 21.2 | 20.0 | 20.9 |
| <i>Scotland</i> | 26.2 | 23.0 | 20.0 | 18.2 | 17.7 |
| <i>England and Wales</i> | 24.9 | 19.9 | 16.5 | 15.0 | 15.7 |
| Austria | (d) 24.9 | 22.2 | 17.6 | 14.4 | 15.6 |

(a) Number of births per 1,000 of mean population. (b) Not available. (c) 1922-25.
 (d) 1911-13. (e) 1949. (f) White population only. (g) Excludes Maoris. (h) 1915.
 (i) 1933-35. (j) 1947. (k) Excludes full-blood aboriginals. (l) 1948.

5. **Fertility-rates.**—The principal demographic factors affecting the level of crude birth-rates are the proportion of women of child-bearing age in the population and the proportion of such women who are married. These factors may vary considerably at different periods and for different countries, and a population with a high proportion of married women of child-bearing age will have a much higher crude birth-rate than one with a low proportion, although the fertilities of the two populations may be identical.

In order to compare fertilities, births are sometimes related to the number of women of child-bearing age or, alternatively, nuptial births are related to the number of married women of child-bearing age. Thus births are related to potential mothers, giving the fertility-rate.

The following table sets out for certain periods, commencing with 1880-82, the number of births per thousand of mean population, the number of births per thousand women of child-bearing age and the number of nuptial births per thousand married women of child-bearing age. For purposes of this table the child-bearing age has been taken to be 15-44 years inclusive, but births to mothers who were stated to be under 15 or over 44 years have been included in the compilations.

CRUDE BIRTH-RATES AND FERTILITY-RATES : AUSTRALIA.

| Period. | Average Annual Rates. | | | Index Nos. (Base : 1880-82 = 100). | | |
|------------|-----------------------|--|--|------------------------------------|--|--|
| | Crude Birth-rate. (a) | Fertility-rates. | | Crude Birth-rate. (a) | Fertility-rates. | |
| | | Births per 1,000 Women aged 15-44 Years. | Nuptial Births per 1,000 Married Women aged 15-44 Years. | | Births per 1,000 Women aged 15-44 Years. | Nuptial Births per 1,000 Married Women aged 15-44 Years. |
| 1880-82 .. | 35.3 | 170 | 321 | 100 | 100 | 100 |
| 1890-92 .. | 34.5 | 159 | 332 | 98 | 94 | 103 |
| 1900-02 .. | 27.2 | 117 | 235 | 77 | 69 | 73 |
| 1910-12 .. | 27.2 | 117 | 236 | 77 | 69 | 74 |
| 1920-22 .. | 25.0 | 107 | 197 | 71 | 63 | 61 |
| 1932-34 .. | 16.7 | 71 | 131 | 47 | 42 | 41 |
| 1946-48 .. | 23.6 | 104 | 167 | 67 | 61 | 52 |

(a) Number of births per 1,000 of mean population.

The table above shows how increasing proportions both of women of child-bearing age and of married women of child-bearing age inflate the crude birth-rate. Thus while the nuptial birth-rate for married women increased by only 27 per cent. over the period 1932-34 to 1946-48 the crude birth-rate rose by 41 per cent. owing principally to the greatly increased number of marriages during that period.

6. **Age-specific Fertility-rates for Females.**—So long as customary ages at marriage do not change drastically, the main demographic factor affecting the number of births is the age composition of the potential mothers in the population. Within the child-bearing group the fertility of women of different ages varies considerably and a clearer view of the fertility of the population can be obtained from an examination of what are known as its age-specific fertility-rates, that is, the number of births to women of specified ages per thousand women of those particular ages.

Age-specific fertility-rates are frequently expressed in age-groups as well as in single ages. The following table sets out age-specific fertility-rates for Australia over the period 1921 to 1950 in five-yearly age-groups.

AGE-SPECIFIC FERTILITY-RATES(a) : AUSTRALIA.

| Age-group (Years). | 1921. | 1926. | 1931. | 1936. | 1941. | 1946. | 1947. | 1948. | 1949. | 1950. |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 15-19 .. | 12.83 | 14.02 | 13.08 | 12.18 | 11.90 | 12.63 | 15.36 | 16.49 | 17.41 | 18.11 |
| 20-24 .. | 65.45 | 60.23 | 53.08 | 50.33 | 59.42 | 73.52 | 80.68 | 79.14 | 82.11 | 84.32 |
| 25-29 .. | 82.24 | 76.82 | 62.47 | 62.02 | 70.78 | 89.51 | 90.08 | 87.50 | 88.13 | 90.53 |
| 30-34 .. | 68.50 | 61.90 | 51.25 | 46.33 | 49.72 | 65.03 | 63.76 | 61.26 | 59.30 | 60.34 |
| 35-39 .. | 49.48 | 43.55 | 33.23 | 28.89 | 28.69 | 37.43 | 36.48 | 34.11 | 33.32 | 33.89 |
| 40-44 .. | 21.66 | 17.63 | 13.61 | 10.19 | 9.52 | 11.87 | 11.44 | 10.92 | 10.24 | 10.35 |
| 45-49 .. | 2.10 | 1.90 | 1.45 | 1.11 | .80 | 1.03 | .80 | .76 | .80 | .73 |

(a) Number of female births per 1,000 women in each age-group.

The table above indicates that the most fertile age-group is 25-29 years. The decline in fertility between 1921 and 1936 was general but was more pronounced in the older age-groups. During the period 1936 to 1950 a rise in fertility occurred in all but the oldest age-group.

7. Gross and Net Reproduction Rates for Females.—A single measure of reproduction known as the gross reproduction rate is obtained by adding together the specific fertility-rates for each single age in the child-bearing group. This measure indicates the number of female children who would be born on the average to women living right through the child-bearing period, if the conditions on which the rate is based continue. The rate is unaffected by the age composition of the potential mothers, and consequently it shows more clearly than the crude birth rate the reproductive propensity of the population. It is, however, an imperfect measure of reproduction because it does not take into account the females who fail to live from birth to the end of the reproductive period. A more accurate measure of this nature is obtained by multiplying the specific fertility-rates by the number of females in the corresponding age-group of the stationary or life table population and summing the products. Allowance is thus made for the effect of mortality and the result is known as the net reproduction rate. The net reproduction rate indicates the average number of female children who would be born to women during their lifetime if they were subject at each age to the fertility and mortality rates on which the calculation is based. A constant net reproduction rate of unity indicates that the population will ultimately become stationary. If it continues greater than unity, the population will ultimately increase, if less than unity, it will ultimately decrease. The following table should be read in the light of the comment which follows it and of the index of fertility in paragraph 9 hereof.

GROSS AND NET REPRODUCTION RATES : AUSTRALIA.

| Year. | Gross Reproduction Rate. | Net Reproduction Rate. | Year. | Gross Reproduction Rate. | Net Reproduction Rate. | |
|-------------|--------------------------|------------------------|---------|--------------------------|------------------------|-------|
| | | | | | (f) | (g) |
| 1881 (a) .. | 2.65 | (b) 1.88 | 1940 .. | 1.100 | 1.004 | 1.042 |
| 1891 (a) .. | 2.30 | (b) 1.73 | 1941 .. | 1.154 | 1.053 | 1.094 |
| 1901 (a) .. | 1.74 | (c) 1.39 | 1942 .. | 1.156 | 1.056 | 1.096 |
| 1911 .. | 1.705 | (d) 1.421 | 1943 .. | 1.257 | 1.148 | 1.191 |
| 1921 .. | 1.511 | (e) 1.313 | 1944 .. | 1.289 | 1.176 | 1.221 |
| 1931 .. | 1.141 | (f) 1.039 | 1945 .. | 1.337 | 1.220 | 1.267 |
| 1936 .. | 1.060 | (f) 0.967 | 1946 .. | 1.455 | 1.328 | 1.379 |
| 1937 .. | 1.075 | (f) 0.981 | 1947 .. | 1.493 | 1.364 | 1.416 |
| 1938 .. | 1.069 | (f) 0.976 | 1948 .. | 1.451 | .. | 1.376 |
| 1939 .. | 1.080 | (f) 0.986 | 1949 .. | 1.457 | .. | 1.382 |
| | | | 1950 .. | 1.491 | .. | 1.364 |

(a) Approximate only. (b) 1881-1890 mortality experience used. (c) 1891-1900 mortality experience used. (d) 1901-1910 mortality experience used. (e) 1920-1922 mortality experience used. (f) 1932-1934 mortality experience used. (g) 1946-48 mortality experience used.

NOTE.—It is not strictly correct to assume, as above, that a particular age-specific fertility rate can be applied to a hypothetical group of women reaching that age, without taking account of previous fertility and marriage experiences. Reproduction rates are, therefore, somewhat unreliable when birth and marriage rates have been changing. The indexes of marriage fertility shown on the next page are also of doubtful reliability in similar circumstances.

Since 1881 there has been a substantial downward trend in both rates, but the gross rate has fallen considerably more than the net, showing that the decline in fertility has been offset to some extent by a decline in mortality. The net reproduction rate was below unity over the period 1932 to 1939, and if the low level of those years were to continue, ultimate population decline would be certain. The progressive rise in both gross and net reproduction rates from 1939 to 1947 has been due largely to abnormally high marriage rates. Fluctuations in marriage rates affect both gross and net reproduction rates substantially. When fluctuations in marriage rates are transient, reproduction rates calculated as above are not valid as indicators of relative fertility nor of the extent to which population will replace itself. The fertility of marriages is measured in paragraph 9 below.

8. **Gross and Net Reproduction Rates of Various Countries.**—In the following table a comparison is given of the gross and net reproduction rates recorded for various countries.

GROSS AND NET REPRODUCTION RATES : VARIOUS COUNTRIES.

| Country. | Period. | Reproduction Rate. | | Country. | Period. | Reproduction Rate. | |
|--------------------------------|---------|--------------------|------|----------------------|---------|--------------------|------|
| | | Gross. | Net. | | | Gross. | Net. |
| Canada .. | 1948 | 1.67 | (a) | France .. | 1947 | 1.46 | 1.31 |
| New Zealand(b) | 1949 | 1.62 | 1.51 | Denmark .. | 1947 | 1.40 | 1.27 |
| United States of America(c) .. | 1948 | 1.54 | 1.46 | Switzerland .. | 1946 | 1.29 | 1.16 |
| Netherlands .. | 1949 | 1.56 | 1.43 | Sweden .. | 1947 | 1.21 | 1.13 |
| Finland .. | 1948 | 1.67 | 1.40 | Portugal .. | 1949 | 1.55 | 1.13 |
| Eire .. | 1945-47 | 1.63 | 1.38 | Norway .. | 1948 | 1.23 | 1.13 |
| Australia .. | 1950 | 1.49 | 1.36 | England and Wales .. | 1948 | 1.16 | 1.07 |
| Scotland .. | 1947 | 1.50 | 1.35 | Belgium .. | 1948 | 1.19 | 1.00 |

(a) Not available.

(b) Excludes Maoris.

(c) White population only.

In comparing the reproduction rates of the countries shown above allowance should be made for any differences in years as the rates for any one country from year to year are affected by variations in the incidence of marriage.

9. **Fertility of Marriages.**—In issues of the Official Year Book prior to No. 35 estimates of the fertility of marriages were published. These were calculated by relating the births of one five-yearly period to the marriages in the preceding five years (see Official Year Book No. 35, p. 329). Since the publication of that issue, an improved method has been formulated for measuring current marriage fertility by relating nuptial confinements in each year to the marriages from which they could have resulted. Confinements of women of a certain number of years duration of marriage are related to the number of marriages taking place that number of years previously. The table below sets out this index of current fertility per marriage in respect of confinements in the individual years shown.

FERTILITY OF MARRIAGES : AUSTRALIA.

| Year. | Nuptial Confinements per Marriage. | Year. | Nuptial Confinements per Marriage. | Year. | Nuptial Confinements per Marriage. |
|-----------|------------------------------------|-----------|------------------------------------|-----------|------------------------------------|
| 1936.. .. | 2.28 | 1941.. .. | 2.19 | 1946.. .. | 2.55 |
| 1937.. .. | 2.27 | 1942.. .. | 2.12 | 1947.. .. | 2.55 |
| 1938.. .. | 2.22 | 1943.. .. | 2.21 | 1948.. .. | 2.44 |
| 1939.. .. | 2.20 | 1944.. .. | 2.28 | 1949.. .. | 2.45 |
| 1940.. .. | 2.18 | 1945.. .. | 2.36 | 1950.. .. | 2.56 |

NOTE.—See Note at foot of p. 587.

The figure for a particular year gives the estimated number of children which a marriage would produce according to the fertility conditions of that year. It will be noted that there was an almost continuous decline to 1942, but a pronounced increase

from 1943 to 1946. Comparing this index with the net reproduction rate it is evident that the rise in the latter since 1935 has been caused by a rise in the marriage rate, due firstly to the postponed depression marriages, and secondly to war-time marriages, and only in the last six years to any increase in the fertility of marriages. The figures for 1949 and 1950 present a somewhat inflated index as many of the births which have been used to calculate the index relate to marriages of immigrants which took place overseas and are consequently not included in Australian marriage records.

10. **Masculinity of Live Births.**—The masculinity of live births, i.e., the number of males born for every 100 female births, has remained fairly stable for Australia at about 105. But when the number of births for which masculinity is being calculated is small (for example, State totals), considerable variation is shown. For 1950 the figures ranged from 98.55 in the Northern Territory to 107.51 in Tasmania. The averages for the ten years 1941-50 were as follows:—New South Wales, 105.49; Victoria, 105.47; Queensland, 105.49; South Australia, 105.78; Western Australia, 104.27; Tasmania, 104.45; Australia, 105.38. The following table shows the figures for Australia for each ten-year period from 1901 to 1950 and for each year 1947 to 1950:—

MASCULINITY(a) OF LIVE BIRTHS REGISTERED : AUSTRALIA.

| Particulars. | 1901-10. | 1911-20. | 1921-30. | 1931-40. | 1941-50. | 1947. | 1948. | 1949. | 1950. |
|-------------------|----------|----------|----------|----------|----------|--------|--------|--------|--------|
| Total Births .. | 105.22 | 105.27 | 105.55 | 105.12 | 105.38 | 105.93 | 105.36 | 104.78 | 105.46 |
| Ex-nuptial Births | 104.08 | 105.25 | 105.16 | 105.36 | 105.34 | 101.75 | 103.55 | 101.20 | 105.38 |

(a) Number of males born for every 100 female births.

11. **Ex-nuptial Live Births.**—(i) *General.* Since 1901 the highest proportion of ex-nuptial births recorded in any one year was in 1905 when there were 6,545 ex-nuptial births representing 6.24 per cent. of total births. Since then the proportion has declined steadily. The largest number of ex-nuptial births was recorded in 1946 when 7,613 were registered, but this number represented only 4.32 per cent. of total births. The lowest proportion was 3.78 per cent. in 1940.

The variations in the proportions of ex-nuptial births as between the individual States and Territories for 1950 are shown below. Corresponding figures for 1949 may be obtained from *Demography Bulletin* No. 67.

EX-NUPTIAL LIVE BIRTHS : NUMBER AND PROPORTION, 1950.

| Particulars. | N.S.W. | Vic. | Q'land. | S. Aust. | W. Aust. | Tas. | N.T. | A.C.T. | Aust. |
|---------------|--------|-------|---------|----------|----------|------|-------|--------|-------|
| Number .. | 2,914 | 1,617 | 1,428 | 476 | 525 | 283 | 54 | 27 | 7,324 |
| Proportion of | % | % | % | % | % | % | % | % | % |
| Total Births | 4.07 | 3.25 | 4.92 | 2.75 | 3.69 | 3.91 | 13.14 | 2.83 | 3.84 |

The number and proportion of ex-nuptial births at intervals from 1901 to 1950 are as follows:—

EX-NUPTIAL LIVE BIRTHS : NUMBER AND PROPORTION, AUSTRALIA.

| Particulars. | Annual Average. | | | | | 1946. | 1947. | 1948. | 1949. | 1950. |
|--------------------------------|-----------------|----------|----------|----------|----------|-------|-------|-------|-------|-------|
| | 1901-10. | 1911-20. | 1921-30. | 1931-40. | 1941-50. | | | | | |
| Number of Ex-nuptial Births .. | 6,498 | 6,836 | 6,238 | 5,133 | 6,780 | 7,613 | 7,263 | 7,173 | 7,372 | 7,324 |
| Proportion of | % | % | % | % | % | % | % | % | % | % |
| Total Births | 6.05 | 5.22 | 4.66 | 4.40 | 4.13 | 4.32 | 3.98 | 4.03 | 4.07 | 3.84 |

It is, of course, possible that the number of ex-nuptial births is somewhat understated owing to diffidence in proclaiming the fact of ex-nuptiality.

(ii) *Rate of Ex-nuptiality.* A further comparison is obtained by calculating the number of ex-nuptial births per thousand of the single, widowed and divorced female population between the ages of 15 and 45 years. On this basis the number of ex-nuptial births per 1,000 unmarried women of ages 15 to 45 has been found to be as follows :— 1880-82, 14.49; 1890-92, 15.93; 1900-02, 13.30; 1910-12, 12.53; 1920-22, 10.50; 1932-34, 6.96; and 1946-48, 11.56.

(iii) *Comparison of Rates.* The following table, showing the relative proportions of ex-nuptial and nuptial births to the total population, discloses a much greater proportional reduction in the ex-nuptial birth-rate than in the nuptial rate :—

CRUDE EX-NUPTIAL, NUPTIAL, AND TOTAL BIRTH-RATES(a) : AUSTRALIA.

| Birth-rate. | Annual Average. | | | | | 1947. | 1948. | 1949. | 1950. |
|-------------|-----------------|----------|----------|----------|----------|-------|-------|-------|-------|
| | 1901-10. | 1911-20. | 1921-30. | 1931-40. | 1941-50. | | | | |
| Ex-nuptial | 1.60 | 1.39 | 1.04 | 0.76 | 0.90 | 0.96 | 0.93 | 0.93 | 0.90 |
| Nuptial .. | 24.91 | 25.18 | 21.40 | 16.47 | 20.98 | 23.10 | 22.15 | 21.98 | 22.39 |
| Total .. | 26.51 | 26.57 | 22.44 | 17.23 | 21.88 | 24.06 | 23.08 | 22.91 | 23.29 |

(a) Number of births per 1,000 of mean population.

12. *Legitimations.*—In the several States Acts have been passed to legitimize children born before the marriage of their parents, provided that no legal impediment to the marriage existed at the time of birth. On registration in accordance with the provisions of the Legitimation Acts, any child who comes within the scope of their purposes, born before or after the passing thereof, is deemed to be legitimate from birth by the post-natal union of its parents, and entitled to the status of offspring born in wedlock. During 1949 and 1950 the numbers of children legitimized in Australia were 867 and 922 respectively, compared with 883 in 1939.

13. *Multiple Births.*—Among the total number of 190,591 live births registered in Australia in 1950 there were 186,198 single births, 4,329 twins, 57 triplets and 7 quadruplets. The number of cases of twins was 2,217, triplets 20 and of quadruplets 2, there being 105 still-born twins, 3 still-born triplets and 1 still-born quadruplet. The total number of mothers was, therefore, 188,437, the proportion of mothers of twins being one in every 85, of mothers of triplets one in every 9,422, and of mothers of all multiple births one in every 8.4 mothers. Multiple births occurred in 1.19 per cent. of confinements.

The proportion of multiple births to total births does not vary greatly from year to year.

MULTIPLE BIRTHS : AUSTRALIA.

| Particulars. | Annual Average. | | | | 1947. | 1948. | 1949. | 1950. |
|-------------------------------|-----------------|----------|----------|----------|-------|-------|-------|-------|
| | 1911-20. | 1921-30. | 1931-40. | 1941-50. | | | | |
| Mothers of Multiple Births .. | 1,387 | 1,420 | 1,220 | 1,844 | 2,030 | 1,938 | 2,037 | 2,239 |
| Proportion of Total Mothers | % | % | % | % | % | % | % | % |
| | 1.06 | 1.07 | 1.06 | 1.13 | 1.12 | 1.10 | 1.14 | 1.19 |

14. *Ages of Parents.*—The relative ages of the parents of children registered in 1949 and 1950 have been tabulated separately for male and female births, multiple births being distinguished from single births. For total births and for multiple births the relative single ages of parents are shown in *Demography Bulletins* Nos. 67 and 68. In the present work the exigencies of space allow only the insertion of a table for 1950 showing, in respect of all confinements, the relative ages of parents in groups of five years.

CONFINEMENTS : RELATIVE AGES OF PARENTS, AUSTRALIA, 1950.

| Age of Father (Years), and Type of Birth. | Total. | Age of Mother (Years). | | | | | | | | |
|---|---------|------------------------|--------|--------|--------|--------|--------|--------|--------------|-------------|
| | | Under 15. | 15-19. | 20-24. | 25-29. | 30-34. | 35-39. | 40-44. | 45 and over. | Not Stated. |
| Under 20 { Single Twins | 1,019 | 1 | 752 | 255 | 11 | .. | .. | .. | .. | .. |
| | 7 | .. | 6 | 1 | .. | .. | .. | .. | .. | .. |
| 20-24 .. { Single Twins Triplets | 26,191 | 3 | 5,013 | 17,913 | 3,004 | 219 | 36 | 3 | .. | .. |
| | 227 | .. | 32 | 155 | 34 | 4 | 1 | 1 | .. | .. |
| | 3 | .. | .. | 1 | 2 | .. | .. | .. | .. | .. |
| 25-29 .. { Single Twins Triplets | 56,920 | 1 | 1,974 | 23,992 | 26,850 | 3,656 | 414 | 30 | 3 | .. |
| | 595 | .. | 17 | 227 | 299 | 49 | 2 | 1 | .. | .. |
| | 1 | .. | .. | .. | 1 | .. | .. | .. | .. | .. |
| 30-34 { Single Twins Triplets Quadruplets | 43,331 | .. | 346 | 6,408 | 19,394 | 14,674 | 2,339 | 166 | 4 | .. |
| | 557 | .. | 1 | 53 | 247 | 221 | 33 | 2 | .. | .. |
| | 7 | .. | .. | 1 | 2 | 3 | 1 | .. | .. | .. |
| | 1 | .. | .. | .. | 1 | .. | .. | .. | .. | .. |
| 35-39 .. { Single Twins Triplets | 29,537 | .. | 115 | 1,717 | 6,867 | 11,625 | 8,421 | 784 | 8 | .. |
| | 437 | .. | .. | 18 | 87 | 175 | 141 | 16 | .. | .. |
| | 5 | .. | .. | .. | .. | 3 | 2 | .. | .. | .. |
| 40-44 .. { Single Twins Triplets | 14,389 | .. | 27 | 437 | 1,871 | 3,979 | 5,762 | 2,259 | 54 | .. |
| | 215 | .. | 1 | 2 | 20 | 61 | 103 | 28 | .. | .. |
| | 3 | .. | .. | .. | .. | 1 | 2 | .. | .. | .. |
| 45-49 { Single Twins Triplets Quadruplets | 5,392 | .. | 5 | 123 | 504 | 1,124 | 2,001 | 1,440 | 195 | .. |
| | 77 | .. | .. | 1 | 5 | 14 | 36 | 21 | .. | .. |
| | 1 | .. | .. | .. | .. | .. | 1 | .. | .. | .. |
| | 1 | .. | .. | .. | .. | .. | 1 | .. | .. | .. |
| 50-54 .. { Single Twins Triplets | 1,571 | .. | 4 | 39 | 136 | 303 | 567 | 476 | 46 | .. |
| | 18 | .. | .. | .. | 4 | 4 | 7 | 3 | .. | .. |
| | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 55-59 .. { Single Twins | 447 | .. | 2 | 10 | 22 | 95 | 160 | 135 | 23 | .. |
| | 4 | .. | .. | .. | .. | 1 | 3 | .. | .. | .. |
| 60-64 .. { Single Twins | 155 | .. | .. | 3 | 12 | 26 | 55 | 50 | 9 | .. |
| | 5 | .. | .. | 1 | .. | 1 | 1 | 2 | .. | .. |
| 65 and over { Single Twins | 62 | .. | 1 | 2 | 6 | 11 | 24 | 14 | 4 | .. |
| | 3 | .. | .. | .. | .. | .. | 3 | .. | .. | .. |
| Not Stated Single | 1 | .. | 1 | .. | .. | .. | .. | .. | .. | .. |
| Mothers of Nuptial Children { Single Twins Triplets Quadruplets Total | 179,015 | 5 | 8,240 | 50,899 | 58,677 | 35,712 | 19,779 | 5,357 | 346 | .. |
| | 2,145 | .. | 57 | 458 | 696 | 530 | 330 | 74 | .. | .. |
| | 20 | .. | .. | 2 | 5 | 7 | 6 | .. | .. | .. |
| | 2 | .. | .. | .. | 1 | .. | 1 | .. | .. | .. |
| Total | 181,182 | 5 | 8,297 | 51,359 | 59,379 | 36,249 | 20,116 | 5,431 | 346 | .. |
| Mothers of Ex-nuptial Children { Single Twins Total | 7,183 | 43 | 1,579 | 2,297 | 1,490 | 925 | 602 | 209 | 32 | 6 |
| | 72 | .. | 7 | 21 | 19 | 14 | 9 | 2 | .. | .. |
| | 7,255 | 43 | 1,586 | 2,318 | 1,509 | 939 | 611 | 211 | 32 | 6 |
| Total Mothers { Single Twins Triplets Quadruplets | 186,198 | 48 | 9,819 | 53,196 | 60,167 | 36,637 | 20,381 | 5,566 | 378 | 6 |
| | 2,217 | .. | 64 | 479 | 715 | 544 | 339 | 76 | .. | .. |
| | 20 | .. | .. | 2 | 5 | 7 | 6 | .. | .. | .. |
| | 2 | .. | .. | .. | 1 | .. | 1 | .. | .. | .. |
| Total | 188,437 | 48 | 9,883 | 53,677 | 60,888 | 37,188 | 20,727 | 5,642 | 378 | 6 |

15. Birthplaces of Parents.—Tables showing birthplaces of parents of children whose births were registered during 1949 and 1950 appear in *Demography Bulletins* Nos. 67 and 68 respectively.

16. Occupation of Fathers.—Tables showing occupations of the fathers of all nuptial children registered in 1949 and 1950 appear in *Demography Bulletins* Nos. 67 and 68 respectively.

17. Age, Duration of Marriage and Issue of Mothers.—(i) *General.* The total number of nuptial confinements resulting in live births in 1950 was 181,182, comprising 179,015 single births, 2,145 cases of twins, 20 cases of triplets and 2 cases of quadruplets. The tables relating to previous issue exclude the issue of former marriages and still-born

children. On the other hand, they include children by the same father which were born to the mother prior to the marriage. Children born at the present confinement are included in the total issue shown.

The tables below are shown in summarized form, more complete details for 1949 being given in *Demography Bulletin* No. 67 and for 1950 in *Demography Bulletin* No. 68.

(ii) *Duration of Marriage and Issue of Mothers.* The following table shows that in 1950 the duration of marriage of mothers of nuptial children ranged from less than one year up to 33 years, and that the average family increased fairly regularly with the duration of marriage. The average issue of married mothers who bore children in 1950 was 2.39 compared with 2.37 in 1949, 2.35 in 1948, 2.31 in 1947 and 2.36 in 1946.

NUPTIAL CONFINEMENTS : DURATION OF MARRIAGE AND ISSUE OF MOTHERS, AUSTRALIA, 1950.

| Duration of Marriage. (Years.) | Total Married Mothers. | Total Issue. | Average Issue. | Duration of Marriage. (Years.) | Total Married Mothers. | Total Issue. | Average Issue. |
|--------------------------------|------------------------|--------------|----------------|--------------------------------|------------------------|--------------|----------------|
| 0-1 .. | 23,907 | 24,348 | 1.02 | 18-19 .. | 878 | 5,281 | 6.01 |
| 1-2 .. | 23,652 | 28,317 | 1.20 | 19-20 .. | 678 | 4,398 | 6.49 |
| 2-3 .. | 21,456 | 35,842 | 1.67 | | | | |
| 3-4 .. | 20,041 | 40,329 | 2.01 | 20-21 .. | 594 | 3,972 | 6.69 |
| 4-5 .. | 16,138 | 36,876 | 2.29 | 21-22 .. | 404 | 2,806 | 6.95 |
| | | | | 22-23 .. | 312 | 2,320 | 7.44 |
| 5-6 .. | 12,282 | 30,855 | 2.51 | 23-24 .. | 214 | 1,661 | 7.76 |
| 6-7 .. | 10,180 | 27,674 | 2.72 | 24-25 .. | 119 | 921 | 7.74 |
| 7-8 .. | 9,926 | 29,062 | 2.93 | | | | |
| 8-9 .. | 9,279 | 29,271 | 3.15 | 25-26 .. | 77 | 636 | 8.26 |
| 9-10 .. | 7,288 | 24,697 | 3.39 | 26-27 .. | 50 | 383 | 7.66 |
| | | | | 27-28 .. | 25 | 188 | 7.52 |
| 10-11 .. | 6,042 | 22,206 | 3.68 | 28-29 .. | 13 | 109 | 8.38 |
| 11-12 .. | 4,272 | 16,893 | 3.95 | 29-30 .. | 2 | 16 | 8.00 |
| 12-13 .. | 3,542 | 15,002 | 4.24 | | | | |
| 13-14 .. | 2,947 | 13,273 | 4.50 | 30-31 .. | .. | .. | .. |
| 14-15 .. | 2,406 | 11,458 | 4.76 | 31-32 .. | .. | .. | .. |
| | | | | 32-33 .. | 1 | 8 | 8.00 |
| 15-16 .. | 1,866 | 9,406 | 5.04 | | | | |
| 16-17 .. | 1,458 | 7,919 | 5.43 | | | | |
| 17-18 .. | 1,133 | 6,447 | 5.69 | | | | |
| | | | | Total .. | 181,182 | 432,574 | 2.39 |

(iii) *Age and Average Issue of Mothers.* The following table shows the average number of children born to mothers of different ages. In the younger ages there is, naturally, little difference in the average number of children to each mother from year to year, but with the increase of the age of the mother the number of issue has fallen in comparison with past years. The average issue of mothers of all ages recorded for 1950 (namely 2.39) is 26.5 per cent. below the average of 3.25 for the years 1911-20.

AGE AND AVERAGE ISSUE OF MOTHERS : AUSTRALIA.

| Period. | Age of Mother (Years). | | | | | | | All Ages. |
|------------|------------------------|--------|--------|--------|--------|--------|--------------|-----------|
| | Under 20. | 20-24. | 25-29. | 30-34. | 35-39. | 40-44. | 45 and Over. | |
| 1911-20 .. | 1.21 | 1.75 | 2.61 | 3.74 | 5.11 | 6.69 | 8.16 | 3.25 |
| 1921-30 .. | 1.20 | 1.71 | 2.46 | 3.48 | 4.80 | 6.27 | 7.74 | 3.04 |
| 1931-40 .. | 1.20 | 1.68 | 2.30 | 3.19 | 4.41 | 5.89 | 7.40 | 2.71 |
| 1941-50 .. | 1.17 | 1.56 | 2.15 | 2.85 | 3.67 | 4.79 | 6.19 | 2.37 |
| 1941 .. | 1.20 | 1.59 | 2.11 | 2.86 | 3.91 | 5.35 | 7.01 | 2.40 |
| 1942 .. | 1.18 | 1.57 | 2.12 | 2.86 | 3.85 | 5.26 | 6.82 | 2.39 |
| 1943 .. | 1.18 | 1.53 | 2.09 | 2.81 | 3.75 | 5.07 | 6.86 | 2.35 |
| 1944 .. | 1.17 | 1.56 | 2.15 | 2.84 | 3.69 | 4.89 | 6.18 | 2.42 |
| 1945 .. | 1.16 | 1.55 | 2.15 | 2.84 | 3.63 | 4.82 | 6.18 | 2.42 |
| 1946 .. | 1.15 | 1.54 | 2.13 | 2.81 | 3.60 | 4.60 | 6.04 | 2.36 |
| 1947 .. | 1.14 | 1.50 | 2.11 | 2.81 | 3.61 | 4.62 | 6.03 | 2.31 |
| 1948 .. | 1.17 | 1.56 | 2.20 | 2.87 | 3.61 | 4.56 | 5.49 | 2.35 |
| 1949 .. | 1.19 | 1.59 | 2.21 | 2.93 | 3.64 | 4.54 | 5.89 | 2.37 |
| 1950 .. | 1.20 | 1.63 | 2.24 | 2.93 | 3.65 | 4.52 | 5.51 | 2.39 |

(iv) *Previous Issue of Mothers, Various Ages.* A classification of mothers by age group and previous issue is given for 1950 in the following table. Corresponding figures for 1949 appear in *Demography Bulletin* No. 67.

NUPTIAL CONFINEMENTS : AGE OF MOTHER AND PREVIOUS ISSUE, AUSTRALIA, 1950.

| Previous Issue. | Age of Mother (Years.) | | | | | | | Total Married Mothers. |
|------------------------------|------------------------|---------------|---------------|---------------|---------------|--------------|--------------|------------------------|
| | Under 20. | 20-24. | 25-29. | 30-34. | 35-39. | 40-44. | 45 and Over. | |
| 0 | 6,838 | 28,064 | 17,479 | 6,216 | 2,793 | 658 | 33 | 62,081 |
| 1 | 1,335 | 16,710 | 22,383 | 10,639 | 4,049 | 770 | 35 | 55,921 |
| 2 | 115 | 5,127 | 12,196 | 9,147 | 4,475 | 939 | 42 | 32,041 |
| 3 | 14 | 1,183 | 4,599 | 5,262 | 3,511 | 844 | 47 | 15,460 |
| 4 | .. | 220 | 1,724 | 2,470 | 2,018 | 633 | 37 | 7,102 |
| 5 | .. | 43 | 661 | 1,259 | 1,227 | 438 | 31 | 3,659 |
| 6 | .. | 8 | 224 | 643 | 774 | 343 | 32 | 2,024 |
| 7 | .. | 4 | 86 | 327 | 503 | 260 | 30 | 1,210 |
| 8 | .. | .. | 17 | 170 | 339 | 171 | 14 | 711 |
| 9 | .. | .. | 7 | 67 | 192 | 145 | 14 | 425 |
| 10 | .. | .. | 2 | 32 | 116 | 89 | 12 | 251 |
| 11 | .. | .. | 1 | 10 | 54 | 56 | 8 | 129 |
| 12 | .. | .. | .. | 3 | 41 | 40 | 4 | 88 |
| 13 | .. | .. | .. | 1 | 16 | 26 | .. | 43 |
| 14 | .. | .. | .. | 2 | 3 | 9 | 5 | 19 |
| 15 | .. | .. | .. | .. | 4 | 5 | 1 | 10 |
| 16 | .. | .. | .. | .. | .. | 2 | 1 | 3 |
| 17 | .. | .. | .. | 1 | 1 | 2 | .. | 4 |
| 18 | .. | .. | .. | .. | .. | 1 | .. | 1 |
| Total Married Mothers | 8,302 | 51,359 | 59,379 | 36,249 | 20,116 | 5,431 | 346 | 181,182 |

(v) *Previous Issue of Mothers of Twins, Triplets and Quadruplets.* Figures regarding the previous issue of married mothers of twins in 1950 show that 577 mothers had no previous issue either living or deceased, 653 had one child previously, 450 had two previous issue, 209 three, 125 four, 49 five, 39 six, 13 seven, 15 eight, 6 nine, 3 ten, 1 eleven, 3 twelve and 2 thirteen.

Of the 20 cases of nuptial triplets registered during 1950, 7 mothers had no previous issue, 2 had one, 4 had two, 4 had three, 1 had four, 1 had six and 1 had eight previous issue. Of the two cases of quadruplets in 1950, 1 mother had one previous child and 1 had three previous children.

18. Nuptial First Births.—(i) *Duration of Marriage.* The following table shows the interval between marriage and first birth for 1911-20, 1921-30, 1931-40, 1941-50, 1948, 1949 and 1950. In cases of twins and triplets, the first live born child only is enumerated.

FIRST BIRTHS : DURATION OF MARRIAGE, AUSTRALIA.

| Duration of Marriage. | Annual Average. | | | | 1948. | 1949. | 1950. |
|--|-----------------|----------|----------|----------|--------|--------|--------|
| | 1911-20. | 1921-30. | 1931-40. | 1941-50. | | | |
| NUMBER OF FIRST BIRTHS. | | | | | | | |
| Under 1 month .. | 465 | 365 | 301 | 218 | 241 | 213 | 248 |
| 1 month .. | 535 | 496 | 412 | 285 | 312 | 298 | 296 |
| 2 months .. | 760 | 719 | 626 | 419 | 400 | 470 | 479 |
| 3 " .. | 996 | 1,013 | 967 | 646 | 757 | 701 | 727 |
| 4 " .. | 1,227 | 1,333 | 1,367 | 986 | 1,116 | 1,084 | 1,144 |
| 5 " .. | 1,551 | 1,809 | 2,008 | 1,583 | 1,977 | 1,820 | 1,932 |
| 6 " .. | 1,993 | 2,397 | 2,812 | 2,478 | 2,989 | 2,874 | 2,884 |
| 7 " .. | 1,785 | 2,219 | 2,184 | 2,207 | 2,632 | 2,353 | 2,312 |
| 8 " .. | 1,562 | 1,530 | 1,417 | 2,104 | 2,366 | 2,087 | 2,165 |
| 9 " .. | 3,517 | 3,253 | 2,668 | 4,298 | 4,779 | 4,677 | 4,509 |
| 10 " .. | 2,877 | 2,907 | 2,202 | 3,447 | 4,020 | 3,902 | 3,811 |
| 11 " .. | 2,018 | 2,152 | 1,836 | 2,896 | 3,311 | 3,255 | 3,240 |
| Total under 1 year .. | 19,286 | 20,193 | 18,800 | 21,567 | 24,900 | 23,734 | 23,747 |
| 1-2 years .. | 8,563 | 10,133 | 10,595 | 17,762 | 19,277 | 19,425 | 19,302 |
| 2-3 " .. | 2,626 | 3,369 | 4,319 | 8,028 | 6,792 | 7,750 | 8,271 |
| 3-4 " .. | 1,230 | 1,743 | 2,214 | 4,361 | 3,311 | 3,448 | 4,198 |
| 4-5 " .. | 700 | 941 | 1,205 | 2,569 | 2,224 | 1,885 | 2,132 |
| 5-10 " .. | 980 | 1,446 | 1,766 | 3,936 | 4,638 | 3,991 | 3,676 |
| 10-15 " .. | 168 | 240 | 289 | 501 | 564 | 601 | 643 |
| 15-20 " .. | 34 | 47 | 48 | 80 | 81 | 71 | 95 |
| 20 years and over .. | 8 | 8 | 7 | 14 | 12 | 22 | 17 |
| Total .. | 33,595 | 38,120 | 39,243 | 58,818 | 61,799 | 60,927 | 62,081 |
| PROPORTION OF TOTAL FIRST BIRTHS. | | | | | | | |
| | % | % | % | % | % | % | % |
| Under 1 month .. | 1.39 | 0.96 | 0.77 | 0.37 | 0.39 | 0.35 | 0.40 |
| 1 month .. | 1.59 | 1.30 | 1.05 | 0.49 | 0.50 | 0.49 | 0.48 |
| 2 months .. | 2.26 | 1.89 | 1.59 | 0.71 | 0.65 | 0.77 | 0.77 |
| 3 " .. | 2.96 | 2.66 | 2.46 | 1.10 | 1.22 | 1.15 | 1.17 |
| 4 " .. | 3.65 | 3.50 | 3.48 | 1.68 | 1.81 | 1.78 | 1.84 |
| 5 " .. | 4.62 | 4.75 | 5.12 | 2.69 | 3.20 | 2.99 | 3.11 |
| 6 " .. | 5.93 | 6.29 | 7.16 | 4.21 | 4.84 | 4.72 | 4.65 |
| 7 " .. | 5.32 | 5.82 | 5.57 | 3.75 | 4.26 | 3.86 | 3.72 |
| 8 " .. | 4.65 | 4.01 | 3.61 | 3.58 | 3.83 | 3.42 | 3.49 |
| 9 " .. | 10.47 | 8.53 | 6.80 | 7.31 | 7.73 | 7.68 | 7.26 |
| 10 " .. | 8.56 | 7.63 | 5.61 | 5.86 | 6.50 | 6.40 | 6.14 |
| 11 " .. | 6.01 | 5.64 | 4.68 | 4.92 | 5.36 | 5.34 | 5.22 |
| Total under 1 year .. | 57.41 | 52.98 | 47.90 | 36.67 | 40.29 | 38.95 | 38.25 |
| 1-2 years .. | 25.49 | 26.58 | 27.00 | 30.20 | 31.19 | 31.88 | 31.09 |
| 2-3 " .. | 7.82 | 8.84 | 11.01 | 13.65 | 10.99 | 12.72 | 13.32 |
| 3-4 " .. | 3.66 | 4.57 | 5.64 | 7.41 | 5.36 | 5.66 | 6.76 |
| 4-5 " .. | 2.08 | 2.47 | 3.07 | 4.37 | 3.60 | 3.09 | 3.44 |
| 5-10 " .. | 2.92 | 3.79 | 4.50 | 6.69 | 7.51 | 6.55 | 5.92 |
| 10-15 " .. | 0.50 | 0.63 | 0.74 | 0.85 | 0.91 | 0.99 | 1.04 |
| 15-20 " .. | 0.10 | 0.12 | 0.12 | 0.14 | 0.13 | 0.12 | 0.15 |
| 20 years and over .. | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.04 | 0.03 |
| Total .. | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |

The masculinity of nuptial first births in 1950 was 105.28 compared with 105.46 for total births.

(ii) *Age of Mother and Duration of Marriage.* Tabulations showing single ages of mothers of nuptial first-born children in conjunction with duration of marriage are given for 1948, 1949 and 1950 in *Demography Bulletins* Nos. 66 to 68.

(iii) *First Births Occurring within Nine Months of Marriage.* The following table shows for 1948, 1949 and 1950 the number of children born less than nine months after marriage to mothers in each age-group. For purposes of comparison details of births of

ex-nuptial children and of all first-born children are also shown together with the number of brides in each year within the age-groups used. The analysis of the figures shown in the table is intended to indicate the extent of ante-nuptial conception but the data are subject to the limitations that premature births which are not the result of ante-nuptial conception are included among the births which occurred less than nine months after marriage and the proportion of first births among ex-nuptial births is unknown. Subject to these limitations the total of nuptial births occurring less than nine months after marriage and all ex-nuptial births may be taken as indicating the extent of ante-nuptial conception. The difference from the true figures is probably not significant, especially in the lower age-groups.

Three-fifths of first births to married mothers under 20 years of age are conceived before marriage whilst at ages 20-24 years the proportion is one-fifth and at ages 25-29 years about one-tenth. If all ex-nuptial births are included as first births then almost 70 per cent. of first births to mothers aged under 20 years are conceived out of wedlock. In the age-group 20-24 years the proportion is over 25 per cent. and in the age-group 25-29 years over 16 per cent.

FIRST BIRTHS : AGE OF MOTHER AND DURATION OF MARRIAGE, AUSTRALIA.

| Particulars. | Age-group (Years).(a) | | | | | | | Total. | |
|---|-----------------------|--------|--------|--------|--------|--------|--------------|--------|----------|
| | Under 20. | 20-24. | 25-29. | 30-34. | 35-39. | 40-44. | 45 and over. | | |
| 1948. | | | | | | | | | |
| 1. Nuptial births occurring less than 9 months after marriage | No. | 4,105 | 6,057 | 1,691 | 618 | 248 | 68 | 3 | 12,790 |
| 2. Total nuptial first births | No. | 6,727 | 27,702 | 16,982 | 6,929 | 2,776 | 646 | 37 | 61,799 |
| 3. Ex-nuptial births | No. | 1,617 | 2,351 | 1,436 | 930 | 568 | 200 | 19 | (b)7,121 |
| 4. Total Brides | No. | 13,200 | 35,428 | 12,827 | 5,431 | 3,138 | 1,843 | 3,035 | 74,902 |
| Proportion of 1 to 2 | % | 61.02 | 21.86 | 9.96 | 8.92 | 8.93 | 10.53 | 8.11 | 20.70 |
| Proportion of 1 to 4 | % | 31.10 | 17.10 | 13.18 | 11.38 | 7.90 | 3.69 | 0.10 | 17.08 |
| Proportion of 1 + 3 to 2 + 3 | % | 68.58 | 27.98 | 16.98 | 19.70 | 24.40 | 31.68 | 39.29 | 28.81 |
| 1949. | | | | | | | | | |
| 1. Nuptial births occurring less than 9 months after marriage | No. | 4,060 | 5,530 | 1,532 | 498 | 219 | 60 | 1 | 11,900 |
| 2. Total nuptial first births | No. | 6,678 | 27,737 | 16,943 | 6,208 | 2,674 | 653 | 34 | 60,927 |
| 3. Ex-nuptial births | No. | 1,679 | 2,428 | 1,479 | 933 | 569 | 182 | 14 | (c)7,284 |
| 4. Total Brides | No. | 13,391 | 33,966 | 12,351 | 5,095 | 3,187 | 1,873 | 3,136 | 72,999 |
| Proportion of 1 to 2 | % | 60.80 | 19.94 | 9.04 | 8.02 | 8.19 | 9.19 | 2.94 | 19.53 |
| Proportion of 1 to 4 | % | 30.32 | 16.28 | 12.40 | 9.77 | 6.87 | 3.20 | 0.03 | 16.30 |
| Proportion of 1 + 3 to 2 + 3 | % | 68.67 | 26.38 | 16.34 | 20.04 | 24.30 | 28.98 | 31.25 | 28.12 |
| 1950. | | | | | | | | | |
| 1. Nuptial births occurring less than 9 months after marriage | No. | 4,247 | 5,520 | 1,569 | 508 | 272 | 71 | .. | 12,187 |
| 2. Total nuptial first births | No. | 6,838 | 28,064 | 17,479 | 6,216 | 2,793 | 658 | 33 | 62,081 |
| 3. Ex-nuptial births | No. | 1,629 | 2,318 | 1,509 | 939 | 611 | 211 | 32 | (d)7,249 |
| 4. Total Brides | No. | 13,909 | 35,087 | 12,464 | 5,248 | 3,428 | 2,085 | 3,378 | 75,599 |
| Proportion of 1 to 2 | % | 62.11 | 19.67 | 8.98 | 8.17 | 9.74 | 10.79 | .. | 19.63 |
| Proportion of 1 to 4 | % | 30.53 | 15.73 | 12.59 | 9.68 | 7.93 | 3.41 | .. | 16.12 |
| Proportion of 1 + 3 to 2 + 3 | % | 69.40 | 25.80 | 16.21 | 20.22 | 25.94 | 32.45 | 49.23 | 28.03 |
| 1911-20% | | | | | | | | | |
| 1911-20% | | 81.22 | 49.37 | 28.37 | 25.50 | 30.89 | 37.01 | 49.49 | 43.70 |
| 1921-30% | | 80.08 | 45.59 | 23.45 | 22.22 | 29.78 | 38.18 | 49.65 | 40.76 |
| 1931-40% | | 80.06 | 44.75 | 20.49 | 19.41 | 27.78 | 38.43 | 55.57 | 39.32 |
| 1941-50% | | 69.12 | 27.30 | 14.94 | 16.74 | 22.54 | 29.58 | 44.95 | 26.92 |
| 1946% | | 69.33 | 26.64 | 14.43 | 15.93 | 21.93 | 28.97 | 53.57 | 25.73 |
| 1947% | | 68.62 | 27.52 | 15.71 | 17.23 | 22.33 | 25.82 | 25.64 | 27.29 |
| 1948% | | 68.58 | 27.98 | 16.98 | 19.70 | 24.40 | 31.68 | 39.29 | 28.81 |
| 1949% | | 68.67 | 26.38 | 16.34 | 20.04 | 24.30 | 28.98 | 31.25 | 28.12 |
| 1950% | | 69.40 | 25.80 | 16.21 | 20.22 | 25.94 | 32.45 | 49.23 | 28.03 |

(a) Age, in years, of mothers at birth of first child, age of brides at marriage. (b) Excludes 2 births, age of mother not stated. (c) Excludes 5 births, age of mother not stated. (d) Excludes 6 births, age of mother not stated.

NOTE.—In cases of multiple first births, only one child is included.

19. **Still-births.**—Registration of still-births is not compulsory in all Australian States. It has been compulsory in Western Australia since 14th January, 1908; in the Australian Capital Territory since 1st January, 1930; in New South Wales since 1st April, 1935, and in South Australia since 1st May, 1937. In Victoria, Queensland and Tasmania registration is not enforced but some information is obtained by notification of still-births for various purposes. Because registration is not compulsory in all States detailed statistics of still-births for Australia as a whole cannot be compiled.

The number of still-births in each State and Territory, as recorded by the means outlined above, during the last four years are as shown in the following table :—

STILL-BIRTHS.

| State or Territory. | Number. | | | | Per 1,000 of all Births (Live and Still). | | | |
|-----------------------|---------|-------|-------|-------|---|-------|-------|-------|
| | 1947. | 1948. | 1949. | 1950. | 1947. | 1948. | 1948. | 1950. |
| New South Wales .. | 1,466 | 1,326 | 1,279 | 1,406 | 20.69 | 19.34 | 18.25 | 19.26 |
| Victoria .. | 951 | 902 | 907 | 963 | 19.68 | 19.19 | 18.98 | 18.96 |
| Queensland .. | (a) | (a) | (a) | (a) | (a) | (a) | (a) | (a) |
| South Australia .. | 387 | 374 | 338 | 325 | 23.17 | 23.02 | 20.63 | 18.43 |
| Western Australia .. | 304 | 266 | 268 | 240 | 23.07 | 20.16 | 19.45 | 16.59 |
| Tasmania .. | 187 | 179 | 159 | 138 | 25.52 | 25.01 | 21.87 | 18.70 |
| Northern Territory .. | (a) | (a) | (a) | (a) | (a) | (a) | (a) | (a) |
| Aust. Cap. Territory | 10 | 17 | 14 | 11 | 15.04 | 22.91 | 16.81 | 11.40 |

(a) Not available.

§ 3. Mortality.

1. **Number of Deaths.**—(i) *Year, 1950.* The following table shows the number of deaths, male and female, registered in each State during the year :—

DEATHS, 1950.

| Sex. | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tas. | N.T. | A.C.T. | Aust. |
|------------|--------|-----------|---------|----------|----------|-------|------|--------|--------|
| Males .. | 17,565 | 11,781 | 6,160 | 3,721 | 3,022 | 1,318 | 83 | 70 | 43,720 |
| Females .. | 13,400 | 10,560 | 4,239 | 3,019 | 2,036 | 1,148 | 13 | 52 | 34,467 |
| Persons .. | 30,965 | 22,341 | 10,399 | 6,740 | 5,058 | 2,466 | 96 | 122 | 78,187 |

(ii) *Years 1861 to 1950.* A summary of the total number of deaths in each State and Territory since 1861 is given in the following table :—

DEATHS.

| Period. | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tas. | N.T. | A.C.T. | Aust. |
|---------|--------|-----------|---------|----------|----------|------|------|--------|-------|
|---------|--------|-----------|---------|----------|----------|------|------|--------|-------|

ANNUAL AVERAGES.

| | | | | | | | | | |
|--------------|--------|--------|--------|-------|-------|-------|-----|-----|--------|
| 1861-1865 | 6,312 | 9,890 | 1,150 | 2,168 | 279 | 1,391 | .. | .. | 21,190 |
| 1866-1870 | 7,293 | 11,027 | 1,863 | 2,593 | 350 | 1,390 | .. | .. | 24,516 |
| 1871-1875 | 8,182 | 11,952 | 2,574 | 3,095 | 414 | 1,609 | .. | .. | 27,826 |
| 1876-1880 | 10,651 | 12,562 | 3,457 | 3,605 | 401 | 1,799 | .. | .. | 32,475 |
| 1881-1885 | 13,221 | 13,362 | 5,146 | 4,323 | 544 | 1,958 | .. | .. | 38,554 |
| 1886-1890 | 14,291 | 16,929 | 5,608 | 3,873 | 666 | 2,078 | .. | .. | 43,445 |
| 1891-1895 | 15,360 | 16,411 | 5,316 | 4,109 | 1,086 | 2,025 | .. | .. | 44,307 |
| 1896-1900 | 15,556 | 16,265 | 5,841 | 4,235 | 2,389 | 2,063 | (a) | .. | 46,349 |
| 1901-1905 | 15,900 | 15,349 | 5,862 | 3,913 | 2,731 | 1,932 | 70 | .. | 45,757 |
| 1906-1910 | 15,882 | 14,942 | 5,529 | 3,848 | 2,867 | 2,020 | 77 | (b) | 45,165 |
| 1911-1915 | 18,802 | 15,921 | 6,907 | 4,495 | 3,045 | 2,010 | 75 | 12 | 51,267 |
| 1916-1920 | 20,776 | 16,485 | 7,605 | 4,878 | 3,133 | 1,971 | 81 | 10 | 54,939 |
| 1921-1925 | 20,379 | 16,176 | 7,412 | 4,880 | 3,231 | 2,090 | 57 | 9 | 54,234 |
| 1926-1930 | 22,677 | 16,698 | 8,007 | 5,008 | 3,617 | 2,040 | 71 | 42 | 58,160 |
| 1931-1935 | 22,591 | 17,680 | 8,147 | 5,063 | 3,876 | 2,194 | 67 | 35 | 59,653 |
| 1936-1940(c) | 25,735 | 19,361 | 9,107 | 5,540 | 4,270 | 2,342 | 73 | 54 | 66,482 |
| 1941-1945(c) | 27,807 | 20,964 | 9,715 | 6,303 | 4,724 | 2,488 | 64 | 71 | 72,136 |
| 1946-1950(c) | 29,552 | 21,827 | 10,357 | 6,507 | 4,802 | 2,459 | 76 | 103 | 75,683 |

YEARLY TOTALS.

| | | | | | | | | | | |
|---------|----|--------|--------|--------|-------|-------|-------|----|-----|--------|
| 1946(c) | .. | 28,579 | 21,534 | 10,648 | 6,461 | 4,753 | 2,549 | 55 | 82 | 74,661 |
| 1947(c) | .. | 28,449 | 21,442 | 10,116 | 6,215 | 4,723 | 2,363 | 65 | 95 | 73,468 |
| 1948 | .. | 30,403 | 21,825 | 10,462 | 6,748 | 4,685 | 2,528 | 73 | 115 | 76,839 |
| 1949 | .. | 29,364 | 21,991 | 10,161 | 6,373 | 4,790 | 2,389 | 92 | 100 | 75,260 |
| 1950 | .. | 30,965 | 22,341 | 10,399 | 6,740 | 5,058 | 2,466 | 96 | 122 | 78,187 |

(a) Northern Territory figures included with South Australia prior to 1901. (b) Part of New South Wales prior to 1911. (c) Excludes deaths of defence personnel and of internees and prisoners of war from overseas for the period September, 1939 to June, 1947.

2. *Crude Death-rates.*—The commonest method of measuring the mortality rate is to relate the number of deaths for a given period to the mean population for that period, thus obtaining the crude death-rate. This rate for a given period measures the numbers per thousand of population by which the population is depleted through deaths during that period. Crude death-rates for each State and Territory from 1861 to 1950 are shown in the following table.

CRUDE DEATH-RATES.(a)

| Period. | N.S.W. | Vic. | Q'land. | S. Aust. | W. Aust. | Tas. | N.T. | A.C.T. | Aust. |
|-----------------------|--------|-------|---------|----------|----------|-------|-------|----------|-------|
| AVERAGE ANNUAL RATES. | | | | | | | | | |
| 1861-1865 .. | 16.88 | 17.48 | 20.60 | 15.39 | 15.15 | 15.30 | .. | .. | 17.04 |
| 1866-1870 .. | 16.18 | 16.68 | 18.51 | 14.90 | 14.90 | 14.24 | .. | .. | 16.26 |
| 1871-1875 .. | 14.93 | 15.58 | 18.33 | 15.71 | 15.90 | 15.58 | .. | .. | 15.62 |
| 1876-1880 .. | 16.18 | 15.26 | 17.84 | 14.78 | 14.12 | 16.54 | .. | .. | 15.80 |
| 1881-1885 .. | 15.77 | 14.76 | 19.36 | 14.60 | 16.96 | 16.03 | .. | .. | 15.69 |
| 1886-1890 .. | 13.91 | 16.10 | 15.72 | 12.46 | 15.63 | 15.22 | .. | .. | 14.85 |
| 1891-1895 .. | 12.91 | 13.85 | 12.81 | 12.17 | 16.29 | 13.44 | .. | .. | 13.32 |
| 1896-1900 .. | 11.91 | 13.73 | 12.45 | 11.93 | 15.59 | 12.46 | (b) | .. | 12.75 |
| 1901-1905 .. | 11.25 | 12.74 | 11.38 | 10.96 | 12.58 | 10.79 | 15.69 | .. | 11.76 |
| 1906-1910 .. | 10.11 | 12.01 | 9.90 | 10.16 | 11.03 | 10.77 | 20.99 | (c) | 10.75 |
| 1911-1915 .. | 10.47 | 11.49 | 10.55 | 10.37 | 9.87 | 10.39 | 20.38 | 5.21 | 10.73 |
| 1916-1920 .. | 10.58 | 11.38 | 10.75 | 10.65 | 9.91 | 9.83 | 17.41 | 4.26 | 10.77 |
| 1921-1925 .. | 9.26 | 10.08 | 9.31 | 9.45 | 9.19 | 9.70 | 15.00 | 2.61 | 9.53 |
| 1926-1930 .. | 9.26 | 9.56 | 9.06 | 8.83 | 8.90 | 9.44 | 15.84 | 5.49 | 9.26 |
| 1931-1935 .. | 8.68 | 9.72 | 8.61 | 8.72 | 8.82 | 9.62 | 13.45 | 3.81 | 9.00 |
| 1936-1940(d) .. | 9.45 | 10.36 | 9.08 | 9.33 | 9.21 | 9.91 | 11.76 | 4.50 | 9.62 |
| 1941-1945(d) .. | 9.73 | 10.63 | 9.24 | 10.27 | 9.86 | 10.21 | 6.51 | 4.98 | 9.96 |
| 1946-1950(d) .. | 9.66 | 10.38 | 9.17 | 9.82 | 9.23 | 9.25 | 6.14 | (e) 5.67 | 9.74 |

YEARLY RATES.

| | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|------|----------|-------|
| 1946(d) .. | 9.70 | 10.63 | 9.77 | 10.17 | 9.65 | 10.11 | 5.20 | (e) 5.16 | 10.00 |
| 1947(d) .. | 9.53 | 10.44 | 9.15 | 9.62 | 9.39 | 9.17 | 5.97 | (e) 5.62 | 9.69 |
| 1948 .. | 10.04 | 10.44 | 9.31 | 10.25 | 9.10 | 9.55 | 5.99 | (e) 6.33 | 9.96 |
| 1949 .. | 9.43 | 10.28 | 8.85 | 9.45 | 8.99 | 8.76 | 6.83 | (e) 5.23 | 9.51 |
| 1950— | | | | | | | | | |
| Males .. | 10.83 | 10.71 | 10.21 | 10.64 | 10.52 | 9.13 | 8.82 | (e) 6.54 | 10.60 |
| Females .. | 8.36 | 9.56 | 7.37 | 8.61 | 7.50 | 8.32 | 2.36 | (e) 5.30 | 8.49 |
| Persons .. | 9.60 | 10.14 | 8.82 | 9.63 | 9.05 | 8.74 | 6.43 | (e) 5.95 | 9.55 |

(a) Number of deaths per 1,000 of mean population. (b) Northern Territory figures included with South Australia prior to 1901. (c) Part of New South Wales prior to 1911. (d) Excludes deaths of defence personnel from September, 1939 to June, 1947. (e) Rates based on revised mean population estimates shown on p. 527 are as follows:—1946-50, 5.30; 1947, 5.58; 1948, 5.99; 1949, 4.72; 1950, males 5.29, females 5.02, persons 5.17.

3. **Standardized Death-rates.**—(i) *General.* The death-rates quoted above are crude rates, i.e., they simply show the number of deaths per thousand of mean population without taking into consideration differences in the sex and age composition of the population. Other conditions being equal, however, the crude death-rate of a community will be low if it contains a large percentage of young people (not infants), and conversely it will be relatively high if the population includes a large proportion of elderly people. The foregoing table of crude death-rates, therefore, does not indicate comparative incidence of mortality either as between States in the same year or in any one State over a period of years. In order to obtain a comparison of mortality rates on a uniform basis as far as sex and age constitution are concerned, "standardized" death-rates may be computed. These are computed by selecting a particular distribution of age and sex as a standard, and then calculating what would have been the general death-rate if the death-rates in each sex and age-group were as recorded, but the age and sex distribution the same as in the standard population. For the standardized rates which follow, the standard population compiled by the International Institute of Statistics has been used. This standard is based upon the age distribution according to sex of nineteen European countries at their Censuses nearest to the year 1900. Full details of the "Standard Population" are given in Official Year Book No. 22, p. 962.

(ii) *Death-rates in Age-groups.* The following table provides a comparison of death-rates in age-groups in each State for the latest Census year (1947) in which the ages of population in each State were accurately ascertained.

DEATH-RATES(a) IN AGE-GROUPS, 1947.

| Age-group (years). | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tas. | N.T. | A.C.T. | Aust. |
|--------------------------------|--------|-----------|---------|----------|----------|--------|--------|--------|--------|
| Under 1 .. | 29.77 | 25.83 | 31.59 | 23.68 | 30.66 | 27.31 | 47.62 | 30.30 | 28.45 |
| 1-4 .. | 1.99 | 1.52 | 2.26 | 1.33 | 2.05 | 1.75 | 1.32 | 0.80 | 1.84 |
| 5-14 .. | 0.67 | 0.73 | 0.86 | 0.68 | 0.62 | 0.81 | .. | 0.77 | 0.71 |
| 15-24 .. | 1.11 | 1.29 | 1.35 | 1.08 | 1.30 | 1.72 | 2.90 | 0.29 | 1.23 |
| 25-34 .. | 1.63 | 1.64 | 2.14 | 1.74 | 1.89 | 2.13 | 0.90 | 1.92 | 1.75 |
| 35-44 .. | 3.07 | 2.88 | 3.60 | 2.88 | 3.22 | 3.11 | 4.29 | 3.82 | 3.10 |
| 45-54 .. | 7.86 | 7.37 | 7.72 | 6.65 | 7.56 | 6.84 | 6.65 | 4.87 | 7.54 |
| 55-64 .. | 17.90 | 17.59 | 16.54 | 16.45 | 16.07 | 15.50 | 14.29 | 15.31 | 17.31 |
| 65-74 .. | 42.07 | 41.46 | 39.62 | 36.96 | 39.72 | 39.76 | 38.30 | 48.65 | 40.88 |
| 75-84 .. | 99.57 | 101.85 | 98.80 | 96.91 | 102.56 | 97.77 | 89.74 | 85.27 | 100.08 |
| 85 and over | 223.61 | 229.26 | 231.10 | 221.42 | 229.68 | 243.56 | 200.00 | 375.00 | 227.22 |
| Crude Death rate (all ages) .. | 9.53 | 10.44 | 9.15 | 9.62 | 9.39 | 9.17 | 5.97 | 5.62 | 9.69 |

(a) Number of deaths per 1,000 of population at ages shown.

It will be observed that in this particular year, while the crude death-rate for South Australia was exceeded only by that for Victoria, the rates at most individual ages were lower than for all other States.

(iii) *Comparison of Crude and Standardized Death-rates.* The relative incidence of mortality as between individual States and as between the years 1921, 1933, and 1947 is illustrated in the following statement of crude and "standardized" death-rates. These years have been chosen for comparison because the Census data give essential information as to sexes and ages of the State populations. Crude death-rates are shown to indicate the degree to which they disguise the true position.

CRUDE AND STANDARDIZED DEATH-RATES.

| Particulars. | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tas. | Aust. |
|------------------------------------|--------|-----------|---------|----------|----------|-------|-------|
| Crude Death-rate(a)— | | | | | | | |
| 1921 | 9.50 | 10.52 | 9.37 | 10.02 | 10.42 | 10.30 | 9.91 |
| 1933 | 8.58 | 9.59 | 8.84 | 8.44 | 8.64 | 9.60 | 8.92 |
| 1947 | 9.53 | 10.44 | 9.15 | 9.62 | 9.39 | 9.17 | 9.69 |
| Standardized Death-rate(b)— | | | | | | | |
| 1921 | 10.35 | 10.79 | 10.24 | 10.38 | 11.88 | 10.83 | 10.58 |
| 1933 | 8.52 | 8.74 | 9.10 | 7.66 | 8.74 | 8.86 | 8.62 |
| 1947 | 7.44 | 7.31 | 7.47 | 6.77 | 7.28 | 7.21 | 7.34 |

(a) Total deaths per 1,000 of mean population.

(b) See explanation of standardized death-rates in par. 3 (i) above.

The comparisons above relate to individual years in which a census of population was taken and should not be used as the bases for general conclusions as to changes in incidence of mortality for other than those years.

(iv) *Standardized Death-rates, Australia, 1947 to 1950.* The standardized death-rates for Australia for 1947 and later years were as follows:—1947, 7.34; 1948, 7.41; 1949, 7.18; and 1950, 7.23.

4. *True Death-rates.*—The main objections to standardized death-rates are that the choice of a standard population is arbitrary and that the standardized rates have little value except for comparative purposes, and even then variation of the standard population may make appreciable differences. A correct measurement of the mortality of the population can be obtained, however, from life tables. A life table represents the number of survivors at each age from a selected group of newly-born children who are subject to given mortality conditions, and from such a table the complete expectation of life at birth can be calculated. The reciprocal of this figure is known as the true death-rate, since, if the complete expectation of life of a person at birth is 50 years, say, then each

person will on the average die 50 years after birth, so that in the standard population one person in 50 or 20 per thousand will die each year. The true death-rate for a given period is unaffected by the particular age distribution of that period and is determined solely by the mortality experience of the period as manifested in the rate of survivorship from each year of age to the next. The table below sets out complete expectation of life at birth and true death-rates for the periods covered by Australian life tables.

**COMPLETE EXPECTATION OF LIFE AT BIRTH AND TRUE DEATH-RATES :
AUSTRALIA.**

| Period. | Complete Expectation of Life at Birth. (Years.) | | True Death-rate. | |
|------------------|---|----------|------------------|-------------|
| | Males. | Females. | Males.(a) | Females.(b) |
| 1881-1890.. .. . | 47.20 | 50.84 | 21.19 | 19.67 |
| 1891-1900.. .. . | 51.08 | 54.76 | 19.58 | 18.26 |
| 1901-1910.. .. . | 55.20 | 58.84 | 18.12 | 17.00 |
| 1920-1922.. .. . | 59.15 | 63.31 | 16.91 | 15.80 |
| 1932-1934.. .. . | 63.48 | 67.14 | 15.75 | 14.89 |
| 1946-1948.. .. . | 66.07 | 70.63 | 15.14 | 14.16 |

(a) Number of deaths per 1,000 males in life table or stationary population. (b) Number of deaths per 1,000 females in life table or stationary population.

5. Crude Death-rates of Various Countries.—The following table gives the crude death-rate for Australia and each State thereof in comparison with the rates for various other countries.

CRUDE DEATH-RATES (a) : VARIOUS COUNTRIES.

| Country. | 1908-13. | 1921-25. | 1926-30. | 1931-35. | 1950. |
|--|----------|----------|----------|----------|----------|
| Netherlands | 13.9 | 10.4 | 9.9 | 8.9 | 7.5 |
| Canada | (b) | 11.2 | 11.1 | 9.7 | 8.9 |
| Norway | 13.6 | 11.5 | 11.0 | 10.4 | 9.1 |
| Union of South Africa (c) | (d) 10.3 | 9.7 | 9.7 | 9.8 | 9.1 |
| Argentina | 17.5 | 14.4 | 13.3 | 12.1 | (e) 9.1 |
| Denmark | 13.2 | 11.3 | 11.1 | 10.9 | 9.2 |
| New Zealand (f) | 9.3 | 8.6 | 8.6 | 8.2 | 9.3 |
| United States of America | (d) 14.1 | 11.8 | 11.8 | (g) 10.9 | 9.6 |
| Australia (h) | 10.7 | 9.5 | 9.3 | 9.0 | 9.6 |
| Tasmania (h) | 10.7 | 9.7 | 9.4 | 9.6 | 8.7 |
| Queensland (h) | 10.3 | 9.3 | 9.1 | 8.6 | 8.8 |
| Western Australia (h) | 10.3 | 9.2 | 8.9 | 8.8 | 9.1 |
| New South Wales (h) | 10.3 | 9.3 | 9.3 | 8.7 | 9.6 |
| South Australia (h) | 10.1 | 9.4 | 8.8 | 8.7 | 9.6 |
| Victoria (h) | 11.7 | 10.1 | 9.6 | 9.7 | 10.1 |
| Italy | 20.4 | 17.4 | 16.0 | 14.1 | 9.8 |
| Sweden | 14.0 | 12.1 | 12.1 | 11.6 | 10.0 |
| Switzerland | 15.2 | 12.5 | 12.1 | 11.8 | 10.1 |
| Finland | 16.4 | 15.1 | 14.8 | 13.3 | 10.1 |
| Greece | (b) | 16.5 | 16.6 | 16.5 | (e) 10.7 |
| Spain | 22.8 | 20.2 | 17.9 | 16.4 | 10.8 |
| Japan | 20.5 | 21.8 | 19.3 | 17.9 | 11.0 |
| Hungary | (d) 22.9 | 19.9 | 17.0 | 15.8 | (i) 11.2 |
| Czechoslovakia | 21.0 | 16.1 | 15.3 | 13.8 | 11.4 |
| Great Britain and Northern Ireland | 14.5 | 12.4 | 12.3 | 12.2 | 11.7 |
| Northern Ireland | 16.9 | 15.6 | 14.8 | 14.3 | 11.5 |
| England and Wales | 14.1 | 12.2 | 12.1 | 12.0 | 11.6 |
| Scotland | 15.5 | 13.9 | 13.6 | 13.2 | 12.4 |

(a) Number of deaths per 1,000 of mean population. (b) Not available. (c) White population only. (d) 1911-13. (e) 1949. (f) Excluding Maoris. (g) 1933-35. (h) Excluding full-blood aboriginals. (i) 1948.

CRUDE DEATH-RATES (a) : VARIOUS COUNTRIES—*continued.*

| Country. | 1908-13. | 1921-25. | 1926-30. | 1931-35. | 1950. |
|--------------------|----------|----------|----------|----------|-------|
| Portugal | (d) 20.9 | 20.4 | 18.4 | 16.9 | 12.1 |
| Belgium | 15.7 | 13.4 | 13.7 | 12.9 | 12.4 |
| Austria | (d) 18.8 | 15.8 | 14.4 | 13.5 | 12.4 |
| Eire | 16.9 | 14.6 | 14.4 | 14.0 | 12.6 |
| France | 18.6 | 17.2 | 16.8 | 15.7 | 12.6 |
| Ceylon | 31.4 | 27.8 | 25.1 | 24.7 | 12.6 |
| Yugoslavia | (b) | 20.2 | 20.0 | 17.9 | 13.1 |
| Chile | (d) 31.0 | 30.3 | 25.8 | 24.4 | 15.7 |
| Mexico | (b) | (j) 25.5 | 25.6 | 24.8 | 16.4 |
| Egypt | 25.8 | 25.4 | 26.2 | 27.4 | 22.1 |

(a) Number of deaths per 1,000 mean population. (b) Not available. (d) 1911-13.
(j) 1922-25.

6. True Death-rates of Various Countries.—The following table gives the true death-rate for Australia in comparison with the rates for various other countries :—

TRUE DEATH-RATES : VARIOUS COUNTRIES.

| Country. | Period. | True Death-rate. | | Country. | Period. | True Death-rate. | |
|---------------------------------|---------|------------------|-----------------|--------------------------|---------|------------------|-----------------|
| | | Males. (a) | Females. (b) | | | Males. (a) | Females. (b) |
| Netherlands .. | 1947-49 | 14.4 | 14.0 | Norway .. | 1922-31 | 16.4 | 15.7 |
| Sweden .. | 1941-45 | 14.9 | 14.3 | Eire .. | 1940-42 | 16.9 | 16.4 |
| Australia (c) .. | 1946-48 | 15.1 | 14.2 | Germany (f) .. | 1946-47 | 17.3 | 15.8 |
| England and Wales .. | 1948 | 15.1 | 14.1 | Northern Ire- land .. | 1936-38 | 17.3 | 16.9 |
| Denmark .. | 1941-45 | 15.2 | 14.8 | Japan .. | 1949-50 | 17.8 | 16.8 |
| New Zealand(d) | 1934-38 | 15.3 | 14.6 | Belgium .. | 1928-32 | 17.9 | 16.7 |
| Canada .. | 1947 | 15.3 | 14.5 | Hungary .. | 1941 | 18.2 | 17.2 |
| Union of South Africa (e) .. | 1945-47 | 15.7 | 14.6 | Finland .. | 1941-45 | 18.3 | 16.4 |
| Scotland .. | 1948 | 15.7 | 14.8 | Austria .. | 1930-33 | 18.3 | 17.1 |
| France .. | 1946-48 | 16.0 | 14.7 | Italy .. | 1930-32 | 18.6 | 17.9 |
| Switzerland .. | 1939-44 | 16.0 | 14.9 | Czechoslovakia | 1929-32 | 19.3 | 18.1 |
| United States of America | 1939-41 | 16.2 | 15.2 | Greece .. | 1926-30 | 20.4 | 19.7 |
| | | | | Poland .. | 1931-32 | 20.7 | 19.5 |

(a) Number of deaths per 1,000 males in life table or stationary population (see explanation on pages 599-600). (b) Number of deaths per 1,000 females in life table or stationary population (see explanation on pages 599-600). (c) Excludes full-blood aborigines. (d) Excludes Maoris. (e) White population only. (f) Federal Republic (Western Germany).

7. Australian Life Tables.—(i) *Life Tables prior to 1947.* It has been the practice at each Census from 1911 onwards to prepare Life Tables representative of the mortality experience of Australia. In 1911 the mortality of the Australian population for the thirty years from 1881 to 1910 inclusive was investigated by the Commonwealth Statistician. Tables were compiled for each State and for Australia as a whole in respect of each sex for each of the decennial periods 1881-1890, 1891-1900 and 1901-1910. These compilations furnished a comprehensive view of Australian mortality in respect of sex, of time, and of geographical distribution, and practically superseded all Life Tables prepared in Australia prior to 1911. In addition, monetary tables based on the experience for the whole of Australia for the decennium 1901-1910 were prepared and published.

At the Census of 1921 Life Tables were prepared by the Commonwealth Statistician from the population recorded and the deaths in the three years 1920-22. Similarly in 1933 the Life Tables, which were prepared by Mr. F. W. Barford, M.A., A.I.A., were based on the Census population and the deaths in the calendar years 1932-34.

(ii) *Life Tables of Census of 1947.* On the occasion of the 1947 Census, Life Tables representing the sixth in the series were compiled by the Commonwealth Actuary, Mr. W. C. Balmford, F.L.A. These were based on the population recorded, in conjunction with the deaths during 1946, 1947 and 1948, as it was considered undesirable to take into account deaths occurring prior to 1946 owing to the possible effects on the civilian population of conditions arising from the 1939-45 War. Full particulars of the data used, the methods of construction and the tabulations of these Life Tables will be found in the report of the Commonwealth Actuary which was published by the Commonwealth Statistician in 1950. This report will also appear in Volume III. of the Australian Census of 1947.

The main characteristics of the Life Tables and the conclusions to be drawn from the following comparative tables are:—

- (a) A further substantial reduction has occurred in the mortality rates in the first year of life;
- (b) A further marked improvement is evident in the vitality of both males and females up to about age 40;
- (c) A less pronounced improvement is shown in the mortality rates of both sexes between ages 40 and 80; indeed, in the case of males, the rates between ages 60 and 80 are generally in excess of those recorded in the 1932-34 Tables;
- (d) Although the 1932-34 Tables disclosed that the mortality rates of females at the child-bearing ages close to age 30 were slightly in excess of the rates for males at the same ages, the differences in the rates on this occasion are slightly in favour of the females;
- (e) The mortality rates for females are lighter than those for males at all ages;
- (f) On the whole, the vitality of the female population shows a greater degree of improvement over the last fourteen years than does that of the males.

AUSTRALIAN LIFE TABLES: NUMBER OF SURVIVORS (l_x) AT SELECTED AGES OUT OF 100,000 BIRTHS.

| Age (x). | Males. | | | Females. | | |
|-------------|----------|----------|----------|----------|----------|----------|
| | 1920-22. | 1932-34. | 1946-48. | 1920-22. | 1932-34. | 1946-48. |
| 0 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 |
| 10 | 89,389 | 93,193 | 95,619 | 91,314 | 94,424 | 96,549 |
| 20 | 87,697 | 91,797 | 94,562 | 89,906 | 93,341 | 95,953 |
| 30 | 84,743 | 89,566 | 92,967 | 87,086 | 91,174 | 94,740 |
| 40 | 80,813 | 86,539 | 90,823 | 83,279 | 88,175 | 92,758 |
| 50 | 74,330 | 81,061 | 85,946 | 78,313 | 83,680 | 89,011 |
| 60 | 63,386 | 69,950 | 74,251 | 70,150 | 75,565 | 81,257 |
| 70 | 44,332 | 50,086 | 52,230 | 54,771 | 59,629 | 65,398 |
| 80 | 18,614 | 22,223 | 22,785 | 27,170 | 31,539 | 35,401 |

AUSTRALIAN LIFE TABLES : RATES OF MORTALITY (q_x) AT SELECTED AGES.

| Age (x). | Males. | | | Females. | | |
|-------------|----------|----------|----------|----------|----------|----------|
| | 1920-22. | 1932-34. | 1946-48. | 1920-22. | 1932-34. | 1946-48. |
| 0 | .07132 | .04543 | .03199 | .05568 | .03642 | .02519 |
| 10 | .00156 | .00119 | .00072 | .00127 | .00087 | .00050 |
| 20 | .00284 | .00219 | .00169 | .00252 | .00183 | .00091 |
| 30 | .00390 | .00271 | .00186 | .00387 | .00279 | .00165 |
| 40 | .00617 | .00460 | .00337 | .00524 | .00402 | .00284 |
| 50 | .01158 | .00966 | .00919 | .00808 | .00744 | .00641 |
| 60 | .02407 | .02216 | .02278 | .01571 | .01466 | .01360 |
| 70 | .05290 | .05082 | .05256 | .04090 | .03802 | .03607 |
| 80 | .13340 | .12659 | .12011 | .11230 | .10106 | .10027 |

AUSTRALIAN LIFE TABLES : COMPLETE EXPECTATION OF LIFE (e_x) AT SELECTED AGES.

| Age (x). | Males. | | | Females. | | |
|-------------|----------|----------|----------|----------|----------|----------|
| | 1920-22. | 1932-34. | 1946-48. | 1920-22. | 1932-34. | 1946-48. |
| 0 | 59.15 | 63.48 | 66.07 | 63.31 | 67.14 | 70.63 |
| 10 | 56.01 | 58.02 | 59.04 | 59.20 | 61.02 | 63.11 |
| 20 | 46.99 | 48.81 | 49.64 | 50.03 | 51.67 | 53.47 |
| 30 | 38.44 | 39.90 | 40.40 | 41.48 | 42.77 | 44.08 |
| 40 | 30.05 | 31.11 | 31.23 | 33.14 | 34.04 | 34.91 |
| 50 | 22.20 | 22.83 | 22.67 | 24.90 | 25.58 | 26.14 |
| 60 | 15.08 | 15.57 | 15.36 | 17.17 | 17.74 | 18.11 |
| 70 | 9.26 | 9.60 | 9.55 | 10.41 | 10.98 | 11.14 |

AUSTRALIAN LIFE TABLES : PROBABILITY OF SURVIVING TEN YEARS ($_{10}p_x$) AT SELECTED AGES.

| Age (x). | Males. | | | Females. | | |
|-------------|----------|----------|----------|----------|----------|----------|
| | 1920-22. | 1932-34. | 1946-48. | 1920-22. | 1932-34. | 1946-48. |
| 0 | .89389 | .93193 | .95619 | .91314 | .94424 | .96549 |
| 10 | .98107 | .98502 | .98895 | .98458 | .98853 | .99383 |
| 20 | .96632 | .97570 | .98313 | .96863 | .97678 | .98736 |
| 30 | .95362 | .96620 | .97694 | .95628 | .96711 | .97908 |
| 40 | .91978 | .93670 | .94630 | .94037 | .94902 | .95960 |
| 50 | .85276 | .86293 | .86393 | .89576 | .90302 | .91289 |
| 60 | .69940 | .71603 | .70342 | .78077 | .78911 | .80483 |
| 70 | .41988 | .44370 | .43624 | .49607 | .52892 | .54132 |

8. **Infant Deaths and Death-rates.**—(i) *Australia, 1901 to 1950.* The universal experience that during the first few years of life the higher death-rate of male infants tends to counteract the excess of male births is confirmed by the fact that out of 466,673 male infants born from 1946 to 1950, 14,040 (30.09 per 1,000) died during the first year of life, while of 441,918 female infants only 10,472 (23.70 per 1,000) died during the first year. Still-births are not included in any of the tables relating to deaths.

INFANT DEATHS AND DEATH-RATES : AUSTRALIA.

| Period. | Number of deaths under one year. | | | Rate of Infant Mortality.(a) | | |
|-------------------------|----------------------------------|----------|--------|------------------------------|----------|--------|
| | Males. | Females. | Total. | Males. | Females. | Total. |
| ANNUAL AVERAGES. | | | | | | |
| 1901-05 .. | 5,500 | 4,447 | 9,947 | 104.25 | 88.83 | 96.91 |
| 1906-10 .. | 4,880 | 3,821 | 8,701 | 84.78 | 70.02 | 77.61 |
| 1911-15 .. | 5,274 | 4,063 | 9,337 | 77.65 | 62.65 | 70.32 |
| 1916-20 .. | 4,757 | 3,597 | 8,354 | 71.63 | 57.31 | 64.67 |
| 1921-25 .. | 4,474 | 3,394 | 7,868 | 64.23 | 51.21 | 57.88 |
| 1926-30 .. | 3,909 | 2,942 | 6,851 | 57.66 | 45.99 | 51.99 |
| 1931-35 .. | 2,649 | 1,986 | 4,635 | 46.00 | 36.29 | 41.27 |
| 1936-40 .. | 2,679 | 2,016 | 4,695 | 43.23 | 34.16 | 38.81 |
| 1941-45 .. | 2,921 | 2,215 | 5,136 | 39.11 | 31.18 | 35.24 |
| 1946-50 .. | 2,808 | 2,094 | 4,902 | 30.09 | 23.70 | 26.98 |

YEARLY TOTALS.

| | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|
| 1946 .. | 2,922 | 2,194 | 5,116 | 32.12 | 25.69 | 29.01 |
| 1947 .. | 2,977 | 2,225 | 5,202 | 31.73 | 25.12 | 28.52 |
| 1948 .. | 2,856 | 2,086 | 4,942 | 31.28 | 24.07 | 27.77 |
| 1949 .. | 2,624 | 1,963 | 4,587 | 28.29 | 22.18 | 25.31 |
| 1950 .. | 2,661 | 2,004 | 4,665 | 27.20 | 21.60 | 24.47 |

(a) Number of deaths under one year per 1,000 live births registered.

(ii) *States, 1901 to 1950.* For each State and Territory the rates of infant mortality during the period 1901 to 1950 were as follows :—

INFANT MORTALITY RATES(a) : UNDER ONE YEAR.

| Period. | N.S.W. | Vic. | Q'land. | S. Aust. | W. Aust. | Tas. | N.T. | A.C.T. | Aust. |
|-----------|--------|-------|---------|----------|----------|-------|--------|--------|-------|
| 1901-05.. | 97.02 | 95.91 | 94.35 | 86.70 | 124.79 | 90.00 | 149.35 | (b) | 96.91 |
| 1906-10.. | 77.30 | 79.90 | 71.27 | 68.38 | 89.80 | 83.18 | 143.79 | (b) | 77.61 |
| 1911-15.. | 71.05 | 72.23 | 65.68 | 67.26 | 72.43 | 70.91 | 85.11 | 32.56 | 70.32 |
| 1916-20.. | 64.82 | 67.18 | 63.04 | 61.93 | 61.73 | 63.84 | 67.15 | 40.40 | 64.67 |
| 1921-25.. | 58.11 | 61.93 | 50.99 | 54.19 | 59.14 | 60.44 | 40.82 | 60.24 | 57.88 |
| 1926-30.. | 54.74 | 52.34 | 47.41 | 46.95 | 49.27 | 53.37 | 66.09 | 71.31 | 51.99 |
| 1931-35.. | 41.92 | 42.76 | 39.46 | 35.12 | 40.81 | 44.47 | 80.60 | 34.48 | 41.27 |
| 1936-40.. | 41.18 | 37.63 | 36.75 | 33.08 | 39.70 | 41.23 | 44.80 | 21.78 | 38.81 |
| 1941-45.. | 36.29 | 34.73 | 34.55 | 33.20 | 33.37 | 39.54 | 55.97 | 18.72 | 35.24 |
| 1946-50.. | 28.91 | 23.82 | 27.49 | 26.50 | 28.15 | 26.53 | 37.37 | 19.89 | 26.98 |
| 1946 .. | 30.22 | 27.16 | 29.27 | 27.07 | 31.06 | 30.23 | 30.30 | 19.31 | 29.01 |
| 1947 .. | 29.81 | 26.28 | 30.82 | 24.27 | 30.92 | 27.31 | 43.48 | 19.85 | 28.52 |
| 1948 .. | 30.30 | 23.93 | 27.96 | 29.74 | 25.60 | 27.65 | 35.71 | 23.45 | 27.77 |
| 1949 .. | 27.29 | 21.89 | 24.72 | 27.68 | 26.42 | 23.91 | 37.57 | 15.87 | 25.31 |
| 1950 .. | 27.04 | 20.09 | 24.77 | 24.04 | 27.13 | 23.75 | 36.50 | 20.96 | 24.47 |

(a) Number of deaths under one year per 1,000 live births registered. (b) Part of New South Wales prior to 1911.

INFANT MORTALITY RATES(a) : UNDER ONE MONTH.

| Period. | N.S.W. | Vic. | Q'land. | S. Aust. | W. Aust. | Tas. | N.T. | A.C.T. | Aust. |
|------------|--------|-------|---------|----------|----------|-------|-------|--------|-------|
| 1901-05 .. | 33.11 | 34.49 | 32.13 | 30.73 | 37.09 | 33.54 | (b) | (c) | 33.46 |
| 1906-10 .. | 31.47 | 32.45 | 30.87 | 26.83 | 30.74 | 29.17 | (b) | (c) | 31.10 |
| 1911-15 .. | 31.75 | 33.07 | 30.73 | 29.07 | 30.87 | 32.68 | 38.30 | 23.26 | 31.69 |
| 1916-20 .. | 32.12 | 33.57 | 29.02 | 29.43 | 29.43 | 31.48 | 40.77 | 35.35 | 31.70 |
| 1921-25 .. | 29.97 | 32.19 | 27.44 | 27.83 | 27.56 | 31.73 | 11.66 | 18.07 | 29.91 |
| 1926-30 .. | 29.63 | 29.75 | 27.06 | 26.84 | 25.10 | 33.12 | 14.37 | 28.86 | 28.06 |
| 1931-35 .. | 27.62 | 27.78 | 27.91 | 22.99 | 25.11 | 30.09 | 35.26 | 23.45 | 27.27 |
| 1936-40 .. | 27.63 | 25.94 | 26.15 | 21.62 | 22.62 | 29.56 | 28.80 | 16.33 | 26.19 |
| 1941-45 .. | 24.52 | 24.40 | 24.41 | 20.86 | 20.60 | 27.24 | 33.57 | 12.54 | 23.97 |
| 1946-50 .. | 20.53 | 17.55 | 19.95 | 18.38 | 19.53 | 19.34 | 21.45 | 15.80 | 19.34 |
| 1946 .. | 21.96 | 20.22 | 22.31 | 18.85 | 21.15 | 23.08 | 30.30 | 15.44 | 21.25 |
| 1947 .. | 21.46 | 19.59 | 21.44 | 17.90 | 19.96 | 20.73 | 25.36 | 16.79 | 20.51 |
| 1948 .. | 21.33 | 17.14 | 20.21 | 19.28 | 19.10 | 20.06 | 10.71 | 17.93 | 19.64 |
| 1949 .. | 19.24 | 16.28 | 17.44 | 18.39 | 19.24 | 17.02 | 26.01 | 12.21 | 18.02 |
| 1950 .. | 18.77 | 14.71 | 18.43 | 17.57 | 18.41 | 16.02 | 19.46 | 16.77 | 17.41 |

(a) Number of deaths of children aged under one month per 1,000 live births registered. (b) Not available. (c) Part of New South Wales prior to 1911.

INFANT MORTALITY RATES(a) : ONE MONTH AND UNDER ONE YEAR.

| Period. | N.S.W. | Vic. | Q'land. | S. Aust. | W. Aust. | Tas. | N.T. | A.C.T. | Aust. |
|------------|--------|-------|---------|----------|----------|-------|-------|--------|-------|
| 1901-05 .. | 63.91 | 61.42 | 62.22 | 55.97 | 87.70 | 56.46 | (b) | (c) | 63.45 |
| 1906-10 .. | 45.83 | 47.45 | 40.40 | 41.55 | 59.06 | 54.01 | (b) | (c) | 46.51 |
| 1911-15 .. | 39.30 | 39.16 | 34.95 | 38.19 | 41.56 | 38.23 | 46.81 | 9.30 | 38.63 |
| 1916-20 .. | 32.70 | 33.61 | 33.42 | 32.50 | 32.30 | 32.36 | 26.38 | 5.05 | 32.97 |
| 1921-25 .. | 28.14 | 29.74 | 23.55 | 26.36 | 31.58 | 28.71 | 29.16 | 42.17 | 27.97 |
| 1926-30 .. | 25.11 | 22.59 | 19.75 | 20.11 | 24.17 | 20.25 | 51.72 | 42.45 | 23.03 |
| 1931-35 .. | 14.30 | 14.98 | 11.55 | 12.13 | 15.70 | 14.38 | 45.34 | 11.03 | 14.00 |
| 1936-40 .. | 13.55 | 11.69 | 10.60 | 11.46 | 17.08 | 11.67 | 16.00 | 5.45 | 12.62 |
| 1941-45 .. | 11.77 | 10.33 | 10.14 | 12.34 | 12.77 | 12.30 | 22.40 | 6.21 | 11.27 |
| 1946-50 .. | 8.38 | 6.27 | 7.54 | 8.12 | 8.62 | 7.19 | 15.92 | 4.09 | 7.64 |
| 1946 .. | 8.26 | 6.94 | 6.96 | 8.22 | 9.91 | 7.15 | .. | 3.87 | 7.76 |
| 1947 .. | 8.35 | 6.69 | 9.38 | 6.37 | 10.96 | 6.58 | 18.12 | 3.06 | 8.01 |
| 1948 .. | 8.97 | 6.79 | 7.75 | 10.46 | 6.50 | 7.59 | 25.00 | 5.52 | 8.13 |
| 1949 .. | 8.05 | 5.61 | 7.28 | 9.29 | 7.18 | 6.89 | 11.56 | 3.66 | 7.29 |
| 1950 .. | 8.27 | 5.38 | 6.34 | 6.47 | 8.72 | 7.73 | 17.04 | 4.19 | 7.06 |

(a) Number of deaths of children aged one month and under one year per 1,000 live births registered. (b) Not available. (c) Part of New South Wales prior to 1911.

These tables indicate the striking decrease in infant mortality in Australia since the beginning of the century, the number of deaths of children aged under one year per 1,000 births for 1950 being slightly more than one-fourth of the average rate for 1901-05. The tables above reveal the fact that this improvement was due almost entirely to the decrease in deaths from preventable causes, the mortality rate for children aged one month but under one year declining by 89 per cent. while that for children aged under one month declined by only 48 per cent.

(iii) *Statistical Divisions.* The total numbers of births and of deaths of children under one year of age for 1950 are shown in *Demography Bulletin* No. 68 for each of the sixty-five statistical divisions for which vital statistics have been tabulated.

(iv) *Various Countries and Cities.* Compared with other countries Australia occupies a very favourable position in respect of infant mortality. In 1950 only New Zealand and Sweden recorded a lower rate than Australia.

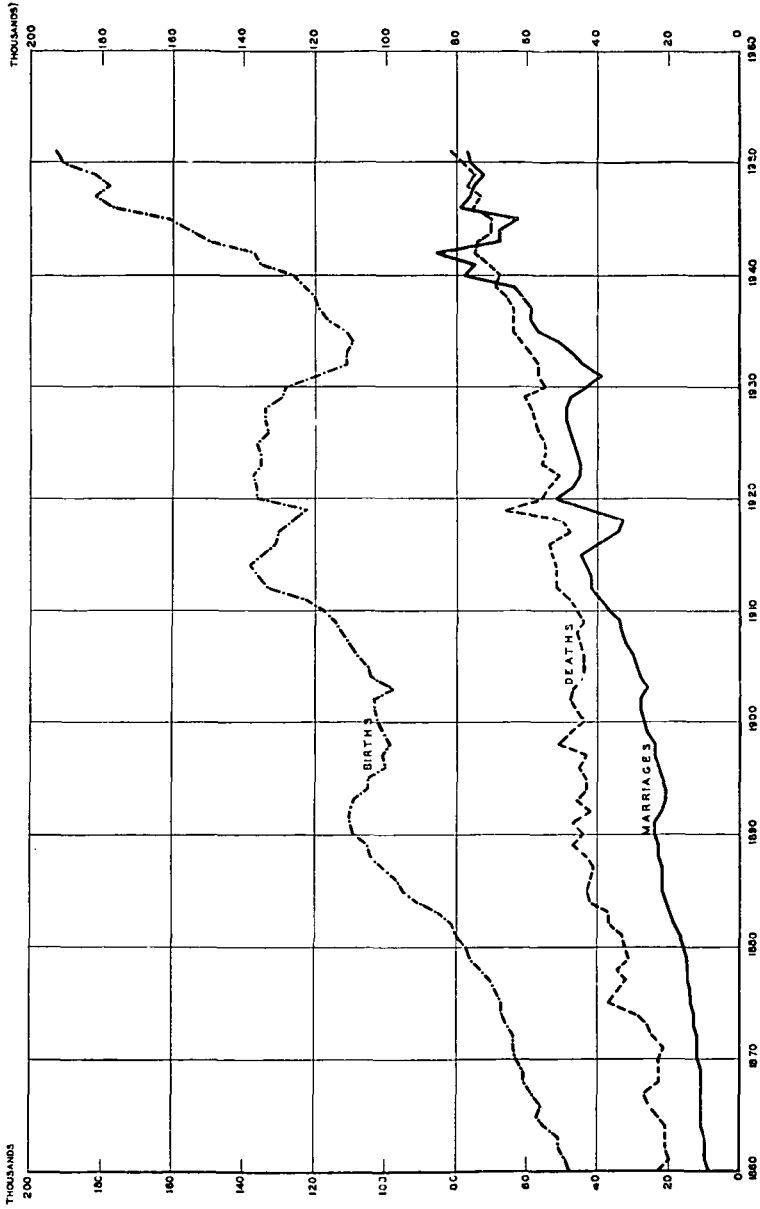
A study of the respective rates shows that a high birth-rate is often, though not invariably, accompanied by a high infant death-rate.

INFANT MORTALITY RATES : VARIOUS COUNTRIES.

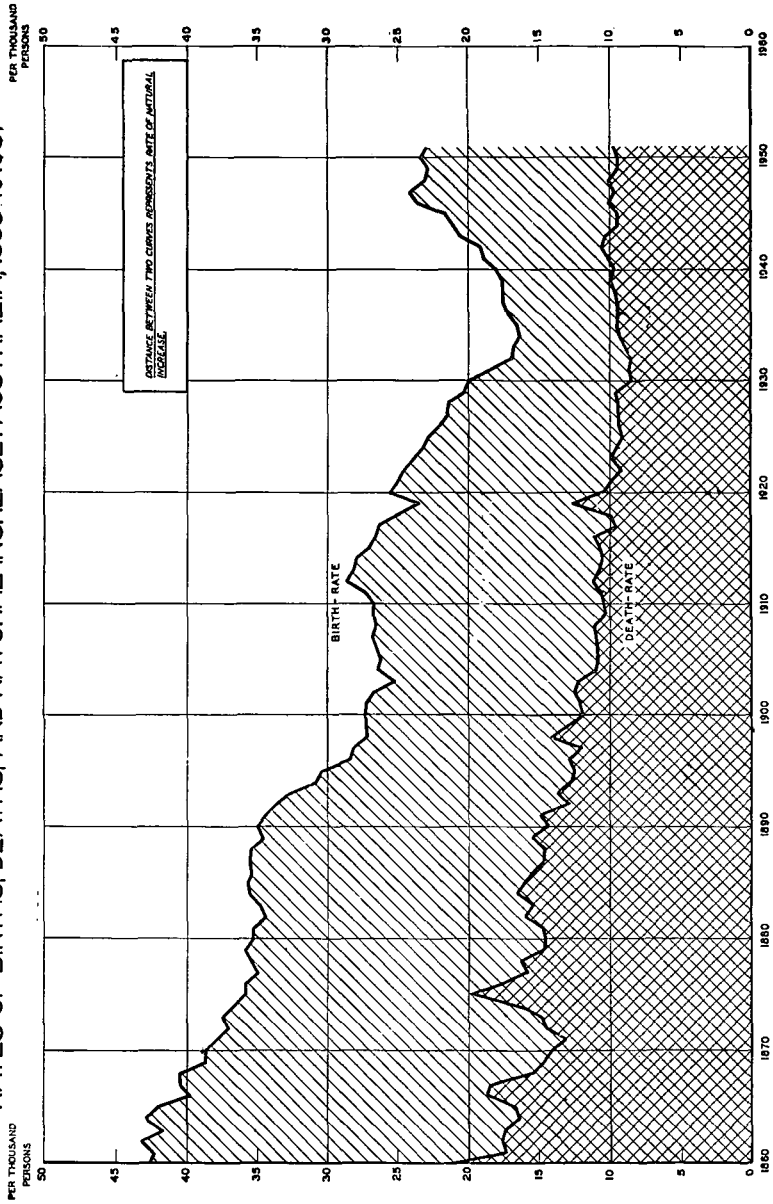
| Country. | Infant Mortality Rate.(a) | | | | | | Crude Birth-rate (b) 1950. |
|--|---------------------------|----------|----------|----------|----------|---------|----------------------------|
| | 1906-15. | 1921-25. | 1926-30. | 1931-35. | 1936-40. | 1950. | |
| Sweden | 74 | 60 | 58 | 50 | 42 | 20 | 16.4 |
| New Zealand (c) | 61 | 43 | 37 | 32 | 32 | 23 | 24.6 |
| Australia (d) | 74 | 58 | 52 | 41 | 39 | 24 | 23.3 |
| Victoria (d) | 76 | 62 | 52 | 43 | 38 | 20 | 22.6 |
| Tasmania (d) | 77 | 60 | 53 | 44 | 41 | 24 | 25.7 |
| South Australia (d) | 68 | 54 | 47 | 35 | 33 | 24 | 24.7 |
| Queensland (d) | 68 | 51 | 47 | 39 | 37 | 25 | 24.6 |
| Western Australia (d) | 81 | 59 | 49 | 41 | 40 | 27 | 25.5 |
| New South Wales (d) | 74 | 58 | 55 | 42 | 41 | 27 | 22.2 |
| Netherlands | 115 | 64 | 56 | 45 | 37 | 25 | 22.7 |
| Norway | (e) | 52 | 49 | 45 | (f) 40 | (g) 28 | 19.3 |
| United States of America | (e) | 74 | 68 | 59 | 51 | 29 | 23.4 |
| Switzerland | 108 | 65 | 54 | 48 | 45 | 31 | 18.1 |
| Denmark | 103 | 82 | 82 | 71 | 60 | 31 | 18.6 |
| Great Britain and Northern Ireland | | | | | | | |
| Ireland | (e) | 78 | 70 | 65 | 59 | 31 | 16.1 |
| England and Wales | 113 | 76 | 68 | 62 | 56 | 30 | 15.7 |
| Northern Ireland | 92 | 82 | 79 | 78 | 77 | 39 | 20.9 |
| Scotland | 113 | 92 | 85 | 81 | 76 | 39 | 17.7 |
| Union of South Africa (h) | (i) 91 | 73 | 67 | 63 | 53 | 36 | 25.7 |
| Canada | (e) | 98 | 93 | 75 | 64 | 41 | 27.1 |
| Finland | (i) 112 | 96 | 88 | 72 | 72 | 44 | 24.4 |
| Eire | 92 | 69 | 70 | 68 | 69 | 45 | 21.0 |
| France | 122 | 95 | 89 | 73 | 70 | 47 | 20.4 |
| Belgium | 139 | 100 | 95 | 82 | 77 | 59 | 16.5 |
| Japan | 151 | 159 | 137 | 120 | (j) 112 | 60 | 28.3 |
| Italy | 144 | 127 | 119 | 105 | 103 | 63 | 19.6 |
| Austria | (e) | 136 | 117 | 99 | 81 | 64 | 15.6 |
| Spain | 156 | 143 | 124 | 113 | 121 | 69 | 19.9 |
| Argentina | (e) | 116 | 113 | 97 | 96 | (k) 79 | (g) 24.9 |
| Czechoslovakia | (e) | 155 | 147 | 130 | (j) 122 | (g) 82 | 22.9 |
| Ceylon | (i) 207 | 190 | 175 | 182 | 160 | 82 | 40.2 |
| Portugal | (e) | 146 | 146 | 146 | 135 | 94 | 24.2 |
| Mexico | (e) | (l) 223 | 173 | 134 | 127 | 97 | 45.7 |
| Hungary | (i) 198 | 187 | 172 | 157 | 131 | (m) 100 | (m) 19.1 |
| Yugoslavia | (e) | (e) | 151 | 153 | (j) 141 | 117 | 30.2 |
| Chile | (i) 301 | 265 | 229 | 248 | 234 | 153 | 32.4 |
| Egypt | (e) | 144 | 152 | 165 | 163 | 169 | 48.8 |
| Rumania | (i) 195 | 201 | 192 | 182 | 180 | (n) 199 | (n) 23.4 |

(a) Number of deaths under 1 year per 1,000 live births registered. (b) Number of live births per 1,000 of mean population. (c) Excludes Maoris. (d) Excludes full-blood aboriginals. (e) Not available. (f) 1935-39. (g) 1949. (h) White population only. (i) 1911-13. (j) 1935-38. (k) 1946. (l) 1922-25. (m) 1948. (n) 1947.

BIRTHS, DEATHS, AND MARRIAGES: AUSTRALIA, 1860 TO 1951

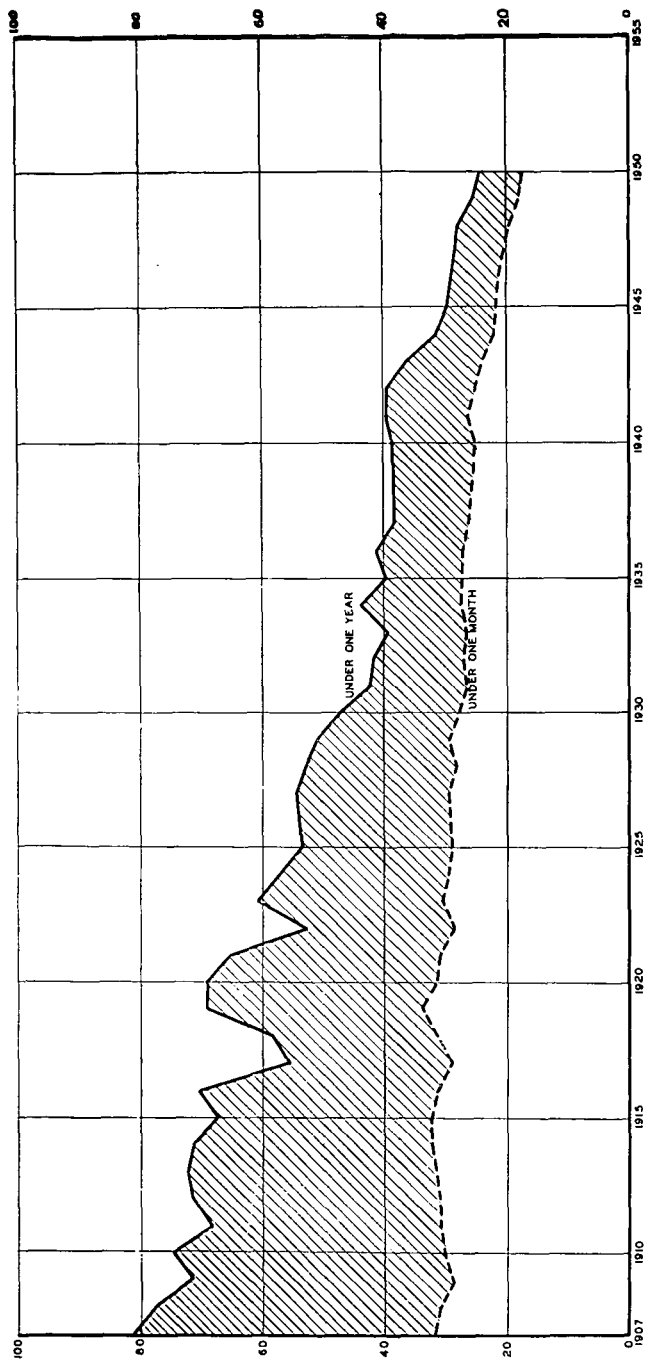


RATES OF BIRTHS, DEATHS, AND NATURAL INCREASE: AUSTRALIA, 1860 TO 1951



INFANT MORTALITY RATES: AUSTRALIA, 1907 TO 1950

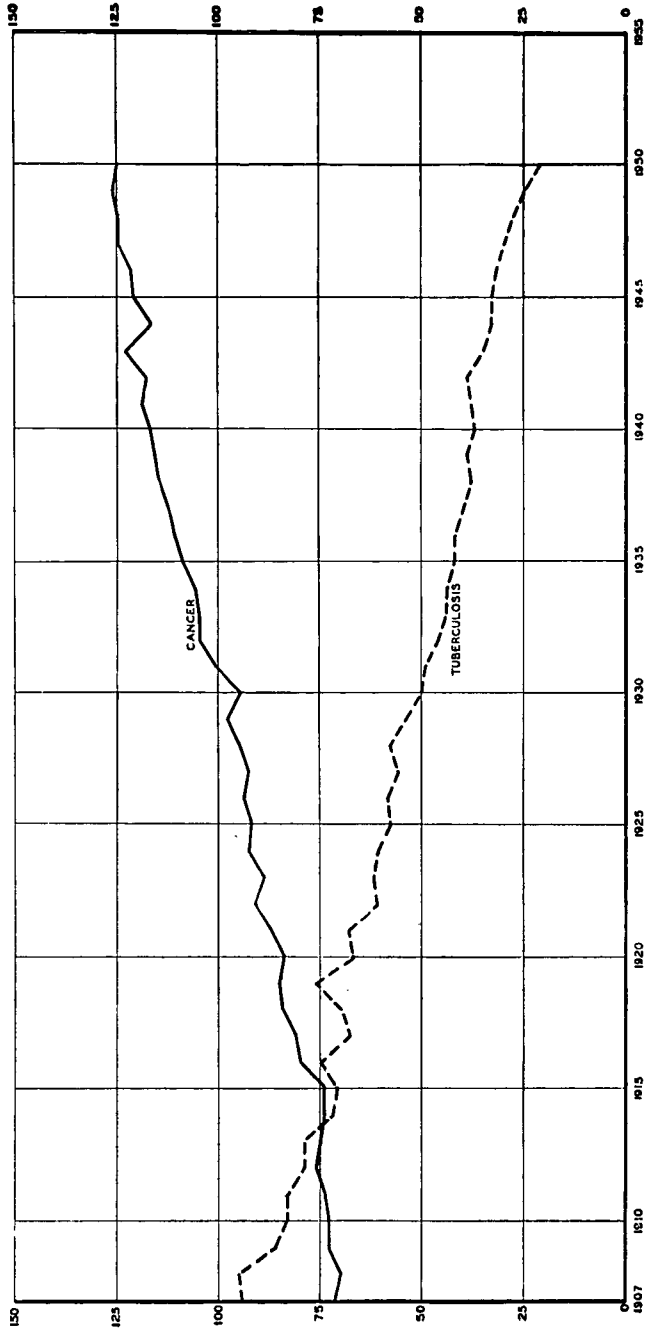
(INFANT DEATHS PER 1000 LIVE BIRTHS)



EXPLANATION.—This graph shows the marked improvement in infantile mortality rates over the past 40 years. The improvement has been confined mainly to children over one month, considerably less having occurred in the first month of life (see page 605).

CANCER AND TUBERCULOSIS: AUSTRALIA, 1907 to 1950

NUMBER OF DEATHS PER 100,000 OF POPULATION



(See page 63 t.)

In 1950 the Australian cities, Melbourne, Hobart, Perth, Sydney and Adelaide were among the ten cities having the lowest rates in the following list. The list is headed by Stockholm (18), Melbourne (19), Christchurch (19), and Oslo (21), the next six cities being Hobart, Auckland, Wellington, Perth, Sydney and Adelaide. Of the cities listed, Cairo had the highest rate, 179.

INFANT MORTALITY RATES^(a): VARIOUS CITIES.

| City. | Infant Mortality Rate. ^(a) | | City. | Infant Mortality Rate. ^(a) | |
|---------------------|---------------------------------------|--------|--------------------|---------------------------------------|--------|
| | 1921. | 1950. | | 1921. | 1950. |
| Stockholm | 61 | 18 | Brisbane (b) .. | 62 | 32 |
| Melbourne (b) .. | 74 | 19 | Johannesburg(g) .. | 101 | 32 |
| Christchurch (c) .. | 54 | (d) 19 | Cape Town(g) .. | 82 | (e) 33 |
| Oslo | 54 | 21 | Sheffield | 99 | (d) 35 |
| Hobart (b) | 75 | 23 | Paris | 95 | 36 |
| Auckland (c) .. | 54 | (d) 23 | Manchester | 94 | (d) 38 |
| Wellington (c) .. | 61 | (d) 24 | Birmingham .. | 82 | 38 |
| Perth (b) | 81 | 25 | Rome | (f) | 42 |
| Sydney (b) | 62 | 25 | Hamburg | 95 | 44 |
| Adelaide (b) .. | 74 | 25 | Glasgow | 106 | 44 |
| New York City .. | 72 | 25 | Liverpool | 105 | (d) 44 |
| Amsterdam | 54 | 25 | Dublin | 123 | 47 |
| London | 80 | 26 | Belfast | 115 | 50 |
| Detroit | 83 | 27 | Montreal | 158 | 52 |
| Copenhagen | 67 | 27 | Munich | 126 | 58 |
| Chicago | 84 | (e) 28 | Berlin | 135 | 64 |
| Toronto | 91 | 28 | Cologne | 140 | 76 |
| Aberdeen | 108 | 29 | Lisbon | (f) | (d) 96 |
| Edinburgh | 96 | 29 | Bombay | 402 | 152 |
| Geneva | (f) | 29 | Cairo | (f) | 179 |
| Leeds | 98 | (d) 30 | | | |

(a) Number of deaths under 1 year per 1,000 live births registered. (b) Excludes full-blood aboriginals. (c) Excludes Maoris. (d) 1949. (e) 1948. (f) Not available. (g) White population only.

(v) *Causes of Deaths of Children under one Year.* The following table shows for 1949 the ages of all children who died under one year of age from each of twenty-three causes. These figures are presented on the basis of the Fifth Revision of the International List of Causes of Death. Similar figures for 1950 have been tabulated on the basis of the Sixth Revision and until further analysis of the effects of the change in basis is made it will not be practicable to show them in comparison with previous years. The infant mortality rates for all births are shown for 1911, 1921, 1931, 1941 and 1949 and for ex-nuptial births for 1925, 1931, 1941 and 1949. Full particulars of the causes of death of all children who died in 1949 and 1950 under one year and also of those under one month are given for each State and Territory in *Demography Bulletins* Nos. 67 and 68 respectively. These contain, in addition, detailed information for Australia as to the age at which children died from each cause of death.

In 1949, pre-natal influences, such as congenital malformations, congenital debility and premature birth, together with injuries at birth and other diseases of early infancy accounted for 3,280 or 72 per cent. of all deaths under one year; and of these 3,280 deaths, 2,674 or 82 per cent., occurred less than a week after birth. Among the survivors of the first week, broncho-pneumonia caused the greatest number of deaths attributable to a specific disease. This disease was responsible for 318 deaths, representing 7 per cent. of all deaths under one year, or 1.75 per 1,000 births. Diarrhoea and enteritis caused 198 deaths and other pneumonia 177.

CAUSES OF DEATH OF CHILDREN UNDER ONE YEAR : AUSTRALIA, 1949.

| Cause of Death. | Age at Death. | | | | | | | | | | | | | Total under 1 year. | | |
|---|---------------|---------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------------|------------|------------|
| | Under 1 week. | 1 week. | 2 weeks. | 3 weeks. | 1 month. | 2 months. | 3 months. | 4 months. | 5 months. | 6 months. | 7 months. | 8 months. | 9 months. | | 10 months. | 11 months. |
| Cerebro-spinal Meningococcal Meningitis | | | | | 1 | | 3 | 2 | 1 | | 5 | 3 | | | 2 | 17 |
| Whooping Cough | | | | 1 | 7 | 13 | 9 | 3 | 5 | 4 | | | 4 | | 2 | 60 |
| Diphtheria | | | | | | | | | | | | | | | | 9 |
| Erysipelas | 1 | | | | | | | | | | | | | | | 1 |
| Respiratory Tuberculosis | | | | | | | | | 2 | | | 3 | | | | 6 |
| Tuberculosis of Meninges | | | | | | | | | | | | | | | 2 | 3 |
| Tuberculosis, Other Forms | | | | | | 1 | 1 | | | | | | | | 1 | 3 |
| Syphilis | | | | | | 1 | | | | | | | | | | 2 |
| Measles | | | | | | | 2 | | 1 | 2 | | 4 | | 2 | 1 | 12 |
| Meningitis (Non-meningococcal) | 4 | 2 | 2 | 2 | 2 | 2 | 1 | | 3 | 1 | | 4 | 2 | 3 | 1 | 29 |
| Convulsions | | 1 | 1 | | 5 | 4 | | | 1 | 1 | | 1 | | 1 | | 11 |
| Acute Bronchitis | | | | | 2 | 4 | | | | | | 1 | 2 | | | 11 |
| Broncho-pneumonia | 47 | 24 | 15 | 12 | 37 | 20 | 26 | 20 | 17 | 25 | 12 | 19 | 17 | 11 | 318 | |
| Pneumonia, Other | 42 | 12 | 5 | 7 | 14 | 18 | 11 | 14 | 7 | 5 | 10 | 4 | 9 | 5 | 177 | |
| Other Diseases of the Stomach | | | | | | 1 | | | | | | | | | | 2 |
| Diarrhoea and Enteritis | 4 | 2 | 11 | 12 | 17 | 13 | 19 | 23 | 13 | 12 | 17 | 14 | 16 | 16 | 9 | 198 |
| Hernia and Intestinal Obstruction | 7 | 5 | 3 | 3 | 3 | 4 | 1 | 3 | 2 | 2 | | 2 | 3 | 3 | 41 | |
| Congenital Malformations | 268 | 54 | 34 | 30 | 66 | 36 | 29 | 26 | 17 | 16 | 15 | 8 | 15 | 9 | 10 | 633 |
| Congenital Debility | 37 | 3 | 2 | | 6 | 6 | 3 | | 1 | 1 | | | | 1 | 1 | 61 |
| Premature Birth | 1,440 | 44 | 22 | 12 | 12 | 4 | 5 | 1 | 1 | | | | | | | 1,542 |
| Injury at Birth | 330 | 25 | 10 | 5 | 5 | 2 | 1 | 1 | | | | | | 1 | 1 | 582 |
| Other Diseases of Early Infancy | 399 | 24 | 9 | 8 | 7 | 1 | 3 | 4 | | 3 | | 2 | 2 | | | 462 |
| Other Causes | 48 | 20 | 11 | 9 | 30 | 28 | 36 | 39 | 28 | 33 | 34 | 28 | 16 | 25 | 22 | 407 |
| Total | 2,827 | 216 | 125 | 98 | 215 | 152 | 155 | 143 | 99 | 105 | 111 | 89 | 87 | 92 | 73 | 4,587 |

| Cause of Death. | All Children. | | | | | Ex-nuptial Children.(a) | | | | No. of Deaths 1949. |
|---|---------------------------------------|-------|-------|-------|-------|--|-------|-------|-------|---------------------|
| | No. of Deaths per 1,000 Total Births. | | | | | No. of Deaths per 1,000 Ex-nuptial Births. | | | | |
| | 1911. | 1921. | 1931. | 1941. | 1949. | 1925. | 1931. | 1941. | 1949. | |
| Cerebro-spinal Meningococcal Meningitis | | 0.03 | 0.08 | 0.16 | 0.09 | 0.48 | 0.17 | 0.39 | 0.14 | 1 |
| Whooping Cough | 1.57 | 1.97 | 1.58 | 1.27 | 0.33 | 2.06 | 1.71 | 1.94 | 0.14 | 1 |
| Diphtheria | 0.25 | 0.59 | 0.25 | 0.13 | 0.05 | 0.32 | 0.34 | | | |
| Erysipelas | 0.16 | 0.24 | 0.11 | 0.04 | 0.01 | 0.16 | | 0.19 | | |
| Respiratory Tuberculosis | 0.08 | 0.07 | 0.03 | 0.04 | 0.03 | | | | | |
| Tuberculosis of Meninges | 0.31 | 0.18 | 0.22 | 0.10 | 0.02 | 0.32 | 0.34 | 0.19 | | |
| Tuberculosis, Other Forms | 0.22 | 0.08 | 0.04 | 0.05 | 0.02 | | | 0.19 | | |
| Syphilis | 0.85 | 0.56 | 0.20 | 0.09 | 0.01 | 1.27 | 0.51 | 0.77 | 0.27 | 2 |
| Measles | 0.34 | 0.15 | 0.10 | 0.01 | 0.07 | 0.16 | 0.51 | | | |
| Meningitis (Non-meningococcal) | 1.83 | 1.10 | 0.32 | 0.30 | 0.16 | 0.32 | | 0.19 | 0.14 | 1 |
| Convulsions | 2.55 | 1.45 | 0.39 | 0.17 | 0.06 | 2.38 | 0.51 | 0.39 | 0.14 | 1 |
| Acute Bronchitis | 2.34 | 1.50 | 0.32 | 0.11 | 0.06 | 0.48 | 0.86 | | 0.14 | 1 |
| Broncho-pneumonia | 2.86 | 3.08 | 2.82 | 2.96 | 1.75 | 8.09 | 5.31 | 4.65 | 2.17 | 16 |
| Pneumonia, Other | 1.90 | 2.08 | 1.62 | 1.42 | 0.98 | 2.38 | 3.43 | 2.32 | 1.90 | 14 |
| Other Diseases of the Stomach | 0.47 | 0.71 | 0.13 | 0.05 | 0.01 | 1.11 | 0.34 | 0.19 | | |
| Diarrhoea and Enteritis | 16.09 | 15.01 | 3.26 | 2.07 | 1.09 | 19.18 | 8.39 | 4.26 | 1.62 | 12 |
| Hernia and Intestinal Obstruction | 0.72 | 0.57 | 0.41 | 0.19 | 0.23 | 0.47 | 0.17 | 0.39 | 0.27 | 2 |
| Congenital Malformations | 2.99 | 3.74 | 4.23 | 4.63 | 3.50 | 3.64 | 4.28 | 4.06 | 2.98 | 22 |
| Congenital Debility (b) | | 7.64 | 2.60 | 1.98 | 0.34 | 9.51 | 7.19 | 3.48 | 0.27 | 2 |
| Premature Birth | 22.41 | 15.29 | 14.04 | 12.41 | 8.50 | 20.93 | 21.92 | 18.00 | 14.51 | 107 |
| Injury at Birth | | | 2.81 | 4.27 | 3.21 | 1.90 | 3.08 | 5.23 | 4.47 | 33 |
| Other Diseases of Early Infancy | 4.07 | 5.53 | 3.29 | 4.14 | 2.55 | 2.69 | 3.77 | 4.45 | 2.44 | 18 |
| Other Causes | 5.58 | 4.16 | 3.29 | 3.13 | 2.24 | 6.98 | 5.82 | 7.55 | 2.85 | 21 |
| Total | 68.49 | 65.73 | 42.14 | 39.72 | 25.31 | 84.83 | 68.65 | 58.83 | 34.45 | 254 |

(a) Included in figures for all children.

(b) Includes Icterus and Sclerema prior to 1931.

Until a more detailed analysis of the effect of changing from the Fifth to the Sixth Revision of the International List is made it will not be possible to present causes of infant deaths for 1950 comparable to those shown in the table above. A presentation of the 1950 figures showing the totals of the classes of the Sixth Revision is made in the following table:—

CAUSES OF DEATH OF CHILDREN UNDER ONE YEAR: AUSTRALIA, 1950.

| Cause of Death. | Age at Death. | | | | | | | | | | | | | | Total under 1 year. | |
|--|---------------|---------|----------|----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|---------------------|------------|
| | Under 1 week. | 1 week. | 2 weeks. | 3 weeks. | 1 month.(a) | 2 months. | 3 months. | 4 months. | 5 months. | 6 months. | 7 months. | 8 months. | 9 months. | 10 months. | | 11 months. |
| Infective and Parasitic Diseases .. | 2 | 4 | 3 | 2 | 6 | 11 | 5 | 7 | 9 | 19 | 8 | 7 | 10 | 12 | 8 | 113 |
| Neoplasms .. | .. | .. | .. | 1 | 1 | .. | .. | 4 | 3 | 2 | 2 | 1 | 2 | .. | .. | 18 |
| Allergic, Endocrine System, Metabolic and Nutritional Diseases .. | 2 | 2 | .. | 1 | 4 | 1 | 3 | 2 | 4 | 2 | 2 | 4 | 1 | 1 | 1 | 30 |
| Diseases of the Blood and Blood-forming Organs .. | .. | .. | 1 | .. | .. | 2 | 1 | 1 | 1 | 1 | 1 | .. | 1 | 1 | 1 | 11 |
| Mental, Psychoneurotic, and Personality Disorders .. | 6 | 2 | 1 | 3 | 3 | 1 | 2 | 3 | 1 | .. | 1 | 1 | .. | 1 | 1 | 26 |
| Diseases of the Nervous System and Sense Organs .. | 5 | 3 | 3 | 3 | 11 | 6 | 5 | 13 | 11 | 12 | 13 | 15 | 14 | 14 | 12 | 140 |
| Diseases of the Circulatory System .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 1 | 2 | .. | .. | .. | 1 | 5 |
| Diseases of the Respiratory System .. | 3 | .. | 3 | .. | 57 | 32 | 44 | 33 | 32 | 27 | 22 | 36 | 18 | 19 | 20 | 346 |
| Diseases of the Digestive System .. | 17 | 3 | 1 | 4 | 34 | 27 | 26 | 40 | 24 | 32 | 16 | 8 | 10 | 17 | 7 | 266 |
| Diseases of the Genito-urinary System .. | .. | .. | .. | .. | 4 | 3 | 1 | .. | .. | .. | .. | 3 | .. | .. | .. | 13 |
| Diseases of the Skin and Cellular Tissue .. | 1 | .. | .. | .. | 1 | 1 | .. | .. | 2 | 1 | .. | 1 | .. | .. | 2 | 9 |
| Diseases of the Bones and Organs of Movement .. | .. | .. | .. | .. | 2 | .. | .. | .. | 1 | 1 | .. | .. | .. | .. | .. | 4 |
| Congenital Malformations .. | 286 | 63 | 26 | 28 | 77 | 37 | 42 | 24 | 20 | 14 | 9 | 14 | 10 | 12 | 8 | 670 |
| Certain Diseases of Early Infancy—without Mention of Immaturity .. | 915 | 87 | 46 | 36 | 16 | 13 | 6 | 10 | 6 | 4 | 3 | 2 | 2 | 3 | 4 | 1,153 |
| with Immaturity .. | 1,627 | 63 | 25 | 9 | 10 | .. | 1 | 2 | .. | .. | .. | .. | .. | .. | .. | 1,737 |
| Symptoms and Ill-defined Conditions .. | 9 | 2 | .. | .. | 2 | .. | 2 | .. | 1 | .. | 1 | 1 | 2 | 1 | 2 | 23 |
| Accidents, Poisonings and Violence .. | 8 | 2 | 2 | 7 | 8 | 11 | 6 | 11 | 3 | 6 | 6 | 7 | 4 | 7 | 13 | 101 |
| Total | 2,833 | 231 | 111 | 94 | 236 | 145 | 144 | 150 | 119 | 122 | 86 | 100 | 76 | 88 | 80 | 4,665 |

(a) Age 4 weeks (28 days) and under 2 months.

(vi) *Deaths of Ex-nuptial Children under one Year.* The deaths of ex-nuptial children were tabulated by this Bureau for the first time in 1925. The numbers of deaths from various causes of these children in 1949 and the rates in respect of 1925, 1931, 1941 and 1949 are shown in the table on the previous page. In 1950 the rate for all children under one year per 1,000 total births was 24.47 and the death rate of ex-nuptial children per 1,000 ex-nuptial births was 30.17.

Corresponding figures for 1949 may be obtained from *Demography Bulletin* No. 67. Full particulars of the causes of death of ex-nuptial children who died in 1950 aged under one year and also of those under one month are given for each State and Territory in *Demography Bulletin* No. 68. This contains, in addition, detailed information for Australia as to the age at which ex-nuptial children died from each cause of death.

In 1949 pre-natal influences, such as congenital malformations, congenital debility and premature birth, together with injuries at birth and other diseases of early infancy accounted for 182 or 72 per cent., pneumonia for 30 or 12 per cent., and diarrhoea and enteritis for 12 or 5 per cent. of the total deaths of ex-nuptial children under 1 year.

Owing to the change in classifications, figures for 1950 on a basis precisely similar to 1949 figures are not available. Deaths of ex-nuptial children under one year from congenital malformations and "certain diseases of early infancy" (including immaturity where mentioned) accounted for 148 or 67 per cent. of the total deaths of ex-nuptial

children under one year in 1950. These figures include deaths from pneumonia and diarrhoea and enteritis under one month of age. At ages one month and over, pneumonia caused eighteen deaths and enteritis sixteen deaths, representing 8 per cent. and 7 per cent., respectively, of the total deaths of ex-nuptial children under one year.

9. Deaths in Age-groups.—A distribution into age-groups has been made of the 378,415 deaths which occurred in Australia during the five years ended 1950, and the results are shown in the following table:—

AGGREGATE DEATHS IN AGE-GROUPS : AUSTRALIA, 1946 TO 1950.

| Age-group (Years). | Number of Deaths. | | | Proportion of Total Deaths. | | |
|----------------------|-------------------|----------------|----------------|-----------------------------|---------------|---------------|
| | Males. | Females. | Persons. | Males. | Females. | Persons. |
| Under 1 | 14,040 | 10,472 | 24,512 | 6.67 | 6.24 | 6.48 |
| 1-4 | 3,120 | 2,391 | 5,511 | 1.48 | 1.42 | 1.45 |
| 5-19 | 4,515 | 2,629 | 7,144 | 2.14 | 1.57 | 1.89 |
| 20-39 | 12,338 | 9,209 | 21,547 | 5.86 | 5.49 | 5.69 |
| 40-59 | 42,773 | 28,060 | 70,833 | 20.31 | 16.72 | 18.72 |
| 60-64 | 22,577 | 13,786 | 36,363 | 10.72 | 8.22 | 9.61 |
| 65 and over | 111,177 | 101,223 | 212,400 | 52.78 | 60.33 | 56.13 |
| Age not stated | 82 | 23 | 105 | 0.04 | 0.01 | 0.03 |
| Total | 210,622 | 167,793 | 378,415 | 100.00 | 100.00 | 100.00 |

A table showing the corresponding percentages in periods of ten years from the year 1901 has been added to show the movement over a longer term. The most striking change is the substantial decrease in the group "under 1 year". At the other end of the table, the group "65 years and over" has increased considerably. The percentages in all age-groups under 40 have fallen since 1901, while those in all age-groups from 40 onwards have risen. These changes are due partly to improvement in the efficiency of medical science and partly to changes in the age distribution of the population. The latter changes are themselves in part due to increased length of life made possible by medical science, and in part to changes in the volume of migration and the falling birth-rate:—

PROPORTION OF DEATHS IN EACH AGE-GROUP : AUSTRALIA.
(per cent.)

| Period. | Age-group (Years). | | | | | | | | Total. |
|-----------------|--------------------|------|-------|--------|--------|--------|--------------|--------------|--------|
| | Under 1. | 1-4. | 5-19. | 20-39. | 40-59. | 60-64. | 65 and over. | Unspecified. | |
| MALES. | | | | | | | | | |
| 1901-10 | 19.80 | 5.84 | 5.84 | 13.85 | 19.70 | 5.71 | 29.08 | 0.18 | 100.00 |
| 1911-20 | 16.44 | 5.65 | 5.18 | 13.44 | 22.16 | 6.83 | 30.11 | 0.19 | 100.00 |
| 1921-30 | 13.18 | 4.35 | 4.86 | 11.00 | 21.76 | 9.01 | 35.71 | 0.13 | 100.00 |
| 1931-40 | 7.53 | 2.49 | 4.02 | 8.79 | 21.67 | 8.95 | 46.50 | 0.05 | 100.00 |
| 1941-50 | 7.01 | 1.73 | 2.51 | 5.72 | 20.52 | 10.39 | 52.09 | 0.03 | 100.00 |
| FEMALES. | | | | | | | | | |
| 1901-10 | 21.47 | 7.28 | 7.08 | 16.54 | 15.67 | 4.77 | 27.15 | 0.04 | 100.00 |
| 1911-20 | 16.95 | 6.69 | 5.92 | 15.79 | 17.85 | 5.31 | 31.44 | 0.05 | 100.00 |
| 1921-30 | 12.98 | 4.72 | 4.85 | 13.59 | 18.96 | 7.27 | 37.61 | 0.02 | 100.00 |
| 1931-40 | 7.22 | 2.66 | 3.58 | 10.10 | 19.11 | 7.60 | 49.72 | 0.01 | 100.00 |
| 1941-50 | 6.52 | 1.68 | 1.94 | 6.37 | 17.22 | 8.04 | 58.22 | 0.01 | 100.00 |
| PERSONS. | | | | | | | | | |
| 1901-10 | 20.51 | 6.45 | 6.37 | 14.99 | 17.99 | 5.31 | 28.26 | 0.12 | 100.00 |
| 1911-20 | 16.66 | 6.09 | 5.49 | 14.44 | 20.32 | 6.19 | 30.68 | 0.13 | 100.00 |
| 1921-30 | 13.10 | 4.51 | 4.85 | 12.12 | 20.55 | 8.26 | 36.53 | 0.08 | 100.00 |
| 1931-40 | 7.40 | 2.56 | 3.83 | 9.36 | 20.54 | 8.36 | 47.92 | 0.03 | 100.00 |
| 1941-50 | 6.79 | 1.71 | 2.26 | 6.01 | 19.04 | 9.33 | 54.84 | 0.02 | 100.00 |

10. Deaths at Single Ages and in Age-groups.—(i) *General.* The deaths registered in Australia in 1949 and 1950 will be found tabulated in five-yearly age-groups for each State and Territory and in single ages for Australia in *Demography Bulletins* Nos. 67 and 68, respectively. The deaths during the first fifteen years of life have been tabulated there in single ages and for the first year of life in shorter periods. A summary for Australia for 1950 is given in the following table:—

DEATHS AT SINGLE AGES AND IN AGE-GROUPS : AUSTRALIA, 1950.

| Age at Death. | Males. | Fe- males. | Persons. | Age at Death. | Males. | Fe- males. | Persons. |
|----------------------------|--------|---------------|----------|--------------------|--------|---------------|----------|
| Under 1 week | 1,675 | 1,208 | 2,883 | Total 5-9 years .. | 321 | 204 | 525 |
| 1 week and under 2 weeks | 129 | 102 | 231 | " 10-14 " .. | 225 | 156 | 381 |
| 2 weeks and under 3 " " | 57 | 54 | 111 | " 15-19 " .. | 393 | 195 | 588 |
| 3 weeks and under 28 days | 47 | 47 | 94 | " 20-24 " .. | 675 | 291 | 966 |
| | | | | " 25-29 " .. | 562 | 345 | 907 |
| Total under 28 days | 1,908 | 1,411 | 3,319 | " 30-34 " .. | 581 | 394 | 975 |
| 28 days and under 3 months | 225 | 156 | 381 | " 35-39 " .. | 798 | 624 | 1,422 |
| 3 months and under 6 " " | 225 | 188 | 413 | " 40-44 " .. | 1,138 | 831 | 1,969 |
| 6 months and under 12 " " | 303 | 249 | 552 | " 45-49 " .. | 1,625 | 1,075 | 2,700 |
| | | | | " 50-54 " .. | 2,377 | 1,514 | 3,891 |
| Total under 1 year .. | 2,661 | 2,004 | 4,665 | " 55-59 " .. | 3,446 | 2,088 | 5,534 |
| 1 year | 275 | 238 | 513 | " 60-64 " .. | 4,799 | 2,845 | 7,644 |
| 2 years | 168 | 90 | 258 | " 65-69 " .. | 5,379 | 3,599 | 8,978 |
| 3 " | 120 | 85 | 205 | " 70-74 " .. | 5,500 | 4,292 | 9,792 |
| 4 " | 98 | 50 | 148 | " 75-79 " .. | 5,151 | 4,747 | 9,898 |
| | | | | " 80-84 " .. | 4,145 | 4,422 | 8,567 |
| | | | | " 85-89 " .. | 2,469 | 3,052 | 5,521 |
| | | | | " 90-94 " .. | 661 | 1,074 | 1,735 |
| | | | | " 95-99 " .. | 118 | 225 | 343 |
| | | | | " 100 and over .. | 12 | 21 | 33 |
| | | | | Age not stated .. | 23 | 6 | 29 |
| Total under 5 years | 3,322 | 2,467 | 5,789 | Total all ages .. | 43,720 | 34,467 | 78,187 |

(ii) *Rates.* The following table gives the average annual death-rates in age-groups per 1,000 of the population at 30th June, 1947, for the period 1946 to 1948, i.e., the Census year 1947 and the years immediately preceding and following. Deaths in the Northern Territory and the Australian Capital Territory are included in the total for Australia but not in any of the States. Similar details for the years 1932 to 1934 are given in Official Year Book No. 37, p. 778.

AVERAGE ANNUAL DEATH-RATES : AGE-GROUPS, 1946-48.

| Age-group (Years). | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tasmania. | Australia. |
|-----------------------|--------|-----------|---------|----------|----------|-----------|------------|
| MALES. | | | | | | | |
| 0-4 .. | 9.80 | 8.18 | 9.39 | 8.08 | 9.32 | 9.13 | 9.11 |
| 5-9 .. | 0.93 | 0.85 | 0.90 | 1.00 | 0.89 | 1.15 | 0.92 |
| 10-14 .. | 0.78 | 0.70 | 0.99 | 0.66 | 0.61 | 0.67 | 0.77 |
| 15-19 .. | 1.43 | 1.25 | 1.53 | 1.46 | 1.45 | 1.62 | 1.41 |
| 20-24 .. | 1.61 | 1.64 | 2.97 | 1.42 | 2.18 | 2.10 | 1.72 |
| 25-29 .. | 1.54 | 1.58 | 2.16 | 1.59 | 1.96 | 2.12 | 1.70 |
| 30-34 .. | 1.94 | 1.86 | 2.43 | 1.88 | 2.29 | 2.27 | 2.02 |
| 35-39 .. | 2.68 | 2.43 | 3.05 | 2.41 | 2.46 | 3.10 | 2.65 |
| 40-44 .. | 4.24 | 3.88 | 4.55 | 3.65 | 4.15 | 3.93 | 4.12 |
| 45-49 .. | 7.25 | 6.32 | 7.35 | 6.11 | 6.25 | 5.88 | 6.79 |
| 50-54 .. | 12.01 | 10.93 | 11.56 | 10.76 | 11.45 | 9.52 | 11.42 |
| 55-59 .. | 18.57 | 16.98 | 17.83 | 16.25 | 17.21 | 16.08 | 17.68 |
| 60-64 .. | 28.82 | 27.08 | 27.20 | 26.04 | 26.26 | 23.87 | 27.54 |
| 65-69 .. | 44.08 | 42.18 | 41.15 | 40.14 | 40.25 | 41.82 | 42.45 |
| 70-74 .. | 64.76 | 64.27 | 64.46 | 60.98 | 60.96 | 58.43 | 63.72 |
| 75-79 .. | 100.79 | 100.40 | 96.25 | 97.77 | 98.74 | 103.22 | 99.68 |
| 80-84 .. | 150.89 | 147.72 | 149.92 | 145.27 | 149.45 | 156.64 | 149.29 |
| 85-89 .. | 230.47 | 228.78 | 233.66 | 224.18 | 222.41 | 256.56 | 230.19 |
| 90 and over | 352.09 | 340.39 | 353.90 | 353.49 | 376.24 | 434.21 | 353.03 |

AVERAGE ANNUAL DEATH-RATES: AGE-GROUPS, 1946-48—*continued.*

| Age-group (Years). | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tasmania. | Australia. |
|-----------------------|--------|-----------|---------|----------|----------|-----------|------------|
| FEMALES. | | | | | | | |
| 0-4 .. | 7.32 | 6.40 | 7.55 | 7.12 | 7.92 | 7.24 | 7.14 |
| 5-9 .. | 0.65 | 0.61 | 0.84 | 0.55 | 0.50 | 0.69 | 0.64 |
| 10-14 .. | 0.55 | 0.48 | 0.54 | 0.40 | 0.63 | 0.39 | 0.52 |
| 15-19 .. | 0.61 | 0.66 | 0.79 | 0.73 | 0.65 | 1.46 | 0.70 |
| 20-24 .. | 0.93 | 1.10 | 1.31 | 1.05 | 1.15 | 1.79 | 1.08 |
| 25-29 .. | 1.49 | 1.37 | 1.62 | 1.65 | 1.54 | 1.74 | 1.50 |
| 30-34 .. | 1.70 | 1.65 | 2.26 | 1.90 | 1.55 | 1.90 | 1.78 |
| 35-39 .. | 2.40 | 2.16 | 2.84 | 2.02 | 2.58 | 2.59 | 2.38 |
| 40-44 .. | 3.30 | 3.05 | 3.73 | 3.46 | 3.11 | 3.51 | 3.29 |
| 45-49 .. | 4.83 | 4.81 | 5.17 | 4.60 | 5.09 | 4.66 | 4.86 |
| 50-54 .. | 7.75 | 7.86 | 7.55 | 7.12 | 6.81 | 7.84 | 7.64 |
| 55-59 .. | 10.58 | 11.00 | 10.97 | 10.34 | 10.08 | 10.03 | 10.69 |
| 60-64 .. | 16.91 | 16.92 | 15.70 | 14.97 | 16.13 | 17.30 | 16.52 |
| 65-69 .. | 26.69 | 27.10 | 24.91 | 25.25 | 24.56 | 27.35 | 26.34 |
| 70-74 .. | 45.61 | 45.83 | 42.82 | 42.17 | 40.75 | 49.47 | 44.85 |
| 75-79 .. | 75.11 | 77.96 | 73.20 | 71.95 | 74.21 | 77.00 | 75.57 |
| 80-84 .. | 127.63 | 127.91 | 128.69 | 121.57 | 117.55 | 123.49 | 126.50 |
| 85-89 .. | 197.30 | 201.38 | 205.74 | 192.69 | 187.50 | 198.35 | 198.78 |
| 90 and over | 320.38 | 306.09 | 342.18 | 292.43 | 273.81 | 317.76 | 312.54 |
| PERSONS. | | | | | | | |
| 0-4 .. | 8.59 | 7.31 | 8.49 | 7.61 | 8.64 | 8.21 | 8.15 |
| 5-9 .. | 0.79 | 0.73 | 0.87 | 0.78 | 0.70 | 0.92 | 0.78 |
| 10-14 .. | 0.67 | 0.59 | 0.77 | 0.53 | 0.62 | 0.53 | 0.65 |
| 15-19 .. | 1.03 | 0.96 | 1.17 | 1.10 | 1.05 | 1.54 | 1.06 |
| 20-24 .. | 1.27 | 1.37 | 1.70 | 1.23 | 1.67 | 1.94 | 1.40 |
| 25-29 .. | 1.52 | 1.47 | 1.90 | 1.62 | 1.74 | 1.93 | 1.60 |
| 30-34 .. | 1.82 | 1.75 | 2.35 | 1.89 | 1.92 | 2.09 | 1.90 |
| 35-39 .. | 2.54 | 2.29 | 2.95 | 2.21 | 2.51 | 2.85 | 2.52 |
| 40-44 .. | 3.78 | 3.47 | 4.17 | 3.56 | 3.69 | 3.73 | 3.72 |
| 45-49 .. | 6.04 | 5.56 | 6.31 | 5.36 | 5.73 | 5.28 | 5.84 |
| 50-54 .. | 9.81 | 9.33 | 9.59 | 8.84 | 9.22 | 8.65 | 9.48 |
| 55-59 .. | 14.59 | 13.90 | 14.59 | 13.24 | 13.80 | 13.44 | 14.19 |
| 60-64 .. | 22.78 | 21.71 | 21.71 | 20.32 | 21.35 | 20.53 | 21.94 |
| 65-69 .. | 35.02 | 34.00 | 33.14 | 32.22 | 32.58 | 34.56 | 34.05 |
| 70-74 .. | 54.40 | 53.87 | 53.44 | 50.71 | 50.78 | 53.80 | 53.52 |
| 75-79 .. | 86.75 | 87.62 | 84.56 | 83.24 | 86.62 | 89.78 | 86.53 |
| 80-84 .. | 138.08 | 136.24 | 139.18 | 131.40 | 133.24 | 138.41 | 136.64 |
| 85-89 .. | 211.40 | 212.11 | 219.04 | 205.12 | 204.10 | 222.49 | 211.97 |
| 90 and over | 332.35 | 318.37 | 347.45 | 314.38 | 312.27 | 366.12 | 327.92 |

11. **Deaths of Centenarians.**—In issues of the Official Year Book up to and including No. 33, particulars were given concerning persons aged 100 years and upwards who died each year. However, while the Registrars-General of the various States verify the ages as far as possible, absolute reliance cannot be placed on the accuracy of the information, owing to the well-known tendency of very old people to overstate their ages, and it was considered advisable to discontinue publication of this table. In connexion with this question it may be noted that while parish registers in the United Kingdom often date very far back, compulsory registration of births dates practically from 1874 only, the Act of 1836 having left many loopholes for those unwilling to register the births of their children.

12. **Length of Residence in Australia of Persons who Died.**—Since 1940 the tabulation respecting the length of residence in Australia of all persons whose deaths were registered during the year has been discontinued. Details for the year 1940 appear in Official Year Book No. 37, pp. 779-80.

13. **Birthplaces of Persons who Died.**—A table giving a summary of birthplaces of persons whose deaths were registered in 1911 and 1940 will be found in Official Year Book

No. 34, p. 337. More detailed information will be found in *Demography Bulletin* No. 58. Tabulations were discontinued for the years 1941 to 1945 inclusive, but were revived for 1946. Details for 1950 appear in *Demography Bulletin* No. 68.

14. **Occupation of Males who Died.**—A table showing occupations of males who died during 1950 appears in *Demography Bulletin* No. 68.

15. **Causes of Death.**—The classification of causes of death adopted for Australia by the Commonwealth Bureau of Census and Statistics at the inception of its mortality statistics in 1907 was that introduced by the International Institute of Statistics in 1893, reviewed by that Institute in 1899 and revised by an International Commission in 1900. This classification became known as the International List of Causes of Death and further revisions by International Commissions in 1909 (Second), 1920 (Third), 1929 (Fourth) and 1938 (Fifth) were successively adapted for use in Australian statistics.

Proposals for the Fourth and Fifth revisions were drafted by a "Mixed Commission" of representatives of the International Statistical Institute and the Health Organization of the League of Nations and the final revision was carried out by the International Conference for the Revision of the International List of Causes of Death. Preparatory work in connexion with the Sixth Revision was entrusted by the International Health Conference in 1946 to the Interim Commission of the World Health Organization. As a result of this arrangement the World Health Organization compiled the International Statistical Classification of Diseases, Injuries and Causes of Death, which in its final stages was unanimously approved by the International Conference for the Sixth Revision of the International Lists of Diseases and Causes of Death in April, 1948. This classification was adopted by the First World Health Assembly, which also issued Regulations to guide member states in its application. Australia adopted the classification, together with the rules for using it, for use commencing with the year 1950.

For the first time in connexion with the International List, international rules for a uniform method of selecting the main cause to be tabulated, if more than one cause is stated on the death certificate, have been laid down, as well as the new classifications of causes of death. Prior to 1950 the rules adopted in Australia for the selection of the cause of death to be tabulated were those laid down in the United States Manual of Joint Causes of Death, first published in 1914 and revised to conform with successive revisions of the International List.

The adoption of the new method marked a fundamental change in Australian cause of death statistics, with emphasis now placed on the underlying cause of death as indicated by the certifying practitioner. The introduction of this method required the adoption by all States of a form of medical certificate substantially identical with the International Form of Medical Certificate of Cause of Death as laid down in Article 9 of the World Health Organization Regulations No. 1. By 1950 all States had adopted satisfactory forms of certificate and it was possible to apply the new principles uniformly to all State cause of death records.

This change in principle affects the comparability of the 1950 statistics with those of past years. For convenience in assessing the extent of the change and in accordance with a recommendation of the Sixth Decennial Revision Conference, causes of death for Australia for 1950 were also classified according to the detailed classification of the Fifth Revision, 1938, on the joint cause rules current for that revision. A complete detailed classification according to both the Fifth and Sixth Revisions is shown in *Demography Bulletin* No. 68.

In the cause of death tables A to E which follow, use has been made of the Intermediate and Abridged forms of the International List (Fifth Revision), the origin of which was explained in Year Book No. 38, page 625. For convenience in compilation and to complete the five-year period 1946 to 1950 on a uniform basis, the 1950 figures used in these tables are those compiled according to the Fifth Revision.

The compilations for the years 1946 to 1950 will be found in full detail in *Demography Bulletins* Nos. 64 to 68. In the following tables A, B, and C, in which the intermediate classification has been employed, deaths are shown of males, females and persons, respectively, for 1950. Table D shows, in the abridged form, the number of persons who died in each of the years 1946 to 1950 and gives the rate per million of population for the last-named year.

Since death-rates are subject to continual fluctuation, it is unsafe to base deductions on the figures relating to a single year. In order, therefore, to furnish a valid basis for comparison, three five-yearly periods have been shown in table E, giving the number of deaths and the rates per million persons.

A.—CAUSES OF DEATH : MALES, 1950.

INTERMEDIATE CLASSIFICATION (BASED ON THE FIFTH REVISION OF THE INTERNATIONAL LIST).

(Figures in parentheses indicate the abridged classification number in each instance.)

| Cause of Death. | General Classification Numbers | N.S.W. | Vic. | Q'land. | S. Aust. | W. Aus. | Tas. | N.T. | A. O. T. | Aust. |
|--|--------------------------------|--------|-------|---------|----------|---------|------|------|----------|--------|
| 1. Typhoid and Paratyphoid Fevers (1) | 1, 2 | 2 | .. | .. | .. | .. | .. | .. | .. | 2 |
| 2. Plague (2) | 3 | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 3. Scarlet Fever (3) | 8 | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 4. Whooping Cough (4) | 9 | 3 | 1 | 7 | 1 | 4 | 1 | .. | .. | 17 |
| 5. Diphtheria (5) | 10 | 13 | 7 | 6 | 1 | 3 | .. | .. | .. | 30 |
| 6. Tuberculosis of the Respiratory System (6) | 13 | 474 | 285 | 162 | 85 | 94 | 25 | 2 | 1 | 1,128 |
| 7a. Tubercular Meningitis (7a) | 14 (a) | 12 | 2 | 2 | 2 | .. | 4 | .. | .. | 22 |
| 7b. Other forms of Tuberculosis (7b) | 14 (b)-22 | 11 | 17 | 9 | 3 | 1 | 1 | .. | .. | 42 |
| Total, Tuberculosis | .. | 497 | 304 | 173 | 90 | 95 | 30 | 2 | 1 | 1,192 |
| 8. Septicæmia, Purulent Infection (Non-puerperal) (14) | 24 | 11 | 9 | 2 | 7 | 8 | 1 | .. | .. | 38 |
| 9. Dysentery (14) | 27 | 7 | .. | 6 | 1 | 1 | .. | .. | .. | 15 |
| 10. Malaria (8) | 28 | 1 | 1 | .. | .. | .. | .. | .. | .. | 3 |
| 11. Syphilis (9) | 30 | 7 | .. | .. | .. | .. | .. | .. | .. | 228 |
| 12a. Influenza—Pneumonic (10a) | 33 (a) | 43 | 26 | 15 | 9 | 9 | 5 | 1 | .. | 168 |
| 12b. Influenza—Other (10b) | 33 (b) | 20 | 10 | 6 | 2 | 9 | 5 | .. | .. | 53 |
| 13. Small-pox (11) | 34 | .. | .. | .. | .. | .. | .. | .. | .. | 29 |
| 14. Measles (12) | 35 | 12 | 3 | 7 | 4 | 3 | .. | .. | .. | 2 |
| 15. Typhus Fever (13) | 39 | .. | .. | 2 | .. | .. | .. | .. | .. | 27 |
| 16. Diseases caused by Helminths (14) | 40-42 | 7 | 11 | 2 | 4 | .. | 3 | .. | .. | .. |
| 17. Other Infectious and Parasitic Diseases (14) | * | 124 | 80 | 48 | 19 | 19 | 9 | 1 | 1 | 301 |
| 18. Cancer of the Buccal Cavity and Pharynx (15) | 45 | 85 | 70 | 27 | 21 | 19 | 6 | .. | .. | 228 |
| 19. Cancer of the Digestive Organs and Peritoneum (15) | 46 | 1,041 | 728 | 373 | 226 | 181 | 83 | 1 | .. | 2,633 |
| 20. Cancer of the Respiratory System (15) | 47 | 296 | 206 | 109 | 45 | 60 | 20 | 1 | .. | 737 |
| 22. Cancer of the Breast (15) | 50 | 2 | 3 | 1 | .. | .. | .. | .. | .. | 7 |
| 23. Cancer of Other or Unspecified Organs (15) | 49, 51-55 | 598 | 477 | 231 | 150 | 100 | 50 | .. | 3 | 1,609 |
| Total, Cancer | .. | 2,022 | 1,484 | 741 | 443 | 360 | 159 | 2 | 3 | 5,214 |
| 24. Non-malignant Tumours or Tumours of Unspecified Nature (16) | 56, 57 | 86 | 21 | 39 | 8 | 11 | 3 | .. | .. | 168 |
| 25. Acute Rheumatic Fever (20) | 58 | 16 | 15 | 12 | 2 | 2 | 3 | .. | .. | 50 |
| 26. Chronic Rheumatism and Gout (17) | 59, 60 | 12 | 18 | 6 | 5 | 3 | .. | .. | .. | 44 |
| 27. Diabetes Mellitus (18) | 61 | 193 | 153 | 54 | 45 | 51 | 15 | .. | 1 | 512 |
| 28. Diseases of the Thyroid and Parathyroid Glands (20) | 63 | 13 | 1 | 6 | 4 | 1 | 5 | .. | .. | 30 |
| 29. Other General Diseases (20) | 62, 64-66 | 22 | 9 | 6 | 7 | 3 | .. | .. | .. | 47 |
| 30. Avitaminoses (20) | 67-71 | 5 | 1 | .. | 1 | 1 | 1 | .. | .. | 8 |
| 31. Anæmias (20) | 73 | 36 | 38 | 21 | 6 | 10 | 4 | .. | .. | 115 |
| 32. Leucæmias, Pseudoleucæmias, and other Diseases of the Blood and Blood-making Organs (20) | 72, 74-76 | 93 | 71 | 32 | 28 | 17 | 4 | .. | .. | 245 |
| 33. Alcoholism (acute or chronic) (19) | 77 | 73 | 23 | 26 | 14 | 7 | .. | .. | .. | 143 |
| 34. Other Chronic Poisonings (20) | 78, 79 | 4 | 1 | .. | 1 | .. | .. | .. | .. | 6 |
| 35. Meningitis (Non-meningococcal) (21) | 81 | 24 | 22 | 6 | 4 | 2 | 3 | .. | .. | 61 |
| 36. Diseases of the Spinal Cord (21) | 82 | 41 | 31 | 13 | 11 | 6 | 5 | .. | .. | 107 |
| 37. Intra-cranial Lesions of Vascular Origin (22) | 83 | 1,602 | 978 | 545 | 342 | 212 | 101 | 2 | 3 | 3,785 |
| 38. Mental Diseases and Deceiency (23) | 84 | 16 | 10 | 9 | 5 | 9 | 2 | .. | .. | 51 |
| 39. Epilepsy (23) | 85 | 45 | 39 | 9 | 7 | 11 | 3 | 1 | .. | 115 |
| 40. Other Diseases of the Nervous System (23) | 80, 86, 87 | 122 | 79 | 52 | 32 | 13 | 7 | .. | .. | 305 |
| 41. Diseases of the Eye, Ear and their Annexa (23) | 88, 89 | 9 | 9 | 8 | 1 | 5 | 1 | .. | .. | 33 |
| 42. Pericarditis (24) | 90 | 7 | 6 | 2 | 2 | 2 | 1 | .. | .. | 20 |
| 43. Chronic Affections of the Valves and Endocardium (24) | 92 | 210 | 179 | 100 | 66 | 47 | 21 | 1 | .. | 624 |
| 44. Diseases of the Myocardium (24) | 93 | 3,280 | 2,108 | 927 | 588 | 481 | 200 | 14 | 6 | 7,604 |
| 45. Diseases of the Coronary Arteries and Angina Pectoris (24) | 94 | 2,488 | 1,612 | 811 | 565 | 394 | 188 | 6 | 14 | 6,978 |
| 46. Other Diseases of the Heart (24) | 91, 95 | 407 | 149 | 53 | 32 | 21 | 16 | .. | 1 | 679 |
| Total, Heart Diseases | .. | 6,392 | 4,054 | 1,893 | 1,253 | 945 | 426 | 21 | 21 | 15,005 |

* No. 17:—4-7, 11, 12, 23, 25, 26, 29, 31, 32, 36-38, 43, 44.

A.—CAUSES OF DEATH: MALES, 1950—continued.

INTERMEDIATE CLASSIFICATION (BASED ON THE FIFTH REVISION OF THE INTERNATIONAL LIST).

(Figures in parentheses indicate the abridged classification number in each instance.)

| Cause of Death. | General Classification Numbers. | N.S.W. | Vic. | Q'land. | S. Aust. | W. Aus. | Tas. | N.T. | A. C. T. | Aust. |
|--|---------------------------------|--------|--------|---------|----------|---------|-------|------|----------|--------|
| 47. Arteriosclerosis and Gangrene (25) | 97, 98 | 249 | 224 | 85 | 49 | 67 | 38 | 1 | .. | 713 |
| 48. Other Diseases of the Circulatory System (25) | 96, 99-103 | 166 | 53 | 68 | 26 | 21 | 3 | 1 | .. | 338 |
| 49a. Acute Bronchitis (26a) | 106 (a)(c) | 42 | 26 | 19 | 8 | 6 | 2 | .. | .. | 103 |
| 49b. Chronic Bronchitis (26b) | 106 (b)(d) | 164 | 126 | 67 | 20 | 21 | 11 | .. | 2 | 411 |
| 50. Pneumonia and Broncho-pneumonia (27) | 107-109 | 682 | 538 | 259 | 151 | 155 | 70 | 6 | 3 | 1,864 |
| 51. Pleurisy (28) | 110 | 20 | 18 | 6 | 5 | 1 | 4 | .. | .. | 54 |
| 52. Other Diseases of the Respiratory System (except Tuberculosis) (28) | 104, 105, 111-114 | 214 | 147 | 103 | 55 | 33 | 14 | .. | .. | 566 |
| 53. Ulcer of the Stomach and Duodenum (32b) | 117 | 190 | 121 | 73 | 51 | 34 | 14 | 2 | 3 | 488 |
| 54. Diarrhoea and Enteritis (under 2 years of age) (29a) | 119 | 69 | 21 | 11 | 36 | 14 | 2 | 3 | .. | 156 |
| 55. Diarrhoea and Enteritis (2 years and over) (29b) | 120 | 40 | 31 | 18 | 11 | 3 | 2 | .. | 1 | 106 |
| 56. Appendicitis (30) | 121 | 45 | 33 | 29 | 6 | 6 | 2 | .. | .. | 121 |
| 57. Hernia, Intestinal Obstruction (32a) | 122 | 138 | 97 | 57 | 28 | 17 | 7 | .. | 1 | 345 |
| 58. Cirrhosis of the Liver (31a) | 124 | 126 | 85 | 31 | 33 | 18 | 10 | 3 | 1 | 307 |
| 59. Other Diseases of the Liver and Biliary Passages, including Biliary Calculi (31b) | 125-127 | 56 | 48 | 28 | 17 | 16 | 9 | 1 | 1 | 176 |
| 60. Other Diseases of the Digestive System (32b) | * | 90 | 49 | 32 | 17 | 15 | 5 | .. | 1 | 209 |
| 61. Nephritis (33) | 130-132 | 594 | 577 | 269 | 110 | 121 | 69 | 1 | 2 | 1,743 |
| 62. Other Diseases of the Kidneys and Ureters (34) | 133 | 56 | 42 | 23 | 12 | 7 | 4 | .. | .. | 144 |
| 63. Calculi of the Urinary Passages (34) | 134 | 17 | 11 | 8 | 4 | 4 | 2 | .. | .. | 46 |
| 64. Diseases of the Urinary Bladder (34) | 135 | 15 | 6 | 5 | 2 | .. | .. | .. | 1 | 29 |
| 65. Diseases of the Urethra, Urinary Abscess, etc. (34) | 136 | 8 | 9 | 3 | 1 | 3 | 1 | .. | .. | 25 |
| 66. Diseases of the Prostate (34) | 137 | 175 | 226 | 102 | 58 | 40 | 26 | .. | .. | 627 |
| 67. Diseases of the Genital Organs, not specified as Venereal (34) | 138, 139 | 2 | 1 | .. | 1 | .. | .. | .. | .. | 4 |
| 73. Diseases of the Skin and Cellular Tissue (37) | 151-153 | 19 | 6 | 7 | 2 | 6 | 1 | .. | .. | 41 |
| 74. Diseases of the Bones and Organs of Locomotion (except Tuberculosis and Rheumatism) (37) | 154-156 | 14 | 11 | 7 | 2 | 4 | 2 | .. | .. | 40 |
| 75. Congenital Malformations (Stillbirths not included) (38) | 157 | 177 | 110 | 71 | 46 | 43 | 18 | 2 | 1 | 468 |
| 76. Congenital Debility (38) | 158 | 21 | 3 | 3 | 5 | 6 | 2 | .. | .. | 40 |
| 77. Premature Birth (38) | 159 | 369 | 196 | 129 | 80 | 51 | 23 | 3 | 8 | 859 |
| 78. Injury at Birth (38) | 160 | 175 | 76 | 80 | 24 | 37 | 15 | .. | 2 | 409 |
| 79. Other Diseases Peculiar to the First Year of Life (38) | 161 | 101 | 64 | 44 | 23 | 22 | 16 | .. | .. | 270 |
| 80. Senility (39) | 162 | 397 | 219 | 141 | 103 | 30 | 6 | 1 | .. | 897 |
| 81. Suicide (40) | 163, 164 | 225 | 134 | 85 | 45 | 57 | 17 | 3 | 1 | 567 |
| 82. Homicide (41) | 165-168 | 21 | 14 | 10 | 2 | 5 | 1 | .. | .. | 53 |
| 83. Automobile Accidents (42) | 170 | 475 | 478 | 173 | 152 | 140 | 48 | 9 | 7 | 1,482 |
| 84. Other Violent or Accidental Deaths (43) | 169, 171-195 | 708 | 369 | 310 | 143 | 178 | 70 | 13 | 1 | 1,792 |
| Total, Accidents | .. | 1,183 | 847 | 483 | 285 | 318 | 118 | 22 | 8 | 3,274 |
| 85. Deaths due to Operations of War (43) | 196, 197 | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 86. Legal Executions (43) | 198 | .. | .. | .. | 1 | .. | .. | .. | .. | 1 |
| 87. Ill-defined or Unspecified (44) | 199, 200 | 63 | 26 | 19 | 18 | 2 | 2 | 4 | 3 | 137 |
| Total Males | .. | 17,565 | 11,781 | 6,160 | 3,721 | 3,022 | 1,318 | 83 | 70 | 43,720 |

* No. 60:—115, 116, 118, 123, 128, 129.

B.—CAUSES OF DEATH : FEMALES, 1950.

INTERMEDIATE CLASSIFICATION (BASED ON THE FIFTH REVISION OF THE INTERNATIONAL LIST).

(Figures in parentheses indicate the abridged classification number in each instance.)

| Cause of Death. | General Classification Numbers. | N.S.W. | Vic. | Q'land. | S. Aust. | W. Aus. | Tas. | N.T. | A. C. T. | Anst. |
|---|---------------------------------|--------|-------|---------|----------|---------|------|------|----------|--------|
| 1. Typhoid and Paratyphoid Fevers (1) .. | 1, 2 | 2 | .. | .. | .. | 1 | .. | .. | .. | 3 |
| 2. Plague (2) .. | 3 | .. | .. | .. | .. | .. | .. | .. | .. | 3 |
| 3. Scarlet Fever (3) .. | 8 | 1 | 2 | .. | .. | .. | .. | .. | .. | 17 |
| 4. Whooping Cough (4) .. | 9 | 4 | .. | 6 | .. | 7 | .. | .. | .. | 23 |
| 5. Diphtheria (5) .. | 10 | 12 | 4 | 2 | .. | 4 | 1 | .. | .. | 458 |
| 6. Tuberculosis of the Respiratory System (6) .. | 13 | 178 | 117 | 49 | 34 | 35 | 42 | 2 | 1 | 27 |
| 7a. Tubercular Meningitis (7a) .. | 14 (a) | 8 | 10 | 3 | 5 | .. | 1 | .. | .. | 30 |
| 7b. Other Forms of Tuberculosis (7b) .. | 14 (b)-22 | 6 | 12 | 3 | 5 | 2 | 2 | .. | 1 | 515 |
| <i>Total, Tuberculosis</i> .. | .. | 192 | 139 | 55 | 44 | 37 | 45 | 2 | 1 | 14 |
| 8. Septicæmia, Purulent Infection (Non-puerperal) (14) .. | 24 | 5 | 3 | 1 | 4 | 1 | .. | .. | .. | 18 |
| 9. Dysentery (14) .. | 27 | 4 | 7 | 6 | .. | 1 | .. | .. | .. | 1 |
| 10. Malaria (8) .. | 23 | 1 | .. | .. | .. | .. | .. | .. | .. | 67 |
| 11. Syphilis (9) .. | 30 | 23 | 25 | 7 | 3 | 4 | 5 | .. | .. | 104 |
| 12a. Influenza—Pneumonia (10a) .. | 33 (a) | 47 | 18 | 14 | 12 | 6 | 7 | .. | .. | 54 |
| 12b. Influenza—Other (10b) .. | 33 (b) | 25 | 17 | 4 | 2 | 3 | 3 | .. | .. | 32 |
| 13. Small-pox (11) .. | 34 | .. | .. | .. | .. | .. | .. | .. | .. | 1 |
| 14. Measles (12) .. | 35 | 14 | 5 | 8 | 1 | 3 | 1 | .. | .. | 19 |
| 15. Typhus Fever (13) .. | 39 | .. | .. | .. | .. | .. | .. | .. | .. | 60 |
| 16. Diseases caused by Helminths (14) .. | 40-42 | 5 | 8 | 1 | 3 | 1 | 1 | .. | .. | 191 |
| 17. Other Infectious and Parasitic Diseases (14) .. | * | 83 | 49 | 22 | 18 | 12 | 7 | .. | .. | 240 |
| 18. Cancer of the Buccal Cavity and Pharynx (15) .. | 45 | 23 | 19 | 9 | 4 | 1 | 4 | .. | .. | 39 |
| 19. Cancer of the Digestive Organs and Peritoneum (15) .. | 46 | 849 | 710 | 252 | 184 | 126 | 69 | .. | 6 | 103 |
| 20. Cancer of the Respiratory System (15) .. | 47 | 65 | 52 | 16 | 12 | 13 | 3 | .. | .. | 995 |
| 21. Cancer of the Uterus (15) .. | 48 | 222 | 168 | 59 | 57 | 35 | 19 | .. | 2 | 95 |
| 22. Cancer of the Breast (15) .. | 50 | 388 | 310 | 118 | 95 | 66 | 26 | 1 | 1 | 60 |
| 23. Cancer of Other or Unspecified Organs (15) .. | 49, 51-55 | 356 | 330 | 134 | 78 | 60 | 40 | .. | 2 | 1,005 |
| <i>Total, Cancer</i> .. | .. | 1,303 | 1,389 | 588 | 430 | 301 | 161 | 1 | 11 | 1,000 |
| 24. Non-malignant Tumours or Tumours of Unspecified Nature (16) .. | 56, 57 | 110 | 40 | 38 | 25 | 17 | 10 | .. | .. | 240 |
| 25. Acute Rheumatic Fever (20) .. | 58 | 20 | 6 | 4 | 3 | 6 | .. | .. | .. | 39 |
| 26. Chronic Rheumatism and Gout (17) .. | 59, 60 | 41 | 28 | 11 | 14 | 5 | 4 | .. | .. | 103 |
| 27. Diabetes Mellitus (18) .. | 61 | 359 | 318 | 121 | 98 | 56 | 42 | .. | 1 | 995 |
| 28. Diseases of the Thyroid and Parathyroid Glands (20) .. | 63 | 41 | 21 | 13 | 12 | 4 | 3 | .. | 1 | 95 |
| 29. Other General Diseases (20) .. | 62, 64-66 | 26 | 14 | 11 | 2 | 9 | .. | .. | .. | 60 |
| 30. Avitaminosis (20) .. | 67-71 | 2 | 1 | .. | 2 | .. | .. | .. | .. | 5 |
| 31. Anæmias (20) .. | 73 | 63 | 50 | 26 | 10 | 3 | 4 | .. | 1 | 157 |
| 32. Leucæmias, Pseudoleucæmias, and other Diseases of the Blood and Blood-making Organs (20) .. | 72, 74-76 | 76 | 70 | 35 | 15 | 9 | 5 | .. | 1 | 211 |
| 33. Alcoholism (acute or chronic) (19) .. | 77 | 28 | 9 | 7 | 3 | 1 | .. | .. | .. | 48 |
| 34. Other Chronic Poisonings (20) .. | 78, 79 | .. | .. | 5 | .. | .. | .. | .. | .. | 5 |
| 35. Meningitis (Non-meningococcal) (21) .. | 81 | 28 | 14 | 11 | 3 | 3 | 1 | .. | .. | 60 |
| 36. Diseases of the Spinal Cord (21) .. | 82 | 19 | 18 | 6 | 6 | 4 | .. | .. | .. | 53 |
| 37. Intra-cranial Lesions of Vascular Origin (22) .. | 83 | 1,921 | 1,646 | 558 | 468 | 272 | 142 | .. | 6 | 5,013 |
| 38. Mental Diseases and Deficiency (23) .. | 84 | 12 | 5 | 5 | 5 | 3 | 2 | .. | .. | 32 |
| 39. Epilepsy (23) .. | 85 | 40 | 15 | 11 | 4 | 4 | 1 | .. | .. | 75 |
| 40. Other Diseases of the Nervous System (23) .. | 80, 86, 87 | 121 | 91 | 27 | 24 | 15 | 11 | .. | .. | 289 |
| 41. Diseases of the Eye, Ear and their Annexa (23) .. | 88, 89 | 9 | 6 | 5 | 2 | 3 | .. | .. | .. | 25 |
| 42. Pericarditis (24) .. | 90 | 2 | .. | 1 | 2 | 1 | 1 | .. | .. | 7 |
| 43. Chronic Affections of the Valves and Endocardium (24) .. | 92 | 179 | 170 | 66 | 71 | 36 | 17 | 1 | .. | 540 |
| 44. Diseases of the Myocardium (24) .. | 93 | 2,552 | 1,985 | 705 | 551 | 369 | 199 | .. | 5 | 6,366 |
| 45. Diseases of the Coronary Arteries and Angina Pectoris (24) .. | 94 | 1,152 | 919 | 335 | 271 | 190 | 78 | .. | 4 | 2,949 |
| 46. Other Diseases of the Heart (24) .. | 91, 95 | 201 | 134 | 44 | 24 | 9 | 18 | .. | 1 | 431 |
| <i>Total, Heart Diseases</i> .. | .. | 4,086 | 3,208 | 1,151 | 919 | 605 | 313 | 1 | 10 | 10,293 |
| 47. Arteriosclerosis and Gangrene (25) .. | 97, 98 | 296 | 350 | 68 | 68 | 53 | 33 | .. | .. | 868 |
| 48. Other Diseases of the Circulatory System (25) .. | 96, 99-103 | 128 | 78 | 53 | 18 | 10 | 14 | .. | .. | 301 |

B.—CAUSES OF DEATH: FEMALES, 1950—*continued.*

INTERMEDIATE CLASSIFICATION (BASED ON THE FIFTH REVISION OF THE INTERNATIONAL LIST).

(Figures in parentheses indicate the abridged classification number in each instance.)

| Cause of Death. | General Classification Numbers. | N.S.W. | Vic. | Q'land. | S. Aust. | W. Aus. | Tas. | N.T. | A. C. T. | Aust. |
|--|---------------------------------|--------|--------|---------|----------|---------|-------|------|----------|--------|
| 49a. Acute Bronchitis (26a) .. | 106 (a) (e) | 32 | 18 | 5 | 9 | 1 | .. | .. | .. | 65 |
| 49b. Chronic Bronchitis (26b) .. | 106 (b) (d) | 71 | 52 | 35 | 15 | 7 | 4 | .. | .. | 184 |
| 50. Pneumonia and Broucho-pneumonia (27) .. | 107-109 | 521 | 498 | 178 | 123 | 94 | 69 | .. | 3 | 1,486 |
| 51. Pleurisy (28) .. | 110 | 8 | 11 | 2 | .. | 1 | .. | .. | .. | 22 |
| 52. Other Diseases of the Respiratory System (except Tuberculosis) (28) .. | 104, 105, 111-114 | 154 | 124 | 56 | 39 | 20 | 13 | 1 | 1 | 408 |
| 53. Ulcer of the Stomach and Duodenum (32b) .. | 117 | 26 | 45 | 16 | 12 | 8 | 3 | .. | 1 | 111 |
| 54. Diarrhoea and Enteritis (under 2 years of age) (29a) .. | 119 | 61 | 14 | 10 | 17 | 14 | .. | .. | 1 | 117 |
| 55. Diarrhoea and Enteritis (2 years and over) (29b) .. | 120 | 31 | 34 | 18 | 5 | 9 | 8 | .. | .. | 105 |
| 56. Appendicitis (30) .. | 121 | 29 | 15 | 8 | 7 | 9 | 4 | .. | .. | 72 |
| 57. Hernia, Intestinal Obstruction (32a) .. | 122 | 111 | 55 | 40 | 24 | 11 | 6 | .. | 2 | 249 |
| 58. Cirrhosis of the Liver (31a) .. | 124 | 47 | 63 | 16 | 9 | 10 | 2 | .. | 1 | 148 |
| 59. Other Diseases of the Liver and Biliary Passages, including Biliary Calculi (31b) .. | 125-127 | 88 | 105 | 42 | 21 | 18 | 10 | .. | 1 | 285 |
| 60. Other Diseases of the Digestive System (32b) .. | .. | 69 | 49 | 23 | 14 | 10 | 5 | .. | .. | 170 |
| 61. Nephritis (33) .. | 130-132 | 537 | 525 | 213 | 61 | 83 | 61 | 1 | 2 | 1,483 |
| 62. Other Diseases of the Kidneys and Ureters (34) .. | 133 | 42 | 34 | 17 | 7 | 5 | 2 | .. | 1 | 108 |
| 63. Calculi of the Urinary Passages (34) .. | 134 | 12 | 8 | 6 | 1 | 2 | .. | .. | .. | 29 |
| 64. Diseases of the Urinary Bladder (34) .. | 135 | 4 | 2 | 1 | 7 | .. | .. | .. | .. | 14 |
| 65. Diseases of the Urethra, Urinary Abscess, etc. (34) .. | 136 | .. | 1 | .. | .. | .. | .. | .. | .. | 1 |
| 67. Diseases of the Genital Organs not specified as Venereal or connected with Pregnancy, etc. (34) .. | 138, 139 | 21 | 15 | 6 | 4 | 10 | 2 | .. | .. | 58 |
| 68. Diseases and Accidents of Pregnancy (36) .. | 142-145 | 17 | 17 | 23 | 6 | 4 | 3 | .. | .. | 70 |
| 69. Abortion, without mention of Infection (36) .. | 141 | 2 | 3 | 3 | 1 | .. | 2 | .. | .. | 11 |
| 70. Abortion, with mention of Infection (35a) .. | 140 | 12 | 8 | 1 | 1 | 1 | .. | .. | .. | 23 |
| 71. Infection during Child-birth and the Puerperium (35b) .. | 147 | 13 | 4 | 3 | 1 | 5 | .. | .. | .. | 26 |
| 72. Other Accidents and Diseases of Child-birth and the Puerperium (36) .. | 146, 148-150 | 36 | 11 | 12 | 11 | 3 | 3 | 2 | 1 | 79 |
| 73. Diseases of the Skin and Cellular Tissue (37) .. | 151-153 | 14 | 12 | 9 | 2 | 3 | 1 | .. | .. | 41 |
| 74. Diseases of the Bones and Organs of Locomotion (except Tuberculosis and Rheumatism) (37) .. | 154-156 | 11 | 7 | 4 | 3 | 1 | .. | .. | .. | 26 |
| 75. Congenital Malformations (Stillbirths not included) (38) .. | 157 | 155 | 112 | 74 | 35 | 18 | 17 | .. | 1 | 412 |
| 76. Congenital Debility (38) .. | 158 | 10 | 1 | 3 | 1 | .. | 2 | .. | .. | 17 |
| 77. Premature Birth (38) .. | 159 | 265 | 130 | 110 | 69 | 47 | 30 | 3 | 2 | 656 |
| 78. Injury at Birth (38) .. | 160 | 95 | 56 | 47 | 19 | 30 | 8 | .. | .. | 255 |
| 79. Other Diseases peculiar to the First Year of Life (38) .. | 161 | 74 | 59 | 19 | 19 | 19 | 9 | .. | 1 | 200 |
| 80. Senility (39) .. | 162 | 515 | 291 | 136 | 134 | 18 | 28 | .. | .. | 1,122 |
| 81. Suicide (40) .. | 163, 164 | 92 | 52 | 25 | 10 | 11 | 3 | .. | .. | 193 |
| 82. Homicide (41) .. | 165-168 | 12 | 7 | 4 | 3 | 4 | .. | 1 | .. | 31 |
| 83. Automobile Accidents (42) .. | 170 | 106 | 81 | 43 | 33 | 19 | 2 | 1 | .. | 285 |
| 84. Other Violent or Accidental Deaths (43) .. | 169, 171-175 | 325 | 175 | 143 | 75 | 77 | 33 | .. | .. | 828 |
| Total, Accidents .. | .. | 431 | 256 | 186 | 108 | 96 | 35 | 1 | .. | 1,113 |
| 85. Deaths due to Operations of War (43) .. | 196, 197 | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 86. Legal Executions (43) .. | 198 | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 87. Ill-defined or Unspecified (44) .. | 199, 200 | 35 | 12 | 9 | 3 | 1 | 2 | .. | 2 | 64 |
| Total Females .. | .. | 13,400 | 10,560 | 4,239 | 3,019 | 2,036 | 1,148 | 13 | 52 | 34,467 |

* No. 60.—115, 116, 118, 123, 128, 129.

C.—CAUSES OF DEATH: PERSONS, 1950.

INTERMEDIATE CLASSIFICATION (BASED ON THE FIFTH REVISION OF THE INTERNATIONAL LIST).

(Figures in parentheses indicate the abridged classification number in each instance.)

| Cause of Death. | General Classification Numbers. | N.S.W. | Vic. | Q'land. | S. Aust. | W. Aus. | Tas. | N.T. | A. C. T. | Aust. |
|--|---------------------------------|--------|-------|---------|----------|---------|------|------|----------|--------|
| 1. Typhoid and Paratyphoid Fevers (1) | 1, 2 | 4 | .. | .. | .. | 1 | .. | .. | .. | 5 |
| 2. Plague (2) | 3 | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 3. Scarlet Fever (3) | 3 | 1 | 2 | .. | .. | .. | .. | .. | .. | 3 |
| 4. Whooping Cough (4) | 9 | 7 | 1 | 13 | 1 | 11 | 1 | .. | .. | 34 |
| 5. Diphtheria (5) | 10 | 25 | 11 | 8 | 1 | 7 | 1 | .. | .. | 53 |
| 6. Tuberculosis of the Respiratory System (6) | 13 | 652 | 402 | 211 | 119 | 129 | 67 | 4 | 2 | 1,586 |
| 7a. Tubercular Meningitis (7a) | 14 (a) | 20 | 12 | 5 | 7 | .. | 5 | .. | .. | 49 |
| 7b. Other Forms of Tuberculosis (7b) | 14 (b)-22 | 17 | 29 | 12 | 8 | 3 | 3 | .. | .. | 72 |
| <i>Total, Tuberculosis</i> | .. | 689 | 443 | 228 | 134 | 132 | 75 | 4 | 2 | 1,707 |
| 8. Septicæmia, Purulent Infection (Non-puerperal) (14) | 24 | 16 | 12 | 3 | 11 | 9 | 1 | .. | .. | 52 |
| 9. Dysentery (14) | 27 | 11 | 7 | 12 | 1 | 2 | .. | .. | .. | 33 |
| 10. Malaria (3) | 28 | 2 | 1 | .. | .. | .. | .. | .. | .. | 4 |
| 11. Syphilis (9) | 30 | 99 | 102 | 40 | 21 | 22 | 11 | .. | .. | 295 |
| 12a. Influenza (Pneumonia) (10a) | 33 (a) | 90 | 44 | 29 | 21 | 15 | 12 | 1 | .. | 212 |
| 12b. Influenza (Other) (10b) | 33 (b) | 45 | 27 | 10 | 4 | 12 | 8 | .. | 1 | 107 |
| 13. Small-pox (11) | 34 | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 14. Measles (12) | 35 | 26 | 8 | 15 | 5 | 6 | 1 | .. | .. | 61 |
| 15. Typhus Fever (13) | 39 | .. | .. | 3 | .. | .. | .. | .. | .. | 3 |
| 16. Diseases caused by Helminths (14) | 40-42 | 12 | 19 | 3 | 7 | .. | .. | .. | .. | 46 |
| 17. Other Infectious and Parasitic Diseases (14) | * | 207 | 129 | 70 | 37 | 31 | 16 | 1 | 1 | 492 |
| 18. Cancer of the Buccal Cavity and Pharynx (15) | 45 | 108 | 89 | 36 | 25 | 20 | 10 | .. | .. | 288 |
| 19. Cancer of the Digestive Organs and Peritoneum (15) | 46 | 1,890 | 1,438 | 625 | 410 | 307 | 152 | 1 | 6 | 4,829 |
| 20. Cancer of the Respiratory System (15) | 47 | 361 | 258 | 125 | 57 | 73 | 23 | 1 | .. | 898 |
| 21. Cancer of the Uterus (15) | 48 | 222 | 168 | 59 | 57 | 35 | 19 | .. | 2 | 562 |
| 22. Cancer of the Breast (15) | 50 | 390 | 313 | 119 | 96 | 66 | 26 | 1 | 1 | 1,012 |
| 23. Cancer of Other or Unspecified Organs (15) | 49, 51-55 | 954 | 807 | 365 | 228 | 160 | 90 | .. | 5 | 2,609 |
| <i>Total, Cancer</i> | .. | 3,925 | 3,073 | 1,329 | 873 | 661 | 320 | 3 | 14 | 10,198 |
| 24. Non-malignant Tumours or Tumours of Unspecified Nature (16) | 56, 57 | 196 | 61 | 77 | 33 | 28 | 13 | .. | .. | 408 |
| 25. Acute Rheumatic Fever (20) | 58 | 36 | 21 | 16 | 5 | 8 | 3 | .. | .. | 89 |
| 26. Chronic Rheumatism and Gout (17) | 59, 60 | 53 | 46 | 17 | 19 | 8 | 4 | .. | .. | 147 |
| 27. Diabetes Mellitus (18) | 61 | 552 | 471 | 175 | 143 | 107 | 57 | .. | 2 | 1,507 |
| 28. Diseases of the Thyroid and Parathyroid Glands (20) | 63 | 54 | 22 | 19 | 16 | 5 | 8 | .. | 1 | 125 |
| 29. Other General Diseases (20) | 62, 64-66 | 48 | 23 | 15 | 9 | 12 | .. | .. | .. | 107 |
| 30. Avitaminoses (20) | 67-71 | 7 | 2 | .. | 2 | 1 | 1 | .. | .. | 13 |
| 31. Anæmias (20) | 73 | 99 | 88 | 47 | 16 | 13 | 8 | .. | 1 | 272 |
| 32. Leucæmias, Pseudoleucæmias, and other Diseases of the Blood and Blood-making Organs (20) | 72, 74-76 | 169 | 141 | 67 | 43 | 26 | 9 | .. | 1 | 456 |
| 33. Alcoholism (acute or chronic) (19) | 77 | 101 | 32 | 33 | 17 | 8 | .. | .. | .. | 191 |
| 34. Other Chronic Poisonings (20) | 78, 79 | 4 | 1 | 5 | 1 | .. | .. | .. | .. | 11 |
| 35. Meningitis (Non-meningococcal) (21) | 81 | 52 | 36 | 17 | 7 | 5 | 4 | .. | .. | 121 |
| 36. Diseases of the Spinal Cord (21) | 82 | 60 | 49 | 19 | 17 | 10 | 5 | .. | .. | 160 |
| 37. Intra-cranial Lesions of Vascular Origin (22) | 83 | 3,523 | 2,624 | 1,103 | 810 | 484 | 243 | 2 | 9 | 8,798 |
| 38. Mental Diseases and Deficiency (23) | 84 | 28 | 15 | 14 | 10 | 12 | 4 | .. | .. | 83 |
| 39. Epilepsy (23) | 85 | 85 | 54 | 20 | 11 | 15 | 4 | 1 | .. | 190 |
| 40. Other Diseases of the Nervous System (23) | 80, 86, 87 | 243 | 170 | 79 | 56 | 28 | 18 | .. | .. | 594 |
| 41. Diseases of the Eye, Ear and their Annexa (23) | 88, 89 | 18 | 15 | 13 | 3 | 8 | 1 | .. | .. | 58 |
| 42. Pericarditis (24) | 90 | 9 | 6 | 3 | 4 | 3 | 2 | .. | .. | 27 |
| 43. Chronic Affections of the Valves and Endocardium (24) | 92 | 389 | 349 | 166 | 137 | 83 | 38 | 2 | .. | 1,164 |
| 44. Diseases of the Myocardium (24) | 93 | 5,832 | 4,093 | 1,632 | 1,139 | 850 | 399 | 14 | 11 | 13,970 |
| 45. Diseases of the Coronary Arteries and Angina Pectoris (24) | 94 | 3,640 | 2,531 | 1,146 | 836 | 584 | 266 | 6 | 18 | 9,027 |
| 46. Other Diseases of the Heart (24) | 91, 95 | 608 | 283 | 97 | 56 | 30 | 34 | .. | 2 | 1,110 |
| <i>Total, Heart Diseases</i> | .. | 10,478 | 7,262 | 3,044 | 2,172 | 1,550 | 739 | 22 | 31 | 25,298 |
| 47. Arteriosclerosis and Gangrene (25) | 97, 98 | 545 | 574 | 153 | 117 | 120 | 71 | 1 | .. | 1,581 |
| 48. Other Diseases of the Circulatory System (25) | 96, 99-103 | 294 | 131 | 121 | 44 | 31 | 17 | 1 | .. | 639 |
| 49a. Acute Bronchitis (26a) | 106 (a)(c) | 74 | 44 | 24 | 17 | 7 | 2 | .. | .. | 168 |

* No. 17:—4-7, 11, 12, 23, 25, 26, 29, 31, 32, 36-38, 43, 44.

C.—CAUSES OF DEATH: PERSONS, 1950—continued.

INTERMEDIATE CLASSIFICATION (BASED ON THE FIFTH REVISION OF THE INTERNATIONAL LIST).

(Figures in parentheses indicate the abridged classification number in each instance.)

| Cause of Death. | General Classification Numbers. | N.S.W. | Vic. | Q'land. | S. Aust. | W. Aus. | Tas. | N.T. | A. C. T. | Aust. |
|---|---------------------------------|--------|--------|---------|----------|---------|-------|------|----------|--------|
| 49b. Chronic Bronchitis (26b) .. | 106 (b) (d) | 235 | 178 | 102 | 35 | 28 | 15 | .. | 2 | 595 |
| 50. Pneumonia and Broncho-pneumonia (27) .. | 107-109 | 1,203 | 1,036 | 437 | 274 | 249 | 139 | 6 | 6 | 3,350 |
| 51. Pleurisy (28) .. | 110 | 28 | 29 | 8 | 5 | 2 | 4 | .. | .. | 76 |
| 52. Other Diseases of the Respiratory System (except Tuberculosis) (28) | 104, 105, 111-114 | 368 | 271 | 159 | 94 | 53 | 27 | 1 | 1 | 974 |
| 53. Ulcer of the Stomach and Duodenum (32b) .. | 117 | 216 | 166 | 89 | 63 | 42 | 17 | 2 | 4 | 599 |
| 54. Diarrhoea and Enteritis (under 2 years of age) (29a) .. | 119 | 130 | 35 | 21 | 53 | 28 | 2 | 3 | 1 | 273 |
| 55. Diarrhoea and Enteritis (2 years and over) (29b) .. | 120 | 71 | 65 | 36 | 16 | 12 | 10 | .. | 1 | 211 |
| 56. Appendicitis (50) .. | 121 | 74 | 48 | 37 | 13 | 15 | 6 | .. | .. | 193 |
| 57. Hernia, Intestinal Obstruction (32a) .. | 122 | 249 | 152 | 97 | 52 | 28 | 13 | .. | 3 | 594 |
| 58. Cirrhosis of the Liver (31a) .. | 124 | 173 | 148 | 47 | 42 | 28 | 12 | 3 | 2 | 455 |
| 59. Other Diseases of the Liver and Biliary Passages, including Biliary Calculi (31b) .. | 125-127 | 144 | 153 | 70 | 38 | 34 | 19 | 1 | 2 | 461 |
| 60. Other Diseases of the Digestive System (32b) .. | * | 159 | 98 | 55 | 31 | 25 | 10 | .. | 1 | 379 |
| 61. Nephritis (33) .. | 130-132 | 1,131 | 1,102 | 482 | 171 | 204 | 130 | 2 | 4 | 3,226 |
| 62. Other Diseases of the Kidneys and Ureters (34) .. | 133 | 98 | 76 | 40 | 19 | 12 | 6 | .. | 1 | 252 |
| 63. Calculi of the Urinary Passages (34) .. | 134 | 29 | 19 | 14 | 5 | 6 | 2 | .. | .. | 75 |
| 64. Diseases of the Urinary Bladder (34) .. | 135 | 19 | 8 | 6 | 9 | .. | .. | .. | 1 | 43 |
| 65. Diseases of the Urethra, Urinary Abscess, etc. (34) .. | 136 | 8 | 10 | 3 | 1 | 3 | 1 | .. | .. | 26 |
| 66. Diseases of the Prostate (34) .. | 137 | 175 | 226 | 102 | 58 | 40 | 26 | .. | .. | 627 |
| 67. Diseases of the Genital Organs not specified as Venereal or connected with Pregnancy, etc. (34) | 138, 139 | 23 | 16 | 6 | 5 | 10 | 2 | .. | .. | 62 |
| 68. Diseases and Accidents of Pregnancy (36) .. | 142-145 | 17 | 17 | 23 | 6 | 4 | 3 | .. | .. | 70 |
| 69. Abortion, without mention of Infection (36) .. | 141 | 2 | 3 | 3 | 1 | .. | 2 | .. | .. | 11 |
| 70. Abortion, with mention of Infection (35a) .. | 140 | 12 | 8 | 1 | 1 | 1 | .. | .. | .. | 23 |
| 71. Infection during Child-birth and the Puerperium (35) .. | 147 | 13 | 4 | 3 | 1 | 5 | .. | .. | .. | 26 |
| 72. Other Accidents and Diseases of Child-birth and the Puerperium (36) | 146, 148-150 | 36 | 11 | 12 | 11 | 3 | 3 | 2 | 1 | 79 |
| 73. Diseases of the Skin and Cellular Tissue (37) .. | 151-153 | 33 | 18 | 16 | 4 | 9 | 2 | .. | .. | 82 |
| 74. Diseases of the Bones and Organs of Locomotion (except Tuberculosis and Rheumatism) (37) | 154-156 | 25 | 18 | 11 | 5 | 5 | 2 | .. | .. | 66 |
| 75. Congenital Malformations (Stillbirths not included) (38) .. | 157 | 332 | 222 | 145 | 81 | 61 | 35 | 2 | 2 | 880 |
| 76. Congenital Debility (38) .. | 158 | 31 | 4 | 6 | 6 | 6 | 4 | .. | .. | 57 |
| 77. Premature Birth (38) .. | 159 | 634 | 326 | 239 | 149 | 98 | 53 | 6 | 10 | 1,515 |
| 78. Injury at Birth (38) .. | 160 | 270 | 132 | 127 | 43 | 67 | 23 | .. | 2 | 664 |
| 79. Other Diseases peculiar to the First Year of Life (38) | 161 | 175 | 123 | 63 | 42 | 41 | 25 | .. | 1 | 470 |
| 80. Senility (39) .. | 162 | 912 | 510 | 277 | 237 | 48 | 34 | 1 | .. | 2,019 |
| 81. Suicide (40) .. | 163, 164 | 317 | 186 | 110 | 55 | 68 | 20 | 3 | 1 | 760 |
| 82. Homicide (41) .. | 165-168 | 33 | 21 | 14 | 5 | 9 | 1 | 1 | .. | 84 |
| 83. Automobile Accidents (42) .. | 170 | 581 | 559 | 216 | 185 | 159 | 50 | 10 | 7 | 1,767 |
| 84. Other Violent or Accidental Deaths (43) .. | 169, 171-195 | 1,033 | 544 | 453 | 218 | 255 | 103 | 13 | 1 | 2,620 |
| Total, Accidents .. | .. | 1,614 | 1,103 | 669 | 403 | 414 | 153 | 23 | 8 | 4,387 |
| 85. Deaths due to Operations of War (43) .. | 196-197 | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 86. Legal Executions (43) .. | 198 | .. | .. | .. | .. | .. | .. | .. | .. | 1 |
| 87. Ill-defined or Unspecified (44) .. | 199, 200 | 98 | 38 | 28 | 21 | 3 | 4 | 4 | 5 | 201 |
| Total .. | .. | 30,965 | 22,341 | 10,399 | 6,740 | 5,058 | 2,466 | 96 | 122 | 78,187 |

* No. 60:—115, 116, 118, 123, 128, 129.

D.—CAUSES OF DEATH : PERSONS, AUSTRALIA.

ABBREVED CLASSIFICATION (BASED ON THE FIFTH REVISION OF THE INTERNATIONAL LIST).

| Cause of Death. | General Classification Numbers. | 1946. | 1947. | 1948. | 1949. | 1950. | 1950—Rate per 1,000,000 Mean Population |
|--|---------------------------------|---------------|---------------|---------------|---------------|---------------|---|
| 1. Typhoid and Paratyphoid Fevers | 1, 2 | 9 | 11 | 11 | 5 | 5 | 1 |
| 2. Plague | 3 | .. | .. | .. | .. | .. | .. |
| 3. Scarlet Fever | 3 | 7 | 9 | 6 | 3 | 3 | .. |
| 4. Whooping Cough | 9 | 74 | 75 | 65 | 73 | 34 | 4 |
| 5. Diphtheria | 10 | 119 | 88 | 80 | 76 | 53 | 6 |
| 6. Tuberculosis of the Respiratory System | 13 | 2,200 | 2,081 | 2,008 | 1,800 | 1,586 | 194 |
| 7a. Tubercular Meningitis | 14 (a) | 60 | 45 | 39 | 52 | 49 | 6 |
| 7b. Other Tuberculous Diseases | 14b-22 | 133 | 135 | 122 | 112 | 72 | 9 |
| 8. Malaria | 28 | 9 | 9 | 9 | 2 | 4 | 1 |
| 9. Syphilis | 30 | 344 | 393 | 383 | 375 | 295 | 36 |
| 10a. Influenza—Pneumonic | 33 (a) | 120 | 77 | 230 | 64 | 212 | 26 |
| 10b. Influenza—Other | 33 (b) | 91 | 74 | 149 | 55 | 107 | 13 |
| 11. Smallpox | 34 | .. | .. | .. | .. | .. | .. |
| 12. Measles | 35 | 109 | 36 | 8 | 56 | 61 | 7 |
| 13. Typhus Fever | 39 | 8 | 7 | 8 | 5 | 3 | .. |
| 14. Other Infective and Parasitic Diseases | 52 | 552 | 430 | 483 | 526 | 623 | 76 |
| 15. Cancer and other Malignant Tumours | 45-55 | 9,118 | 9,404 | 9,071 | 9,930 | 10,198 | 1,246 |
| 16. Non-malignant Tumours or Tumours of Undetermined Nature | 56, 57 | 457 | 429 | 398 | 386 | 408 | 50 |
| 17. Chronic Rheumatism and Gout | 59, 60 | 182 | 159 | 173 | 181 | 147 | 18 |
| 18. Diabetes Mellitus | 61 | 1,396 | 1,330 | 1,446 | 1,473 | 1,507 | 184 |
| 19. Chronic or Acute Alcoholism | 77 | 109 | 116 | 152 | 119 | 191 | 23 |
| 20. Avitaminoses, Other General Diseases, etc. | .. | 1,030 | 1,005 | 1,021 | 990 | 1,073 | 131 |
| 21. Non-meningococcal Meningitis and Diseases of the Spinal Cord | 81, 82 | 313 | 309 | 279 | 255 | 281 | 34 |
| 22. Intra-cranial Lesions of Vascular Origin | 83 | 7,419 | 7,515 | 8,310 | 8,611 | 8,798 | 1,075 |
| 23. Other Diseases of the Nervous System and Sense Organs | 80, 84-89 | 794 | 780 | 782 | 718 | 925 | 113 |
| 24. Diseases of the Heart | 90-95 | 23,022 | 22,884 | 24,262 | 24,118 | 25,298 | 3,091 |
| 25. Other Diseases of the Circulatory System | 96-103 | 2,095 | 2,004 | 2,060 | 1,985 | 2,220 | 271 |
| 26a. Acute Bronchitis | 106 (a)(c) | 142 | 137 | 153 | 125 | 168 | 21 |
| 26b. Chronic Bronchitis | 106 (b)(d) | 475 | 466 | 480 | 469 | 595 | 73 |
| 27. Pneumonia and Broncho-pneumonia | 107-109 | 3,800 | 3,442 | 4,030 | 3,419 | 3,350 | 409 |
| 28. Other Diseases of the Respiratory System | * | 985 | 1,064 | 1,125 | 999 | 1,050 | 128 |
| 29a. Diarrhoea and Enteritis (under two years of age) | 119 | 214 | 285 | 335 | 238 | 273 | 33 |
| 29b. Diarrhoea and Enteritis (two years and over) | 120 | 200 | 157 | 171 | 147 | 211 | 26 |
| 30. Appendicitis | 121 | 338 | 303 | 236 | 194 | 193 | 24 |
| 31a. Cirrhosis of the Liver | 124 | 288 | 340 | 395 | 404 | 455 | 56 |
| 31b. Other Diseases of the Liver and Biliary Passages | 125-127 | 440 | 451 | 451 | 410 | 461 | 56 |
| 32a. Hernia, Intestinal Obstruction | 122 | 675 | 589 | 602 | 597 | 594 | 73 |
| 32b. Other Diseases of the Digestive System | * | 891 | 927 | 982 | 1,051 | 978 | 119 |
| 33. Nephritis | 130-132 | 3,563 | 3,301 | 3,355 | 3,191 | 3,226 | 394 |
| 34. Other Diseases of the Genito-urinary System | 133-139 | 1,088 | 1,017 | 1,003 | 1,005 | 1,085 | 133 |
| 35a. Post-abortion Sepsis | 140 | 41 | 56 | 23 | 27 | 23 | 3 |
| 35b. Puerperal Infection | 147 | 55 | 41 | 38 | 24 | 26 | 3 |
| 36. Other Diseases of Pregnancy, Child-birth and the Puerperium | 141-146, 148-150 | 230 | 244 | 189 | 169 | 160 | 20 |
| 37. Diseases of the Skin, Bones, etc. | 151-156 | 153 | 138 | 122 | 151 | 148 | 18 |
| 38. Congenital Debility, Malformations, Premature Birth, etc. | 157-161 | 3,881 | 3,905 | 3,624 | 3,446 | 3,586 | 438 |
| 39. Senility | 162 | 2,558 | 2,208 | 2,349 | 2,163 | 2,019 | 247 |
| 40. Suicide | 163, 164 | 732 | 746 | 737 | 773 | 760 | 93 |
| 41. Homicide | 165-168 | 90 | 91 | 88 | 72 | 84 | 10 |
| 42. Automobile Accidents | 170 | 1,206 | 1,269 | 1,328 | 1,444 | 1,767 | 216 |
| 43. Other Accidental or Violent Deaths | 169, 171-198 | 2,603 | 2,645 | 2,611 | 2,541 | 2,621 | 320 |
| 44. Unstated or Ill-defined Causes | 199, 200 | 228 | 181 | 185 | 226 | 201 | 25 |
| Total | .. | 74,661 | 73,468 | 76,839 | 75,260 | 78,187 | 9,553 |

* No. 14:—4-7, 11, 12, 23-27, 29, 31, 32, 36-38, 40-44; No. 20:—38, 62-76, 78, 79; No. 28:—104, 103, 110-114; No. 32b:—115-118, 123, 128, 129.

NOTE.—Cause of death statistics for 1950 were compiled in accordance with the rules for selecting the underlying cause which are an integral part of the International Statistical Classification of Diseases, Injuries and Causes of Death (Sixth Revision, 1948, of the International List of Causes of Death) and were tabulated in accordance with the list of three-digit categories of that classification. For the purposes of the table above, however, the causes of death for each year 1946 to 1950 inclusive have been compiled in accordance with the rules of selection formerly in use and are presented on the basis of the Abridged Classification of the Fifth Revision, 1938, of the International List. A complete detailed classification for 1950 according to both Revisions is shown in *Demography Bulletin* No. 68.

E.—CAUSES OF DEATH: PERSONS, AUSTRALIA, NUMBER AND RATES.

ABRIDGED CLASSIFICATION (BASED ON THE FIFTH REVISION OF THE INTERNATIONAL LIST).

| Cause of Death. | General Classification Numbers. | Number of Deaths. | | | Average Annual Rate per 1,000,000 of Mean Population. | | |
|--|---------------------------------|-------------------|----------|----------|---|----------|----------|
| | | 1936-40. | 1941-45. | 1946-50. | 1936-40. | 1941-45. | 1946-50. |
| 1. Typhoid and Paratyphoid Fevers | 1, 2 | 231 | 116 | 41 | 7 | 3 | 1 |
| 2. Plague | 3 | | | | | | |
| 3. Scarlet Fever | 8 | 180 | 137 | 28 | 5 | 4 | 1 |
| 4. Whooping Cough | 9 | 927 | 766 | 371 | 27 | 21 | 8 |
| 5. Diphtheria | 10 | 1,605 | 1,186 | 416 | 47 | 33 | 11 |
| 6. Tuberculosis of the Respiratory System | 13 | 12,194 | 11,677 | 9,675 | 354 | 323 | 249 |
| 7a. Tubercular Meningitis | 14 (a) | 453 | 351 | 245 | 13 | 10 | 6 |
| 7b. Other Tuberculous Diseases | 14 (b)—22 | 883 | 864 | 574 | 26 | 24 | 15 |
| 8. Malaria | 28 | 58 | 58 | 33 | 2 | 2 | 1 |
| 9. Syphilis | 30 | 1,828 | 2,006 | 1,790 | 53 | 55 | 46 |
| 10a. Influenza—Pneumonic | 33 (a) | 1,913 | 967 | 703 | 55 | 37 | 18 |
| 10b. Influenza—Other | 33 (b) | 819 | 717 | 476 | 24 | 20 | 12 |
| 11. Smallpox | 34 | 1 | | | | | |
| 12. Measles | 35 | 390 | 407 | 342 | 11 | 11 | 9 |
| 13. Typhus Fever | 39 | 30 | 50 | 31 | 1 | 1 | 1 |
| 14. Other Infective and Parasitic Diseases | * | 2,577 | 3,387 | 2,614 | 75 | 94 | 67 |
| 15. Cancer and other Malignant Tumours | 45-55 | 39,477 | 43,347 | 48,381 | 1,145 | 1,196 | 1,245 |
| 16. Non-malignant Tumours or Tumours of Undetermined Nature | 56, 57 | 2,188 | 2,152 | 2,078 | 63 | 59 | 53 |
| 17. Chronic Rheumatism and Gout | 59, 60 | 835 | 814 | 842 | 24 | 25 | 22 |
| 18. Diabetes Mellitus | 61 | 5,953 | 6,934 | 7,152 | 173 | 192 | 184 |
| 19. Chronic or Acute Alcoholism | 77 | 331 | 390 | 687 | 10 | 11 | 18 |
| 20. Avitaminoses, Other General Diseases, etc. | * | 5,792 | 5,313 | 5,119 | 168 | 147 | 132 |
| 21. Non-meningococcal Meningitis and Diseases of the Spinal Cord | 81, 82 | 1,773 | 1,958 | 1,437 | 51 | 54 | 37 |
| 22. Intra-cranial Lesions of Vascular Origin | 83 | 26,138 | 33,574 | 40,653 | 758 | 928 | 1,046 |
| 23. Other Diseases of the Nervous System and Sense Organs | 80, 84-89 | 4,127 | 4,195 | 3,999 | 120 | 116 | 103 |
| 24. Diseases of the Heart | 90-95 | 78,670 | 103,176 | 119,584 | 2,282 | 2,852 | 3,078 |
| 25. Other Diseases of the Circulatory System | 96-103 | 10,182 | 9,643 | 10,364 | 295 | 267 | 267 |
| 26a. Acute Bronchitis | 106 (a) (c) | 921 | 892 | 725 | 27 | 25 | 19 |
| 26b. Chronic Bronchitis | 106 (b) (d) | 2,662 | 2,589 | 2,485 | 77 | 71 | 64 |
| 27. Pneumonia and Broncho-pneumonia | 107-109 | 21,125 | 19,868 | 18,041 | 613 | 540 | 464 |
| 28. Other Diseases of the Respiratory System | * | 5,021 | 5,004 | 5,223 | 146 | 138 | 134 |
| 29a. Diarrhoea and Enteritis (under two years of age) | 119 | 1,855 | 1,752 | 1,345 | 54 | 48 | 35 |
| 29b. Diarrhoea and Enteritis (two years and over) | 120 | 1,598 | 1,537 | 895 | 46 | 42 | 23 |
| 30. Appendicitis | 121 | 2,641 | 1,974 | 1,264 | 77 | 55 | 32 |
| 31a. Cirrhosis of the Liver | 124 | 1,501 | 1,415 | 1,882 | 44 | 39 | 48 |
| 31b. Other Diseases of the Liver and Biliary Passages | 125-127 | 2,388 | 2,275 | 2,213 | 69 | 63 | 57 |
| 32a. Hernia, Intestinal Obstruction | 122 | 2,911 | 3,241 | 3,057 | 84 | 96 | 79 |
| 32b. Other Diseases of the Digestive System | * | 4,896 | 4,955 | 4,829 | 142 | 137 | 124 |
| 33. Nephritis | 130-132 | 19,206 | 18,634 | 16,636 | 557 | 515 | 428 |
| 34. Other Diseases of the Genito-urinary System | 133-139 | 6,056 | 6,055 | 5,108 | 176 | 167 | 134 |
| 35a. Post-abortive Sepsis | 140 | 763 | 452 | 170 | 22 | 12 | 4 |
| 35b. Puerperal Infection | 147 | 393 | 393 | 185 | 11 | 11 | 5 |
| 36. Other Diseases of Pregnancy, Child-birth and the Puerperium | 141-146, 148-150, 151-156 | 1,671 | 1,416 | 992 | 48 | 39 | 26 |
| 37. Diseases of the Skin, Bones, etc. | 157-161 | 16,498 | 18,290 | 18,442 | 478 | 505 | 475 |
| 38. Congenital Debility, Malformations, Premature Birth, etc. | 162 | 13,757 | 13,312 | 11,302 | 399 | 368 | 291 |
| 39. Senility | 163, 164 | 3,780 | 2,841 | 3,748 | 110 | 79 | 96 |
| 40. Suicide | 165-168 | 459 | 473 | 425 | 13 | 11 | 11 |
| 41. Homicide | 169 | 6,862 | 4,384 | 7,014 | 199 | 121 | 181 |
| 42. Automobile Accidents | 170 | 12,998 | 12,475 | 13,026 | 377 | 345 | 335 |
| 43. Other Accidental or Violent Deaths | 171-198 | 169 | | | | | |
| 44. Unstated or Ill-defined Causes | 199, 200 | 1,224 | 1,184 | 1,021 | 35 | 33 | 26 |
| Total | .. | 332,410 | 360,680 | 378,415 | 9,641 | 9,970 | 9,739 |

* No. 14:—4-7, 11, 12, 23-27, 29, 31, 32, 36-38, 40-44; No. 20:—58, 62-76, 78, 79; No. 28:—104, 105, 110-114; No. 32b:—113-118, 123, 128, 129.

NOTE.—Cause of death statistics for 1950 were compiled in accordance with the rules for selecting the underlying cause which are an integral part of the International Statistical Classification of Diseases, Injuries and Causes of Death (Sixth Revision, 1948, of the International List of Causes of Death) and were tabulated in accordance with the list of three-digit categories of that Classification. For the purposes of the table above, however, the causes of death for all years including 1950 have been compiled in accordance with the rules of selection formerly in use and are presented on the basis of the Abridged Classification of the Fifth Revision, 1938, of the International List. A complete detailed classification for 1950 according to both Revisions is shown in *Demography Bulletin* No. 68.

16. Deaths from Principal Causes.—(i) *General*. In the preceding tables particulars have been given for each of the causes of death comprising the Intermediate and the Abridged Classifications according to the Fifth Revision of the International List. The more important of these causes are treated in detail hereunder. Comparison is made in total between the figures for 1950 on the basis of the Fifth and Sixth Revisions of the International List, but in the detailed dissections the 1950 figures are those compiled according to the Sixth Revision. The 1938 Intermediate Classification number used in tables A, B and C is indicated in parentheses for each cause or group of causes.

(ii) *All Forms of Tuberculosis* (6, 7). (a) *General*. The total number of deaths classified to all forms of tuberculosis in 1950 in accordance with the methods used in conjunction with the Fifth and Sixth Revisions of the International List were as follows :—

| Basis of Classification. | | | | Males. | Females. | Persons. |
|----------------------------|----|----|----|--------|----------|----------|
| Fifth Revision | .. | .. | .. | 1,192 | 515 | 1,707 |
| Sixth Revision | .. | .. | .. | 1,172 | 503 | 1,675 |
| Difference due to revision | | | | (-) 20 | (-) 12 | (-) 32 |

This difference is due to the fact that the former rules of selection gave a degree of preference to tuberculosis when in association with other causes which was not always in accord with the certifying medical practitioners' statement of the underlying cause. This experience is consistent with that in other countries. The figures represent a ratio of 0.98 for deaths classified by the Sixth Revision to those classified by the Fifth Revision.

(b) *Age at Death*. The following table shows the age-groups of males, females and persons who were classified under the Sixth Revision as dying from this disease in 1950, together with figures for 1921, 1931 and 1941, classified under former Revisions.

TUBERCULOSIS (ALL FORMS) : DEATHS IN AGE-GROUPS, AUSTRALIA.

| Age-group (Years). | 1921. | | | 1931. | | | 1941. | | | 1950. | | |
|-----------------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| | Males. | Fe- males. | Per- sons. | Males. | Fe- males. | Per- sons. | Males. | Fe- males. | Per- sons. | Males. | Fe- males. | Per- sons. |
| Under 5 | 90 | 76 | 166 | 57 | 47 | 104 | 42 | 28 | 70 | 16 | 19 | 35 |
| 5-9 | 39 | 28 | 58 | 14 | 14 | 28 | 12 | 10 | 22 | 6 | 6 | 12 |
| 10-14 | 23 | 24 | 47 | 19 | 20 | 39 | 9 | 16 | 25 | 5 | 4 | 9 |
| 15-19 | 72 | 100 | 172 | 45 | 105 | 150 | 30 | 52 | 82 | 9 | 17 | 26 |
| 20-24 | 173 | 194 | 367 | 113 | 183 | 296 | 60 | 91 | 160 | 12 | 34 | 46 |
| 25-29 | 232 | 246 | 478 | 136 | 199 | 335 | 63 | 132 | 195 | 29 | 54 | 83 |
| 30-34 | 237 | 195 | 432 | 191 | 164 | 355 | 125 | 139 | 254 | 43 | 52 | 95 |
| 35-39 | 247 | 178 | 425 | 187 | 156 | 343 | 144 | 111 | 255 | 73 | 61 | 134 |
| 40-44 | 234 | 141 | 375 | 207 | 102 | 309 | 150 | 79 | 238 | 86 | 44 | 130 |
| 45-49 | 223 | 102 | 325 | 197 | 83 | 280 | 180 | 76 | 256 | 116 | 41 | 157 |
| 50-54 | 179 | 69 | 248 | 185 | 62 | 247 | 216 | 64 | 280 | 140 | 21 | 161 |
| 55-59 | 172 | 65 | 237 | 164 | 57 | 221 | 210 | 52 | 262 | 150 | 35 | 185 |
| 60-64 | 118 | 42 | 160 | 128 | 50 | 178 | 187 | 59 | 246 | 154 | 43 | 197 |
| 65-69 | 79 | 32 | 111 | 110 | 38 | 148 | 137 | 39 | 176 | 144 | 23 | 167 |
| 70-74 | 35 | 10 | 45 | 52 | 31 | 83 | 74 | 41 | 115 | 111 | 24 | 135 |
| 75-79 | 18 | 7 | 25 | 27 | 16 | 43 | 48 | 18 | 66 | 54 | 12 | 66 |
| 80 and over | 6 | 7 | 13 | 4 | 4 | 8 | 20 | 12 | 32 | 24 | 13 | 37 |
| Not stated | 3 | .. | 3 | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total | 2,171 | 1,516 | 3,687 | 1,836 | 1,331 | 3,167 | 1,725 | 1,009 | 2,734 | 1,172 | 503 | 1,675 |

(c) *Occupation at Death, Males*. A summary of the main groups of occupations of males who died from tuberculosis during 1950 is given in *Demography Bulletin* No. 68.

(d) *Length of Residence in Australia*. The length of residence in Australia of persons who died from tuberculosis in 1950 (Sixth Revision figures) is given in the next table. Corresponding figures for 1949 (Fifth Revision figures) may be obtained from *Demography Bulletin* No. 67.

**LENGTH OF RESIDENCE IN AUSTRALIA OF PERSONS WHO DIED FROM
TUBERCULOSIS (ALL FORMS), 1950.**

| Length of Residence in Australia. | Males. | Fe-males. | Per-sons. | Length of Residence in Australia. | Males. | Fe-males. | Per-sons. |
|-----------------------------------|--------|-----------|-----------|-----------------------------------|--------|-----------|-----------|
| Born in Australia .. | 913 | 437 | 1,350 | Resident 10-14 years .. | 10 | 3 | 13 |
| Resident under 1 year .. | 6 | 6 | 12 | " 15-19 " .. | 5 | 4 | 9 |
| " 1 year .. | 4 | 5 | 9 | " 20 years & over .. | 157 | 37 | 194 |
| " 2 years .. | 5 | 1 | 6 | Length of residence not stated | 63 | 6 | 69 |
| " 3 " .. | 4 | 1 | 5 | | | | |
| " 4 " .. | 1 | 2 | 3 | | | | |
| " 5-9 years .. | 4 | 1 | 5 | Total Deaths .. | 1,172 | 503 | 1,675 |

(e) *Death-rates.* In order to show the relative incidence of tuberculosis in each State and Territory and the improvement which has taken place in recent years, the death-rates from tubercular diseases for 1931, 1941 and 1950 are given in the following table. The rates for 1950 are based on the causes of death compiled according to the Sixth Revision. Corresponding figures for 1949 (on the basis of the Fifth Revision) may be obtained from *Demography Bulletin* No. 67.

TUBERCULOSIS (ALL FORMS) : DEATH-RATES.(a)

| State or Territory. | 1931. | | | 1941. | | | 1950. | | |
|---------------------------------|--------|----------|----------|--------|----------|----------|--------|----------|----------|
| | Males. | Females. | Persons. | Males. | Females. | Persons. | Males. | Females. | Persons. |
| New South Wales | 53 | 37 | 45 | 47 | 24 | 36 | 30 | 12 | 21 |
| Victoria .. | 59 | 51 | 55 | 54 | 37 | 45 | 27 | 12 | 20 |
| Queensland .. | 45 | 28 | 37 | 40 | 20 | 30 | 30 | 9 | 20 |
| South Australia .. | 58 | 56 | 57 | 40 | 34 | 37 | 25 | 13 | 19 |
| Western Australia | 74 | 40 | 58 | 60 | 25 | 44 | 31 | 14 | 23 |
| Tasmania .. | 61 | 51 | 56 | 48 | 44 | 46 | 19 | 32 | 25 |
| Northern Territory | 69 | .. | 44 | 27 | 35 | 29 | 21 | 36 | 27 |
| Australian Capital Territory .. | 21 | 25 | 23 | .. | 15 | 7 | .. | 10 | 4 |
| Australia .. | 55 | 42 | 49 | 48 | 29 | 38 | 28 | 12 | 20 |

(a) Number of deaths from tuberculosis per 100,000 of mean population.

(f) *Proportion of Total Deaths.* The following table shows the number of deaths from tuberculosis per 10,000 deaths from all causes in each State and Territory during 1911-20, 1921-30, 1931-40 and 1941-50. Figures have been compiled on a uniform basis for each decennium.

TUBERCULOSIS (ALL FORMS) : PROPORTION PER 10,000 TOTAL DEATHS.

| State or Territory. | 1911-20. | | | 1921-30. | | | 1931-40. | | | 1941-50. | | |
|---------------------|----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|
| | Males. | Fe-males. | Per-sons. | Males. | Fe-males. | Per-sons. | Males. | Fe-males. | Per-sons. | Males. | Fe-males. | Per-sons. |
| N.S. Wales .. | 670 | 625 | 651 | 599 | 536 | 572 | 476 | 378 | 434 | 364 | 234 | 307 |
| Victoria .. | 718 | 754 | 735 | 695 | 663 | 680 | 485 | 448 | 468 | 385 | 267 | 329 |
| Queensland .. | 559 | 480 | 529 | 516 | 406 | 472 | 413 | 323 | 377 | 365 | 196 | 296 |
| South Australia | 757 | 889 | 816 | 713 | 758 | 733 | 498 | 482 | 491 | 333 | 259 | 294 |
| Western Aust. | 895 | 728 | 835 | 869 | 643 | 786 | 598 | 401 | 523 | 420 | 214 | 336 |
| Tasmania .. | 646 | 757 | 697 | 640 | 749 | 691 | 537 | 548 | 542 | 417 | 420 | 418 |
| Northern Terr. | 1,441 | 745 | 1,357 | 1,170 | 685 | 1,115 | 272 | 541 | 314 | 276 | 579 | 328 |
| Aust. Cap. Terr. | 323 | 417 | 364 | 116 | 349 | 194 | 217 | 419 | 293 | 259 | 273 | 264 |
| Australia .. | 691 | 684 | 688 | 644 | 594 | 622 | 482 | 410 | 450 | 373 | 247 | 316 |

(g) *Death-rates, Various Countries.* The following table shows the death-rates from tuberculosis for Australia and each State in comparison with the rates for various other countries. In order that the rates may be presented uniformly on the basis of the Fifth Revision of the International List, the figures have been restricted to the latest available year on that basis up to and including 1949. The table indicates that Australia occupies a very favourable position as regards the death-rate from this disease.

TUBERCULOSIS : DEATH-RATES (a), VARIOUS COUNTRIES.

| Country. | Year. | Respiratory System. | All Forms. | Country. | Year. | Respiratory System. | All Forms. |
|------------------------------------|-------|---------------------|------------|-------------------------|-------|---------------------|------------|
| Denmark .. | 1949 | 16 | 19 | <i>Northern Ireland</i> | 1949 | 47 | 58 |
| Netherlands .. | 1949 | 18 | 24 | <i>Scotland</i> .. | 1949 | 59 | 67 |
| Australia(b) .. | 1949 | 23 | 25 | Belgium .. | 1949 | 36 | 49 |
| <i>South Australia(b)</i> | 1949 | 18 | 21 | Italy .. | 1949 | 37 | 49 |
| <i>Queensland(b)</i> .. | 1949 | 20 | 22 | Western Germany .. | 1949 | 42 | 50 |
| <i>Western Australia(b)</i> | 1949 | 23 | 24 | Sweden .. | 1947 | 44 | 52 |
| <i>New South Wales(b)</i> | 1949 | 23 | 25 | Norway .. | 1948 | 43 | 52 |
| <i>Victoria(b)</i> .. | 1949 | 25 | 27 | Egypt .. | 1949 | (e) | 55 |
| <i>Tasmania(b)</i> .. | 1949 | 24 | 28 | Ceylon .. | 1949 | 53 | 56 |
| New Zealand(c) .. | 1949 | 21 | 25 | France .. | 1949 | 56 | 68 |
| U.S. of America .. | 1949 | 24 | 26 | Eire .. | 1949 | 72 | 91 |
| Union of South Africa(d) .. | 1947 | 26 | 31 | Czechoslovakia .. | 1947 | (e) | 96 |
| Canada .. | 1949 | 27 | 32 | Hungary .. | 1947 | (e) | 106 |
| Switzerland .. | 1949 | 32 | 42 | Spain .. | 1948 | 91 | 114 |
| Great Britain and Northern Ireland | 1949 | 42 | 48 | Finland .. | 1949 | 111 | 130 |
| <i>England and Wales</i> .. | 1949 | 40 | 46 | Portugal .. | 1949 | 126 | 151 |
| | | | | Japan .. | 1949 | 141 | 168 |

(a) Number of deaths per 100,000 of mean population. (b) Excludes full-blood aborigines.
(c) Excludes Maoris. (d) European population only. (e) Not available.

(iii) *Malignant Neoplasms, including Neoplasms of Lymphatic and Haematopoietic Tissues.* (a) *General.* Deaths classified under this heading in 1950 according to the Sixth Revision are not directly comparable with those classified according to the Fifth Revision, as deaths from Lymphogranulomatosis (Hodgkin's Disease) and Leukaemia and Aleukaemia, which are now embraced within the group of Neoplasms of the Lymphatic and Haematopoietic Tissues, were not formerly included with Neoplasms. Comparison on the adjusted basis is as follows :—

| Category Numbers. | | Cause of Death. | Basis of Classification. | | | | | | Comparability Ratio. |
|-------------------|-----------------|--|--------------------------|-------|--------|-----------------|-------|--------|----------------------|
| Fifth Revision. | Sixth Revision. | | Fifth Revision. | | | Sixth Revision. | | | |
| | | | M. | F. | P. | M. | F. | P. | |
| 45-55 | .. | Cancer and other Malignant Tumours .. | 5,214 | 4,984 | 10,198 | .. | .. | .. | (a) |
| 44 (b) | 201 | Lymphogranulomatosis (Hodgkin's Disease) .. | 51 | 39 | 90 | 55 | 42 | 97 | 1.08 |
| 74 | 204 | Leukaemia and Aleukaemia .. | 214 | 162 | 376 | 209 | 160 | 369 | 0.98 |
| .. | 140-205 | Malignant Neoplasms and Neoplasms of the Lymphatic and Haematopoietic Tissues .. | 5,479 | 5,185 | 10,664 | 5,355 | 5,075 | 10,430 | 0.98 |

(a) The comparability ratio of the Sixth Revision group 140-205 to the Fifth Revision group 45-55 is 1.02.
NOTE.—Figures in italics are inserted for purposes of comparison, not for adjustment.

The smaller total on the Sixth Revision basis is due to the exclusion of Neoplasms stated by the medical practitioner to be a contributory cause of death only. Former rules selected some of these as the cause of death to be tabulated.

(b) *Type and Seat of Disease.* Tables showing the type and seat of diseases, in conjunction with age and conjugal condition of the persons dying from malignant neoplasms in 1949 and 1950 will be found in *Demography Bulletins* Nos. 67 and 68. A summary regarding type and seats of disease for 1950 (Sixth Revision basis) is given below. It may be pointed out that the significance of the number of deaths shown for the various types of neoplasms enumerated hereunder is doubtful, owing to the fact that, in the absence of a post-mortem, it is impracticable for the certifying doctor in the majority of cases to make an accurate diagnosis as to type in the detail required for the following classification.

DEATHS FROM MALIGNANT NEOPLASMS AND NEOPLASMS OF LYMPHATIC AND HAEMATOPHOETIC TISSUES : TYPE AND SEAT OF DISEASE, AUSTRALIA, 1950.

| Type of Disease. | Males. | Females. | Persons. | Seat of Disease. | Males. | Females. | Persons. |
|---|--------------|--------------|---------------|---|--------------|--------------|---------------|
| Malignant Neoplasms— | | | | Malignant Neoplasms— | | | |
| Cancer and Carcinoma (other than skin) .. | 4,486 | 4,427 | 8,913 | Buccal Cavity and Pharynx | 216 | 65 | 281 |
| Skin Cancer | 95 | 62 | 157 | Digestive Organs and Peritoneum— | | | |
| Sarcoma and Myeloid Sarcoma | 106 | 89 | 195 | Oesophagus | 157 | 72 | 229 |
| Myeloma | 1 | .. | 1 | Stomach | 1,155 | 707 | 1,862 |
| Glioma | 47 | 19 | 66 | Small Intestine .. | 20 | 20 | 40 |
| Endothelioma | 4 | 1 | 5 | Large Intestine .. | 569 | 737 | 1,306 |
| Melanoma and Melanotic Sarcoma | 68 | 46 | 114 | Other | 689 | 631 | 1,320 |
| Hypernephroma | 22 | 14 | 36 | Respiratory System .. | 748 | 168 | 916 |
| Teratoma | 8 | .. | 8 | Breast | 6 | 966 | 972 |
| Malignant Disease and Malignant Tumor n.o.s. | 136 | 148 | 284 | Uterus | .. | 551 | 551 |
| | | | | Other Female Genital Organs | .. | 327 | 327 |
| Total, Malignant Neoplasms .. | 4,973 | 4,806 | 9,779 | Male Genital Organs .. | 646 | .. | 646 |
| | | | | Urinary Organs | 271 | 154 | 425 |
| Neoplasms of Lymphatic and Haematopoietic Tissues— | | | | Skin | 168 | 93 | 261 |
| Lymphosarcoma and Reticulosarcoma .. | 91 | 48 | 139 | Other and Unspecified Organs | 328 | 315 | 643 |
| Hodgkin's Disease .. | 55 | 42 | 97 | Total, Malignant Neoplasms .. | 4,973 | 4,806 | 9,779 |
| Other forms of Lymphoma (Reticulosis) .. | 10 | 7 | 17 | Neoplasms of Lymphatic and Haematopoietic Tissues .. | 382 | 269 | 651 |
| Multiple Myeloma (Plasmocytoma) .. | 17 | 12 | 29 | | | | |
| Leukaemia and Aleukaemia | 209 | 160 | 369 | | | | |
| Mycosis Fungoides .. | .. | .. | .. | | | | |
| Total, Neoplasms of Lymphatic, etc., Tissues .. | 382 | 269 | 651 | | | | |
| Grand Total .. | 5,355 | 5,075 | 10,430 | Grand Total .. | 5,355 | 5,075 | 10,430 |

(c) *Age at Death.* The ages of persons who died from malignant neoplasms in 1921, 1931, 1941 and 1950 are given below. Inferences drawn from the great increase in the number of deaths from malignant neoplasms in 1950 compared with 1921 need qualification in view of the altered age constitution of the population since the earlier year. The number of people over 55 years of age, at which level cancer risks are greatest, more than doubled between 1921 and 1950, whilst those in the age-group 75 years and over more than trebled. It is only in this extreme old age-group from 75 onwards that the rate of mortality, as distinct from the number of deaths, has increased. For groups up to age 75 there has been no increase in mortality rates since 1921; indeed, in some age-groups the rates have actually declined. It is also probable that a proportion of the increased number of deaths from cancer recorded in recent years has been due to more correct diagnosis and certification on the part of medical practitioners rather than to any actual increase in the disease itself.

MALIGNANT NEOPLASMS : NUMBER OF DEATHS IN AGE-GROUPS, AUSTRALIA.

| Age-group (Years). | 1921. | | | 1931. | | | 1941. | | | 1950. | | |
|-----------------------|--------------|---------------|---------------|--------------|---------------|---------------|--------------|---------------|---------------|--------------|---------------|---------------|
| | Males. | Fe- males. | Per- sons. | Males. | Fe- males. | Per- sons. | Males. | Fe- males. | Per- sons. | Males. | Fe- males. | Per- sons. |
| Under 15 .. | 26 | 23 | 49 | 25 | 23 | 48 | 21 | 25 | 46 | 92 | 53 | 145 |
| 15-19 .. | 8 | 11 | 19 | 12 | 11 | 23 | 10 | 10 | 20 | 22 | 17 | 39 |
| 20-24 .. | 6 | 7 | 13 | 12 | 14 | 26 | 15 | 13 | 28 | 34 | 22 | 56 |
| 25-29 .. | 15 | 19 | 34 | 19 | 13 | 32 | 24 | 22 | 46 | 39 | 36 | 75 |
| 30-34 .. | 26 | 45 | 71 | 26 | 55 | 81 | 28 | 45 | 73 | 58 | 61 | 119 |
| 35-39 .. | 56 | 81 | 137 | 59 | 98 | 157 | 56 | 106 | 162 | 69 | 121 | 190 |
| 40-44 .. | 81 | 140 | 221 | 111 | 173 | 284 | 92 | 193 | 285 | 122 | 231 | 353 |
| 45-49 .. | 147 | 207 | 354 | 149 | 261 | 410 | 149 | 282 | 431 | 198 | 268 | 466 |
| 50-54 .. | 240 | 263 | 503 | 261 | 287 | 548 | 316 | 403 | 719 | 354 | 401 | 755 |
| 55-59 .. | 358 | 308 | 666 | 349 | 344 | 693 | 425 | 435 | 860 | 548 | 538 | 1,086 |
| 60-64 .. | 442 | 349 | 791 | 519 | 400 | 919 | 558 | 491 | 1,049 | 746 | 633 | 1,379 |
| 65-69 .. | 380 | 285 | 665 | 662 | 478 | 1,140 | 670 | 558 | 1,228 | 803 | 749 | 1,612 |
| 70-74 .. | 312 | 234 | 546 | 609 | 410 | 1,019 | 753 | 623 | 1,376 | 814 | 666 | 1,480 |
| 75-79 .. | 212 | 215 | 427 | 397 | 294 | 691 | 676 | 512 | 1,188 | 701 | 565 | 1,266 |
| 80-84 .. | 83 | 89 | 172 | 187 | 152 | 339 | 331 | 330 | 661 | 455 | 423 | 878 |
| 85 and over .. | 45 | 52 | 97 | 87 | 92 | 179 | 131 | 175 | 306 | 239 | 291 | 530 |
| Not stated .. | 3 | .. | 3 | .. | .. | .. | .. | .. | .. | 1 | .. | 1 |
| Total .. | 2,440 | 2,328 | 4,768 | 3,484 | 3,105 | 6,589 | 4,255 | 4,223 | 8,478 | 5,355 | 5,075 | 10,430 |

(d) *Occupation at Death, Males.* A table showing main groups of occupations of males who died from malignant neoplasms and neoplasms of lymphatic and haematopoietic tissues during 1950 appears in *Demography Bulletin* No. 68.

(e) *Death-rates.* The following table shows the death-rates per 100,000 of mean population from malignant neoplasms in each State for 1931, 1941 and 1950. These rates are crude death rates which do not take account of changes in the age constitution of the population, and to a substantial extent reflect the increasing age of the population rather than the true change in death rate from malignant neoplasms (see para. (c) page 629.) Corresponding figures for 1949 may be obtained from *Demography Bulletin* No. 67.

MALIGNANT NEOPLASMS : DEATH-RATES.(a)

| State or Territory. | 1931. | | | 1941. | | | 1950. | | |
|---------------------------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| | Males. | Females. | Persons. | Males. | Females. | Persons. | Males. | Females. | Persons. |
| New South Wales .. | 99 | 95 | 97 | 116 | 107 | 112 | 127 | 120 | 124 |
| Victoria .. | 111 | 106 | 109 | 132 | 145 | 138 | 142 | 149 | 146 |
| Queensland .. | 105 | 77 | 92 | 100 | 97 | 99 | 125 | 104 | 114 |
| South Australia .. | 112 | 124 | 118 | 112 | 140 | 126 | 129 | 123 | 126 |
| Western Australia .. | 110 | 81 | 97 | 135 | 110 | 123 | 128 | 110 | 119 |
| Tasmania .. | 100 | 100 | 100 | 125 | 127 | 126 | 110 | 119 | 114 |
| Northern Territory .. | 69 | 119 | 87 | 54 | 35 | 49 | 21 | 18 | 20 |
| Australian Capital Territory .. | 21 | 51 | 35 | 25 | 61 | 41 | 23 | 116 | 64 |
| Australia .. | 105 | 97 | 101 | 119 | 120 | 119 | 130 | 125 | 127 |

(a) Number of deaths from malignant neoplasms per 100,000 of mean population.

(f) *Proportion of Total Deaths.* While the death-rate from all causes has diminished substantially in recent years, the rate from malignant neoplasms has risen almost continuously, the result being that out of 10,000 deaths from all causes, 1,334 were due to malignant neoplasms in 1950 compared with 735 per 10,000 total deaths during the period 1911-20. The following table shows the proportions recorded in each State and Territory for 1911-20, 1921-30, 1931-40 and 1941-50. Figures have been compiled on a uniform basis throughout each decennium.

MALIGNANT NEOPLASMS : PROPORTION PER 10,000 TOTAL DEATHS.

| State or Territory. | 1911-20. | | | 1921-30. | | | 1931-40. | | | 1941-50(a) | | |
|---------------------|----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|------------|-----------|-----------|
| | Males. | Fe-males. | Per-sons. | Males. | Fe-males. | Per-sons. | Males. | Fe-males. | Per-sons. | Males. | Fe-males. | Per-sons. |
| N.S. Wales .. | 674 | 806 | 729 | 900 | 1,070 | 973 | 1,060 | 1,271 | 1,152 | 1,089 | 1,357 | 1,207 |
| Victoria .. | 681 | 870 | 767 | 943 | 1,145 | 1,037 | 1,115 | 1,353 | 1,226 | 1,199 | 1,460 | 1,323 |
| Queensland .. | 611 | 741 | 661 | 866 | 1,009 | 922 | 1,066 | 1,138 | 1,095 | 1,064 | 1,285 | 1,156 |
| South Australia | 736 | 876 | 800 | 1,021 | 1,137 | 1,074 | 1,207 | 1,441 | 1,315 | 1,159 | 1,416 | 1,278 |
| Western Aust. | 612 | 802 | 680 | 873 | 1,112 | 961 | 1,098 | 1,241 | 1,152 | 1,172 | 1,366 | 1,251 |
| Tasmania .. | 664 | 836 | 743 | 842 | 1,014 | 922 | 1,040 | 1,252 | 1,136 | 1,059 | 1,331 | 1,185 |
| Northern Terr. | 335 | 426 | 346 | 621 | 137 | 365 | 645 | 811 | 671 | 379 | 331 | 371 |
| Aust. Cap. Terr. | 806 | 625 | 727 | 233 | 349 | 271 | 544 | 898 | 677 | 924 | 1,606 | 1,183 |
| Australia .. | 667 | 826 | 735 | 912 | 1,091 | 990 | 1,089 | 1,292 | 1,178 | 1,125 | 1,384 | 1,241 |

(a) 1950 figures used in this table are those compiled according to the Fifth Revision.

(g) *Death-rates, Various Countries.* The following table shows the death-rates from malignant neoplasms for Australia and each State in comparison with the rates for various other countries. In order that the rates may be presented uniformly on the basis of the Fifth Revision of the International List, the figures have been restricted to the latest available year on that basis up to and including 1949.

MALIGNANT NEOPLASMS : DEATH-RATES(a), VARIOUS COUNTRIES.

| Country. | Year. | Rate. | Country. | Year. | Rate. |
|------------------------------|-------------|------------|---------------------|-------|-------|
| Ceylon | 1949 | 15 | Eire | 1949 | 139 |
| Portugal | 1949 | 53 | New Zealand(d) .. | 1949 | 140 |
| Japan | 1949 | 72 | Netherlands | 1949 | 141 |
| Spain | 1948 | 72 | Sweden | 1947 | 141 |
| Italy | 1949 | 103 | Norway | 1948 | 144 |
| Union of South Africa(b) | 1947 | 108 | Belgium | 1949 | 146 |
| Canada | 1949 | 124 | Denmark | 1949 | 157 |
| Finland | 1949 | 126 | Western Germany .. | 1949 | 160 |
| Australia (c) .. | 1949 | 126 | Switzerland | 1949 | 162 |
| <i>Queensland (c) ..</i> | 1949 | 108 | France | 1949 | 169 |
| <i>Tasmania (c) ..</i> | 1949 | 111 | Great Britain and | | |
| <i>New South Wales (c)</i> | 1949 | 121 | Northern Ireland .. | 1949 | 184 |
| <i>Western Australia (c)</i> | 1949 | 123 | Northern Ireland .. | 1949 | 143 |
| <i>South Australia (c)</i> | 1949 | 125 | Scotland | 1949 | 185 |
| <i>Victoria (c) ..</i> | 1949 | 146 | England and Wales | 1949 | 187 |
| U.S. of America .. | 1949 | 139 | | | |

(a) Number of deaths per 100,000 of mean population.

(b) European population only.

(c) Excludes full-blood aboriginals.

(d) Excludes Maoris.

(h) *Comparison with Tuberculosis.* In recent years the death-rate from tuberculosis has shown a tendency to decrease, while that from malignant neoplasms has displayed an almost continuous increase. The table hereunder shows that for each of the periods under review the decline in the death-rate from tuberculosis has been accompanied by an almost equal increase in the rate for malignant neoplasms. Thus, in the fifty years comprised in the five-yearly averages shown below, the death-rate for tuberculosis declined by 62, while the rate for malignant neoplasms increased by 62 per 100,000 persons. This equal but opposite tendency may be demonstrated by stating that the death-rate from tuberculosis and malignant neoplasms, combined, remained almost constant in each period, the figures being:—1901-05, 152 deaths per 100,000 persons; 1906-10, 145; 1911-15, 152; 1916-20, 154; 1921-25, 153; 1926-30, 152; 1931-35, 150; 1936-40, 154; 1941-45, 156; 1946-50, 152; and 1950, 146.

TUBERCULOSIS AND MALIGNANT NEOPLASMS : DEATH-RATES(a), AUSTRALIA.

| Period. | Death-rate from Tuberculosis. | | | Death-rate from Malignant Neoplasms. | | |
|------------|-------------------------------|----------|----------|--------------------------------------|----------|----------|
| | Males. | Females. | Persons. | Males. | Females. | Persons. |
| 1901-05 .. | 100 | 77 | 89 | 64 | 61 | 63 |
| 1906-10 .. | 81 | 69 | 75 | 71 | 70 | 70 |
| 1911-15 .. | 84 | 69 | 77 | 75 | 74 | 75 |
| 1916-20 .. | 84 | 59 | 71 | 86 | 80 | 83 |
| 1921-25 .. | 71 | 52 | 62 | 93 | 88 | 91 |
| 1926-30 .. | 64 | 49 | 57 | 97 | 94 | 95 |
| 1931-35 .. | 52 | 37 | 45 | 108 | 102 | 105 |
| 1936-40 .. | 47 | 31 | 39 | 116 | 113 | 115 |
| 1941-45 .. | 45 | 26 | 36 | 118 | 131 | 120 |
| 1946-50 .. | 36 | 18 | 27 | 126 | 124 | 125 |
| 1950.. .. | 28 | 12 | 20 | 130 | 125 | 126 |

(a) Number of deaths per 100,000 of mean population.

(iv) *Diseases of the Heart* (42 to 46). The number of deaths classified to diseases of the heart for 1950 on the basis of the Fifth Revision, compared with the classification on the basis of the Sixth Revision, is as follows :—

| Basis of Classification. | Males. | Females. | Persons. |
|--|---------|----------|----------|
| Fifth Revision (Categories 90-95) .. | 15,005 | 10,293 | 25,298 |
| Sixth Revision (Categories 410-443) .. | 14,687 | 10,256 | 24,943 |
| Difference due to Revision | (-) 318 | (-) 37 | (-) 355 |

These figures represent a ratio of 0.99 for deaths classified by the Sixth Revision to those classified by the Fifth Revision.

Details for each individual category within the groups above may be obtained from *Demography Bulletin* No. 68. The sex and territorial distribution of the deaths (Sixth Revision basis) will be found in the table below. This class is the largest among causes of death, the death-rate having grown from 1,019 per million in 1911-15 to 2,705 in 1939-43 and 3,048 in 1950. The increase in the number of deaths recorded from heart diseases has been particularly pronounced during the past sixteen years. The rapid increase in mortality is partly a reflection of the ageing of the population, but the figures have been influenced mainly by improved diagnosis and certification by medical practitioners. Many deaths of elderly people, formerly attributed to senility or other indefinite causes, are believed to be now more frequently certified as associated with some form of heart disease, usually myocardial degeneration. The improvement in diagnosis has been particularly evident in the case of diseases of the coronary arteries. When first listed in the heart disease group in 1931, there were 1,139 deaths from this cause and angina pectoris, but in 1950 the number on a comparable basis (Fifth Revision) was 9,027. The number of deaths classified under The Sixth Revision as due to diseases of the heart, together with death-rates and proportions per 10,000 deaths in 1950, are given in the following table. Corresponding figures for 1949 (Fifth Revision) may be obtained from *Demography Bulletin* No. 67.

**DISEASES OF THE HEART: DEATHS, DEATH-RATES AND PROPORTION
PER 10,000 TOTAL DEATHS, 1950.**

| State or Territory. | Number of Deaths. | | | Death-rates.(a) | | | Proportion per 10,000 Total Deaths. | | |
|------------------------------------|-------------------|---------------|---------------|-----------------|------------|------------|--|--------------|--------------|
| | Males. | Females. | Persons. | Males. | Females. | Persons. | Males. | Females. | Persons. |
| New South Wales | 6,239 | 4,081 | 10,320 | 385 | 254 | 320 | 3,552 | 3,046 | 3,333 |
| Victoria .. | 3,968 | 3,178 | 7,146 | 361 | 288 | 324 | 3,368 | 3,009 | 3,199 |
| Queensland .. | 1,869 | 1,167 | 3,036 | 310 | 203 | 258 | 3,034 | 2,753 | 2,920 |
| South Australia .. | 1,247 | 915 | 2,162 | 357 | 261 | 309 | 3,351 | 3,031 | 3,208 |
| Western Australia | 916 | 604 | 1,520 | 319 | 222 | 272 | 3,031 | 2,967 | 3,005 |
| Tasmania .. | 409 | 300 | 709 | 283 | 218 | 251 | 3,103 | 2,613 | 2,875 |
| Northern Territory | 19 | .. | 19 | 202 | .. | 127 | 2,289 | .. | 1,979 |
| Australian Capital Territory .. | 20 | 11 | 31 | 151 | 106 | 131 | 2,857 | 2,115 | 2,541 |
| Australia .. | 14,687 | 10,256 | 24,943 | 356 | 253 | 305 | 3,359 | 2,976 | 3,190 |

(a) Number of deaths from diseases of the heart per 100,000 of mean population.

(v) *Diarrhoea and Enteritis (Children under two years of age)* (54). The number of deaths due to this cause at ages under two years in 1950 classified according to the Fifth and Sixth Revisions of the International List was as follows:—

| Basis of Classification. | Males. | Females. | Persons. |
|---|--------|----------|----------|
| Fifth Revision (Category 119) | 156 | 117 | 273 |
| Sixth Revision (Categories, 571, 572, 764) .. | 135 | 102 | 237 |
| Difference due to Revision | (-) 21 | (-) 15 | (-) 36 |

The ratio of comparison of Sixth Revision to Fifth Revision figures for this cause of death in children under two years of age is 0.87.

The detailed inclusions in categories 571, 572 and 764 are more embracing than those of the former category 119, but it is unlikely that these would materially affect children under two years of age. The difference, therefore, is almost entirely due to the rules of preference formerly in use giving preference to diarrhoea and enteritis when this cause was not the true underlying cause of death.

The number of deaths under 2 years of age due to diarrhoea and enteritis, the death-rates, and proportions per 10,000 deaths for 1911-15, 1921-25, 1931-35, 1936-40, 1941-45, 1946-50 and 1950 are given in the following table. In order to complete the five-yearly period 1946-50 on a uniform basis, the figures for 1950 used in this table are those tabulated according to the Fifth Revision. Details for the Northern Territory and Australian Capital Territory have been omitted as limited experience makes death-rates from these causes of little significance. Corresponding figures for 1949 may be obtained from *Demography Bulletin* No. 67.

DIARRHŒA AND ENTERITIS (UNDER 2 YEARS OF AGE) : DEATHS, DEATH-RATES AND PROPORTION PER 10,000 TOTAL DEATHS.

| State or Territory. | Number of Deaths. | | | Death-rates.(a) | | | Proportion per 10,000 Total Deaths. | | |
|---------------------|-------------------|----------|--------|-----------------|----------|--------|-------------------------------------|----------|--------|
| | Males. | Females. | Total. | Males. | Females. | Total. | Males. | Females. | Total. |
| New South Wales | 69 | 61 | 130 | 4 | 4 | 4 | 39 | 46 | 42 |
| Victoria .. | 21 | 14 | 35 | 2 | 1 | 2 | 18 | 13 | 16 |
| Queensland .. | 11 | 10 | 21 | 2 | 2 | 2 | 18 | 24 | 20 |
| South Australia .. | 36 | 17 | 53 | 10 | 5 | 8 | 97 | 56 | 79 |
| Western Australia | 14 | 14 | 28 | 5 | 5 | 5 | 46 | 69 | 55 |
| Tasmania .. | 2 | .. | 2 | 1 | .. | 1 | 15 | .. | 8 |
| Australia, 1950 (b) | 156 | 117 | 273 | 4 | 3 | 3 | 36 | 34 | 35 |
| Annual Average— | | | | | | | | | |
| 1911-15 .. | 1,687 | 1,354 | 3,041 | 68 | 59 | 64 | 569 | 627 | 593 |
| 1921-25 .. | 1,114 | 859 | 1,973 | 38 | 31 | 35 | 362 | 366 | 364 |
| 1931-35 .. | 234 | 175 | 409 | 7 | 5 | 6 | 70 | 68 | 69 |
| 1936-40 .. | 212 | 159 | 371 | 6 | 5 | 5 | 57 | 54 | 56 |
| 1941-45 .. | 200 | 150 | 350 | 5 | 4 | 5 | 51 | 46 | 49 |
| 1946-50 .. | 154 | 115 | 269 | 4 | 3 | 3 | 87 | 34 | 36 |

(a) Number of deaths from these diseases per 100,000 of mean population.

(b) Includes Northern Territory and Australian Capital Territory.

Reference to the last six lines of the above table reveals a general decrease in the number of deaths due to diarrhœa and enteritis (under 2 years of age). In view of changed birth-rates, however, the death-rates per 100,000 of mean population are not true measures of changes in the force of mortality. A better measure is the estimated number of children in every 1,000 born who died from these diseases before reaching their second birthday. These rates are as follows :—

| | | | | |
|---------|---------|-------------|---------------|-------------|
| Period— | 1911-15 | Males, 24.6 | Females, 20.9 | Total, 22.8 |
| .. | 1921-25 | .. 16.5 | .. 13.3 | .. 14.9 |
| .. | 1931-35 | .. 3.7 | .. 2.8 | .. 3.3 |
| .. | 1936-40 | .. 3.4 | .. 2.7 | .. 3.0 |
| .. | 1941-45 | .. 2.7 | .. 2.1 | .. 2.4 |
| .. | 1946-50 | .. 1.6 | .. 1.3 | .. 1.5 |

(vi) *Puerperal Causes* (68 to 72). The changes introduced with the Sixth Revision of the International List did not significantly affect the comparability of the total number of deaths from puerperal causes. The number for 1950 classified in accordance with the Fifth Revision was 209 and with the Sixth Revision 208. The 208 deaths in 1950 on the basis of the Sixth Revision correspond to a death-rate of 5.12 per 100,000 females. The rate is also equivalent to 1.09 deaths per 1,000 live births. The death-rate may be expressed in other terms by stating that 1 of every 906 women giving birth to a live child in 1950 died from puerperal causes; the corresponding ratios for married women were 1 in every 959 and for single women 1 in every 382. More detailed information will be found in a series of tables in *Demography Bulletin* No. 68.

The following table shows the death-rate per 1,000 live births from puerperal causes in various countries. In order that the rates may be presented uniformly on the basis of the Fifth Revision of the International List, the figures have been restricted to the latest available year on that basis up to and including 1949. Care is needed in comparing

the Australian rates with the figures for other countries. The figures have been taken from the Abridged International List in each case (Items 35 and 36). Item 35 comprises detailed categories 140 and 147 so that all abortion with sepsis, including criminal abortion with sepsis, is included under the heading "Puerperal Infection". Whilst this is in conformity with the International List it is not known whether the statistical assignment of deaths from criminal abortion is consistent in all countries.

CHILD-BIRTH : DEATHS PER 1,000 LIVE BIRTHS, VARIOUS COUNTRIES.

| Country. | Year. | Rates per 1,000 Live Births from— | | |
|--|-------------|-----------------------------------|-------------------------|-----------------------|
| | | Puerperal Infection. | Other Puerperal Causes. | All Puerperal Causes. |
| Sweden | 1947 | 0.06 | 0.81 | 0.87 |
| France | 1949 | (a) | (a) | 0.90 |
| Denmark | 1949 | 0.11 | 0.82 | 0.93 |
| Norway | 1948 | 0.23 | 0.78 | 1.01 |
| New Zealand (b) | 1949 | 0.25 | 0.77 | 1.02 |
| Great Britain and Northern Ireland | 1949 | 0.23 | 0.81 | 1.04 |
| <i>England and Wales</i> | 1949 | 0.22 | 0.77 | 0.99 |
| <i>Northern Ireland</i> | 1949 | 0.27 | 1.00 | 1.27 |
| <i>Scotland</i> | 1949 | 0.25 | 1.05 | 1.30 |
| Netherlands | 1949 | 0.25 | 0.83 | 1.08 |
| United States of America | 1948 | 0.28 | 0.89 | 1.17 |
| Australia (c) | 1949 | 0.28 | 0.93 | 1.21 |
| <i>Victoria (c)</i> | 1949 | 0.25 | 0.62 | 0.87 |
| <i>Tasmania (c)</i> | 1949 | 0.14 | 0.84 | 0.98 |
| <i>Western Australia (c)</i> | 1949 | 0.22 | 0.96 | 1.18 |
| <i>South Australia (c)</i> | 1949 | 0.37 | 0.94 | 1.31 |
| <i>New South Wales (c)</i> | 1949 | 0.32 | 1.05 | 1.37 |
| <i>Queensland (c)</i> | 1949 | 0.25 | 1.23 | 1.48 |
| Spain | 1948 | 0.40 | 0.87 | 1.27 |
| Union of South Africa (d) | 1947 | 0.36 | 1.00 | 1.36 |
| Canada | 1949 | 0.25 | 1.26 | 1.51 |
| Italy | 1949 | 0.30 | 1.35 | 1.65 |
| Switzerland | 1949 | 0.14 | 1.51 | 1.65 |
| Japan | 1948 | 0.23 | 1.42 | 1.65 |
| Eire | 1949 | 0.28 | 1.53 | 1.81 |
| Western Germany | 1949 | 0.69 | 1.33 | 2.02 |
| Belgium | 1948 | 0.50 | 1.60 | 2.10 |
| Portugal | 1949 | 0.68 | 1.50 | 2.18 |
| Egypt (e) | 1943 | 0.59 | 2.89 | 3.48 |
| Ceylon | 1949 | 1.39 | 5.16 | 6.55 |

(a) Not available. (b) Excludes Maoris. (c) Excludes full-blood aborigines. (d) European population only. (e) Localities having Health Bureaux.

A tabulation of puerperal causes for Australia according to age at death for married and single women separately will also be found in *Demography Bulletin* No. 68.

The total number of children left by the 189 married mothers who died from puerperal causes in 1950 was 488 an average of 2.6 children per mother.

Two of the mothers who died had been married less than one year, 26 between one and two years, and 14 between two and three years. The duration of marriage ranged up to 24 years. Tabulations distinguishing the ages at marriage and at death will be found in *Demography Bulletin* No. 68, which also includes a table showing in combination the duration of marriage and previous issue.

(vii) *Congenital Malformation, Debility, Premature Birth, etc. (75 to 79)*. This combined group embraces two complete classes of the International List of Causes of

Death on the basis of both the Fifth and Sixth Revisions. Comparison of the figures for 1950 on both bases is as follows:—

| Basis of Classification. | Class XIV. Congenital Malforma- tions. | | | Class XV. Certain Diseases of Early Infancy. | | | Total. Class XIV. and Class XV. | | |
|----------------------------|--|---------------|---------------|--|---------------|---------------|------------------------------------|---------------|---------------|
| | Males. | Fe- males. | Per- sons. | Males. | Fe- males. | Per- sons. | Males. | Fe- males. | Per- sons. |
| Sixth Revision .. | 467 | 404 | 871 | 1,682 | 1,209 | 2,891 | 2,149 | 1,613 | 3,762 |
| Fifth Revision .. | 468 | 412 | 880 | 1,578 | 1,128 | 2,706 | 2,046 | 1,540 | 3,586 |
| Difference due to Revision | (-) 1 | (-) 8 | (-) 9 | (+) 104 | (+) 81 | (+) 185 | (+) 103 | (+) 73 | (+) 176 |
| Comparability Ratio .. | 1.00 | 0.98 | 0.99 | 1.07 | 1.07 | 1.07 | 1.05 | 1.05 | 1.05 |

The distribution of these deaths by States and Territories on the basis of both Revisions will be found in *Demography Bulletin* No. 68.

The greater number of deaths in Class XV. on the Sixth Revision basis is due to the creation of the new categories "pneumonia of the new-born" and "diarrhoea of the newborn", which resulted in the transfer of deaths from the general categories covering these causes of death. This transfer accounts for 142 without mention of immaturity, and about ten with immaturity. The remainder of the difference is due to the changed method of selecting the underlying cause of death.

Most of the deaths from congenital malformations are of children under one year of age, the number on the Sixth Revision basis being 670 or 77 per cent. Virtually all of the deaths in Class XV. are under one year of age, 2,890 out of the 2,891 being within this age-group. In both classes combined there were 3,560 deaths under one year, which represents 76 per cent. of the total number of deaths under one year of age.

The individual categories representing the causes of death which come within Class XV. of the Sixth Revision are designed to show the effect of immaturity in such causes of infant death. The 1950 experience was as follows:—

| Cate- gory No. | Cause of Death. | Without Mention of Immaturity. | | | With Immaturity. | | | Total. | | |
|----------------------|--|-----------------------------------|---------------|---------------|------------------|---------------|---------------|--------|---------------|---------------|
| | | Males. | Fe- males. | Per- sons. | Males. | Fe- males. | Per- sons. | Males. | Fe- males. | Per- sons. |
| 760 | Intracranial and spinal in- jury at birth .. | 205 | 131 | 336 | 62 | 37 | 99 | 267 | 168 | 435 |
| 761 | Other birth injury .. | 57 | 35 | 92 | 58 | 35 | 93 | 115 | 70 | 185 |
| 762 | Post-natal asphyxia and atelectasis .. | 139 | 112 | 251 | 110 | 64 | 174 | 249 | 176 | 425 |
| 763 | Pneumonia of the newborn | 68 | 51 | 119 | 11 | 20 | 31 | 79 | 71 | 150 |
| 764 | Diarrhoea of the newborn .. | 14 | 9 | 23 | 2 | 3 | 5 | 16 | 12 | 28 |
| 765 | Ophthalmia neonatorum .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 766 | Pemphigus neonatorum .. | 1 | 1 | 2 | .. | .. | .. | 1 | 1 | 2 |
| 767 | Umbilical sepsis .. | 3 | 2 | 5 | .. | 1 | 1 | 3 | 3 | 6 |
| 768 | Other sepsis of newborn .. | 8 | 2 | 10 | .. | 2 | 2 | 8 | 4 | 12 |
| 769 | Neonatal disorders arising from maternal toxæmia | 13 | 14 | 27 | 43 | 39 | 82 | 56 | 53 | 109 |
| 770 | Hæmolytic disease of new- born (erythroblastosis) .. | 81 | 52 | 133 | 5 | 11 | 16 | 86 | 63 | 149 |
| 771 | Hæmorrhagic disease of new- born .. | 24 | 17 | 41 | 9 | 2 | 11 | 33 | 19 | 52 |
| 772 | Nutritional maladjustment | 23 | 11 | 34 | 3 | 1 | 4 | 26 | 12 | 38 |
| 773 | Ill-defined diseases peculiar to early infancy .. | 51 | 30 | 81 | 90 | 49 | 139 | 141 | 79 | 220 |
| 774 | Immaturity with mention of any other subsidiary con- dition .. | .. | .. | .. | 11 | 5 | 16 | 11 | 5 | 16 |
| 775 | Immaturity subsidiary to some other cause .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 776 | Immaturity unqualified .. | .. | .. | .. | 591 | 473 | 1,064 | 591 | 473 | 1,064 |
| | Total, Class XV. .. | 687 | 467 | 1,154 | 995 | 742 | 1,737 | 1,682 | 1,209 | 2,891 |

This table shows that 1,737 deaths in this class, or 60 per cent., were attributed directly or indirectly to immaturity. When classified according to the Fifth Revision basis, only 1,515 deaths were assigned to the category "premature birth".

(viii) *Suicide (81). (a) General.* Deaths from suicide in 1950 numbered 760, compared with an annual average of 624 during 1911-15, 621 during 1921-25, 798 during 1931-35, 568 during 1941-45, and 674 during 1946-50.

(b) *Modes Adopted.* The modes adopted by persons who committed suicide in 1949 and 1950 were as follows:—

SUICIDE : MODES ADOPTED, AUSTRALIA.

| Mode of Death. | Males. | | Females. | | Persons. | |
|---|------------|------------|------------|------------|------------|------------|
| | 1949. | 1950. | 1949. | 1950. | 1949. | 1950. |
| Poisoning | 98 | 101 | 57 | 61 | 155 | 162 |
| Poisonous gas | 59 | 53 | 27 | 42 | 86 | 95 |
| Hanging or strangulation | 108 | 126 | 31 | 28 | 139 | 154 |
| Drowning | 40 | 37 | 23 | 30 | 63 | 67 |
| Firearms and explosives | 199 | 176 | 11 | 12 | 210 | 188 |
| Cutting or piercing instruments | 57 | 47 | 8 | 8 | 65 | 55 |
| Jumping from high place | 17 | 9 | 8 | 8 | 25 | 17 |
| Crushing | .. | .. | .. | .. | .. | .. |
| Other modes | 21 | 18 | 9 | 4 | 30 | 22 |
| Total | 599 | 567 | 174 | 193 | 773 | 760 |

(c) *Death-rates.* The death-rates from suicide and the proportion per 10,000 of total deaths are given in the following table for each year 1946 to 1950, corresponding rates for each successive five-yearly period from 1921-25 to 1946-50 being shown at the foot of the table:—

SUICIDE : DEATHS, DEATH-RATES AND PROPORTION PER 10,000 TOTAL DEATHS.

| State or Territory. | Number of Deaths. | | | Death-rates.(a) | | | Proportion per 10,000 Total Deaths. | | |
|---------------------------------|-------------------|------------|------------|-----------------|----------|----------|-------------------------------------|-----------|-----------|
| | Males. | Females. | Persons. | Males. | Females. | Persons. | Males. | Females. | Persons. |
| New South Wales | 225 | 92 | 317 | 14 | 6 | 10 | 128 | 69 | 102 |
| Victoria .. | 134 | 52 | 186 | 12 | 5 | 8 | 114 | 49 | 83 |
| Queensland .. | 85 | 25 | 110 | 14 | 4 | 9 | 138 | 59 | 106 |
| South Australia .. | 45 | 10 | 55 | 13 | 3 | 8 | 121 | 33 | 81 |
| Western Australia | 57 | 11 | 68 | 20 | 4 | 12 | 189 | 54 | 134 |
| Tasmania .. | 17 | 3 | 20 | 12 | 2 | 7 | 129 | 26 | 81 |
| Northern Territory | 3 | .. | 3 | 32 | .. | 20 | 361 | .. | 312 |
| Australian Capital Territory .. | 1 | .. | 1 | 8 | .. | 4 | 143 | .. | 82 |
| Australia 1950 .. | 567 | 193 | 760 | 14 | 5 | 9 | 130 | 56 | 97 |
| .. 1949 .. | 599 | 174 | 773 | 15 | 4 | 10 | 142 | 53 | 103 |
| .. 1948 .. | 578 | 159 | 737 | 15 | 4 | 10 | 136 | 47 | 96 |
| .. 1947 .. | 546 | 200 | 746 | 15 | 5 | 10 | 134 | 61 | 102 |
| .. 1946 .. | 513 | 219 | 732 | 14 | 6 | 10 | 124 | 66 | 98 |
| Annual Average— | | | | | | | | | |
| 1946-50 .. | 561 | 189 | 750 | 14 | 5 | 10 | 133 | 56 | 99 |
| 1941-45 .. | 405 | 163 | 568 | 11 | 5 | 8 | 102 | 50 | 79 |
| 1936-40 .. | 586 | 170 | 756 | 17 | 5 | 11 | 157 | 56 | 114 |
| 1931-35 .. | 635 | 163 | 798 | 19 | 5 | 12 | 190 | 62 | 134 |
| 1926-30 .. | 650 | 141 | 791 | 20 | 5 | 13 | 198 | 56 | 136 |
| 1921-25 .. | 509 | 112 | 621 | 18 | 4 | 11 | 166 | 48 | 114 |

(a) Number of deaths from suicide per 100,000 of mean population.

(d) *Age at Death.* From the following table which shows the age of persons who committed suicide in 1949 and 1950 it will be seen that both young and extremely old people took their lives during these years.

AGE OF PERSONS WHO COMMITTED SUICIDE : AUSTRALIA.

| Age-group (Years). | 1949. | | | 1950. | | |
|----------------------|--------|----------|----------|--------|----------|----------|
| | Males. | Females. | Persons. | Males. | Females. | Persons. |
| 10-14 | 3 | .. | 3 | 3 | 2 | 5 |
| 15-19 | 15 | 7 | 22 | 13 | 5 | 18 |
| 20-24 | 36 | 6 | 42 | 30 | 8 | 38 |
| 25-29 | 43 | 13 | 56 | 39 | 9 | 48 |
| 30-34 | 43 | 10 | 53 | 35 | 17 | 52 |
| 35-39 | 54 | 23 | 77 | 55 | 19 | 74 |
| 40-44 | 54 | 18 | 72 | 56 | 21 | 77 |
| 45-49 | 65 | 23 | 88 | 41 | 15 | 56 |
| 50-54 | 48 | 10 | 58 | 68 | 19 | 87 |
| 55-59 | 55 | 14 | 69 | 57 | 30 | 87 |
| 60-64 | 53 | 23 | 76 | 44 | 21 | 65 |
| 65-69 | 51 | 16 | 67 | 43 | 17 | 60 |
| 70-74 | 39 | 8 | 47 | 40 | 6 | 46 |
| 75-79 | 21 | 3 | 24 | 27 | 4 | 31 |
| 80-84 | 13 | .. | 13 | 10 | .. | 10 |
| 85-89 | 5 | .. | 5 | 6 | .. | 6 |
| 90 and over | .. | .. | .. | .. | .. | .. |
| Age not stated | 1 | .. | 1 | .. | .. | .. |
| Total Deaths | 599 | 174 | 773 | 567 | 193 | 760 |

(e) *Occupation at Death, Males.* A table showing main groups of occupations of males who committed suicide during 1950 appears in *Demography Bulletin* No. 68.

(f) *Death-rates, Various Countries.* The following table shows the death-rate from suicide for Australia and each State in comparison with the rates for various other countries. The table indicates that Australia occupies a fairly favourable position as regards the death-rate from suicide.

SUICIDE : DEATH-RATES (a), VARIOUS COUNTRIES.

| Country. | Year. | Rate. | Country. | Year. | Rate. |
|--------------------------------|-------|-------|-----------------------|-------|-------|
| Eire | 1949 | 2.6 | Great Britain and | | |
| Spain | 1948 | 6.2 | Northern Ireland .. | 1949 | 10.1 |
| Netherlands | 1949 | 6.2 | Northern Ireland .. | 1949 | 4.2 |
| Italy | 1949 | 6.6 | Scotland | 1950 | 5.2 |
| Ceylon | 1949 | 6.7 | England and Wales | 1949 | 11.0 |
| Norway | 1948 | 6.9 | Portugal | 1949 | 10.6 |
| Canada | 1950 | 7.8 | U.S. of America | 1949 | 11.4 |
| Australia(b) | 1950 | 9.3 | Belgium | 1949 | 13.6 |
| Tasmania(b) | 1950 | 7.1 | Sweden | 1947 | 14.8 |
| South Australia(b) | 1950 | 7.9 | France | 1949 | 15.3 |
| Victoria(b) | 1950 | 8.4 | Finland | 1949 | 17.0 |
| Queensland(b) | 1950 | 9.2 | Japan | 1949 | 17.3 |
| New South Wales(b) | 1950 | 9.8 | Western Germany | 1949 | 18.8 |
| Western Australia(b) | 1950 | 12.2 | Denmark | 1950 | 23.3 |
| Union of South Africa(c) | 1947 | 9.7 | Switzerland | 1949 | 23.6 |
| New Zealand(d) | 1949 | 9.7 | | | |

(a) Number of deaths per 100,000 of mean population.
(c) European population only.

(b) Excludes full-blood aboriginals.

(d) Excludes Maoris.

(ix) *Homicide* (82). Deaths from homicide in 1950 numbered 85, which was thirteen more than in the previous year and the same as the average for the five years 1946-50. See par. (x).

(x) *Accidental or Violent Deaths (including Suicide and Homicide)*. The following table shows the various kinds of violent deaths, including suicide and homicide, recorded in Australia for 1950. Corresponding figures for 1949 (on the basis of the Fifth Revision) may be obtained from *Demography Bulletin* No. 67.

DEATHS FROM EXTERNAL VIOLENCE : AUSTRALIA, 1950.

| International Category No. | Cause of Death. | Males. | Females. | Persons. |
|---|---|--------------|--------------|--------------|
| E800-E802 .. | Railway accidents | 124 | 13 | 137 |
| E810-E825 .. | Motor vehicle traffic accidents | 1,465 | 282 | 1,747 |
| E830-E835 .. | Motor vehicle non-traffic accidents | 34 | 5 | 39 |
| E840-E845 .. | Other road vehicle accidents | 124 | 23 | 147 |
| E850-E858 .. | Water transport accidents | 72 | 1 | 73 |
| E860-E866 .. | Aircraft accidents | 51 | 9 | 60 |
| E870-E888 .. | Accidental poisoning by solid and liquid substances | 51 | 36 | 87 |
| E890-E895 .. | Accidental poisoning by gases and vapours | 21 | 12 | 33 |
| E900-E904 .. | Accidental falls | 375 | 472 | 847 |
| E912 .. | Accident caused by machinery | 48 | 3 | 51 |
| E913 .. | Accident caused by cutting and piercing instruments | 2 | .. | 2 |
| E914 .. | Accident caused by electric current | 52 | 4 | 56 |
| E916 .. | Accident caused by fire and explosion of combustible material | 87 | 52 | 139 |
| E917, E918 .. | Accident caused by hot substance, corrosive liquid, steam and radiation | 25 | 26 | 51 |
| E919 .. | Accident caused by firearms | 82 | 7 | 89 |
| E924, E925 .. | Accidental mechanical suffocation | 34 | 15 | 49 |
| E926 .. | Lack of care of infants under 1 year of age | 1 | 1 | 2 |
| E927 .. | Accidents caused by bites and stings of venomous animals | 9 | 1 | 10 |
| E928 .. | Other accidents caused by animals | 16 | 4 | 20 |
| E929 .. | Accidental drowning and submersion | 362 | 77 | 439 |
| E931 .. | Excessive heat and insolation | 15 | 7 | 22 |
| E932 .. | Excessive cold | 4 | .. | 4 |
| E933 .. | Hunger, thirst and exposure | 13 | .. | 13 |
| E934 .. | Cataclysm | 7 | .. | 7 |
| E935 .. | Lightning | 1 | .. | 1 |
| E910, E911, E915, E920-E923, E930, E936 } E940-E946 .. | All other and unspecified accidents | 191 | 42 | 233 |
| E950-E959 .. | Complications due to non-therapeutic medical and surgical procedures | 1 | 2 | 3 |
| E960-E962 .. | Therapeutic misadventure and late complications of therapeutic procedures | 2 | 6 | 8 |
| | Late effects of accidental injury and poisoning | 8 | 7 | 15 |
| E800-E965 .. | Total Accidents | 3,277 | 1,109 | 4,386 |
| E963, E970-E979 .. | Suicide and self-inflicted injury | 567 | 193 | 760 |
| E984, E980-E985 .. | Homicide and injury purposely inflicted by other persons (including legal executions) | 54 | 31 | 85 |
| E965, E990-E999 .. | Injury resulting from operations of war | 7 | .. | 7 |
| | Total Deaths from accidents, poisonings and violence | 3,905 | 1,333 | 5,238 |

The following table of death-rates per million of mean population reveals a decrease in 1921-25 for External Violence, excluding Suicide and Homicide, but an increase in the rates for 1926-30 to which the growth of automobile accidents contributed very largely. A decreased death-rate was recorded during 1931-35, but the rate rose again during 1936-40. The sharp decline during 1941-45 may be attributed to the decrease in number of automobile accidents which resulted from the war-time restrictions of travel.

DEATH-RATES, ETC., EXTERNAL VIOLENCE : AUSTRALIA.

| Period. | Death-rates(a) from Homicide. | | | Death-rates(a) from External Violence, excluding Suicide and Homicide. | | | Death-rates(a) from all External Violence. | | | All External Violence Proportion per 10,000 Deaths. |
|------------|-------------------------------|----------|----------|--|----------|----------|--|----------|----------|---|
| | Males | Females. | Persons. | Males. | Females. | Persons. | Males. | Females. | Persons. | |
| 1911-15 .. | 21 | 16 | 19 | 948 | 268 | 621 | 1,170 | 330 | 770 | 718 |
| 1921-25 .. | 17 | 13 | 15 | 753 | 211 | 487 | 950 | 260 | 610 | 643 |
| 1926-30 .. | 19 | 15 | 17 | 943 | 240 | 549 | 1,070 | 300 | 690 | 746 |
| 1931-35 .. | 21 | 11 | 16 | 714 | 223 | 472 | 923 | 284 | 609 | 676 |
| 1936-40 .. | 18 | 9 | 13 | 862 | 283 | 576 | 1,069 | 342 | 699 | 725 |
| 1941-45 .. | 14 | 9 | 11 | 670 | 261 | 466 | 795 | 315 | 557 | 558 |
| 1946-50 .. | 13 | 9 | 11 | 755 | 275 | 516 | 912 | 332 | 623 | 640 |
| 1945 .. | 14 | 7 | 11 | 571 | 255 | 413 | 692 | 309 | 501 | 526 |
| 1946 .. | 14 | 10 | 12 | 728 | 280 | 510 | 881 | 359 | 621 | 621 |
| 1947 .. | 13 | 11 | 12 | 743 | 289 | 517 | 900 | 353 | 627 | 647 |
| 1948 .. | 13 | 9 | 11 | 730 | 271 | 511 | 912 | 321 | 618 | 620 |
| 1949 .. | 13 | 7 | 9 | 754 | 251 | 504 | 916 | 302 | 610 | 642 |
| 1950 .. | 13 | 8 | 10 | 794 | 273 | 536 | 946 | 328 | 640 | 670 |

(a) Number of deaths per 1,000,000 of mean population.

(xi) "Other Diseases". The intermediate and the abridged classifications of causes of death used in Tables A to E in preceding pages differ from those used in issues of the Official Year Book prior to No. 25 in that no residue of "other diseases" is shown at the foot. The items are ranged in classes or groups of classes and each class or group of classes is made complete by the addition of an "other diseases" item for that class or group of classes. Details of these "other diseases" items of the intermediate classification expanded into their constituent causes may be found in *Demography Bulletin* No. 68.

17. Causes of Deaths in Classes.—The figures in the preceding sub-sections relate to principal individual causes of death, and are of greater value in medical statistics than a mere grouping under general headings. The classification under eighteen general headings used in the Fifth Revision of the International List of Causes of Death is, however, shown in the following table for 1950, together with the death-rates and proportions of total deaths pertaining to those classes. A further table furnishes the death-rates for the five-year periods 1936-40, 1941-45, and 1946-50. Figures for 1949 corresponding to the first table may be obtained from *Demography Bulletin* No. 67.

DEATHS, DEATH-RATES, ETC., IN CLASSES : AUSTRALIA, 1950.
(BASED ON THE FIFTH REVISION OF THE INTERNATIONAL LIST.)

| Class. | Total Deaths. | | | Death-rates.(a) | | | Proportion per 10,000 Deaths. | | |
|--|---------------|--------|--------|-----------------|-----|--------|-------------------------------|--------|--------|
| | M. | F. | Total. | M. | F. | Total. | M. | F. | Total. |
| 1. Infective and Parasitic Diseases | 2,045 | 1,063 | 3,108 | 50 | 26 | 38 | 468 | 308 | 398 |
| 2. Cancer and Other Tumours | 5,382 | 5,224 | 10,606 | 131 | 129 | 129 | 1,231 | 1,516 | 1,357 |
| 3. Rheumatism, Diseases of Nutrition and of the Endocrine Glands, Other General Diseases and Vitamin-deficiency Diseases | 691 | 1,297 | 1,988 | 17 | 32 | 24 | 158 | 376 | 254 |
| 4. Diseases of the Blood and Blood-forming Organs | 360 | 368 | 728 | 9 | 9 | 9 | 82 | 107 | 93 |
| 5. Chronic Poisoning and Intoxication | 149 | 53 | 202 | 4 | 1 | 2 | 34 | 15 | 26 |
| 6. Diseases of the Nervous System and Sense Organs | 4,457 | 5,547 | 10,004 | 108 | 137 | 122 | 1,020 | 1,609 | 1,280 |
| 7. Diseases of the Circulatory System | 16,056 | 11,462 | 27,518 | 389 | 282 | 336 | 3,673 | 3,325 | 3,520 |
| 8. Diseases of the Respiratory System | 2,998 | 2,166 | 5,164 | 73 | 53 | 63 | 686 | 623 | 660 |
| 9. Diseases of the Digestive System | 1,908 | 1,257 | 3,165 | 46 | 31 | 39 | 436 | 365 | 405 |
| 10. Diseases of the Genito-urinary System | 2,618 | 1,693 | 4,311 | 63 | 42 | 53 | 599 | 491 | 551 |
| 11. Diseases of Pregnancy, Child-birth and Puerperal State | .. | 207 | 207 | .. | 5 | 3 | .. | 60 | 26 |
| 12. Diseases of the Skin and Cellular Tissue | 41 | 41 | 82 | 1 | 1 | 1 | 9 | 12 | 10 |
| 13. Diseases of the Bones and Organs of Movement | 40 | 26 | 66 | 1 | 1 | 1 | 9 | 8 | 8 |
| 14. Congenital Malformations | 468 | 412 | 880 | 11 | 10 | 11 | 107 | 120 | 113 |
| 15. Diseases Peculiar to the First Year of Life | 1,578 | 1,128 | 2,706 | 38 | 28 | 33 | 361 | 327 | 346 |
| 16. Senility, Old-age | 897 | 1,122 | 2,019 | 22 | 28 | 25 | 205 | 326 | 258 |
| 17. Violent or Accidental Deaths | 3,895 | 1,337 | 5,232 | 94 | 33 | 64 | 891 | 388 | 669 |
| 18. Ill-defined Causes of Death | 137 | 64 | 201 | 3 | 1 | 2 | 31 | 19 | 26 |
| Total | 43,720 | 34,467 | 78,187 | 1,060 | 849 | 955 | 10,000 | 10,000 | 10,000 |

(a) Number of deaths per 100,000 of mean population.

DEATH-RATES(a) IN CLASSES : AUSTRALIA.

| Class. | 1936-40. | | | 1941-45. | | | 1946-50. | | |
|--|----------|-----|--------|----------|-----|--------|----------|-----|--------|
| | M. | F. | Total. | M. | F. | Total. | M. | F. | Total. |
| 1. Infective and Parasitic Diseases | 80 | 56 | 68 | 77 | 48 | 63 | 58 | 31 | 45 |
| 2. Cancer and Other Tumours | 121 | 120 | 121 | 123 | 128 | 126 | 130 | 129 | 130 |
| 3. Rheumatism, Diseases of Nutrition and of the Endocrine Glands, Other General Diseases and Vitamin-deficiency Diseases | 20 | 36 | 28 | 19 | 37 | 28 | 18 | 33 | 25 |
| 4. Diseases of the Blood and Blood-forming Organs | 8 | 8 | 8 | 7 | 8 | 8 | 8 | 8 | 8 |
| 5. Chronic Poisoning and Intoxication | 2 | 1 | 1 | 2 | 1 | 1 | 3 | 1 | 2 |
| 6. Diseases of the Nervous System and Sense Organs | 67 | 74 | 70 | 98 | 122 | 110 | 106 | 132 | 119 |
| 7. Diseases of the Circulatory System | 318 | 245 | 282 | 354 | 269 | 312 | 388 | 280 | 334 |
| 8. Diseases of the Respiratory System | 100 | 72 | 86 | 89 | 68 | 78 | 77 | 60 | 68 |
| 9. Diseases of the Digestive System | 59 | 44 | 52 | 55 | 40 | 47 | 47 | 33 | 40 |
| 10. Diseases of the Genito-urinary System | 85 | 61 | 73 | 81 | 55 | 68 | 68 | 44 | 56 |
| 11. Diseases of Pregnancy, Child-birth and Puerperal State | .. | 17 | 8 | .. | 13 | 6 | .. | 7 | 3 |
| 12. Diseases of the Skin and Cellular Tissue | 3 | 2 | 3 | 2 | 2 | 2 | 1 | 1 | 1 |
| 13. Diseases of the Bones and Organs of Movement | 3 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| 14. Congenital Malformations | 11 | 9 | 10 | 11 | 10 | 11 | 12 | 10 | 11 |
| 15. Diseases Peculiar to the First Year of Life | 43 | 33 | 38 | 46 | 34 | 40 | 42 | 31 | 37 |
| 16. Senility, Old-age | 39 | 41 | 40 | 38 | 36 | 37 | 27 | 31 | 29 |
| 17. Violent or Accidental Deaths | 105 | 34 | 70 | 79 | 31 | 56 | 91 | 33 | 62 |
| 18. Ill-defined Causes of Death | 5 | 2 | 4 | 5 | 2 | 3 | 3 | 2 | 3 |
| Total | 1,069 | 856 | 964 | 1,088 | 905 | 997 | 1,080 | 867 | 974 |

(a) Number of deaths per 100,000 of mean population.

18. Age at Death of Deceased Married Males and Females, and Issue.—*Demography Bulletin* No. 68 contains a number of tables showing, in combination with the issue, the age at marriage, age at death and occupation of married persons who died in Australia in 1950. Deaths of married males in 1950 numbered 31,330, and of married females, 26,583. The tabulations which follow deal, however, with only 30,827 males and 26,365 females, the information regarding issue in the remaining 721 cases being incomplete. The total number of children in the families of the 30,827 males was 106,811, and of the 26,365 females, 99,077. The average number of children is shown for various age-groups in the following table:—

AGE AT DEATH, AND AVERAGE ISSUE OF DECEASED MARRIED MALES AND FEMALES : AUSTRALIA.

| Age-group (Years). | Average Issue. | | | | | | | | | |
|-----------------------|----------------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| | Males. | | | | | Females. | | | | |
| | 1911. | 1921. | 1931. | 1941. | 1950. | 1911. | 1921. | 1931. | 1941. | 1950. |
| Under 20 .. | 0.33 | .. | 0.75 | .. | .. | 0.94 | 0.77 | 0.66 | 0.79 | 0.65 |
| 20-24 .. | 0.77 | 0.84 | 0.81 | 0.73 | 0.60 | 1.27 | 1.22 | 1.13 | 0.95 | 0.92 |
| 25-29 .. | 1.25 | 1.29 | 1.33 | 1.12 | 1.35 | 1.82 | 1.86 | 1.81 | 1.45 | 1.51 |
| 30-34 .. | 2.05 | 2.06 | 1.79 | 1.76 | 1.65 | 2.74 | 2.45 | 2.34 | 1.91 | 2.12 |
| 35-39 .. | 2.80 | 2.58 | 2.13 | 2.11 | 2.08 | 3.64 | 3.29 | 2.89 | 2.30 | 2.28 |
| 40-44 .. | 3.47 | 3.23 | 2.77 | 2.49 | 2.38 | 4.09 | 3.66 | 3.29 | 2.77 | 2.42 |
| 45-49 .. | 4.09 | 3.48 | 3.10 | 2.68 | 2.46 | 4.54 | 3.76 | 3.55 | 2.93 | 2.47 |
| 50-54 .. | 4.75 | 3.76 | 3.46 | 2.96 | 2.68 | 5.35 | 4.23 | 3.60 | 3.29 | 2.77 |
| 55-59 .. | 5.44 | 4.41 | 3.69 | 3.28 | 2.87 | 5.86 | 4.69 | 4.01 | 3.55 | 3.22 |
| 60-64 .. | 5.95 | 4.98 | 4.02 | 3.55 | 3.06 | 5.99 | 5.39 | 4.21 | 3.79 | 3.36 |
| 65-69 .. | 6.23 | 5.50 | 4.41 | 3.73 | 3.33 | 6.50 | 5.86 | 4.82 | 4.01 | 3.60 |
| 70-74 .. | 6.41 | 6.06 | 5.06 | 4.17 | 3.64 | 6.38 | 6.30 | 5.41 | 4.29 | 3.80 |
| 75-79 .. | 6.75 | 6.66 | 5.65 | 4.56 | 3.95 | 6.72 | 6.56 | 6.02 | 4.85 | 4.01 |
| 80-84 .. | 6.68 | 6.89 | 6.17 | 4.93 | 4.27 | 6.22 | 6.76 | 6.26 | 5.39 | 4.40 |
| 85-89 .. | 6.67 | 7.18 | 6.59 | 5.70 | 4.85 | 5.97 | 6.93 | 6.57 | 5.85 | 4.78 |
| 90-94 .. | 6.03 | 7.21 | 6.94 | 6.57 | 5.24 | 5.69 | 6.53 | 6.73 | 6.11 | 5.26 |
| 95-99 .. | 7.30 | 6.97 | 6.69 | 7.04 | 6.05 | 5.05 | 6.05 | 7.10 | 6.34 | 6.03 |
| 100 and over | 9.33 | 9.20 | 7.00 | 8.69 | 4.71 | 5.17 | 5.11 | 8.20 | 6.73 | 5.94 |
| Age not stated | 4.33 | 5.36 | 5.00 | .. | 3.33 | 4.60 | 5.80 | 5.00 | .. | 5.33 |
| All Ages .. | 5.42 | 4.97 | 4.44 | 3.91 | 3.46 | 5.35 | 5.05 | 4.72 | 4.22 | 3.76 |

The figures in the preceding table include the issue both living and dead, the proportion between them, taking the issue of deceased males and females together, being about five to one. The totals are shown in the following table:—

ISSUE OF DECEASED MARRIED MALES AND FEMALES : AUSTRALIA, 1950.

| Issue of Married Males. | | | | Issue of Married Females. | | | |
|-------------------------|--------|----------|---------|---------------------------|--------|----------|--------|
| Issue. | Males. | Females. | Total. | Issue. | Males. | Females. | Total. |
| Living .. | 46,396 | 45,264 | 91,660 | Living .. | 40,408 | 40,184 | 80,592 |
| Dead .. | 8,918 | 6,233 | 15,151 | Dead .. | 10,773 | 7,712 | 18,485 |
| Total .. | 55,314 | 51,497 | 106,811 | Total .. | 51,181 | 47,896 | 99,077 |

19. Age at Marriage of Deceased Males and Females, and Issue.—While the table giving the average issue of married males and females naturally shows an increase in the averages with advancing age at death, the following table which gives the average

issue of males and females according to the age at marriage of the deceased parent shows a corresponding decrease in the averages as the age at marriage advances :—

AGE AT MARRIAGE OF DECEASED MALES AND FEMALES, AND AVERAGE ISSUE : AUSTRALIA.

| Age-group (Years). | Average Issue. | | | | | | | | | |
|-----------------------|----------------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| | Males. | | | | | Females. | | | | |
| | 1911. | 1921. | 1931. | 1941. | 1950. | 1911. | 1921. | 1931. | 1941. | 1950. |
| Under 15 .. | .. | .. | .. | .. | 2.00 | 9.71 | 7.60 | 6.36 | 7.80 | 5.69 |
| 15-19 .. | 6.97 | 6.32 | 6.15 | 5.40 | 4.64 | 7.10 | 6.97 | 6.79 | 6.10 | 5.53 |
| 20-24 .. | 6.34 | 6.05 | 5.56 | 4.89 | 4.32 | 5.77 | 5.50 | 5.23 | 4.80 | 4.32 |
| 25-29 .. | 5.70 | 5.17 | 4.70 | 4.21 | 3.70 | 4.27 | 4.09 | 3.79 | 3.51 | 3.25 |
| 30-34 .. | 4.92 | 4.45 | 3.96 | 3.41 | 3.09 | 3.04 | 2.66 | 2.42 | 2.35 | 2.22 |
| 35-39 .. | 4.05 | 3.90 | 3.14 | 2.80 | 2.51 | 1.68 | 1.61 | 1.40 | 1.26 | 1.25 |
| 40-44 .. | 3.43 | 2.67 | 2.36 | 2.01 | 1.84 | 0.72 | 0.62 | 0.39 | 0.35 | 0.46 |
| 45-49 .. | 2.59 | 2.20 | 1.96 | 1.52 | 1.42 | 0.26 | 0.03 | 0.12 | 0.01 | 0.36 |
| 50-54 .. | 2.45 | 1.70 | 1.60 | 1.05 | 0.96 | .. | .. | .. | .. | .. |
| 55-59 .. | 1.66 | 1.30 | 0.95 | 0.79 | 0.87 | .. | .. | .. | .. | .. |
| 60-64 .. | 2.00 | 0.33 | 0.63 | 0.29 | 0.73 | .. | .. | .. | .. | .. |
| 65 and over .. | 1.00 | 0.25 | 0.18 | 0.01 | 1.17 | .. | .. | .. | .. | .. |
| Age not stated | 5.40 | 4.93 | 3.64 | 2.95 | 2.83 | 5.23 | 5.41 | 3.96 | 2.45 | 3.31 |
| All Ages .. | 5.42 | 4.97 | 4.44 | 3.91 | 3.46 | 5.35 | 5.05 | 4.72 | 4.22 | 3.76 |

20. Birthplace of Deceased Married Males and Females, and Issue.—A table showing the birthplaces of married males and females who died in 1911 and 1940, together with the average issue, may be found in the Official Year Book No. 34, p. 366.

21. Occupation of Deceased Married Males, and Issue.—A summary of the main groups of occupations of married males who died during 1950, together with issue, appears in *Demography Bulletin* No. 68.

§ 4. Registration of Births, Deaths and Marriages in the Australian Capital Territory.

To the end of 1929 the provisions of the Registration of Births, Deaths and Marriages Act of 1899 and the Marriage Act of 1899 of New South Wales applied to the Australian Capital Territory. Births, deaths and marriages occurring within the Territory were registered by the New South Wales District Registrars at Queanbeyan and Nowra, and were incorporated in the New South Wales registration records but excluded from New South Wales statistics.

In 1929, however, the Registration of Births, Deaths and Marriages Ordinances were enacted, providing for the assumption by the Commonwealth Government of the function of registration within the Territory as from 1st January, 1930. All registrations are made at the Registrar's Office, Civic Centre, Canberra.

Marriages within the Territory are celebrated in accordance with the provisions of the Marriage Ordinance 1929-1938. This Ordinance, which closely follows the provisions of the Marriage Act of New South Wales, which it supersedes as regards the Australian Capital Territory, came into operation on 1st January, 1930.