

**CHAPTER XIII.**  
**VITAL STATISTICS.**

**§ 1. Live Births.**

1 Number in 1938.—The number of live births registered in Australia during the year ended the 31st December, 1938, is shown in the table hereunder. The numerical relation which these births bear to the population, and various other associated features, are given in later tables.

**LIVE BIRTHS, 1938.**

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Nor. Ter.	A.C.T.	Australia.
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**MALES.**

Single births	23,700	15,364	9,628	4,779	4,582	2,490	52	98	60,693
Twins ..	488	269	199	82	91	51	2	2	1,184
Triplets ..	6	3	2	2	2	..	..	..	15
<b>Total ..</b>	<b>24,194</b>	<b>15,636</b>	<b>9,829</b>	<b>4,863</b>	<b>4,675</b>	<b>2,541</b>	<b>54</b>	<b>100</b>	<b>61,892</b>

**FEMALES.**

Single births	22,634	14,407	8,970	4,467	4,370	2,312	46	100	57,306
Twins ..	491	298	192	76	93	54	2	..	1,206
Triplets ..	..	3	1	4	3	..	..	..	11
<b>Total ..</b>	<b>23,125</b>	<b>14,708</b>	<b>9,163</b>	<b>4,547</b>	<b>4,466</b>	<b>2,366</b>	<b>48</b>	<b>100</b>	<b>58,523</b>

**TOTAL.**

Single births	46,334	29,771	18,598	9,246	8,952	4,802	98	198	117,999
Twins ..	(a) 979	(b) 567	(c) 391	158	(d) 184	(e) 105	4	2	(f) 2,390
Triplets ..	6	6	3	6	(g) 5	..	..	..	(g) 26
<b>Total ..</b>	<b>47,319</b>	<b>30,344</b>	<b>18,992</b>	<b>9,410</b>	<b>9,141</b>	<b>4,907</b>	<b>102</b>	<b>200</b>	<b>120,415</b>

**TOTAL CONFINEMENTS (LIVE BIRTHS).**

Mothers of Nuptial Children ..	44,889	28,773	17,887	9,061	8,715	4,643	83	193	114,244
Mothers of Ex-Nuptial Children ..	1,963	1,291	911	266	336	213	17	6	5,003
<b>Total Mothers</b>	<b>46,852</b>	<b>30,064</b>	<b>18,798</b>	<b>9,327</b>	<b>9,051</b>	<b>4,856</b>	<b>100</b>	<b>199</b>	<b>119,247</b>

(a) 53 stillborn twins not included. (b) 15 stillborn twins not included. (c) 7 stillborn twins not included. (d) 10 stillborn twins not included. (e) 3 stillborn twins not included. (f) 88 stillborn twins not included. (g) 1 stillborn triplet not included.

A summary of the total number of live births in each State and Territory at intervals since 1901 is given in the following table:—

## LIVE BIRTHS, 1901 to 1938.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Nor. Ter.	A.C.T.	Australia.
1901 ..	37,875	31,008	14,303	9,079	5,718	4,930	32	(a)	102,945
1911 ..	47,537	33,026	16,984	11,057	8,091	5,437	31	30	122,193
1921 ..	54,636	35,591	20,329	11,974	7,807	5,755	79	27	136,198
1931 ..	47,721	30,332	17,833	9,079	8,549	4,762	72	161	118,509
1933 ..	44,195	28,392	17,150	8,900	7,874	4,553	74	131	111,269
1934 ..	43,335	27,828	17,360	8,459	7,801	4,470	88	134	109,475
1935 ..	44,676	27,884	17,688	8,270	8,119	4,456	84	148	111,325
1936 ..	46,193	28,883	18,755	8,911	8,479	4,581	113	158	116,073
1937 ..	47,497	29,731	19,162	8,985	8,609	4,841	99	207	119,131
1938 ..	47,319	30,344	18,992	9,410	9,141	4,907	102	200	120,415

(a) Part of New South Wales.

2. Birth Rates.—The next table gives the crude birth rates at intervals from 1901 to 1938:—

## CRUDE BIRTH RATES.(a)

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Nor. Ter.	A.C.T.	Australia.
1901 ..	27.78	25.77	28.52	25.41	30.39	28.58	6.72	(b)	27.16
1911 ..	28.58	25.01	27.63	28.86	28.22	28.60	9.36	16.84	27.20
1921 ..	25.91	23.16	26.68	24.09	23.37	26.97	20.18	10.86	24.95
1926 ..	22.63	20.84	23.06	20.73	21.79	23.33	18.50	12.07	21.98
1927 ..	22.40	20.30	22.78	20.33	21.63	22.68	15.28	10.31	21.62
1928 ..	22.27	19.69	22.36	19.98	21.36	21.77	18.61	14.64	21.27
1929 ..	21.04	18.98	20.60	18.63	21.51	22.03	11.86	17.91	20.25
1930 ..	20.59	18.55	20.80	17.42	21.44	21.66	14.26	18.30	19.86
1931 ..	18.67	16.86	19.28	15.77	19.77	21.18	14.52	18.29	18.16
1932 ..	17.40	15.19	18.56	14.74	18.31	19.78	16.07	16.92	16.86
1933 ..	16.99	15.60	18.14	15.32	17.95	19.93	15.23	(c)14.47	16.78
1934 ..	16.52	15.20	18.17	14.50	17.66	19.51	17.84	(c)14.47	16.39
1935 ..	16.89	15.16	18.31	14.14	18.23	19.41	16.47	(c)15.77	16.55
1936 ..	17.31	15.63	19.17	15.17	18.84	19.84	21.50	(c)16.18	17.13
1937 ..	17.63	16.02	19.36	15.25	18.95	20.69	18.30	(c)20.30	17.43
1938 ..	17.39	16.25	18.98	15.88	19.87	20.82	17.81	17.98	17.46

(a) Number of births per 1,000 of the mean population for the year. (b) Part of New South Wales. (c) See footnote (c) to table on p. 352. The following are revised rates:—1933, 14.43; 1934, 14.20; 1935, 15.20; 1936, 15.35; and 1937, 18.99.

NOTE.—The birth rates in the table above are based on live births registered in the respective States and Territories. Until recently 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 is rapidly diminishing. The following rates, based on births in respect of which the mother's usual residence is the Australian Capital Territory, are a fairer measure of birth rates in the Australian Capital Territory:—

1926 ..	22.41	1931 ..	21.40	1935 ..	19.52
1927 ..	21.10	1932 ..	20.09	1936 ..	17.97
1928 ..	23.38	1933 ..	19.06	1937 ..	21.28
1929 ..	23.28	1934 ..	17.59	1938 ..	18.88
1930 ..	22.07				

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 not so great as in the Australian Capital Territory, as shown by the following corrected rates for 1938:—New South Wales, 17.46; Victoria, 16.11; Queensland, 19.05; South Australia, 15.82; Western Australia, 19.88; Tasmania, 20.91; and Northern Territory, 18.69.

The preceding table shows a marked reduction in the birth rate since 1901. In the earlier years of the century the rate fluctuated somewhat and 28.60 was recorded in 1912, but from that year onwards the rate dropped almost continuously to the very low figure of 16.39 in 1934. Thereafter with the improvement in economic conditions the rate has risen slightly during each of the last four years.

The principal factor in determining the crude birth rate is the proportion of married women of child-bearing age in the community, but as the fecundity of women varies with age, the birth rate per 1,000 married women will vary according to the age composition of the group, and, other things being equal, the rate generally should be highest where the average age of married women is lowest. For the purposes of the following table the child-bearing age has been taken as from 15-44 years inclusive, and all births of which the mothers were stated to be over 45 years have been counted in the group 40-44. The calculations have been made for the last two Census periods and cover in each case the Census year together with the year immediately preceding and the year immediately following.

## BIRTH RATES, AND FACTORS AFFECTING THEM.

Particulars.	1931-34. (Age Distribution at Census of 1933.)						1920-1922.	
	N.S.W.	Vic.	Q'land.	S.A.	W.A.	Tas.	Aus- tralia.	Aus- tralia.
Crude birth rate per 1,000 persons	16.97	15.33	18.29	14.85	17.97	19.74	16.68	25.15
Birth rate per 100 women 15-44 inclusive	7.25	6.46	7.93	6.31	8.05	8.71	7.14	10.74
Birth rate per 100 married women 15-44 incl. (a)	12.98	12.34	14.46	12.01	14.67	16.08	13.14	19.65
Ex-nuptial births—per cent. on all births	5.03	4.35	4.99	3.18	4.15	5.37	4.66	4.69
Ex-nuptial births per 100 unmarried women 15-44 incl.	0.78	0.56	0.83	0.41	0.70	0.96	0.69	1.05
Women 15-44 incl.—per cent. all persons	23.41	23.73	23.05	23.54	22.34	22.66	23.35	23.41
Average age of all women 15-44 incl.	29.06	29.42	28.88	29.12	28.62	28.54	29.10	28.54
Married women 15-44 incl.—per cent. on all persons	12.41	11.88	12.02	11.97	11.74	11.61	12.10	12.20
Average age of married women 15-44 incl.	33.38	34.00	33.41	33.98	33.21	32.98	33.58	32.48

(a) Nuptial births only.

The following figures give a comparison for Australia, based on data obtained at Census periods, of the total births per 1,000 women (married and unmarried) and of the nuptial births per 1,000 married women of ages 15 to 44 years inclusive:—

Particulars.	1880-82.	1890-92.	1900-02.	1910-12.	1920-22.	1932-34.
Births per 1,000 women aged 15-44	169.7	158.8	117.3	117.2	107.4	71.4
Nuptial births per 1,000 married women 15-44	321.0	332.0	235.8	236.0	196.5	131.4

3. Birth Rates of Various Countries.—(i) *Crude Rates.* A comparison with other countries for the year 1937, the latest year for which complete figures are available, shows that the Australian States occupy a midway position. The rates for the pre-war period 1908–1913 have been added for purposes of comparison :—

CRUDE BIRTH RATES(a) : VARIOUS COUNTRIES.

Country.	1908 to 1913.	1937.	Country.	1908 to 1913.	1937.
Egypt .. ..	43.6	43.5	Finland .. ..	29.5	18.9
Soviet Union .. ..	45.6	42.7(c)	Germany .. ..	29.5	18.8
Ceylon .. ..	36.9	37.8	Denmark .. ..	27.1	18.0
Rumania .. ..	43.1	30.8	Scotland .. ..	26.2	17.6
Japan .. ..	32.9	30.6	New South Wales .. ..	28.2	17.6
Portugal .. ..	34.6	27.0	<b>Australia .. ..</b>	<b>27.4</b>	<b>17.4</b>
Spain .. ..	32.1	25.6(d)	New Zealand .. ..	26.5	17.3
Union of South Africa (Europeans) .. ..	(b)	25.1	Czechoslovakia .. ..	31.1	17.2
Poland .. ..	37.4	24.9	U.S. of America .. ..	(b)	17.0
Argentine Republic .. ..	37.1	24.0	Victoria .. ..	25.3	16.0
Italy .. ..	32.4	22.9	South Australia .. ..	27.1	15.3
Tasmania .. ..	29.6	20.7	Norway .. ..	26.0	15.3
Canada .. ..	(b)	19.8	Great Britain and Northern Ireland .. ..	24.6	15.3
Netherlands .. ..	29.1	19.8	Belgium .. ..	23.4	15.3
Northern Ireland .. ..	23.1	19.8	Switzerland .. ..	24.7	15.0
Queensland .. ..	28.2	19.4	England and Wales .. ..	24.9	14.9
Eire .. ..	23.1	19.2	France .. ..	19.5	14.7
Western Australia .. ..	28.9	19.0	Sweden .. ..	24.4	14.3

(a) Number of births per 1,000 of the mean population. (b) Not available. (c) For 1932.  
(d) For 1935.

(ii) *Nuptial Birth Rates at Child-bearing Ages.* The wide discrepancies between the crude birth rates of the various countries are, to some extent, due to differences in sex and age constitution and in conjugal condition. If the birth rates are calculated per 1,000 women of child-bearing ages, the comparison gives more reliable results. A table of results so calculated for the period 1906 to 1915 or thereabouts appeared in Year Book No. 22, p. 941, and showed that Australia, with a rate of 198 nuptial births per 1,000 married women aged 15 to 49 years, was midway between the maximum and minimum of the countries for which these rates were obtained.

4. *Masculinity of Live Births.*—(i) *General.* The masculinity of live births, i.e., the number of males per 100 females, varies considerably from State to State and from year to year. For 1938 the figures ranged from 104.62 in New South Wales to 107.40 in Tasmania. The averages for the last inter-censal period, 1921 to 1933, were as follows:—New South Wales 105.33, Victoria, 106.19, Queensland 105.34, South Australia 105.08, Western Australia 105.66, Tasmania 105.59, Australia 105.57. The following table shows the figures for Australia at intervals since 1901 :—

MASCULINITY(a) OF LIVE BIRTHS REGISTERED : AUSTRALIA.

Particulars.	1901.	1911.	1921.	1931.	1935.	1936.	1937.	1938.
Total Births .. ..	104.11	104.73	105.86	106.15	104.52	104.79	104.60	105.76
Ex-nuptial Births .. ..	105.50	103.10	106.09	102.60	107.14	101.81	103.83	104.08

(a) Number of male per 100 female births.

(ii) *Masculinity of Nuptial and Ex-nuptial Births—Various Countries.* A table showing the masculinity of nuptial and ex-nuptial births for various countries appeared on p. 942 of Official Year Book No. 22.

5. *Ex-nuptial Live Births.*—(i) *General.* The number of ex-nuptial live births reached its maximum, 7,438, in 1913, but it has since fallen considerably. On the average during the five years 1910-1914 the number of ex-nuptial live births in Australia was 7,171, while for the period 1934-1938 it was only 5,033, a decline of 29.8 per cent., whereas the annual average total live births for the same period declined by 10.7 per cent., from 129,156 to 115,284; hence a comparison between the results for these two periods shows that the proportion of ex-nuptial births has fallen from 5.55 to 4.37 per cent. of all births.

The numbers of births and the rates at intervals from 1901 to 1938 are shown below:—

EX-NUPTIAL LIVE BIRTHS AND BIRTH RATES: AUSTRALIA.

Particulars.	1901.	1911.	1921.	1931.	1935.	1936.	1937.	1938.
Number of Ex-Nuptial Births ..	6,165	7,074	6,463	5,841	4,901	5,126	5,163	5,049
Percentage of Total Births ..	5.99	5.79	4.75	4.93	4.40	4.42	4.33	4.19

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, and it is not unlikely that the majority of unregistered births are ex-nuptial.

The variations of the ex-nuptial birth rates as between the individual States and Territories for 1938 are as follows:—

EX-NUPTIAL LIVE BIRTHS AND BIRTH RATES, 1938.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Nor. Ter.	A.C.T.	Australia.
Number..	1,983	1,302	920	268	337	215	18	6	5,049
Percentage of Total Births	4.19	4.29	4.84	2.85	3.69	4.38	17.65	3.00	4.19

(ii) *Rate of Ex-nuptiality.* A further comparison is obtained by calculating the number of ex-nuptial births per thousand of the single and widowed female population between the ages of 15 and 45 years. The number of ex-nuptial births per 1,000 unmarried women of ages 15 to 45 has been found to be as follows:—Years 1880-82, 14.49; 1890-92, 15.93; 1900-02, 13.30; 1910-12, 12.53; and 1920-22, 10.50. The estimated number for the years 1930-32 was 7.87. The comparative results for various countries given on p. 944 of Official Year Book No. 22 were taken from the *Annuaire International de Statistique*, Vols. II. and V., and showed that ex-nuptial births varied from 38 per 1,000 unmarried women aged 15 to 49 years in Hungary to 4 in Ireland and Bulgaria. The rate for Australia was 12 per thousand of the average for the years 1906-15.

(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.**

Rates.	1901.	1911.	1921.	1931.	1934.	1935.	1936.	1937.	1938.
Ex-nuptial	1.63	1.57	1.18	0.90	0.74	0.73	0.76	0.75	0.73
Nuptial ..	25.53	25.63	23.77	17.26	15.65	15.82	16.37	16.68	16.73
Total ..	27.16	27.20	24.95	18.16	16.39	16.55	17.13	17.43	17.46

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

6. *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 intentions, 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 1937, 860 children were legitimized in Australia.

7. *Multiple Births.*—Among the total number of 120,415 live births registered in Australia in 1938, there were 117,999 single births, 2,390 twins and 26 triplets. The number of cases of twins was 1,239 and of triplets 9, there being 88 stillborn twins and 1 stillborn triplet. The total number of mothers was, therefore, 119,247, the proportion of mothers of twins being one in every 96, of mothers of triplets one in every 13,250, and of mothers of all multiple births one in every 96 mothers. Multiple births occurred in 1.05 per cent. of confinements.

The proportion of multiple births to total births does not vary greatly from year to year and exhibits no tendency towards increase or decrease :—

**MULTIPLE BIRTHS : AUSTRALIA.**

Particulars.	1911.	1921.	1931.	1934.	1935.	1936.	1937.	1938.
Mothers of Multiple Births ..	1,236	1,465	1,271	1,171	1,157	1,229	1,304	1,248
Percentage on Total Mothers	1.02	1.09	1.08	1.08	1.05	1.07	1.11	1.05
Number of Mothers to each Multiple Birth ..	98	92	92	93	95	94	90	96

8. *Ages of Parents.*—The relative ages of the parents of children registered in 1938 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 Bulletin* No. 56, published by this Bureau. In the present work the exigencies of space allow the insertion of a table showing the relative ages of parents of all births in groups of five years only :—

AGES OF PARENTS : AUSTRALIA, 1938.

Ages of Fathers and Type of Birth.	Total.	Ages of Mothers.								
		Under 15.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 and upwards.	Unspecified.
Under 20 { Single Twins	661 5	.. 1	466 2	175 2	18 ..	2 ..	.. ..	.. ..	.. ..	.. ..
20 to 24 { Single Twins	14,389 108	.. ..	3,268 24	9,259 68	1,689 14	147 1	20 1	2 ..	.. ..	.. ..
25 to 29 { Single Twins Triplets	32,695 283 3	.. .. ..	1,610 14 ..	13,967 109 1	14,650 133 2	2,249 23 ..	200 4 ..	19 .. ..	.. .. ..	.. .. ..
30 to 34 { Single Twins Triplets	30,699 327 1	.. .. ..	407 1 ..	5,286 35 1	13,113 130 ..	10,430 134 ..	1,366 24 ..	92 3 ..	4 .. ..	.. .. ..
35 to 39 { Single Twins Triplets	18,847 271 3	.. .. ..	117 1 ..	1,310 16 ..	4,300 53 1	7,322 112 1	5,231 79 1	553 9 ..	13 1 ..	1 .. ..
40 to 44 { Single Twins	9,055 116	.. ..	28 ..	391 3	1,055 5	2,386 31	3,503 54	1,627 23	65 ..	.. ..
45 to 49 { Single Twins Triplets	4,401 53 1	.. .. ..	9 .. ..	115 .. ..	372 3 ..	799 9 ..	1,572 27 1	1,331 12 1	202 2 ..	.. .. ..
50 to 54 { Single Twins	1,543 27	.. ..	3 ..	33 ..	145 1	269 10	484 8	504 7	105 1	.. ..
55 to 59 { Single Twins	513 5	.. ..	2 ..	16 ..	43 2	87 2	153 ..	173 1	39 ..	.. ..
60 to 64 Single	144	..	1	8	15	28	33	50	9	..
65 and Upwards Single	87	..	1	2	7	21	26	23	7	..
Unspecified Single	7	..	..	..	2	3	..	..	..	2
Mothers of Nuptial Children { Single Twins Triplets Total	113,041 1,195 8 114,244	6 1 .. 7	5,912 42 .. 5,954	30,562 233 2 30,797	35,409 341 3 35,753	23,743 322 1 24,066	12,588 197 1 12,786	4,374 55 1 4,430	444 4 .. 448	3 .. .. 3
Mothers of Ex-Nuptial Children { Single Twins Triplets Total	4,958 44 1 5,003	37 .. .. 37	1,272 4 .. 1,276	1,805 17 .. 1,822	864 10 .. 874	484 6 .. 490	312 6 1 319	147 1 .. 148	18 .. .. 18	19 .. .. 19
Total Mothers { Single Twins Triplets	117,999 1,239 9	43 1 ..	7,184 46 ..	32,367 250 2	36,273 351 3	24,227 328 1	12,900 203 2	4,521 56 1	462 4 ..	22 .. ..
Total ..	119,247	44	7,230	32,619	36,627	24,556	13,105	4,578	466	22

9. Birthplaces of Parents.—The birthplaces of the parents of children whose births were registered during the year 1938 will be found in *Demography Bulletin* No. 56,

published by this Bureau. A summary of the results of the tabulation with the addition of the corresponding figures for 1911 follows:—

#### BIRTHPLACES OF PARENTS: AUSTRALIA.

Birthplace.	Fathers.		Mothers of Nuptial Children.		Mothers of Ex-nuptial Children.	
	1911.	1938.	1911.	1938.	1911.	1938.
<b>AUSTRALASIA—</b>						
Australia .. ..	94,834	98,269	102,073	103,415	6,570	4,641
New Zealand .. ..	1,257	877	1,201	668	68	33
<b>EUROPE—</b>						
England and Wales .. ..	9,849	8,299	6,067	5,630	210	201
Scotland .. ..	2,289	2,417	1,486	1,682	46	54
Eire .. ..	2,138	853	1,374	465	46	10
Other British Possessions .. ..	49	154	20	92	1	2
Western Europe .. ..	607	194	165	61	9	4
Central Europe .. ..	1,185	348	606	176	8	7
Southern Europe .. ..	360	1,794	203	1,361	6	16
Eastern Europe .. ..	168	119	81	52	..	3
<b>ASIA—</b>						
British Possessions .. ..	217	216	114	111	2	3
Foreign Countries .. ..	317	188	139	137	3	3
<b>AFRICA—</b>						
British Possessions .. ..	111	195	116	143	2	1
Foreign Countries .. ..	11	18	13	19	..	..
<b>AMERICA—</b>						
Canada .. ..	59	99	34	60	3	3
Other British Possessions .. ..	8	9	5	1	..	..
United States of America .. ..	182	97	87	82	3	1
Other Foreign Countries .. ..	70	28	19	23	1	..
<b>POLYNESIA—</b>						
British .. ..	30	36	21	36	1	3
Foreign .. ..	39	19	13	15	6	1
At Sea and Indefinite .. ..	159	15	102	15	33	17
<b>Total .. ..</b>	<b>113,939</b>	<b>114,244</b>	<b>113,939</b>	<b>114,244</b>	<b>7,018</b>	<b>5,003</b>

10. Occupations of Fathers.—A summary of the main groups of occupations of the fathers of all nuptial children whose births were registered in 1921, 1931 and 1938, together with the percentage of each class on the total, is given in the following table:—

#### OCCUPATIONS OF FATHERS OF NUPTIAL CHILDREN: AUSTRALIA.

Occupation Group.	Number of Fathers.			Percentage of Total.		
	1921.	1931.	1938.	1921.	1931.	1938.
Agricultural, Pastoral, Mining, etc. .. ..	32,405	24,760	23,130	%	%	%
Industrial .. ..	53,567	49,902	23,995	41.74	44.76	21.00
Transport and Communication .. ..	15,351	12,302	10,875	11.96	11.04	9.52
Commercial .. ..	18,298	16,030	12,082	14.26	14.38	10.57
Professional .. ..	6,204	5,991	6,497	4.84	5.37	5.69
Domestic .. ..	2,319	2,146	1,920	1.81	1.93	1.68
Indefinite .. ..	182	349	435,745	0.14	0.31	(a)31.29
<b>Total .. ..</b>	<b>128,326</b>	<b>111,480</b>	<b>114,244</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

(a) Includes 35,389 (30.98 per cent.) clerks, labourers, etc., not specified as belonging to any industry, who were formerly included under "Commercial" or "Industrial".

11. *Mother's Age, Duration of Marriage, and Issue.*—(i) *General.* The total number of nuptial confinements resulting in live births in 1938 was 114,244, viz., 113,041 single births, 1,195 cases of twins, and 8 cases of triplets. Ex-nuptial children, if previous issue by the same father, are included as previous issue, but children by former marriages and stillborn children are excluded. The tables cannot be given in detail but the following are their most salient features. The complete tabulations are shown in *Demography Bulletin* No. 56, issued by this Bureau.

(ii) *Duration of Marriage and Issue of Mothers.* The following table shows that 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 1938 was 2.54 compared with 2.60 in 1937, 2.65 in 1936, 2.74 in 1935, and 2.83 in 1934.

## DURATION OF MARRIAGE AND ISSUE OF MOTHERS: AUSTRALIA, 1938.

Duration of Marriage.	Total Mothers.	Total Issue.	Average Number of Children.	Duration of Marriage.	Total Mothers.	Total Issue.	Average Number of Children.
Years.				Years.			
0-1 ..	19,786	19,944	1.01	18-19 ..	964	6,556	6.80
1-2 ..	15,867	19,217	1.21	19-20 ..	674	4,915	7.29
2-3 ..	13,358	22,136	1.66	20-21 ..	464	3,429	7.39
3-4 ..	11,004	21,669	1.97	21-22 ..	364	2,877	7.90
4-5 ..	8,821	20,363	2.31	22-23 ..	320	2,680	8.38
5-6 ..	7,009	18,474	2.64	23-24 ..	250	2,258	9.03
6-7 ..	5,439	15,831	2.91	24-25 ..	140	1,296	9.26
7-8 ..	4,577	14,675	3.21	25-26 ..	84	758	9.02
8-9 ..	4,455	15,369	3.45	26-27 ..	57	582	10.21
9-10 ..	3,838	14,331	3.73	27-28 ..	32	322	10.06
10-11 ..	3,413	13,869	4.06	28-29 ..	15	183	12.20
11-12 ..	2,926	12,826	4.38	29-30 ..	8	88	11.00
12-13 ..	2,545	11,870	4.66	30-31 ..	2	14	7.00
13-14 ..	2,104	10,297	4.89	31-32 ..	3	31	10.33
14-15 ..	1,696	9,025	5.32	33-34 ..	1	9	9.00
15-16 ..	1,443	8,258	5.72	Not Stated	2	13	6.50
16-17 ..	1,359	8,245	6.07				
17-18 ..	1,224	7,767	6.35				
				Total ..	114,244	290,177	2.54

(iii) *Ages of Mothers and Issue.* The following table shows the average number of children borne by mothers of different ages. In the younger ages there is, naturally, little difference in the average number of children to each mother, but with the increase

of the age of the mother the number of issue has fallen in comparison with past years. During the period 1911 to 1938 the average issue of mothers of all ages has fallen by 23.95 per cent.—from 3.34 in 1911 to 2.54 in 1938:—

#### AGES AND ISSUE OF MOTHERS: AUSTRALIA.

Ages of Mothers.	Average Number of Children.				Ages of Mothers.	Average Number of Children.			
	1911.	1921.	1931.	1938.		1911.	1921.	1931.	1938.
Under 20 years ..	1.18	1.16	1.21	1.20	40-44 years ..	6.97	6.27	6.00	5.70
20-24 years ..	1.77	1.64	1.74	1.64	45 years and over..	8.52	8.04	7.48	7.38
25-29 " ..	2.64	2.44	2.46	2.18					
30-34 " ..	3.82	3.57	3.44	2.99					
35-39 " ..	5.28	4.95	4.71	4.23	All Ages ..	3.34	3.08	2.95	2.54

(iv) *Previous Issue of Mothers, Various Ages.* A classification of mothers of various ages according to previous issue is given in the following table:—

#### MOTHERS OF VARIOUS AGES ACCORDING TO PREVIOUS ISSUE: AUSTRALIA, 1938.

Previous Issue.	Mothers' Ages.							Total.
	Under 20 Years.	20-24 Years.	25-29 Years.	30-34 Years.	35-39 Years.	40-44 Years.	45 Years and Over.	
0	4,884	17,343	14,070	5,596	1,657	352	18	43,920
1	969	8,941	10,635	6,390	2,138	369	(a) 19	29,461
2	106	3,266	5,561	4,591	2,133	523	22	16,202
3	2	961	3,028	2,910	1,782	541	50	9,274
4	..	230	1,435	1,953	1,505	523	(b) 37	5,683
5	..	49	681	1,190	1,195	466	52	3,633
6	..	5	235	712	812	399	57	2,220
7	..	1	80	404	654	383	30	1,552
8	..	1	24	176	412	293	33	939
9	..	..	4	96	271	226	51	648
10	..	..	..	29	121	159	28	337
11	..	..	..	12	67	108	17	204
12	..	..	..	5	27	44	13	89
13	..	..	..	1	8	23	6	38
14	..	..	..	1	3	14	10	28
15	..	..	..	..	1	4	4	9
16	..	..	..	..	..	2	3	5
17	..	..	..	..	..	..	..	..
18	..	..	..	..	..	1	..	1
19	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	1	1
<b>Total Mothers</b>	<b>5,961</b>	<b>30,797</b>	<b>35,753</b>	<b>24,066</b>	<b>12,786</b>	<b>4,430</b>	<b>451</b>	<b>114,244</b>

(a) Including one mother with age not stated.

(b) Including two mothers with age not stated.

(v) *Previous Issue of Mothers of Twins and Triplets.* Figures regarding the previous issue of married mothers of twins show that 372 mothers had no previous issue either living or deceased, 273 had one child previously, while 198 had two previous issue, 123 three, 79 four, 53 five, 32 six, 28 seven, 18 eight, 6 nine, 7 ten, 3 eleven, 1 twelve, 1 fourteen, and 1 fifteen previous issue.

Of the 8 cases of triplets registered during 1938, 3 mothers had no previous issue, 3 had one previous issue, 1 four, and 1 five previous issue.

12. **Interval between Marriage and First Birth.**—(i) *Interval.* The following table shows the interval between marriage and first birth for the years 1911, 1921, 1931 and 1938 respectively. Twins, triplets and quadruplets are included, the eldest only being enumerated:—

**INTERVAL BETWEEN MARRIAGE AND FIRST BIRTH: AUSTRALIA.**

Interval.	Number of First Children.				Percentage of Total.			
	1911.	1921.	1931.	1938.	1911.	1921.	1931.	1938.
Under 1 month ..	562	437	395	255	%	%	%	%
1 month ..	608	538	523	376	1.81	1.07	1.15	0.58
2 months ..	817	735	750	580	1.96	1.31	1.52	0.86
3 " ..	1,125	1,017	1,135	847	2.63	1.79	2.17	1.32
4 " ..	1,299	1,336	1,409	1,357	3.63	2.48	3.29	1.93
5 " ..	1,651	1,781	1,968	1,969	4.19	3.26	4.09	3.09
6 " ..	2,089	2,420	2,517	2,997	5.33	4.34	5.71	4.48
7 " ..	1,602	2,231	2,022	2,230	6.74	5.90	7.30	6.82
8 " ..	1,529	1,950	1,139	1,542	5.17	5.44	5.86	5.08
9 " ..	3,361	4,222	2,272	3,022	4.93	4.75	3.30	3.51
10 " ..	2,623	3,630	1,859	2,431	10.84	10.29	6.59	6.88
11 " ..	1,893	2,645	1,636	2,051	8.46	8.85	5.39	5.54
<b>Total under 1 year</b> ..	<b>19,159</b>	<b>22,942</b>	<b>17,625</b>	<b>19,657</b>	<b>61.80</b>	<b>55.93</b>	<b>51.11</b>	<b>44.76</b>
1-2 years ..	7,400	11,149	8,888	12,619	23.87	27.18	25.77	28.73
2-3 " ..	2,101	2,923	3,441	5,346	6.78	7.13	9.98	12.17
3-4 " ..	908	1,413	1,823	2,732	2.93	3.45	5.29	6.22
4-5 " ..	471	837	967	1,368	1.52	2.04	2.80	3.11
5-9 " ..	762	1,473	1,424	1,812	2.46	3.59	4.13	4.13
10-14 " ..	159	223	262	326	0.51	0.54	0.76	0.74
15-19 " ..	31	54	50	52	0.10	0.13	0.14	0.12
20 years and over ..	9	4	6	8	0.03	0.01	0.02	0.02
<b>Total</b> ..	<b>31,000</b>	<b>41,018</b>	<b>34,486</b>	<b>43,920</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

The masculinity of first births was 106.20 compared with 105.76 for total births.

(ii) *Ages of Mothers and Interval.* The previous issue of mothers of ex-nuptial children is not recorded, but for the purposes of the following table all ex-nuptial births have been assumed to be first births. The table shows in a condensed form the ages of mothers in cases of ex-nuptial births, of nuptial first births occurring less than nine months after marriage, and of all ex-nuptial and nuptial first births. A comparison of the combined total of the first two columns with the total of nuptial children born nine months or more after marriage shows that for all ages the ratio was approximately 3 to 5. At all ages up to and including 21, however, there was a preponderance of ex-nuptial births and of births following on ante-nuptial conception. It must, of course, be understood that a certain number of premature births is necessarily included among the births which occurred less than nine months after marriage, but information in connexion therewith is not available, and the figures in the table must be accepted with this reservation. The tabulation in single ages of mothers appears in *Demography Bulletin* No. 56, published by this Bureau.

The last four columns show the percentage of births following ante-nuptial conception on the total nuptial first births and ex-nuptial births. These columns disclose the remarkable fact that the percentage of births due to ante-nuptial conception diminishes rapidly from about 79 per cent. among mothers under 20 years of age to a minimum of about 17.55 per cent. among mothers 25 to 34 years and then rises perceptibly for mothers of older ages.

**AGES OF MOTHERS AND INTERVAL BETWEEN MARRIAGE AND FIRST BIRTH, ETC. : AUSTRALIA.**

Age of Mother at Birth of Child.	1938.				Percentage Column III. on Column IV.			
	Ex-nuptial Births.	Nuptial Births less than nine months after Marriage.	Total of two preceding columns.	Nuptial First Births and Ex-nuptial Births.	1911.	1921.	1931.	1938.
	I.	II.	III.	IV.	%	%	%	%
Under 20 years	1,313	3,566	4,879	6,197	83.12	79.23	82.60	78.73
20 to 24 years	1,822	6,030	7,852	19,165	53.91	45.82	48.43	40.97
25 to 29 "	874	1,779	2,653	14,944	32.50	25.60	21.89	17.75
30 to 34 "	490	548	1,038	6,086	28.06	23.05	22.20	17.06
35 to 39 "	319	178	497	1,976	32.64	29.43	30.86	25.15
40 to 44 "	148	47	195	500	36.56	35.31	38.95	39.00
45 and over ..	37	5	42	55	60.47	54.84	48.89	76.36
<b>Total</b> ..	<b>5,003</b>	<b>12,153</b>	<b>17,156</b>	<b>48,923</b>	<b>48.14</b>	<b>39.74</b>	<b>43.80</b>	<b>35.07</b>

13. Interval between Birth and Registration of Birth.—Detailed information for the years 1911 to 1921 regarding the period which elapsed between birth and registration of birth was contained in *Demography Bulletins* issued by this Bureau for those years. The average interval for the year 1921 was 14.22 days for all children.

## § 2. Stillbirths.

Reliable statistics of the number of children born dead in Australia are not available as registration of these births is not compulsory in all the Australian States. Based on such information as is available the estimated number of stillbirths in Australia during 1938 was approximately 3,500.

## § 3. Marriages.

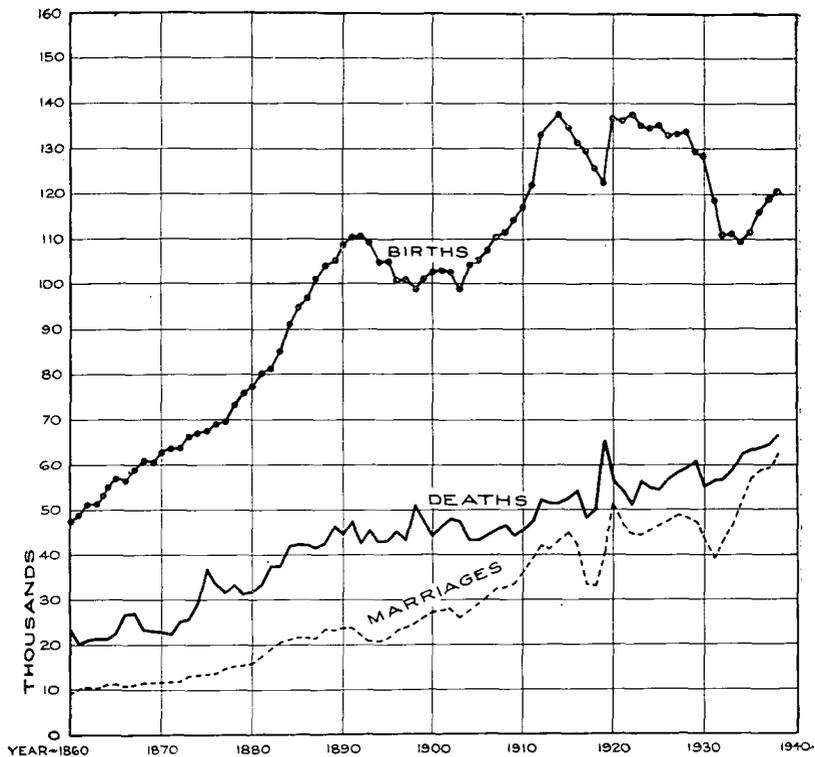
1. Marriages, 1938.—The number of marriages registered in Australia during the year ended the 31st December, 1938, was 62,411, giving a rate of 9.05 per 1,000 of the mean population for the year. A summary of the number of marriages in each State and Territory at intervals since 1901 is given in the following table:—

### MARRIAGES, 1901 to 1938.

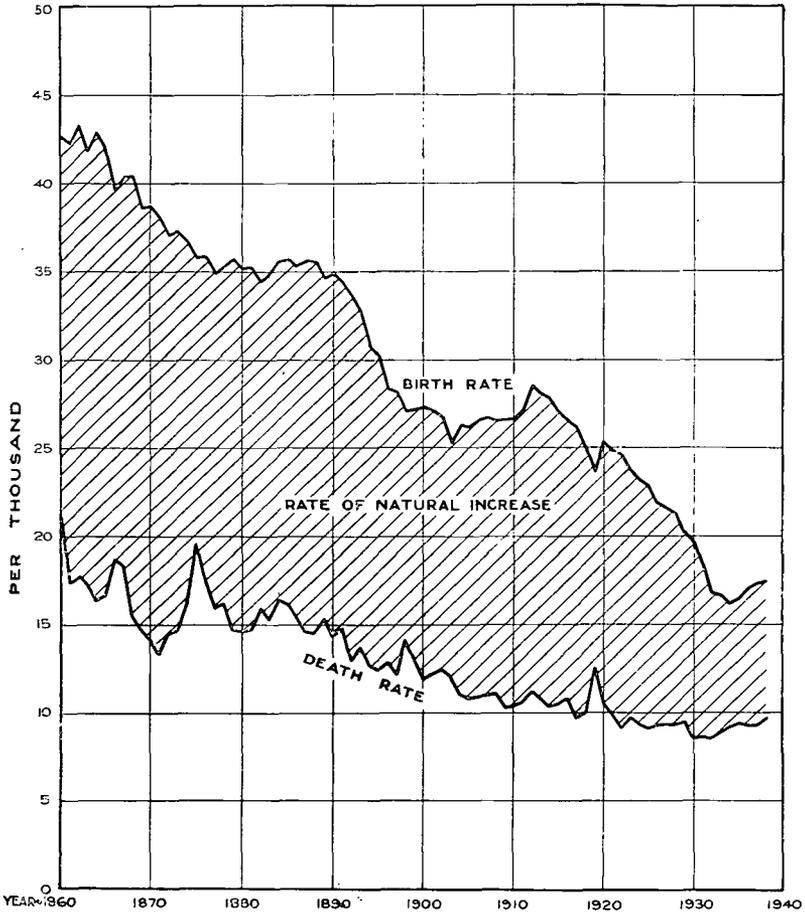
Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Nor. Ter.	A.C.T.	Australia.
1901 ..	10,538	8,406	3,341	2,304	1,821	1,338	5	(a)	27,753
1911 ..	15,278	11,088	5,167	4,036	2,421	1,477	10	5	39,482
1921 ..	18,506	13,676	5,963	4,383	2,656	1,668	15	2	46,869
1931 ..	15,377	10,182	5,951	3,069	2,741	1,501	25	36	38,882
1933 ..	18,399	12,668	6,471	3,973	3,374	1,629	28	53	46,595
1934 ..	20,210	13,862	7,635	4,310	3,682	1,678	30	58	51,465
1935 ..	22,361	15,499	8,280	4,845	3,940	1,875	42	74	56,826
1936 ..	22,873	15,915	8,306	5,182	4,242	2,073	41	77	58,709
1937 ..	23,188	16,226	8,353	5,340	4,169	2,042	69	61	59,448
1938 ..	24,579	17,113	8,853	5,489	4,153	2,082	67	75	62,411

(a) Part of New South Wales.

BIRTHS, DEATHS, AND MARRIAGES—AUSTRALIA, 1860 TO 1938.

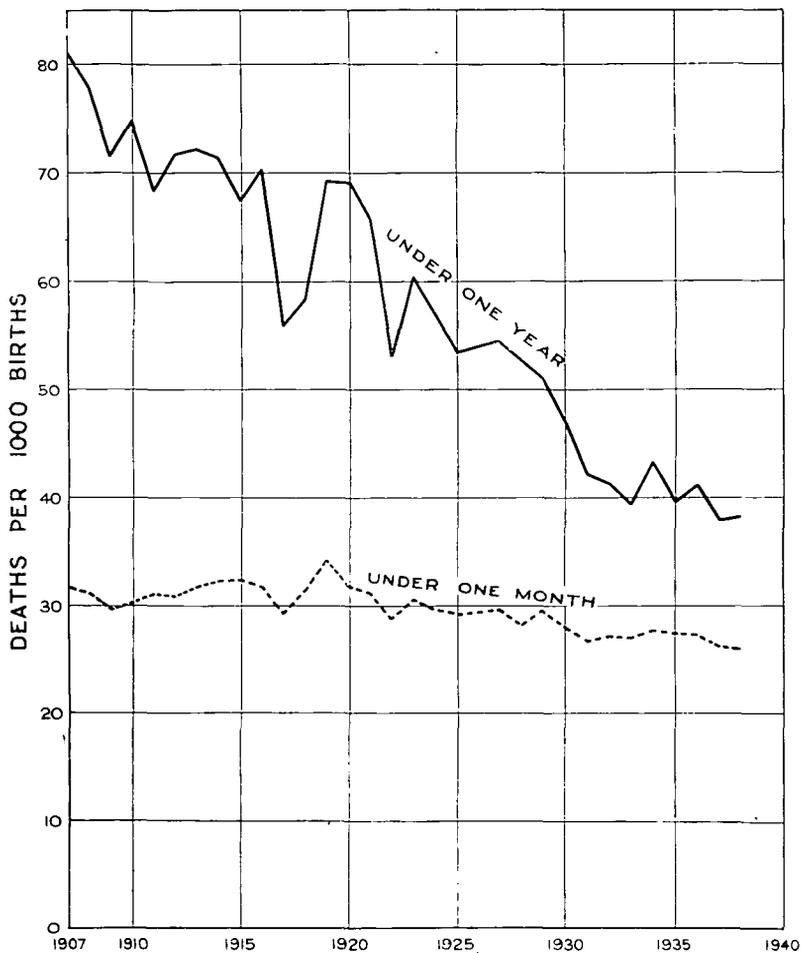


RATES OF BIRTHS, DEATHS, AND NATURAL INCREASE--AUSTRALIA, 1860 TO 1938.



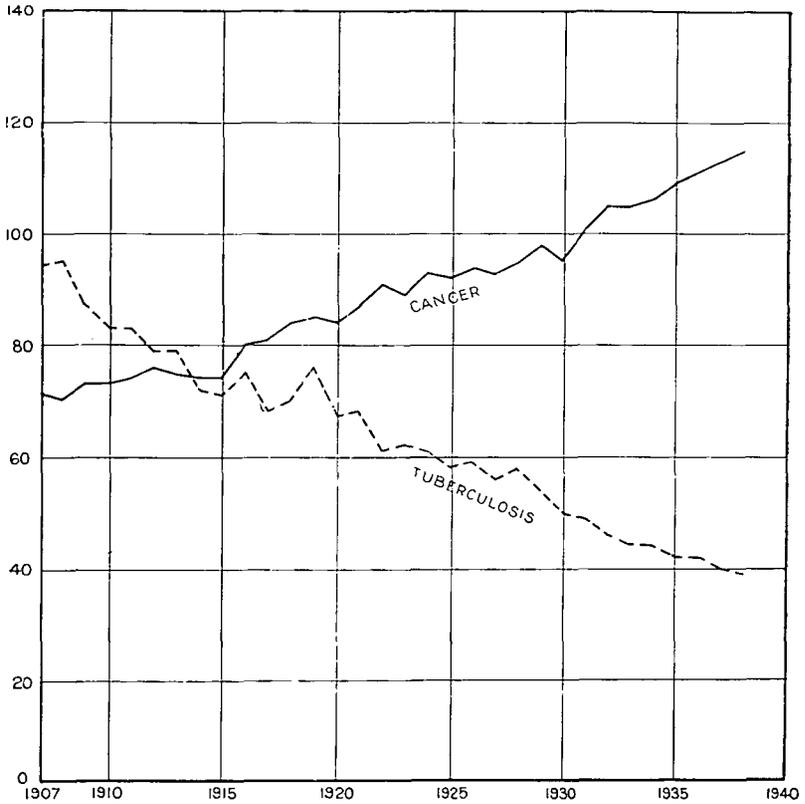
EXPLANATION.—The upper curve represents the number of births per 1,000 persons, while the lower curve represents the corresponding death rate. The distance between the two curves is the rate of natural increase.

INFANTILE MORTALITY RATES—AUSTRALIA, 1907 TO 1938.



EXPLANATION.—This graph shows the marked improvement in infant mortality rates over the past 30 years. The improvement has been confined mainly to children over one month, very little change having occurred in the first month of life (see page 309).

DEATH RATES—CANCER AND TUBERCULOSIS—AUSTRALIA, 1907 TO 1938.



(See page 332.)

EXPLANATION.—The vertical scale represents the number of deaths per 100,000 of the population.

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)

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Nor. Ter.	A.C.T.	Australia.
1901 ..	7.73	6.99	6.66	6.45	9.68	7.76	1.05	..	7.32
1911 ..	9.19	8.40	8.41	9.80	8.44	7.77	3.02	2.81	8.79
1921 ..	8.78	8.90	7.82	8.82	7.95	7.82	3.83	0.80	8.59
1926 ..	8.19	7.90	7.50	8.13	7.47	6.71	3.55	2.74	7.90
1927 ..	8.34	7.88	7.21	7.96	7.93	6.72	5.84	3.88	7.93
1928 ..	8.16	7.53	7.14	7.26	8.12	6.97	5.16	3.54	7.71
1929 ..	7.80	7.31	6.87	6.50	8.00	7.86	4.48	5.03	7.43
1930 ..	6.86	6.52	6.81	5.78	7.47	6.56	6.23	3.79	6.69
1931 ..	6.02	5.66	6.43	5.33	6.34	6.68	5.04	4.09	5.96
1932 ..	6.73	6.49	6.86	6.29	6.68	6.64	4.47	4.82	6.63
1933 ..	7.07	6.96	6.84	6.84	7.69	7.13	5.76	(b)5.85	7.03
1934 ..	7.70	7.57	7.99	7.39	8.34	7.32	6.08	(b)6.26	7.71
1935 ..	8.45	8.38	8.57	8.28	8.85	8.17	8.23	(b)7.89	8.45
1936 ..	8.57	8.61	8.49	8.82	9.43	8.98	7.80	(b)7.89	8.66
1937 ..	8.61	8.74	8.44	9.06	9.18	8.73	12.75	(b)5.98	8.70
1938 ..	9.03	9.16	8.85	9.26	9.03	8.83	11.70	6.74	9.05

(a) Number of marriages (not persons married) per 1,000 of mean annual population. (b) See footnote (c) to table on p. 352. The following are revised rates:—1933, 5.84; 1934, 6.15; 1935, 7.60; 1936, 7.48; and 1937, 5.60.

As in some international tabulations the marriage rates are calculated per 1,000 of the unmarried population of 15 years and over, the corresponding rates have been worked out for Australia for the last six census periods for which the particulars are available. The figures comprise in each case the census year with the year immediately preceding and the year immediately following, and are as follows:—Years 1880-82, 48.98; years 1890-92, 45.74; years 1900-02, 42.14; years 1910-12, 50.44; years 1920-22, 56.02; and years 1932-34, 42.88. These rates refer, of course, to persons married, and not to marriages as is the case in the preceding table.

3. Marriage Rates in Various Countries.—The following table shows the marriage rate for Australia for the year 1937, in comparison with the rates for various other countries:—

## CRUDE MARRIAGE RATES(a) : VARIOUS COUNTRIES.

Country.	1908 to 1913.	1937.	Country.	1908 to 1913.	1937.
Union of South Africa(b)	(c)	11.1(d)	Great Britain and Northern Ireland ..	7.3	8.6
United States ..	(c)	11.0	Finland ..	6.1	8.5
Soviet Union ..	8.6	10.6(e)	Czechoslovakia ..	7.7	8.3
New Zealand ..	8.5	9.6	Norway ..	6.2	8.3
Rumania ..	9.5	9.5	Poland ..	7.0	8.0
Japan ..	9.3	9.5	Canada ..	(c)	7.9
South Australia ..	9.1	9.3	Scotland ..	6.7	7.7
Victoria ..	8.0	9.2	Belgium ..	7.9	7.6
Germany ..	7.8	9.1	Netherlands ..	7.5	7.6
Denmark ..	7.3	9.1	Switzerland ..	7.3	7.3
New South Wales ..	8.8	9.0	Argentine Republic ..	6.8	7.2
Australia ..	8.4	9.0	Northern Ireland ..	5.2	6.7
Western Australia ..	8.1	9.0	France ..	7.9	6.6
Queensland ..	8.2	8.9	Portugal ..	6.9	6.4
Tasmania ..	7.9	8.8	Spain ..	7.0	6.1(f)
England and Wales ..	7.6	8.8	Ceylon ..	5.2	5.8
Italy ..	7.7	8.7	Eire ..	5.2	5.0
Sweden ..	6.0	8.7			

(a) Number of marriages per 1,000 of mean population. (b) European population only. (c) Not available. (d) For 1936. (e) For 1929. (f) For 1935.

4. **Ages and Conjugal Condition at Marriage.**—(i) *General.* The ages at marriage of bridegrooms and brides will be found in *Demography Bulletin*, No. 56, published by this Bureau. A summary in age-groups is given in the table hereunder, which also shows the previous conjugal condition of the contracting parties. There were 2,630 males who were less than twenty-one years of age married during 1938, while the corresponding number of females was 12,560. At the other extreme there were 71 men of sixty-five years and upwards who described themselves as bachelors, and 24 spinsters of corresponding age.

Information regarding the percentage distribution of bridegrooms and brides is shown in the last five lines of the table for the years 1911, 1921, 1931, 1937 and 1938.

**AGES AND CONJUGAL CONDITION OF PERSONS MARRIED : AUSTRALIA, 1938.**

Ages at Marriage.	Bridegrooms.				Brides.			
	Bachelors.	Widowers.	Divorced.	Total.	Spinsters.	Widows.	Divorced.	Total.
Under 20..	1,295	..	..	1,295	8,461	3	2	8,466
20-24 years	18,643	18	20	18,681	27,241	65	103	27,409
25-29 "	21,559	155	167	21,881	14,851	162	409	15,422
30-34 "	9,449	315	360	10,124	4,722	245	423	5,390
35-39 "	3,750	398	404	4,552	1,763	296	349	2,408
40-44 "	1,410	371	264	2,045	754	335	203	1,292
45-49 "	731	467	230	1,428	403	352	141	896
50-54 "	365	434	152	951	170	280	65	515
55-59 "	167	381	63	611	86	151	22	259
60-64 "	82	259	17	358	52	144	5	201
65 years and over ..	71	398	16	485	24	127	2	153
<b>Total ..</b>	<b>57,522</b>	<b>3,196</b>	<b>1,693</b>	<b>62,411</b>	<b>58,527</b>	<b>2,160</b>	<b>1,724</b>	<b>62,411</b>
<b>Percentage on Total</b>	<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>
1911 ..	93.70	5.84	0.46	100.00	94.60	4.68	0.72	100.00
1921 ..	92.43	6.37	1.20	100.00	92.85	5.91	1.24	100.00
1931 ..	92.04	6.09	1.87	100.00	93.89	4.02	2.09	100.00
1937 ..	92.42	5.02	2.56	100.00	93.85	3.51	2.64	100.00
1938 ..	92.17	5.12	2.71	100.00	93.78	3.46	2.76	100.00

(ii) *Relative Ages, Bridegrooms and Brides.* The relative ages of bridegrooms and brides are shown for single years in *Demography Bulletin*, No. 55. A condensation into age-groups of five years is given below :—

**RELATIVE AGES OF PERSONS MARRIED : AUSTRALIA, 1938.**

Ages of Bridegrooms.	Total Bridegrooms.	Ages of Brides.							
		Under 15.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 and upwards.
Under 20 years ..	1,295	3	929	332	26	3	2	..	..
20 to 24 ..	18,681	9	4,767	11,548	2,158	164	26	6	3
25 to 29 ..	21,881	3	2,064	11,201	7,222	1,197	161	25	8
30 to 34 ..	10,124	3	512	3,177	3,920	1,960	416	103	(a) 33
35 to 39 ..	4,552	..	135	828	1,443	1,171	713	185	77
40 to 44 ..	2,045	1	21	219	399	466	444	322	173
45 to 49 ..	1,428	..	11	64	160	257	348	270	318
50 to 54 ..	951	..	4	21	64	114	163	202	383
55 to 59 ..	611	..	2	13	17	34	77	102	366
60 to 64 ..	358	..	2	3	9	15	30	48	251
65 years and over ..	485	..	..	3	4	9	28	29	412
<b>Total Brides ..</b>	<b>62,411</b>	<b>19</b>	<b>8,447</b>	<b>27,409</b>	<b>15,422</b>	<b>5,390</b>	<b>2,408</b>	<b>1,292</b>	<b>2,024</b>

(a) Including one case where the age of bride was not stated.

(iii) *Average Ages, Bridegrooms and Brides.* The age at marriage of brides declined slightly during recent years to an average of about 25½ years, but in 1937 and 1938 this decline has been arrested and the average has risen again to almost 26 years. The figures for the past five years are:—1934, 25.65; 1935, 25.70; 1936, 25.23; 1937, 25.86; and 1938, 25.92. For the five years 1907–11 the average age was 25.70 years compared with 25.92 years for the five years 1912–16, 26.07 years for the five years 1917–21, and 25.76 years for the five years 1925–29. The average age of bridegrooms was in 1934, 29.24; in 1935, 29.25; in 1936, 28.76; in 1937, 29.41; and in 1938, 29.52 years. It follows, therefore, that brides are, generally speaking, three and one-half years younger than bridegrooms.

5. *Previous Conjugal Condition.*—The number of bachelors and spinsters, widowed and divorced persons, who were married during the year 1938, has already been given. The following table shows the conjugal condition of the contracting parties:—

**PREVIOUS CONJUGAL CONDITION OF PERSONS MARRIED: AUSTRALIA, 1938.**

Conjugal Condition of Bridegrooms.	Total Bridegrooms.	Brides.		
		Spinsters.	Widows.	Divorced.
Bachelors .. .. .	57,522	55,226	1,127	1,169
Widowers .. .. .	3,196	2,008	878	310
Divorced .. .. .	1,693	1,293	155	245
<b>Total Brides ..</b>	<b>62,411</b>	<b>58,527</b>	<b>2,160</b>	<b>1,724</b>

6. *Birthplaces of Persons Married.*—The following table shows the birthplaces of persons who were married in 1911, 1921 and 1938. In *Demography Bulletin*, No. 56, the relative birthplaces of bridegrooms and brides married in 1938 will be found tabulated in detail:—

**BIRTHPLACES OF PERSONS MARRIED: AUSTRALIA.**

Birthplace.	Bridegrooms.			Brides.		
	1911.	1921.	1938.	1911.	1921.	1938.
<b>AUSTRALASIA—</b>						
Australia .. .. .	31,298	37,925	54,265	33,922	40,137	57,596
New Zealand .. .. .	450	405	573	303	280	386
<b>EUROPE—</b>						
England and Wales .. .. .	3,023	3,590	4,435	1,675	2,488	2,631
Scotland .. .. .	739	867	1,160	460	656	799
Eire .. .. .	494	470	414	363	281	171
Other British Possessions .. .. .	16	30	48	9	14	23
Western Europe .. .. .	205	175	123	45	45	44
Central Europe .. .. .	311	149	223	92	61	107
Southern Europe .. .. .	62	139	570	21	56	349
Eastern Europe .. .. .	47	83	61	18	21	27
<b>ASIA—</b>						
British Possessions .. .. .	59	59	97	27	24	41
Foreign Countries .. .. .	83	57	53	16	12	35
<b>AFRICA—</b>						
British Possessions .. .. .	42	58	120	20	39	52
Foreign Countries .. .. .	1	3	8	2	5	8
<b>AMERICA—</b>						
Canada .. .. .	44	45	85	6	11	31
Other British Possessions .. .. .	6	8	3	..	5	..
United States of America .. .. .	58	90	88	16	25	39
Other Foreign Countries .. .. .	44	11	16	15	10	13
<b>POLYNESIA—</b>						
British .. .. .	13	9	29	7	11	25
Foreign .. .. .	25	18	17	7	13	15
At Sea and Indefinite .. .. .	41	22	23	37	19	19
<b>Total .. .. .</b>	<b>37,061</b>	<b>44,213</b>	<b>62,411</b>	<b>37,061</b>	<b>44,213</b>	<b>62,411</b>

7. Occupations and Ages of Bridegrooms.—On the experience of 1931 the average ages at marriage of bridegrooms in the larger classes of occupations were as follows:—Professional, 30.01 years; Domestic, 30.47 years; Commercial, 29.20 years; Transport, 28.71 years; Industrial, 28.08 years; and Primary Producers, 30.15 years.

8. Fertility of Marriages.—The quotient obtained by division of the nuptial births registered, e.g., during the five years 1934 to 1938, by the number of marriages registered during the five years 1929 to 1933, i.e., the period antecedent by five years to the period of the births, has been called the "fertility of marriages." The quotient for this period is 2.62—in other words, the number of children to be expected from every marriage in Australia is under three. This method, while not absolutely accurate, generally furnishes results which agree fairly well with those found by more elaborate and careful investigation. For the following five-yearly periods the results were:—1929–33, 2.91; 1930–34, 2.58; 1931–35, 2.54; 1932–36, 2.29; 1933–37, 2.44; and 1934–38, 2.62.

9. Celebration of Marriages.—In all the States marriages may be celebrated either by ministers of religion whose names 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 1938 belonged to more than forty different denominations, some of which, however, can hardly be regarded as having any valid existence. A number of these have been omitted from the tabulation and are bracketed under the heading "Other Christian." The figures for 1938 are shown in the following table:—

## MARRIAGES IN EACH DENOMINATION, 1938.

Denomination.	N.S.W.	Vic.	Qld.	S.A.	W.A.	Tas.	Nor. Ter.	A.C.T.	Australia.	
									No.	Per Cent.
Church of England ..	9,901	4,894	2,696	1,374	1,525	813	16	44	21,263	34.07
Roman Catholic ..	5,042	3,175	1,942	576	765	358	15	11	11,884	19.04
Methodist ..	2,836	2,576	1,352	1,672	528	340	17	5	9,326	14.94
Presbyterian ..	2,854	3,761	1,466	236	327	124	..	7	8,775	14.06
Baptist ..	460	667	168	216	60	106	..	..	1,677	2.69
Congregational ..	481	388	150	258	111	66	..	..	1,454	2.33
Church of Christ ..	122	418	68	217	67	23	8	..	923	1.48
Lutheran ..	55	91	207	278	4	..	..	..	635	1.02
Salvation Army ..	114	116	79	46	24	12	..	..	391	0.63
Seventh-Day Adventist ..	65	39	21	17	21	8	..	..	171	0.27
Greek Catholic ..	44	18	5	10	8	..	..	..	85	0.14
Unitarian ..	2	40	..	13	..	..	..	..	55	0.09
Other Christian ..	143	90	269	34	15	37	..	..	588	0.94
Hebrew ..	72	69	1	4	12	..	..	..	158	0.25
Registrar's Office	2,388	771	429	538	686	195	11	8	5,026	8.05
Total ..	24,579	17,113	8,853	5,489	4,153	2,082	67	75	62,411	100.00
Marriages celebrated by Ministers of Religion										
per cent.	90.28	95.49	95.15	90.20	83.48	90.63	83.58	89.33	91.95	..
Marriages celebrated by Civil Officers										
per cent.	9.72	4.51	4.85	9.80	16.52	9.37	16.42	10.67	8.05	..

### § 4. Deaths.

1. Deaths, 1938.—The following table shows the number of deaths, male and female, registered in each State during the year :—

#### DEATHS, 1938.

Sex.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Nor. Ter.	A.C.T.	Australia.
Male ..	14,748	10,026	5,384	2,917	2,646	1,233	52	40	37,046
Female ..	11,357	8,929	3,817	2,622	1,588	1,055	17	20	29,405
Total ..	26,105	18,955	9,201	5,539	4,234	2,288	69	60	66,451

A summary of the total number of deaths in each State and Territory at intervals since 1901 is given in the following table :—

#### DEATHS, 1901-1938.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Nor. Ter.	A.C.T.	Australia.
1901 ..	16,021	15,904	6,007	3,974	2,519	1,814	91	(a)	46,330
1911 ..	17,146	15,216	6,544	4,038	2,923	1,927	65	10	47,869
1921 ..	20,026	16,165	7,142	4,982	3,480	2,197	80	4	54,076
1931 ..	21,270	17,033	7,525	4,888	3,681	2,057	70	36	56,560
1933 ..	22,322	17,456	8,354	4,904	3,790	2,192	61	38	59,117
1934 ..	23,474	18,648	8,192	5,403	4,076	2,345	60	31	62,229
1935 ..	24,547	18,456	8,851	5,163	4,118	2,353	70	41	63,599
1936 ..	24,376	18,778	8,593	5,464	4,230	2,387	60	44	63,932
1937 ..	25,235	18,613	9,006	5,247	4,065	2,225	63	42	64,496
1938 ..	26,105	18,955	9,201	5,539	4,234	2,288	69	60	66,451

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

2. Crude Death Rates.—The crude death rates at intervals from 1901 to 1938 are shown in the following table :—

#### CRUDE DEATH RATES.(a)

Year and Sex.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Nor. Ter.	A.C.T.	Australia.
1901 ..	11.75	13.22	11.98	11.12	13.39	10.51	19.10	(b)	12.22
1911 ..	10.31	11.52	10.65	9.81	10.19	10.14	19.63	5.61	10.66
1921 ..	9.50	10.52	9.37	10.02	10.42	10.30	20.44	1.61	9.91
1926 ..	9.44	9.63	9.58	8.81	8.79	8.94	16.22	6.60	9.40
1927 ..	9.46	9.71	9.28	9.07	8.65	9.54	17.07	6.06	9.42
1928 ..	9.21	10.11	9.01	9.02	8.93	9.89	15.92	5.73	9.42
1929 ..	9.82	9.44	9.26	8.80	9.34	9.99	14.55	4.57	9.52
1930 ..	8.39	8.93	8.19	8.46	8.80	8.82	15.46	3.57	8.56
1931 ..	8.32	9.47	8.14	8.49	8.51	9.15	14.12	4.09	8.67
1932 ..	8.27	9.29	8.35	8.58	8.54	8.90	14.85	3.25	8.63
1933 ..	8.58	9.59	8.84	8.44	8.64	9.60	12.55	(c)4.20	8.92
1934 ..	8.05	10.19	8.57	9.26	9.23	10.23	12.16	(c)3.35	9.32
1935 ..	9.28	10.03	9.16	8.83	9.25	10.25	13.72	(c)4.37	9.46
1936 ..	9.14	10.16	8.78	9.30	9.40	10.33	11.42	(c)4.51	9.43
1937 ..	9.36	10.03	9.10	8.91	8.95	9.51	11.64	(c)4.12	9.44
1938—									
Male ..	10.74	10.86	10.28	9.84	10.91	10.31	13.41	6.62	10.62
Female ..	8.42	9.45	8.00	8.85	7.30	9.09	9.20	3.94	8.63
Total ..	9.59	10.15	9.19	9.35	9.20	9.71	12.05	5.39	9.64

(a) Number of deaths per 1,000 of annual mean population. (b) Part of New South Wales prior to 1911. (c) See footnote (c) to table on p. 352. The following are revised rates :—1933, 4.19; 1934, 3.29; 1935, 4.21; 1936, 4.27; and 1937, 3.85.

3. *Index of Mortality.*—(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 the age constitution into consideration. Other conditions being equal, however, the death rate of a country will be low if it contains a large percentage of young people (not infants). In order to obtain a comparison of the mortality of various countries on a uniform basis so far as sex and age constitution are concerned, the standard population compiled by the International Institute of Statistics according to age distribution (eleven age-groups) of the population of nineteen European countries at their censuses nearest to the year 1900 is used in the computation of the "Index of Mortality" as distinguished from the crude death rate. Full details of the "Standard Population" will be found in Year Book No. 22, page 962.

(ii) *Comparison of Rates.* For the year 1938 on the basis of the crude rates there is a range of 0.86 per 1,000 persons between the lowest rate in Queensland (9.19) and the highest rate in Victoria (10.15). On the standardized rates the range was 1.18 per 1,000, i.e., between 8.34 in South Australia and 9.52 in New South Wales. In its application to the figures for 1938 the process of adjustment altered mainly the relative positions of the middle States from those determined by the crude rates. Thus Victoria and Queensland which were the highest and lowest respectively in the crude rates became fourth highest and second highest while Tasmania, which was second highest, had on the standardized basis the second lowest rate of all the States. The index of mortality for each State for 1921, 1931, 1937 and 1938 is shown in the following table:—

## INDEX OF MORTALITY.

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Nor. Ter.	A.C.T.	Aus-tralia.
1921	10.35	10.79	10.24	10.38	11.88	10.83	13.71	1.89	10.58
1931	8.41	8.78	8.36	7.85	8.66	8.58	16.37	5.27	8.49
1937	9.30	9.02	9.32	8.02	9.25	8.77	8.90	7.94	a 9.09
1938	9.52	9.07	9.51	8.34	9.47	8.90	14.68	8.16	a 9.28

(a) See letterpress below.

In view of the changing age constitution of the population, comparisons by means of the indexes of mortality published for years other than the Census and immediately adjoining years need to be made with caution. For the purpose of computing the indexes for each State and the Commonwealth, the ages of the people are estimated for each year on the basis of the proportions ascertained at the previous Census, and hence the results obtained represent the position as it would be had the age constitution remained constant since the Census. Actually considerable variations in ages have occurred during recent years which make this assumption misleading, but owing to lack of data it is impracticable to measure the effects in the States individually. For the Commonwealth as a whole, however, the changes in the ages of the population since the Census of 1933 have been measured from year to year from the records of migration and deaths in separate age-groups and of births in each successive year, and on re-calculating the indexes of mortality for the Commonwealth for each year since the Census on the basis of the new age composition so ascertained the more reliable results of 8.92 for 1934, 8.83 for 1935, 8.70 for 1936, 8.58 for 1937, and 8.59 for 1938 are obtained. These rates are considerably lower than the indexes previously calculated, the difference being due to the ageing of the Australian population. Unfortunately, it is not possible to indicate with accuracy the corresponding variations in the indexes for individual States.

4. **Crude Death Rates of Various Countries.**—The following table gives the crude death rates of various countries for a pre-war period and the latest available year:—

**CRUDE DEATH RATES(a) : VARIOUS COUNTRIES.**

Country.	1908-13.	1937.	Country.	1908-13.	1937.
Netherlands ..	13.9	8.8	Finland .. .. .	16.4	12.3
South Australia ..	10.1	8.9	England and Wales ..	14.1	12.4
Western Australia ..	10.3	9.0	Great Britain and		
New Zealand ..	9.3	9.1	Northern Ireland ..	14.5	12.6
Queensland ..	10.3	9.1	Belgium .. .. .	15.7	13.1
New South Wales ..	10.3	9.4	Czechoslovakia ..	21.0	13.3
<b>Australia</b> .. ..	<b>10.7</b>	<b>9.4</b>	Scotland .. .. .	15.5	13.9
Tasmania .. .. .	10.7	9.5	Poland .. .. .	21.0	14.0
Union of South Africa			Italy .. .. .	20.4	14.2
(Europeans) ..		10.0	France .. .. .	18.6	15.0
Victoria .. .. .	11.7	10.0	Northern Ireland ..	16.9	15.1
Canada .. .. .	(b)	10.2	Eire .. .. .	16.9	15.3
Norway .. .. .	13.6	10.4	Spain .. .. .	22.8	15.3(d)
Denmark .. .. .	13.2	10.8	Japan .. .. .	20.5	17.0
United States ..	(b)	11.2	Soviet Union .. ..	28.9	18.8(c)
Switzerland ..	15.2	11.3	Rumania .. .. .	24.7	19.3
Germany .. .. .	16.5	11.7	Ceylon .. .. .	31.4	21.7
Argentine Republic ..	17.5	11.9	Egypt .. .. .	25.8	27.2.
Sweden .. .. .	14.0	12.0			

(a) Number of deaths per 1,000 of mean population. (b) Not available. (c) For 1928.  
(d) For 1935.

5. **Infantile Deaths and Death Rates.**—(i) *Australia*, 1901 to 1938. 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 294,931 male infants born from 1934 to 1938, 13,151 (44.59 per 1,000) died during their first year of life, while of 281,488 female infants only 9,969 (35.42 per 1,000) died during the first year. Stillbirths are not included in any of the tables relating to deaths.

**INFANTILE DEATHS AND DEATH RATES : AUSTRALIA.**

Year.	Registered deaths under one year.			Rate of Infantile Mortality.(a)		
	Males.	Females.	Total.	Males.	Females.	Total.
1901 ..	5,888	4,778	10,666	112.13	94.73	103.61
1911 ..	4,745	3,624	8,369	75.91	60.72	68.49
1921 ..	5,111	3,841	8,952	72.97	58.06	65.73
1931 ..	2,889	2,105	4,994	47.34	36.62	42.14
1934 ..	2,697	2,075	4,772	48.29	38.69	43.59
1935 ..	2,537	1,892	4,429	44.59	34.76	39.78
1936 ..	2,668	2,110	4,778	44.92	37.23	41.16
1937 ..	2,565	1,969	4,534	42.11	33.82	38.06
1938 ..	2,684	1,923	4,607	43.37	32.86	38.26

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

(ii) *States, 1901 to 1938.* For the States and Territories the rates of infantile mortality during the period 1901-38 were as follows:—

INFANTILE MORTALITY RATES.(a)

Period.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Nor. Ter.	A.C.T.	Australia.
1901-05..	97.02	95.91	94.35	86.60	124.79	90.00	149.35	(c)	96.91
1906-10..	77.30	79.90	71.27	68.38	89.80	83.18	143.79	(c)	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 <sup>b</sup>	41.27
1934 ..	46.36	44.63	40.61	35.58	40.89	42.28	68.18	7.46	43.59
1935 ..	39.44	41.17	37.26	34.95	40.15	51.84	83.33	47.30	39.78
1936 ..	43.47	42.31	36.20	31.09	42.22	49.55	26.55	25.32	41.16
1937 ..	40.68	36.70	35.64	33.06	37.52	41.73	30.30	14.49	38.06
1938 ..	41.84	34.21	41.28	30.50	33.80	39.74	58.82	40.00	38.26

(a) Number of deaths under 1 year per 1,000 live births registered. (b) Based on deaths of infants born in the Australian Capital Territory. (c) Part of New South Wales prior to 1911.

INFANTILE MORTALITY RATES : UNDER ONE MONTH AND UNDER ONE YEAR.

State.	Under one month.				One month and under one year.			
	1911-15.	1921-25.	1931-35.	1938.	1911-15.	1921-25.	1931-35.	1938.
New South Wales ..	31.75	29.97	27.64	27.75	39.30	28.14	14.28	14.09
Victoria ..	33.07	32.19	27.76	24.65	39.16	29.74	14.98	9.56
Queensland ..	30.73	27.44	28.02	28.38	34.95	23.55	11.47	12.90
South Australia ..	29.07	27.83	23.00	20.94	38.19	26.36	12.13	9.56
Western Australia..	30.87	27.56	25.11	20.13	41.56	31.58	15.68	13.67
Tasmania ..	32.68	31.73	30.07	28.53	38.23	28.71	14.40	11.21
Australia ..	31.69	29.91	27.28	25.99	38.63	27.97	13.99	12.27

These tables disclose the striking decrease in infantile mortality, the rate for 1938 being much less than half that of 1901-05. The second table reveals the fact that relatively little improvement has taken place in the first month of life, but that the principal decrease has occurred among the older children and has been due to the decline in preventable diseases.

The deaths of infants under one year of age during 1938 numbered 4,607, the mortality rate being 38.26. Among the States, South Australia had the lowest and New South Wales the highest rate.

(iii) *Districts.* The total number of births and of deaths of children under one year of age for 1938 are shown in *Demography Bulletin*, No. 56, for each of the sixty-four districts for which vital statistics have been tabulated.

(iv) *Various Countries and Cities.* Compared with other countries the States of Australia occupy a very favourable position, being surpassed only by New Zealand, although in 1937, the latest year for which satisfactory figures are available, both New South Wales and Tasmania had slightly less favourable rates than the Netherlands, while Norway had a slightly lower rate than Tasmania. The Australian cities, Adelaide, Melbourne and Sydney, are among the ten cities having the lowest rates in the list shown on the next page. The list is headed by Oslo (25), Wellington (29) and Adelaide (31), the next seven cities being Amsterdam, San Francisco, Stockholm, Auckland, Melbourne, Chicago and Sydney. The highest rate recorded of the cities named in the table was

245 in Bombay. A study of the respective rates shows that a high birth rate is often though not invariably accompanied by a high infantile death rate:—

**INFANTILE MORTALITY RATES(a) : VARIOUS COUNTRIES.**

Country.	Infantile Mortality Rate. (a)		Crude Birth Rate, (b) 1937.	Country.	Infantile Mortality Rate. (a)		Crude Birth Rate, (b) 1937.
	1906-15.	1937.			1906-15.	1937.	
New Zealand ..	61	31	17.3	Germany ..	168	64	18.8
South Australia ..	68	33	15.3	France ..	122	65	14.7
Queensland ..	68	36	19.4	Denmark ..	103	66	18.0
Victoria ..	76	37	16.0	Northern Ireland	92	71	19.8
<b>Australia ..</b>	<b>74</b>	<b>38</b>	<b>17.4</b>	Scotland ..	113	71	17.6
Western Australia	81	38	19.0	Eire ..	92	73	19.2
Netherlands ..	115	38	19.8	Canada ..	(c)	76	19.8
New South Wales	74	41	17.6	Belgium ..	139	80	15.3
Norway ..	68	41	15.3	Japan ..	151	106	30.6
Tasmania ..	77	42	20.7	Italy ..	144	109	22.9
Sweden ..	74	46	14.3	Spain ..	156	110(f)	25.6(f)
Switzerland ..	108	47	15.0	Czechoslovakia ..	(c)	122	17.2
England and Wales	113	50	14.9	Ceylon ..	(c)	158	37.8
Great Britain and Nth. Ireland ..	..	53	15.3	Egypt ..	(c)	165	43.5
Union of South Africa (Europeans) ..	(c)	58	25.1	Soviet Union ..	(c)	173(d)	42.7(e)
				Rumania ..	(c)	178	30.8

(a) Number of deaths under 1 year per 1,000 births registered.  
mean population. (c) Not available. (d) For year 1930.

(b) Number of births per 1,000  
For year 1932. (e) For year 1932. (f) For

**INFANTILE MORTALITY RATES(a) : VARIOUS CITIES.**

City.	Rate of Infantile Mortality.(a)		City.	Rate of Infantile Mortality.(a)	
	1921.	1937.		1921.	1937.
Oslo ..	54	25	Hamburg ..	95	56
Wellington ..	61	29	Leipzig ..	136	56
Adelaide ..	74	31	Paris ..	95	59
Amsterdam ..	54	32	London ..	80	60
San Francisco ..	50	33	Birmingham	82	60
Stockholm ..	61	34	Breslau ..	170	60
Auckland ..	54	37	Washington ..	83	61
Melbourne ..	74	37	Berlin ..	135	61
Chicago ..	84	37	Antwerp ..	98	66
Sydney ..	62	39	Munich ..	126	66
Brisbane ..	62	40	Cologne ..	140	66
Perth ..	81	42	Leeds ..	98	67
Christchurch ..	54	43	Aberdeen ..	108	67
Detroit ..	83	43	Edinburgh ..	96	70
New York City ..	72	44	Manchester ..	94	76
Philadelphia ..	78	45	Liverpool ..	105	82
Hobart ..	75	45	Montreal ..	158	93
Toronto ..	91	45	Belfast ..	115	94
Cape Town ..	82	47	Madrid ..	..	98 (b)
Dresden ..	115	48	Dublin ..	123	102
Los Angeles ..	68	52	Glasgow ..	106	104
Copenhagen ..	67	53	Cairo ..	..	196
Sheffield ..	99	55	Madras ..	281	219
Johannesburg ..	101	55	Bombay ..	402	245

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

(b) For 1935.

CAUSES OF DEATHS OF CHILDREN UNDER ONE YEAR: AUSTRALIA, 1938.

Age at Death.	Measles.	Whooping Cough.	Diphtheria.	Erysipelas.	Mononuclear Meningitis.	Respiratory Tuberculosis.	Tubercular Meningitis.	Tuberculosis, other forms.	Syphilis.	Meningitis.	Convulsions.	Acute Bronchitis.
Under 1 week ..	..	..	..	..	..	..	..	..	..	..	..	..
1 week and under 2 weeks ..	..	..	..	..	..	..	..	..	..	..	..	..
2 weeks ..	..	..	..	..	..	..	..	..	..	..	..	..
3 ..	..	..	..	..	..	..	..	..	..	..	..	..
3 .. 1 month ..	..	..	..	..	..	..	..	..	..	..	..	..
1 month .. 2 months ..	..	..	..	..	..	..	..	..	..	..	..	..
2 months .. 3 ..	..	..	..	..	..	..	..	..	..	..	..	..
3 .. 4 ..	..	..	..	..	..	..	..	..	..	..	..	..
4 .. 5 ..	..	..	..	..	..	..	..	..	..	..	..	..
5 .. 6 ..	..	..	..	..	..	..	..	..	..	..	..	..
6 .. 7 ..	..	..	..	..	..	..	..	..	..	..	..	..
7 .. 8 ..	..	..	..	..	..	..	..	..	..	..	..	..
8 .. 9 ..	..	..	..	..	..	..	..	..	..	..	..	..
9 .. 10 ..	..	..	..	..	..	..	..	..	..	..	..	..
10 .. 11 ..	..	..	..	..	..	..	..	..	..	..	..	..
11 .. 1 year ..	..	..	..	..	..	..	..	..	..	..	..	..
Total under 1 year ..	1	89	18	8	3	3	4	6	14	47	29	22
Infantile Mortality (a)—												
1911 ..	0.34	1.57	0.25	0.16	..	0.08	0.31	0.22	0.85	1.83	2.55	2.34
1921 ..	0.15	1.97	0.59	0.24	0.03	0.07	0.18	0.08	0.56	1.10	1.45	1.50
1931 ..	0.10	1.58	0.25	0.11	0.08	0.03	0.22	0.04	0.20	0.32	0.39	0.32
1938 ..	0.01	0.74	0.15	0.07	0.03	0.03	0.03	0.05	0.12	0.39	0.24	0.18
Ex-nuptial deaths under 1 year included in above, 1938 ..	..	8	2	..	..	..	..	..	3	8	2	1
Infantile Mortality (b)—												
1925 ..	0.16	2.06	0.32	0.16	0.48	..	0.32	..	1.27	0.32	2.38	0.48
1931 ..	0.51	1.71	0.34	..	0.17	..	0.34	..	0.51	..	0.51	0.86
1938 ..	..	1.58	0.40	..	..	..	..	..	0.60	1.58	0.40	0.70

Age at Death.	Broncho-Pneumonia.	Pneumonia.	Other Diseases of the Stomach.	Diarrhoea and Enteritis.	Hernia and Intestinal Obstruction.	Malformation.	Congenital Deformity. (c)	Premature Birth.	Injury at Birth.	Icterus, Sclerema and other Diseases of Early Infancy.	Other Causes.	Total.
Under 1 week ..	22	14	1	1	4	268	140	1,322	421	376	63	2,648
1 week and under 2 weeks ..	10	9	..	..	..	51	16	81	31	33	27	269
2 weeks ..	14	9	..	..	..	21	7	32	4	7	18	122
3 ..	7	3	..	..	..	1	7	19	3	7	9	91
3 .. 1 month ..	43	16	1	11	2	45	12	20	5	10	41	244
1 month .. 2 mths. ..	34	16	1	16	3	33	11	6	1	2	20	177
2 months .. 3 ..	27	13	..	23	3	21	6	..	1	2	24	145
3 .. 4 ..	22	10	..	24	4	17	4	..	1	1	18	114
4 .. 5 ..	23	16	..	19	5	16	1	..	..	..	20	115
5 .. 6 ..	21	17	1	25	9	6	..	1	2	1	35	131
6 .. 7 ..	27	12	2	31	6	6	..	1	..	..	22	116
7 .. 8 ..	21	15	..	20	2	7	3	..	..	..	34	116
8 .. 9 ..	22	8	..	26	2	5	1	..	..	..	24	101
9 .. 10 ..	12	13	..	20	2	8	2	..	..	..	25	98
10 .. 11 ..	20	10	..	29	4	7	..	..	..	..	31	120
11 .. 1 year ..	..	..	..	..	..	..	..	..	..	..	..	..
Total under 1 year ..	325	181	10	257	40	535	212	1,484	469	439	411	4,607
Infantile Mortality (a)												
1911 ..	2.86	1.90	0.47	16.99	0.72	2.99	22.41	..	4.07	5.58	68.49	..
1921 ..	3.08	2.08	0.71	15.01	0.57	3.74	7.64	15.29	5.53	4.16	65.73	..
1931 ..	2.82	1.62	0.13	3.26	0.41	4.23	2.60	14.04	2.81	3.29	3.29	42.14
1938 ..	2.70	1.50	0.08	2.14	0.33	4.44	1.76	12.32	3.89	3.65	3.11	38.26
Ex-nuptial deaths under 1 year included in above, 1938 ..	22	16	..	43	1	20	14	102	20	17	49	331
Infantile Mortality (b)—												
1925 ..	8.09	2.38	1.11	19.18	0.47	3.64	9.51	20.93	1.90	2.69	6.98	84.83
1931 ..	5.31	3.43	0.34	8.39	0.17	4.28	7.19	21.92	3.08	3.77	5.82	68.65
1938 ..	4.36	3.17	..	8.52	0.20	3.66	2.77	20.20	2.06	3.47	0.76	64.66

(a) Rate per 1,000 total births.

(b) Rate per 1,000 ex-nuptial births

(c) Including Icterus and Sclerema prior to 1931.

(v) *Causes of Deaths of Children under one Year.* The preceding table gives for twenty-three causes the ages of all children who died under one year of age during 1938. The infantile mortality rates for 1911, 1921, 1931 and 1938 have been added for all births, and for 1925, 1931 and 1938 for ex-nuptial births. Particulars for males and females during 1938 may be found in *Demography Bulletin*, No. 56.

Pre-natal influences, such as malformation, congenital debility and premature birth, together with injuries at birth, accounted for 2,165 or 47 per cent. of all deaths under one year; and of these 2,165 deaths, 1,883, or 87 per cent., occurred less than a week after birth. Among the survivors of the first week, broncho-pneumonia caused the greatest number of deaths. This disease was responsible for 325 deaths, representing 7 per cent. of all deaths under one year, or 2.70 per 1,000 births, while a further 181 deaths were due to pneumonia of unspecified nature. Diarrhoea and enteritis caused 257 deaths and whooping cough 89 deaths.

(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 causes of death of these children in 1938 and the rates in respect of 1925, 1931 and 1938 are shown as an addendum to the preceding table.

Pre-natal influences such as malformation, congenital debility, premature birth and injuries at birth accounted for 136, or 41 per cent., and broncho-pneumonia for 22, or 7 per cent., of the total deaths of ex-nuptial children under 1 year.

6. *Deaths in Age-Groups.*—A distribution into age-groups has been made of the 320,707 deaths which occurred in Australia during the past five years, and the results are shown in the following table.

A table giving the corresponding percentages for earlier periods 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 by a similar amount. The percentages in all age-groups under 40 have fallen and 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:—

## DEATHS IN AGE-GROUPS : AUSTRALIA, 1934 TO 1938.

Age-Group.	Males.	Females.	Total.	Percentage of Total Males.	Percentage of Total Females.	Percentage of Total.
				%	%	%
Under 1 year ..	13,151	9,969	23,120	7.34	7.04	7.21
1 year and under 5 ..	4,240	3,634	7,874	2.37	2.57	2.45
5 years and under 20	7,243	5,084	12,327	4.04	3.59	3.84
20 years and under 40	15,838	14,378	30,216	8.84	10.16	9.42
40 years and under 60	39,097	27,178	66,275	21.82	19.21	20.67
60 years and under 65	15,909	10,542	26,451	8.88	7.45	8.25
65 years and over ..	83,644	70,707	154,351	46.67	49.97	48.13
Age unspecified ..	83	10	93	0.04	0.01	0.03
Total ..	179,205	141,502	320,707	100.00	100.00	100.00

## DEATHS IN AGE-GROUPS : PERCENTAGES, AUSTRALIA.

Age-Group. (Years.)	Males.			Females.			Persons.		
	1901-10.	1916-20.	1921-30.	1901-10.	1916-20.	1921-30.	1901-10.	1916-20.	1921-30.
	%	%	%	%	%	%	%	%	%
Under 1 ..	19.80	15.16	13.18	21.47	15.27	12.98	20.51	15.20	13.10
1-4 ..	5.84	5.61	4.35	7.28	6.58	4.72	6.45	6.03	4.51
5-19 ..	5.84	5.18	4.86	7.08	5.73	4.85	6.37	5.42	4.85
20-39 ..	13.85	13.57	11.00	16.54	16.34	13.59	14.99	14.76	12.12
40-59 ..	19.70	22.55	21.76	15.67	18.41	18.96	17.99	20.77	20.55
60-64 ..	5.71	7.58	9.01	4.77	5.86	7.27	5.31	6.84	8.26
65 and over ..	29.08	30.18	35.71	27.15	31.77	37.61	28.26	30.86	36.53
Age Unspecified	0.18	0.17	0.13	0.04	0.04	0.02	0.12	0.12	0.08
Total ..	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

7. Deaths at Single Ages and in Age-Groups.—(i) *General.* The 64,451 deaths registered in Australia in the year 1938 will be found tabulated in groups of five years for each State and Territory and in single ages for the Commonwealth in the latest *Demography Bulletin*. The deaths during the first fifteen years of life have been tabulated in single ages and for the first year of life in shorter periods. A summary for Australia is given in the following table:—

## DEATHS AT SINGLE AGES AND IN AGE-GROUPS : AUSTRALIA, 1938.

Ages.	Males.	Fe- males.	Total.	Ages.	Males.	Fe- males.	Total.
Under 1 week ..	1,559	1,089	2,648	Total 5-9 years ..	403	309	712
1 week and under 2 ..	138	131	269	" 10-14 ..	397	260	657
2 weeks and under 3 ..	80	42	122	" 15-19 ..	561	397	958
3 weeks and under 1 month ..	45	46	91				
Total under 1 month	1,822	1,308	3,130	" 20-24 ..	791	580	1,371
				" 25-29 ..	734	685	1,419
				" 30-34 ..	695	701	1,396
				" 35-39 ..	933	811	1,744
				" 40-44 ..	1,152	918	2,070
				" 45-49 ..	1,735	1,306	3,041
1 month and under 3 ..	274	147	421				
3 months and under 6 ..	206	168	374	" 50-54 ..	2,299	1,556	3,855
6 months and under 12 ..	382	300	682	" 55-59 ..	2,797	1,795	4,592
Total under 1 year ..	2,684	1,923	4,607	" 60-64 ..	3,233	2,140	5,373
				" 65-69 ..	3,963	2,859	6,822
				" 70-74 ..	4,532	3,588	8,120
				" 75-79 ..	4,445	3,790	8,235
				" 80-84 ..	3,078	2,876	5,954
1 year and under 2 ..	342	309	651	" 85-89 ..	1,299	1,531	2,830
2 years ..	209	163	372	" 90-94 ..	378	571	949
3 ..	147	103	250	" 95-99 ..	93	130	223
4 ..	114	89	203	" 100 and over ..	13	15	28
				Age Unspecified ..	19	..	19
Total under 5 years ..	3,496	2,587	6,083	Total All Ages ..	37,046	29,405	66,451

(ii) *Rates.* The following table gives the average annual death rates per 1,000 living in age-groups for the period 1932 to 1934, i.e., the Census year 1933 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 1920 to 1922 may be found in *Official Year Book*, No. 22, p. 975.

## AVERAGE ANNUAL DEATH RATES: AGE GROUPS, 1932 TO 1934.

Age Group.	New South Wales.	Victoria.	Queensland.	South Australia.	Western Australia.	Tasmania.	Australia.
MALES.							
Years.							
0-4 ..	12.51	12.65	12.21	9.91	12.81	12.77	12.33
5-9 ..	1.41	1.72	1.56	1.21	1.56	2.08	1.53
10-14 ..	1.23	1.38	1.08	1.04	1.40	1.27	1.24
15-19 ..	1.60	1.76	1.93	1.71	1.76	2.05	1.76
20-24 ..	2.28	2.31	2.81	2.31	2.52	2.73	2.41
25-29 ..	2.21	2.58	2.93	2.50	2.85	2.98	2.52
30-34 ..	2.81	2.82	3.50	2.53	3.10	3.78	2.96
35-39 ..	3.76	3.85	4.61	3.26	4.01	4.71	3.92
40-44 ..	5.34	4.93	6.04	4.71	5.69	4.85	5.28
45-49 ..	7.91	7.61	7.98	6.80	8.81	6.90	7.76
50-54 ..	11.62	11.25	11.82	9.81	13.48	9.96	11.45
55-59 ..	17.70	18.68	17.58	15.15	21.43	14.47	17.89
60-64 ..	25.74	26.66	26.92	25.08	28.26	23.92	26.27
65-69 ..	39.99	41.17	39.94	36.14	42.40	35.11	40.03
70-74 ..	62.28	63.96	58.90	57.29	63.40	59.22	61.85
75-79 ..	95.52	98.12	94.59	92.66	105.14	94.23	96.26
80-84 ..	156.44	157.81	168.61	146.83	176.82	160.80	158.70
85-89 ..	231.04	233.33	218.42	239.45	264.96	204.45	230.75
90 and over	313.38	348.76	314.86	303.07	380.77	401.97	327.55
FEMALES.							
Years.							
0-4 ..	10.05	7.04	10.72	8.30	8.64	10.42	10.00
5-9 ..	1.17	1.30	1.03	1.03	1.27	1.54	1.19
10-14 ..	0.83	0.97	0.93	0.90	0.99	0.91	0.90
15-19 ..	1.36	1.39	1.50	1.23	1.26	2.22	1.39
20-24 ..	2.03	2.00	2.77	2.35	1.94	2.58	2.11
25-29 ..	2.44	2.50	2.81	2.74	2.75	3.74	2.60
30-34 ..	2.88	2.87	3.44	2.64	3.13	3.03	2.97
35-39 ..	3.75	3.37	4.05	3.88	4.24	4.43	3.74
40-44 ..	4.24	4.32	4.89	4.10	5.79	4.88	4.37
45-49 ..	6.02	6.11	6.14	5.78	6.35	5.44	6.03
50-54 ..	8.27	8.81	8.61	8.07	9.08	10.08	8.56
55-59 ..	11.62	12.49	12.02	11.26	10.69	11.62	15.54
60-64 ..	17.27	18.73	17.19	17.78	17.32	16.87	17.77
65-69 ..	29.55	29.91	27.01	27.13	29.81	30.46	29.21
70-74 ..	45.95	48.18	49.03	42.31	44.10	48.31	46.70
75-79 ..	74.78	81.13	76.29	75.65	74.42	83.58	77.47
80-84 ..	125.55	127.91	126.63	120.74	120.99	125.15	125.68
85-89 ..	119.40	204.57	208.19	207.40	192.39	195.28	199.94
90 and over	292.10	327.19	370.23	233.58	397.20	363.63	306.24
PERSONS.							
Years.							
0-4 ..	11.31	11.37	11.48	9.12	11.35	11.62	11.19
5-9 ..	1.29	1.51	1.30	1.12	1.41	1.81	1.36
10-14 ..	1.03	1.18	1.01	0.97	1.20	1.09	1.07
15-19 ..	1.52	1.57	1.72	1.47	1.51	2.14	1.58
20-24 ..	2.16	2.16	2.60	2.35	2.24	2.66	2.26
25-29 ..	2.32	2.54	2.87	2.61	2.80	3.35	2.56
30-34 ..	2.85	2.85	3.47	2.59	3.12	3.71	2.96
35-39 ..	3.76	3.61	4.34	3.57	4.12	4.56	3.83
40-44 ..	4.79	4.62	5.50	4.40	5.15	4.86	4.83
45-49 ..	6.99	6.84	7.14	6.29	7.67	6.19	6.92
50-54 ..	10.00	10.00	10.37	8.93	11.47	10.02	10.04
55-59 ..	14.70	15.46	14.86	13.19	16.63	13.09	14.88
60-64 ..	21.56	22.46	22.41	21.35	23.44	20.52	22.04
65-69 ..	34.90	35.29	34.06	31.39	37.01	32.87	34.69
70-74 ..	54.31	55.68	54.55	49.43	55.28	53.89	54.38
75-79 ..	85.18	89.06	86.33	83.92	91.08	88.97	86.82
80-84 ..	140.43	140.48	148.56	132.56	149.72	142.64	141.13
85-89 ..	209.89	215.56	213.10	220.66	222.90	199.07	214.17
90 and over	301.13	334.60	341.25	253.61	389.21	376.36	314.41

8. Deaths of Centenarians.—Particulars concerning the twenty-eight persons—thirteen males and fifteen females—who died in 1938 aged 100 years and upwards, are given in the following table. While the Registrars-General of the various States verify the figures as far as possible, absolute reliance cannot be placed on their accuracy, owing to the well-known tendency of very old people to overstate their ages. 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.

## DEATHS OF CENTENARIANS: AUSTRALIA, 1938.

Age.	Locality where Death occurred.	State.	Cause of Death.	Occupation.	Birthplace.	Length of Residence in Australia.	Conjugal Condition.
<b>MALES.</b>							
100	Nanango ..	Queensland	Cardiac exhaustion, Chronic bronchitis	Pensioner	Not stated	Not stated	Single
100	Perth ..	West. Aust.	Senility ..	Retired ..	England ..	" "	Married
100	Mount Morgan ..	Queensland	Senile debility	Not stated	South Sea Islands	" "	Single
100	Albury ..	N.S.W. ..	Senility ..	Vigneron ..	England ..	88 years ..	Married
100	St. Kilda ..	Victoria ..	Arterio sclerosis	" ..	" ..	44 years ..	"
100	Wellington	West. Aust.	Cerebral hæmorrhage, Senility	Labourer ..	Singapore	80 years ..	Single
100	Perth ..	" "	Senility, Myocardial failure	Printer ..	Scotland ..	47 years ..	"
101	Young ..	N.S.W. ..	Senility ..	Independent Chef ..	England ..	72 years ..	Married
101	Rozelle ..	" ..	Broncho-pneumonia	" ..	" ..	63 years ..	"
104	Ballarat ..	Victoria ..	Senility ..	Labourer ..	Ireland ..	92 years ..	"
104	Bundaberg	Queensland	" ..	" ..	Austria ..	64 years ..	"
104	Granville ..	N.S.W. ..	Pneumonia, Cerebral thrombosis, Senility	" ..	N.S.W. ..	" ..	Single
105	Rodney ..	Victoria ..	Arterio sclerosis, Myocarditis	" ..	Scotland ..	Unknown	Unknown
<b>FEMALES.</b>							
100	Mitcham ..	Sth. Aust.	Senility ..	" ..	England ..	80 years ..	Married
100	Sandringham	Victoria ..	" ..	" ..	" ..	93 years ..	"
100	Bellarine ..	" ..	" ..	" ..	" ..	87 years ..	"
100	Hurstville ..	N.S.W. ..	" ..	" ..	" ..	81 years ..	"
100	Drummoyne	" ..	" ..	" ..	Ireland ..	73 years ..	"
100	Glebe ..	" ..	" ..	" ..	England ..	98 years ..	"
100	Sydney ..	" ..	Senile decay, Pneumonia	" ..	Ireland ..	85 years ..	"
100	Ryde ..	" ..	Hypostatic pneumonia, Senility	" ..	" ..	76 years ..	"
101	Caulfield ..	Victoria ..	Senility ..	" ..	England ..	78 years ..	"
101	Grafton ..	N.S.W. ..	Auricular fibrillation, Senility	" ..	Ireland ..	75 years ..	"
101	Freeling ..	Sth. Aust.	Myocardial degeneration, Hypostatic pneumonia	" ..	Germany ..	63 years ..	"
103	Sorell ..	Tasmania	Septic absorption, Senile gangrene	" ..	Tasmania	" ..	"
104	Fitzroy ..	Victoria ..	Senility ..	" ..	India ..	75 years ..	"
105	Tenterfield	N.S.W. ..	Cerebral thrombosis, Uraemia, Arterio-sclerosis, Chronic nephritis	" ..	England ..	86 years ..	"
105	Launceston	Tasmania	Cardiac failure, Chronic myocarditis	" ..	Tasmania	" ..	"

NOTE.—The particulars shown in this table are those given in the death registers, and no attempt has been made by the Commonwealth Bureau of Census and Statistics to verify them.

9. Length of Residence in Australia of Persons who Died.—The length of residence in Australia of all persons whose deaths were registered in the year 1938 is shown in the following table :—

**LENGTH OF RESIDENCE IN AUSTRALIA OF PERSONS WHO DIED IN 1938.**

Length of Residence.	Male Deaths.	Female Deaths.	Total Deaths.	Length of Residence.	Male Deaths.	Female Deaths.	Total Deaths.
Born in Australia ..	26,685	22,479	49,164	Resident 25 to 29 years	1,092	768	1,860
Resident under 1 year	47	18	65	.. 30 to 34 ..	481	201	682
.. 1 year ..	19	15	34	.. 35 to 39 ..	274	153	427
.. 2 years ..	17	13	30	.. 40 to 44 ..	532	224	756
.. 3 ..	15	10	25	.. 45 to 49 ..	562	343	905
.. 4 ..	16	10	26	.. 50 to 54 ..	1,587	1,063	2,650
.. 5 ..	23	7	30	.. 55 to 59 ..	925	614	1,539
.. 6 ..	16	5	21	.. 60 to 64 ..	796	597	1,393
.. 7 ..	12	13	25	.. 65 yrs. and over	1,079	1,385	2,464
.. 8 ..	20	21	41	Length of residence not stated	1,603	505	2,108
.. 9 ..	26	27	53				
.. 10 to 14 years	469	359	828				
.. 15 to 19 ..	375	309	684				
.. 20 to 24 ..	375	266	641				
				<b>Total</b>	<b>37,046</b>	<b>29,405</b>	<b>66,451</b>

10. Birthplaces of Persons who Died.—The following table provides a summary of birthplaces of persons whose deaths were registered in 1911 and 1938. More detailed information in respect of 1938 will be found in *Demography Bulletin*, No. 56 :—

**BIRTHPLACES OF PERSONS WHO DIED: AUSTRALIA.**

Birthplace.	1911.			1938.		
	Males.	Females.	Total.	Males.	Females.	Total.
<b>AUSTRALASIA—</b>						
Australia .. ..	14,476	12,279	26,755	26,685	22,479	49,164
New Zealand .. ..	126	79	205	342	243	585
<b>EUROPE—</b>						
England and Wales .. ..	5,639	3,541	9,180	4,979	3,688	8,667
Scotland .. ..	1,666	1,112	2,778	1,238	924	2,162
Eire .. ..	2,837	2,528	5,365	1,397	1,237	2,634
Other British Possessions .. ..	40	26	66	37	24	61
Western Europe .. ..	365	62	427	342	73	415
Central Europe .. ..	678	292	970	435	269	704
Southern Europe .. ..	122	15	137	251	62	313
Eastern Europe .. ..	71	6	77	85	28	113
<b>ASIA—</b>						
British Possessions .. ..	102	28	130	143	41	184
Foreign Countries .. ..	470	8	478	296	20	316
<b>AFRICA—</b>						
British Possessions .. ..	29	18	47	41	24	65
Foreign Countries .. ..	2	1	3	1	..	1
<b>AMERICA—</b>						
Canada .. ..	73	15	88	49	23	72
Other British Possessions .. ..	5	6	11	14	7	21
United States of America .. ..	72	18	90	52	38	90
Other Foreign Countries .. ..	35	12	47	11	9	20
<b>POLYNESIA—</b>						
British .. ..	47	4	51	15	7	22
Foreign .. ..	44	10	54	32	6	38
At Sea and Indefinite .. ..	692	218	910	601	203	804
<b>Total</b> .. ..	<b>27,591</b>	<b>20,278</b>	<b>47,869</b>	<b>37,046</b>	<b>29,405</b>	<b>66,451</b>

11. Occupations of Males who Died.—Information as to the main groups of the occupations of the 37,046 males who died in Australia in 1938 is contained in the following table. Corresponding data for 1921 and 1931 have been added for purposes of comparison.

## OCCUPATIONS OF MALES WHO DIED : AUSTRALIA.

Occupation Group.	Number of Male Deaths.			Percentage of Total.		
	1921.	1931.	1938.	1921. %	1931. %	1938. %
Professional .. ..	1,307	1,534	2,085	4.26	4.82	5.63
Domestic .. ..	830	846	874	2.71	2.66	2.36
Commercial .. ..	2,739	3,727	3,299	8.94	11.72	8.91
Transport and Communica- tion .. ..	1,841	2,189	2,817	6.01	6.89	7.60
Industrial .. ..	8,613	10,330	6,116	28.10	32.49	16.51
Agricultural, Pastoral and Mining, &c. .. ..	5,711	6,157	7,315	18.63	19.36	19.74
Indefinite .. ..	1,436	1,802	410,139	4.68	5.67	(a)27.37
Dependent .. ..	8,175	5,211	4,401	26.67	16.39	11.88
Total Male Deaths ..	30,652	31,796	37,046	100.00	100.00	100.00

(a) Includes 7,194 (19.42 per cent.) clerks, labourers, etc., not specified as belonging to any industry, who were formerly included under "Commercial" or "Industrial."

12. Causes of Death.—(i) *General.* The classification adopted by the Commonwealth Bureau of Census and Statistics is that of the International Institute of Statistics, as amended by the Committees of Revision which met in Paris in 1909, 1920 and 1929. The last meeting was held in 1938, and the consequent amendments will be adopted in 1940.

(ii) *Mortality Statistics for 1907 and Subsequent Years.* The statistics relating to causes of death in Australia from the year 1907 onward have been tabulated in the Commonwealth Bureau of Census and Statistics in accordance with the above-mentioned classification, and the system is being employed also in the various State statistical offices.

(iii) *Classification of Causes of Death, according to the Intermediate and the Abridged International Classifications.* An abridged classification, which enumerates forty-three diseases and groups of diseases according to the revised classification, has been in use in many European countries and American States until recently, and a table has been prepared in past issues of the Year Book showing the causes of death according to the abridged classification, so that the results may be compared with those of other countries which used the abridged index.

As the result of an international treaty signed in London in 1934, the intermediate classification of causes of death, or the "minimum nomenclature," covering 85 main causes or groups of causes, has now been adopted in most countries for the purpose of making international comparisons. This classification appears in the pages following and shows the number of deaths during 1938 in Australia for each cause enumerated. To preserve continuity with former statistics, particulars for 1938 have been compiled in the abridged form also and are shown on p. 325 in conjunction with those for the previous four years, while averages over quinquennial periods to 1931-35 are shown in the same form on p. 326.

The compilations for the years 1934 to 1938 will be found in full detail in the Bulletins of Australian Demography, Nos. 52 to 56. In the following tables in which the intermediate classification has been employed, tables A, B and C show deaths of males, females and persons for the year 1938. Table D shows in the abridged form the number of persons who died in each of the years 1934 to 1938 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, Table E giving the number of deaths and the rates per 1,000,000 persons for three quinquennial periods has been prepared. While the absolute number of deaths has increased, the death rate has shown a very satisfactory decrease, which is reflected in the great majority of the causes specified in the table.

## A.—CAUSES OF DEATH: MALES, 1938.

## INTERMEDIATE CLASSIFICATION.

Intermediate Classification.	General Classification Numbers.	N.S.W.	Vic.	Q'land.	S. Aus.	W. Aus.	Tas.	Nor. Ter.	A. C. T.	Aus-tralia.
1. Typhoid and Paratyphoid Fever (1) .. .. .	1, 2	17	4	8	2	4	..	..	..	35
2. Typhus Fever (2) .. .. .	3	..	..	1	..	3	..	..	..	4
3. Small-pox (3) .. .. .	6	..	..	..	..	..	..	..	..	..
4. Measles (4) .. .. .	7	..	..	4	..	..	..	..	..	4
5. Scarlet Fever (5) .. .. .	8	6	7	4	..	..	..	..	..	17
6. Whooping Cough (6) .. .. .	9	34	..	25	1	..	1	..	..	61
7. Diphtheria (7) .. .. .	10	79	21	23	12	20	5	..	..	160
8a. Influenza—Pneumonic (8a) .. .. .	11 (a)	135	35	50	3	10	1	..	2	236
8b. Influenza—Other (8b) .. .. .	11 (b)	43	22	18	5	7	2	..	..	97
9. Dysentery (14) .. .. .	13	12	11	6	3	5	..	..	..	37
10. Plague (9) .. .. .	14	..	..	..	..	..	..	..	..	..
11. Tuberculosis of the Respiratory System (10) .. .. .	23	607	369	194	108	134	60	4	1	1,477
12a. Tubercular Meningitis (11a) .. .. .	24	14	11	..	9	3	3	..	..	40
12b. Other forms of Tuberculosis (11b) .. .. .	25-32	47	32	7	9	4	6	..	..	105
13. Syphilis (12) .. .. .	34	44	33	23	17	10	11	..	..	138
14. Purulent Infection, Septicæmia (non-puerperal) (14) .. .. .	36	12	11	5	2	8	1	..	..	39
15. Malaria (13) .. .. .	38	2	2	2	1	..	..	..	..	7
16. Diseases due to other Protozoal Parasites or Helminths (14) .. .. .	30-42	12	5	5	1	1	4	..	..	28
17. Other Infectious and Parasitic Diseases (14) .. .. .	*	61	42	36	19	12	35	2	..	207
18. Cancer and other Malignant Tumors (15) .. .. .	45-53	1,546	1,158	595	316	327	119	2	1	4,094
19. Tumors, Non-malignant or of which the nature is not specified (16) .. .. .	54, 55	79	36	31	15	11	1	..	..	173
20. Acute Rheumatic Fever (20) .. .. .	56	38	49	21	7	6	3	..	..	124
21. Chronic Rheumatism and Gout (17) .. .. .	57, 58	15	27	4	5	10	..	..	..	61
22. Diabetes Mellitus (18) .. .. .	59	145	137	61	38	20	15	..	1	417
23. Nutritional Diseases (20) .. .. .	60-64	1	..	1	..	1	..	..	..	3
24. Diseases of the Thyroid and Parathyroid Glands (20) .. .. .	66	16	6	8	3	3	4	..	..	38
25. Other General Diseases (20) .. .. .	65, 67-69	9	10	16	4	10	3	..	..	52
26. Anæmias (20) .. .. .	71	27	41	9	13	4	7	..	..	101
27. Leucæmias, Pseudoleucæmias, and other Diseases of the Blood and Blood-making Organs (20) .. .. .	70, 72-74	83	54	22	18	14	5	1	2	199
28. Alcoholism (acute or chronic) (19) .. .. .	75	20	8	12	4	5	..	..	..	49
29. Other Chronic Poisonings (20) .. .. .	76, 77	1	..	7	1	..	..	..	..	9
30. Meningitis (23) .. .. .	79	50	35	17	6	10	2	..	1	121
31. Progressive Locomotor Ataxia (21) (tabes dorsalis) .. .. .	80	19	9	3	1	2	2	..	..	36
32. Cerebral Hæmorrhage, Cerebral Embolism and Thrombosis (22) .. .. .	82	453	395	178	155	88	57	..	..	1,326
33. General Paralysis of the Insane (21) .. .. .	83	41	20	8	5	7	..	..	..	81
34. Dementia Præcox and other Psychoses (23) .. .. .	84	18	10	7	1	1	..	..	..	37
35. Epilepsy (23) .. .. .	85	44	25	14	7	5	7	..	..	102
36. Other Diseases of the Nervous System (23) .. .. .	*	126	103	56	41	17	13	..	..	356
37. Diseases of the Eye, Ear and their Annexa (23) .. .. .	88, 89	22	19	8	2	3	1	..	..	55
38. Pericarditis (24) .. .. .	90	9	8	1	1	1	..	..	..	21
39. Acute Endocarditis (24) .. .. .	91	32	19	5	6	3	2	..	..	67
40. Chronic Endocarditis, Valvular Diseases (24) .. .. .	92	382	255	167	82	56	44	2	3	991
41. Diseases of the Myocardium (24) .. .. .	93	2,309	1,146	693	369	310	126	5	3	4,961
42. Diseases of the Coronary Arteries and Angina Pectoris (24) .. .. .	94	998	636	295	177	143	68	7	..	2,325
43. Other Diseases of the Heart (24) .. .. .	95	242	186	92	42	57	24	1	..	643
44. Aneurysm (except of the Heart) (25) .. .. .	96	87	44	28	4	13	6	..	..	183
45. Arteriosclerosis and Gangrene (25) .. .. .	97, 98	756	632	208	138	91	53	1	1	1,880

A.—CAUSES OF DEATH: MALES, 1938—*continued.*

## INTERMEDIATE CLASSIFICATION.

Intermediate Classification,	General Classification Numbers,	N.S.W.	Vic.	Q'land.	S. Aus.	W. Aus.	Tas.	Nor. Ter.	A. C. T.	Aus-tralia.
46. Other Diseases of the Circulatory System (25) .. .. .	99-103	37	40	37	13	7	11	1	..	146
47a. Acute Bronchitis (26a) .. .. .	106 (a) (C)	37	13	11	12	3	3	..	..	79
47b. Chronic Bronchitis (26b) .. .. .	106 (b) (I)	109	114	31	34	23	12	1	..	324
48. Pneumonias (27) .. .. .	107-109	1,133	649	324	178	184	89	1	..	2,558
49. Pleurisy (28) .. .. .	110	49	19	28	11	8	7	..	..	122
50. Other Diseases of the Respiratory System (28) (Tuberculosis excepted) .. .. .	104, 105, 111-114	117	149	80	63	53	23	1	2	488
51. Ulcer of the Stomach and Duodenum (32b) .. .. .	117	156	98	48	25	34	9	1	..	371
52. Diarrhoea and Enteritis (under 2 years of age) (29a) .. .. .	119	92	27	22	17	38	1	2	..	199
53. Diarrhoea and Enteritis (2 years and over) (29b) .. .. .	120	50	35	13	1	38	3	..	..	140
54. Appendicitis (30) .. .. .	121	154	59	64	26	27	8	..	2	340
55. Hernia, Intestinal Obstruction (32a) .. .. .	122	122	74	43	26	18	11	..	1	295
56. Cirrhosis of the Liver (31a) .. .. .	124	89	59	44	13	14	5	..	..	224
57. Other Diseases of the Liver and Biliary Passages, including Biliary Calculi (31b) .. .. .	125-127	53	67	22	11	16	5	1	..	175
58. Other Diseases of the Digestive System (32b) .. .. .	*	81	61	39	15	20	6	..	..	222
59. Nephritis (33) .. .. .	130-132	838	567	376	140	106	59	4	3	2,093
60. Other Diseases of the Kidneys and Ureters (34) .. .. .	133	56	45	23	8	14	5	..	..	151
61. Calculi of the Urinary Passages (34) .. .. .	134	35	22	11	11	3	..	..	..	82
62. Diseases of the Bladder (tumors excepted) (34) .. .. .	135	8	24	12	5	14	2	1	..	66
63. Diseases of the Urethra, Urinary Abscess, &c. (34) .. .. .	136	9	17	1	1	1	2	..	..	31
64. Diseases of the Prostate (34) .. .. .	137	169	189	80	50	39	45	..	..	572
65. Diseases of the Genital Organs, not specified as Venereal .. .. .	138, 139	1	..	2	1	..	..	..	..	4
71. Diseases of the Skin and Cellular Tissue (37) .. .. .	151-153	32	20	12	7	13	2	..	..	86
72. Diseases of the Bones and Organs of Locomotion (Tuberculosis and Rheumatism excepted) (37) .. .. .	154-156	44	30	15	10	6	5	..	..	110
73. Congenital Malformations (Still-births not included) (38) .. .. .	157	146	102	62	23	37	16	..	1	387
74. Congenital Debility (38) .. .. .	158	51	27	14	13	12	8	..	3	128
75. Premature Birth (Still-births not included) (38) .. .. .	159	367	197	165	44	51	34	..	1	859
76. Injury at Birth (Still-births not included) (38) .. .. .	160	132	49	53	20	11	13	..	..	278
77. Other Diseases Peculiar to Early Infancy (38) .. .. .	161	89	85	40	12	16	13	..	..	255
78. Senility (39) .. .. .	162	344	579	146	146	91	38	3	..	1,347
79. Suicide (40) .. .. .	163-171	254	106	102	47	54	11	..	..	574
80. Homicide (41) .. .. .	172-175	23	18	7	1	1	2	..	..	52
81. Accident (42) .. .. .	176-194	1,093	696	152	107	237	81	6	4	2,769
82. Violent Deaths of which the nature (Accident, Suicide, Homicide) is unknown (42) .. .. .	195	50	90	..	5	7	3	4	..	159
83. Wounds of War (Execution of Civilians by Belligerent Armies included) (42) .. .. .	196, 197	..	5	3	1	2	1	..	..	12
84. Legal Executions (42) .. .. .	198	1	..	..	1	..	..	..	..	2
85. Cause of Death not Specified or Ill-defined (43) .. .. .	199, 200	34	21	24	48	9	5	7	1	149
Total Males .. .. .	..	14,748	10,026	5,384	2,917	2,046	1,233	52	40	37,046

\* No. 58:—115, 116, 118, 123, 128, 129.

NOTE. - Figures in parentheses indicate the abridged classification number in each instance

## B.—CAUSES OF DEATH : FEMALES, 1938.

## INTERMEDIATE CLASSIFICATION.

Intermediate Classification.	General Classification Numbers.	N.S.W.	Vic.	Q'land.	S. Aus.	W. Aus.	Tas.	Nor. Ter.	A. C. T.	Australia.
<b>1. Typhoid and Paratyphoid Fever</b>										
(1) .. .. .	1, 2	3	2	3	4	1	..	..	..	13
2. Typhus Fever (2) .. .. .	3	..	..	1	..	..	..	..	..	1
3. Small-pox (3) .. .. .	6	..	..	..	..	1	..	..	..	1
4. Measles (4) .. .. .	7	..	..	5	..	..	1	..	..	6
5. Scarlet Fever (5) .. .. .	8	6	2	1	2	..	..	..	..	11
6. Whooping Cough (6) .. .. .	9	45	5	32	..	1	..	..	..	83
7. Diphtheria (7) .. .. .	10	77	15	16	14	21	5	..	..	148
8a. Influenza—Pneumonic (8a) .. .. .	11 (a)	134	18	45	5	4	..	..	1	207
8b. Influenza—Other (8b) .. .. .	11 (b)	42	25	12	2	4	1	..	1	83
9. Dysentery (14) .. .. .	13	3	1	5	..	2	..	..	..	11
10. Plague (9) .. .. .	14	..	..	..	..	..	..	..	..	..
<b>11. Tuberculosis of the Respiratory System (10)</b> .. .. .	23	339	306	100	85	43	47	1	..	921
12a. Tubercular Meningitis (11a) .. .. .	24	19	15	..	1	2	4	..	..	41
12b. Other forms of Tuberculosis (11b) .. .. .	25-32	20	31	9	6	3	3	..	..	72
13. Syphilis (12) .. .. .	34	12	9	11	4	1	3	..	..	40
14. Purulent Infection, Septicæmia (non-puerperal) (14) .. .. .	36	17	7	10	3	4	2	..	..	43
15. Malaria (13) .. .. .	38	1	..	2	..	..	..	..	..	3
<b>16. Diseases due to other Protozoal Parasites or Helminths (14)</b> .. .. .	39-42	11	6	5	2	1	..	1	..	26
<b>17. Other Infectious and Parasitic Diseases (14)</b> .. .. .	*	39	33	17	12	6	25	1	..	133
<b>18. Cancer and other Malignant Tumors (15)</b> .. .. .	45-53	1,421	1,207	413	423	232	136	1	2	3,835
<b>19. Tumors, Non-malignant or of which the nature is not specified (16)</b> .. .. .	54, 55	95	54	46	20	19	3	..	..	237
20. Acute Rheumatic Fever (20) .. .. .	56	45	54	18	5	9	13	..	..	144
<b>21. Chronic Rheumatism and Gout (17)</b> .. .. .	57, 58	29	53	13	11	5	2	..	..	113
22. Diabetes Mellitus (18) .. .. .	59	298	234	117	102	36	16	..	..	803
23. Nutritional Diseases (20) .. .. .	60-64	4	1	2	..	..	..	..	..	7
<b>24. Diseases of the Thyroid and Parathyroid Glands (20)</b> .. .. .	66	86	43	33	8	9	10	..	1	190
25. Other General Diseases (20) .. .. .	65, 67-69	16	12	10	5	5	5	..	..	53
26. Anaemias (20) .. .. .	71	48	50	18	13	4	5	..	..	138
<b>27. Leucæmias, Pseudoleucæmias, and other Diseases of the Blood and Blood-making Organs (20)</b> .. .. .	70, 72-74	59	39	28	13	11	2	..	..	152
28. Alcoholism (acute or chronic) (19) .. .. .	75	1	2	3	..	..	..	..	..	6
29. Other Chronic Poisonings (20) .. .. .	76, 77	..	..	4	..	1	..	..	..	5
30. Meningitis (23) .. .. .	79	21	21	5	3	9	1	1	..	61
<b>31. Progressive Locomotor Ataxia (21) (tabes dorsalis)</b> .. .. .	80	3	1	..	1	1	1	..	..	7
<b>32. Cerebral Hæmorrhage, Cerebral Embolism and Thrombosis (22)</b> .. .. .	82	539	627	169	230	98	72	..	1	1,736
<b>33. General Paralysis of the Insane (21)</b> .. .. .	83	6	5	2	1	1	..	..	..	15
<b>34. Dementia Præcox and other Psychoses (23)</b> .. .. .	84	29	10	17	8	..	2	..	..	66
35. Epilepsy (23) .. .. .	85	22	27	12	7	3	3	..	..	74
<b>36. Other Diseases of the Nervous System (23)</b> .. .. .	*	109	91	51	34	14	18	1	..	318
<b>37. Diseases of the Eye, Ear and their Annexa (23)</b> .. .. .	88, 89	14	11	2	4	3	1	..	..	35
38. Pericarditis (24) .. .. .	90	7	5	4	1	2	1	..	..	20
39. Acute Endocarditis (24) .. .. .	91	32	19	9	6	5	5	..	..	76
<b>40. Chronic Endocarditis, Valvular Diseases (24)</b> .. .. .	92	315	248	95	80	46	37	..	2	823
41. Diseases of the Myocardium (24) .. .. .	93	1,824	1,032	499	317	193	131	..	1	3,997
<b>42. Diseases of the Coronary Arteries and Angina Pectoris (24)</b> .. .. .	94	484	299	124	89	58	26	..	..	1,080
43. Other Diseases of the Heart (24) .. .. .	95	134	163	74	30	30	28	..	..	459
<b>44. Aneurysm (except of the Heart) (25)</b> .. .. .	96	24	20	17	2	4	2	..	..	69
<b>45. Arteriosclerosis and Gangrene (25)</b> .. .. .	97, 98	734	742	187	136	56	66	..	1	1,922
<b>46. Other Diseases of the Circulatory System (25)</b> .. .. .	99-103	32	54	17	15	10	7	..	..	135
47a. Acute Bronchitis (26a) .. .. .	106 (a) (r)	51	10	8	11	2	2	..	..	84

\* No. 17:—4, 5, 12, 15-22, 33, 35, 37, 43, 44; No. 36: 78, 81, 86, 87.

B.—CAUSES OF DEATH: FEMALES, 1938—*continued.*

## INTERMEDIATE CLASSIFICATION.

Intermediate Classification.	General Classification Numbers.	N.S.W.	Vic.	Q'land.	S. Aus.	W. Aus.	Tas.	Nor. Ter.	A. C. T.	Australia.
47b. Chronic Bronchitis (26b) ..	106 (b) (d)	61	97	20	17	10	9	..	..	214
48. Pneumonias (27) ..	107-109	767	524	233	149	96	70	3	2	1,844
49. Pleurisy (28) ..	110	11	15	10	5	2	..	..	..	43
50. Other Diseases of the Respiratory System (28) (Tuberculosis excepted) ..	104, 105, 111-114	..	78	57	42	18	12	..	..	298
51. Ulcer of the Stomach and Duodenum (32b) ..	117	47	41	17	10	10	2	..	..	127
52. Diarrhoea and Enteritis (under 2 years of age) (29a) ..	119	56	25	29	8	23	3	..	..	144
53. Diarrhoea and Enteritis (2 years and over) (29b) ..	120	47	64	32	11	20	1	..	..	175
54. Appendicitis (30) ..	121	80	52	28	13	8	4	..	..	185
55. Hernia, Intestinal Obstruction (32a) ..	122	87	79	39	21	17	12	1	..	256
56. Cirrhosis of the Liver (31a) ..	124	30	40	6	9	4	3	..	..	92
57. Other Diseases of the Liver and Biliary Passages including Biliary Calculi (31b) ..	125-127	111	128	46	30	17	11	..	..	343
58. Other Diseases of the Digestive System (32b) ..	*	91	68	25	14	17	8	1	..	224
59. Nephritis (33) ..	130-132	697	534	297	119	88	67	..	4	1,806
60. Other Diseases of the Kidneys and Ureters (34) ..	133	49	56	13	13	8	4	1	..	144
61. Calculi of the Urinary Passages (34) ..	134	14	9	10	1	1	..	..	..	35
62. Diseases of the Bladder (Tumors excepted) (34) ..	135	6	3	2	1	3	..	..	..	15
63. Diseases of the Urethra, Urinary Abscess, &c. (34) ..	136	..	1	..	..	..	..	..	..	1
64. Diseases of the Prostate (34) ..	137	..	..	..	..	..	..	..	..	..
65. Diseases of the Genital Organs not specified as Venereal (34) ..	138, 139	58	34	29	9	14	3	..	..	147
66. Accidents of Pregnancy (36) ..	141-143	18	14	15	5	7	..	..	1	60
67. Puerperal Hæmorrhage (36) ..	144	31	16	16	6	3	4	..	..	76
68a. Post-abortion Sepsis (35a) ..	140 (a)	9	3	15	2	6	4	..	..	39
68b. Criminal Abortion (35b) ..	140 (b)	50	46	..	3	5	1	..	..	105
68c. Puerperal Septicæmia (35c) ..	145	38	5	11	3	4	2	..	..	63
69. Toxæmias of Pregnancy: Albuminuria, Eclampsia, &c. (36) ..	146, 147	46	29	21	17	7	2	1	..	123
70. Other Puerperal Causes (36) ..	148-150	39	23	16	8	5	5	..	..	96
71. Diseases of the Skin and Cellular Tissue (37) ..	151-153	29	20	15	8	4	4	..	..	80
72. Diseases of the Bones and Organs of Locomotion (Tuberculosis and Rheumatism excepted) (37) ..	154-156	27	13	5	4	4	2	..	..	55
73. Congenital Malformations (Stillbirths not included) (38) ..	157	122	57	41	25	22	16	..	..	283
74. Congenital Debility (38) ..	158	33	19	8	5	10	9	..	..	84
75. Premature Births (Stillbirths not included) (38) ..	159	265	148	119	42	29	19	2	1	625
76. Injury at Birth (Stillbirths not included) (38) ..	160	90	34	38	10	15	4	..	..	191
77. Other Diseases peculiar to early Infancy (38) ..	161	68	58	23	15	5	14	..	1	184
78. Senility (39) ..	162	474	688	128	142	67	42	2	1	1,544
79. Suicide (40) ..	163-171	76	31	24	25	11	5	..	..	172
80. Homicide (41) ..	172-175	10	7	5	4	3	..	..	..	29
81. Accident (42) ..	176-194	349	220	143	90	63	22	..	..	887
82. Violent Deaths of which the Nature (Accident, Suicide, Homicide) is unknown (42) ..	195	21	30	..	2	2	2	..	..	57
83. Wounds of War (Execution of Civilians by Belligerent Armies included) (42) ..	196, 197	..	..	..	..	..	..	..	..	..
84. Legal Executions (42) ..	198	..	..	..	..	..	..	..	..	..
85. Cause of Death not Specified or Ill-defined (43) ..	199, 200	9	11	10	21	2	3	..	..	56
Total Females ..	..	11,357	8,929	3,817	2,622	1,588	1,055	17	20	29,405

\* No. 58:—115, 116, 118, 123, 128, 129.

NOTE.—Figures in parentheses indicate the abridged classification number in each instance.

**C.—CAUSES OF DEATH : PERSONS, 1938.**  
**INTERMEDIATE CLASSIFICATION.**

Intermediate Classification.	General Classification Numbers.	N.S.W.	Vic.	Q'land.	S. Aus.	W. Aus.	Tas.	Nor. Ter.	A. C. T.	Aus-tralia.
1. Typhoid and Paratyphoid Fever (1) .. .. .	1, 2	20	6	11	6	5	..	..	..	48
2. Typhus Fever (2) .. .. .	3	..	..	2	..	3	..	..	..	5
3. Small-pox (3) .. .. .	6	..	..	..	..	1	..	..	..	10
4. Measles (4) .. .. .	7	..	..	9	..	..	1	..	..	10
5. Scarlet Fever (5) .. .. .	8	12	9	5	2	..	..	..	..	28
6. Whooping Cough (6) .. .. .	9	79	5	57	1	1	1	..	..	144
7. Diphtheria (7) .. .. .	10	156	36	39	26	41	10	..	..	308
8a. Influenza—Pneumonic (8a) .. .. .	11(a)	269	53	95	8	14	1	..	3	443
8b. Influenza—Other (8b) .. .. .	11(b)	85	47	30	5	9	3	..	1	180
9. Dysentery (14) .. .. .	13	15	12	11	3	7	..	..	..	48
10. Plague (9) .. .. .	14	..	..	..	..	..	..	..	..	..
11. Tuberculosis of the Respiratory System (10) .. .. .	23	946	675	294	193	177	107	5	1	2,398
12a. Tubercular Meningitis (11a) .. .. .	24	33	26	..	10	5	7	..	..	81
12b. Other forms of Tuberculosis (11b) .. .. .	25-32	67	63	16	15	7	9	..	..	177
13. Syphilis (12) .. .. .	34	56	42	34	21	11	14	..	..	178
14. Purulent infection, Septicæmia (non-puerperal) (14) .. .. .	36	29	18	15	5	12	3	..	..	82
15. Malaria (13) .. .. .	38	3	2	4	1	..	..	..	..	10
16. Diseases due to other Protozoal Parasites or Helminths (14) .. .. .	39-42	23	11	10	3	2	4	1	..	54
17. Other Infectious and Parasitic Diseases (14) .. .. .	*	100	75	53	31	18	60	3	..	340
18. Cancer and other Malignant Tumors (15) .. .. .	45-53	2,967	2,365	1,008	769	559	255	3	3	7,929
19. Tumors, non-malignant or of which the nature is not specified (16) .. .. .	54, 55	174	90	77	35	30	4	..	..	410
20. Acute Rheumatic Fever (20) .. .. .	56	83	103	39	12	15	16	..	..	268
21. Chronic Rheumatism and Gout (17) .. .. .	57, 58	44	80	17	16	15	2	..	..	174
22. Diabetes Mellitus (18) .. .. .	59	443	371	178	140	56	31	..	1	1,220
23. Nutritional Diseases (20) .. .. .	60-64	5	1	3	..	1	..	..	..	10
24. Diseases of the Thyroid and Parathyroid Glands (20) .. .. .	66	102	49	41	9	12	14	..	1	228
25. Other General Diseases (20) .. .. .	65, 67-69	25	22	26	9	8	..	..	..	105
26. Anaemias (20) .. .. .	71	75	91	27	26	15	12	..	..	239
27. Leucaemias, Pseudo-leucaemias, and other Diseases of the Blood and Blood-making Organs (20) .. .. .	70, 72-74	142	93	50	31	25	7	1	2	351
28. Alcoholism (acute or chronic) (19) .. .. .	75	21	10	15	4	5	..	..	..	55
29. Other Chronic Poisonings (20) .. .. .	76, 77	1	1	1	1	1	..	..	..	14
30. Meningitis (23) .. .. .	79	71	56	22	9	19	3	1	1	182
31. Progressive locomotor ataxia (21) (tabes dorsalis) .. .. .	80	22	10	3	2	3	3	..	..	43
32. Cerebral Hæmorrhage, Cerebral Embolism and Thrombosis (22) .. .. .	82	992	1,022	347	385	186	129	..	1	3,062
33. General Paralysis of the Insane (21) .. .. .	83	47	25	10	6	8	..	..	..	96
34. Dementia Praecox and other Psychoses (23) .. .. .	84	47	20	24	9	1	2	..	..	103
35. Epilepsy (23) .. .. .	85	66	52	26	14	8	10	..	..	176
36. Other Diseases of the Nervous System (23) .. .. .	*	235	194	107	75	31	31	1	..	674
37. Diseases of the Eye, Ear and their Annexa (23) .. .. .	88, 89	36	30	10	6	6	2	..	..	90
38. Pericarditis (24) .. .. .	90	16	13	5	2	3	2	..	..	41
39. Acute Endocarditis (24) .. .. .	91	64	38	14	12	8	7	..	..	143
40. Chronic Endocarditis, Valvular Diseases (24) .. .. .	92	697	503	262	162	102	81	2	5	1,814
41. Diseases of the Myocardium (24) .. .. .	93	4,133	2,178	1,192	686	503	257	5	4	8,958
42. Diseases of the Coronary Arteries and Angina Pectoris (24) .. .. .	94	1,482	935	419	266	201	94	1	7	3,405
43. Other Diseases of the Heart (24) .. .. .	95	376	349	166	72	87	52	..	..	1,102
44. Aneurysm (except of the heart) (25) .. .. .	96	111	64	45	6	17	8	1	..	252
45. Arteriosclerosis and Gangrene (25) .. .. .	97, 98	1,490	1,374	395	274	147	119	1	2	3,802
46. Other Diseases of the Circulatory System (25) .. .. .	99-103	69	94	54	28	17	18	1	..	281
47a. Acute Bronchitis (26a) .. .. .	106 (a) (e)	88	23	19	23	5	5	..	..	163
47b. Chronic Bronchitis (26b) .. .. .	106 (b) (d)	170	211	51	51	33	21	1	..	538
48. Pneumonias (27) .. .. .	107-109	1,900	1,173	557	327	280	159	4	2	4,402

\* No. 17:—4, 5, 12, 15-22, 33, 35, 37, 43, 44; No. 36:—78, 81, 86, 87.

C.—CAUSES OF DEATH: PERSONS. 1938—*continued.*

## INTERMEDIATE CLASSIFICATION.

Intermediate Classification.	General Classification Numbers.	N.S.W.	Vic.	Q'land.	S. Aus.	W. Aus.	Tas.	Nor. Ter.	A. C. T.	Australia.
49. Pleurisy (28) .. .. .	110	60	34	38	16	10	7	..	..	165
50. Other Diseases of the Respiratory System (28) (Tuberculosis excepted) .. .. .	104, 105 111-114	208	227	137	105	71	35	1	2	786
51. Ulcer of the Stomach and Duodenum (32b) .. .. .	117	203	139	65	35	44	11	1	..	498
52. Diarrhoea and Enteritis (under 2 years of age) (29a) .. .. .	119	148	52	51	25	61	4	2	..	343
53. Diarrhoea and Enteritis (2 years and over) (29b) .. .. .	120	97	99	45	12	58	4	..	..	315
54. Appendicitis (30) .. .. .	121	234	111	92	39	35	12	..	2	525
55. Hernia, Intestinal Obstruction (32a) .. .. .	122	209	153	82	47	35	23	1	1	551
56. Cirrhosis of the Liver (31a) .. .. .	124	119	99	50	22	18	8	..	..	316
57. Other Diseases of the Liver and Biliary Passages, including Biliary Calculi (31b) .. .. .	125-127	164	195	68	41	33	16	1	..	518
58. Other Diseases of the Digestive System (32b) .. .. .	*	172	129	64	29	37	14	1	..	446
59. Nephritis (33) .. .. .	130-132	1,535	1,101	673	259	194	126	4	7	3,899
60. Other Diseases of the Kidneys and Ureters (34) .. .. .	133	105	101	36	21	22	9	1	..	295
61. Calculi of the Urinary Passages (34) .. .. .	134	49	31	21	12	4	..	..	..	117
62. Diseases of the Bladder (Tumors excepted) (34) .. .. .	135	14	27	14	6	17	2	1	..	81
63. Diseases of the Urethra, Urinary Abscess, etc. (34) .. .. .	136	9	18	1	1	1	2	..	..	32
64. Diseases of the Prostate (34) .. .. .	137	169	189	80	50	39	45	..	..	572
65. Diseases of the Genital Organs, not specified as Venereal (34) .. .. .	138, 139	59	34	31	10	14	3	..	..	151
66. Accidents of Pregnancy (36) .. .. .	141-143	18	14	15	5	7	..	..	1	60
67. Puerperal Haemorrhage (36) .. .. .	144	31	16	16	6	3	4	..	..	76
68a. Post-abortive Sepsis (35a) .. .. .	140(a)	9	3	15	2	6	4	..	..	39
68b. Criminal Abortion (35b) .. .. .	140(b)	50	46	..	3	5	1	..	..	105
68c. Puerperal Septicaemia (35c) .. .. .	145	38	5	11	3	4	2	..	..	63
69. Toxaemias of Pregnancy: Albuminuria, Eclampsia, etc. (36) .. .. .	146, 147	46	29	21	17	7	2	1	..	123
70. Other Puerperal Causes (36) .. .. .	148-150	39	23	16	8	5	5	..	..	96
71. Diseases of the Skin and Cellular Tissue (37) .. .. .	151-153	61	40	27	15	17	6	..	..	166
72. Diseases of the Bones and Organs of Locomotion (Tuberculosis and Rheumatism excepted) (37) .. .. .	154-156	71	43	20	14	10	7	..	..	165
73. Congenital Malformations (Still-births not included) (38) .. .. .	157	268	159	103	48	59	32	..	1	670
74. Congenital Debility (38) .. .. .	158	84	46	22	18	22	17	..	3	212
75. Premature Birth (Still-births not included) (38) .. .. .	159	632	345	284	86	80	53	2	2	1,484
76. Injury at Birth (Still-births not included) (38) .. .. .	160	222	83	91	30	26	17	..	..	469
77. Other Diseases peculiar to Early Infancy (38) .. .. .	161	157	143	63	27	21	27	..	1	439
78. Senility (39) .. .. .	162	818	1,267	274	288	158	80	5	1	2,891
79. Suicide (40) .. .. .	163-171	330	137	126	72	65	16	..	..	746
80. Homicide (41) .. .. .	172-175	33	25	12	5	4	2	..	..	81
81. Accident (42) .. .. .	176-194	1,442	916	595	287	300	106	6	4	3,656
82. Violent Deaths of which the Nature (Accident, Suicide, Homicide) is unknown (42) .. .. .	195	71	120	..	7	9	5	4	..	216
83. Wounds of War (Execution of Civilians by Belligerent Armies included) (42) .. .. .	196, 197	..	5	3	1	2	1	..	..	12
84. Legal Executions (42) .. .. .	198	1	..	..	1	..	..	..	..	2
85. Cause of Death not Specified or Ill-defined (43) .. .. .	199,200	43	32	34	69	11	8	7	1	205
<b>Total</b> .. .. .	..	26,105	18,955	9,201	5,539	4,234	2,288	69	60	66,451

\* No. 58:—115, 116, 118, 123, 128, 129.

NOTE.—Figures in parentheses indicate the abridged classification number in each instance.

## D.—CAUSES OF DEATH: ABRIDGED CLASSIFICATION, AUSTRALIA, 1934 TO 1938.

Abridged Classification.	General Classification Numbers.	1934.	1935.	1936.	1937.	1938.	1938—Rate per 1,000,000 Population.
1. Typhoid Fever .. .. .	1, 2	68	63	58	62	48	7
2. Typhus Fever .. .. .	3	..	6	8	3	5	1
3. Small-pox .. .. .	6	..	..	..	..	..	..
4. Measles .. .. .	7	77	129	43	18	10	1
5. Scarlet Fever .. .. .	8	45	26	56	33	28	4
6. Whooping Cough .. .. .	9	443	162	257	179	144	21
7. Diphtheria .. .. .	10	418	412	454	314	308	45
8a. Influenza—Pneumonic .. .. .	11(a)	646	871	323	261	443	64
8b. Influenza—Other .. .. .	11(b)	297	297	151	133	180	26
10. Tuberculosis of the Respiratory System .. .. .	23	2,588	2,553	2,537	2,462	2,398	348
11a. Tubercular Meningitis .. .. .	24	123	105	109	104	81	12
11b. Other Tuberculous Diseases .. .. .	25-32	196	195	190	190	177	26
12. Syphilis .. .. .	34	173	162	169	141	178	26
13. Malaria .. .. .	38	28	17	11	9	10	1
14. Other Infectious or Parasitic Diseases .. .. .	*	501	487	496	574	524	76
15. Cancer and other Malignant Tumours .. .. .	45-53	7,080	7,310	7,551	7,691	7,929	1,150
16. Tumors, Non-Malignant or of Unspecified Nature .. .. .	54, 55	356	409	449	428	410	59
17. Chronic Rheumatism, Gout .. .. .	57, 58	192	174	152	155	174	25
18. Diabetes Mellitus .. .. .	59	1,046	1,088	1,052	1,149	1,220	177
19. Acute and Chronic Alcoholism .. .. .	75	42	41	54	64	55	8
20. Other General Diseases .. .. .	..	1,101	1,121	1,194	1,114	1,215	176
21. Locomotor Ataxy, General Paralysis of Insane .. .. .	80, 83	143	162	157	149	139	20
22. Cerebral Hæmorrhage, Embolism, etc. .. .. .	82	3,124	3,029	3,030	2,962	3,062	444
23. Other Diseases of Nervous System and Sense Organs .. .. .	*	1,319	1,172	1,203	1,116	1,225	178
24. Diseases of the Heart .. .. .	90-95	12,907	13,862	13,782	14,692	15,463	2,243
25. Other Diseases of the Circulatory System .. .. .	96-103	3,122	3,448	3,759	4,064	4,335	629
26a. Acute Bronchitis .. .. .	106(a)(c)	227	180	199	172	163	24
26b. Chronic Bronchitis .. .. .	106(b)(d)	592	606	542	500	538	78
27. Pneumonia (all forms) .. .. .	107-109	4,358	4,629	4,396	4,212	4,402	638
28. Other Diseases of the Respiratory System .. .. .	104, 105, 110-114	1,080	904	1,039	957	951	138
29a. Diarrhœa and Enteritis (under two years of age) .. .. .	119	385	317	358	331	343	50
29b. Diarrhœa and Enteritis (two years and over) .. .. .	120	427	314	336	333	315	46
30. Appendicitis .. .. .	121	546	608	554	552	525	76
31a. Cirrhosis of the Liver .. .. .	124	259	289	284	281	316	46
31b. Other Diseases of the Liver and Biliary Calculi .. .. .	125-127	484	457	476	426	518	75
32a. Hernia, Intestinal Obstruction .. .. .	122	582	598	551	635	551	80
32b. Other Diseases of the Digestive System .. .. .	*	906	913	986	980	944	137
33. Nephritis .. .. .	130-132	3,725	3,721	3,695	3,838	3,899	565
34. Other Diseases of the Genito-Urinary System .. .. .	133-139	1,068	1,173	1,190	1,181	1,248	181
35a. Post-Abortive Sepsis .. .. .	140(a)	63	58	86	59	39	6
35b. Criminal Abortion .. .. .	140(b)	96	98	127	91	105	15
35c. Puerperal Septicæmia .. .. .	145	98	89	125	62	63	9
36. Other Diseases of Pregnancy and Labour .. .. .	{ 141-144, 146-150 }	374	345	358	339	355	51
37. Diseases of the Skin, Bones, etc. .. .. .	151-156	359	325	368	357	331	48
38. Congenital Debility, Malformations, Premature Birth, etc. .. .. .	157-161	3,171	3,161	3,303	3,231	3,274	475
39. Senility .. .. .	162	2,878	2,756	2,884	2,910	2,891	419
40. Suicide .. .. .	163-171	826	791	789	721	746	108
41. Homicide .. .. .	172-175	108	105	97	107	81	12
42. Accidental or Violent Death (except Suicide and Homicide) .. .. .	176-198	3,270	3,411	3,609	3,938	3,886	564
43. Non-specified and Ill-Defined Causes .. .. .	199, 200	310	359	335	207	205	30
Total .. .. .	..	62,229	63,599	63,932	64,496	66,451	9,638

\* No. 14:—4, 5, 12, 13, 15-22, 33, 35-17, 39-44; No. 20:—56, 60-74, 76, 77; No. 23:—78, 79, 81, 84-89; No. 32b:—115-118, 123, 128, 129.

## E.—CAUSES OF DEATH : ABRIDGED CLASSIFICATION, AUSTRALIA, NUMBERS AND RATES.

Abridged Classification.	General Classification Numbers.	Number of Deaths.			Average Rate per 1,000,000 of Population.		
		1911-15.	1921-25.	1931-35.	1911-15.	1921-25.	1931-35.
1. Typhoid Fever .. .. .	1, 2	2,848	1,209	379	119	42	12
2. Typhus Fever .. .. .	3	..	4	15	..	..	1
3. Small-pox .. .. .	6	6	4	1	..	..	..
4. Measles .. .. .	7	1,505	582	391	63	20	12
5. Scarlet Fever .. .. .	8	237	235	331	10	8	10
6. Whooping Cough .. .. .	9	1,657	1,612	1,186	69	57	36
7. Diphtheria .. .. .	10	3,677	2,565	2,083	154	90	63
8a. Influenza—Pneumonic .. .. .	11(a)	1,894	1,808	2,859	79	64	86
8b. Influenza—Other .. .. .	11(b)	1,344	1,326	..	47	47	40
9. Plague .. .. .	14	1	72	..	3	..	..
10. Tuberculosis of the Respiratory System .. .. .	23	15,737	15,321	13,221	659	538	400
11a. Tubercular Meningitis .. .. .	24	1,158	876	618	48	31	19
11b. Other Tuberculous Diseases .. .. .	25-32	1,460	1,404	1,016	61	49	31
12. Syphilis .. .. .	34	837	632	803	35	22	24
13. Malaria .. .. .	35	112	150	97	5	3	3
14. Other Infectious or Parasitic Diseases .. .. .	36	2,820	3,063	2,649	118	108	80
15. Cancer and other Malignant Tumours .. .. .	45-53	17,838	25,794	34,825	746	906	1,053
16. Tumours, Non-Malignant or of Unspecified Nature .. .. .	54, 55	546	633	1,817	23	22	55
17. Chronic Rheumatism, Gout .. .. .	57, 58	552	862	847	23	30	26
18. Diabetes Mellitus .. .. .	59	2,322	3,355	5,095	97	118	154
19. Acute and Chronic Alcoholism .. .. .	75	920	763	235	38	27	7
20. Other General Diseases .. .. .	*	4,039	5,355	5,437	169	188	164
21. Locomotor Ataxy, General Paralysis of Insane .. .. .	No. 83	1,074	1,118	797	45	39	24
22. Cerebral Haemorrhage, Embolism, etc. .. .. .	82	10,957	13,637	15,264	458	479	461
23. Other Diseases of Nervous System and Sense Organs .. .. .	*	12,550	10,323	5,971	525	363	181
24. Diseases of the Heart .. .. .	90-95	24,358	31,588	60,227	1,019	1,109	1,817
25. Other Diseases of the Circulatory System .. .. .	96-103	7,860	7,101	14,511	329	253	438
26a. Acute Bronchitis .. .. .	106(a)(c)	2,250	1,580	1,078	94	56	33
26b. Chronic Bronchitis .. .. .	106(b)(d)	4,962	4,053	2,966	208	142	90
27. Pneumonia (all-forms) .. .. .	107-109	15,201	18,400	20,157	636	646	608
28. Other Diseases of the Respiratory System .. .. .	104, 105, 110-114	4,583	5,781	5,045	192	203	152
29a. Diarrhoea and Enteritis (under two years of age) .. .. .	119	15,207	9,866	2,043	636	346	62
29b. Diarrhoea and Enteritis (two years and over) .. .. .	120	4,027	3,144	1,922	169	110	58
30. Appendicitis .. .. .	121	1,761	2,035	2,680	74	71	81
31a. Cirrhosis of the Liver .. .. .	124	1,932	1,531	1,321	81	54	40
31b. Other Diseases of the Liver and Biliary Calculi .. .. .	125-127	1,445	1,796	2,326	60	63	70
32a. Hernia, Intestinal Obstruction .. .. .	122	2,335	2,648	2,792	98	93	84
32b. Other Diseases of the Digestive System .. .. .	*	3,968	4,053	4,404	166	142	133
33. Nephritis .. .. .	130-132	10,751	12,803	17,754	450	450	536
34. Other Diseases of the Genito-Urinary System .. .. .	133-139	3,065	4,146	5,388	128	146	163
35a. Post-Abortive Sepsis .. .. .	140(a)	†	†	336	†	†	10
35b. Criminal Abortion .. .. .	140(b)	†	†	425	†	†	13
35c. Puerperal Septicæmia .. .. .	145	1,072	1,138	466	45	40	14
36. Other Diseases of Pregnancy and Labour .. .. .	141-144, 146-150	2,060	2,321	1,833	86	82	56
37. Diseases of the Skin, Bones, etc. .. .. .	151-156	994	1,556	1,696	42	55	51
38. Congenital Debility, Malformations, Premature Birth, etc. .. .. .	157-161	21,410	21,511	15,909	896	755	481
39. Senility .. .. .	162	20,904	20,429	14,021	875	717	424
40. Suicide .. .. .	163-171	3,123	3,106	3,988	131	109	121
41. Homicide .. .. .	172-175	446	439	530	19	15	16
42. Accidental or Violent Death (except Suicide and Homicide) .. .. .	176-198	14,842	13,875	15,639	621	487	472
43. Non-specified and Ill-Defined Causes .. .. .	199, 200	3,026	3,460	1,542	127	122	46
Total .. .. .	..	256,337	271,171	298,262	10,726	9,522	9,011

\* No. 14 :—4, 5, 12, 13, 15-22, 33, 35-37, 39-44; No. 20 :—56, 60-74, 76, 77; No. 23 :—78, 79, 81, 84-89; No. 32b :—115-118, 123, 128, 129. † Not available, included in 35c and 36.

13. Deaths from Principal Specific 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. The more important of these causes are treated in detail hereunder. The intermediate classification number is indicated in parenthesis for each cause or group of causes.

(ii) *Tuberculosis of the Respiratory System* (11). Of the various forms of tuberculosis prevalent in Australia, phthisis, or tuberculosis of the lungs, has attracted the most attention. The intimate relation, however, between tuberculosis of the lungs and of other parts of the respiratory system renders it desirable that all forms of tuberculosis of the respiratory system should be brought under one head for investigations concerning the age incidence and duration of this disease.

The decline in the toll levied by this disease on the community is plainly disclosed by the table on page 326, which shows how both the number of deaths and the death rate have declined since the period 1911 to 1915.

During 1938 there were 2,398 deaths (1,477 males and 921 females) from tuberculosis of the respiratory system, which compares favourably with the average of 2,547 for the preceding five years. The deaths in 1938 represented a rate of 348 per 1,000,000 persons living.

(iii) *Tuberculosis of the Meninges* (12a). The number of deaths ascribed to this cause in 1938 was 81, which is below the average of 108 for the preceding five years.

(iv) *Other Forms of Tuberculosis* (12b). The 177 deaths in 1938 comprised the following:—Tuberculosis of the intestines and peritoneum, 36; vertebral column, 35; other bones and joints, 11; skin and sub-cutaneous cellular tissue, 1; lymphatic system, 5; genito-urinary system, 26; other organs, 1; and disseminated tuberculosis—acute 53, chronic 1 and unspecified 8.

(v) *All Forms of Tuberculosis* (11, 12)—(a) *General*. The total number of deaths in 1938 was 2,656, viz., 1,622 males and 1,034 females.

(b) *Ages at Death*. The following table shows the ages of these 2,656 persons; corresponding figures are also given for the year 1911:—

**TUBERCULAR DISEASES: DEATHS IN AGE-GROUPS, AUSTRALIA.**

Ages.	1911.			1938.		
	Males.	Females.	Total.	Males.	Females.	Total.
Under 5 years	124	114	238	34	26	60
5 years and under 10	30	31	61	11	11	22
10 " " 15	44	42	86	11	14	25
15 " " 20	70	148	218	29	64	93
20 " " 25	168	260	428	66	142	208
25 " " 30	219	255	474	102	141	243
30 " " 35	220	206	426	100	143	243
35 " " 40	187	176	363	133	116	249
40 " " 45	246	140	386	155	85	240
45 " " 50	223	100	323	192	65	257
50 " " 55	164	49	213	190	51	241
55 " " 60	140	49	189	198	49	247
60 " " 65	89	43	132	140	39	179
65 " " 70	64	37	101	126	32	158
70 " " 75	42	19	61	78	29	107
75 " " 80	15	6	21	43	19	62
80 " " over	7	6	13	13	8	21
Age unspecified	3	..	3	1	..	1
Total	2,055	1,681	3,736	1,622	1,034	2,656

(c) *Occupations at Death, Males*. A tabulation of occupations of the males who died from tubercular diseases in 1921, 1931 and 1938, together with the percentage which each class bears to the total male deaths from these diseases, is given hereunder:—



TUBERCULOSIS (ALL FORMS): DEATH RATES AND PROPORTION OF  
TOTAL DEATHS—*continued.*

State or Territory.	Proportion per 10,000 Deaths from all Causes.					
	1911.			1938.		
	Males.	Females.	Persons.	Males.	Females.	Persons.
New South Wales .. .. .	737	737	737	453	333	401
Victoria .. .. .	801	936	862	411	394	403
Queensland .. .. .	613	648	626	373	286	337
South Australia .. .. .	775	995	877	432	351	394
Western Australia .. .. .	718	870	770	533	302	446
Tasmania .. .. .	839	854	846	560	512	538
Northern Territory .. .. .	1,356	..	1,231	769	588	725
Australian Capital Territory .. .. .	..	2,000	1,000	250	..	167
<b>Australia .. .. .</b>	<b>745</b>	<b>829</b>	<b>780</b>	<b>438</b>	<b>352</b>	<b>400</b>

(f) *Death Rates, Various Countries.* The following comparative table for various countries shows that Australia occupies a very favourable position as regards the death rate from this disease:—

TUBERCULOSIS: DEATHS PER 100,000 PERSONS LIVING, VARIOUS COUNTRIES.

Country.	Year.	Respiratory System.	All Forms.	Country.	Year.	Respiratory System.	All Forms.
Queensland .. .. .	1937	29	30	Belgium .. .. .	1936	56	72
Union of South Africa (Europeans)	1936	30	34	Germany .. .. .	1935	62	73
New South Wales .. .. .	1937	37	40	Scotland .. .. .	1936	55	74
<b>Australia .. .. .</b>	<b>1937</b>	<b>36</b>	<b>40</b>	Italy .. .. .	1936	65	87
Western Australia .. .. .	1937	38	43	Switzerland .. .. .	1936	73	95
Victoria .. .. .	1937	38	43	Sweden .. .. .	1934	85	103
South Australia .. .. .	1937	38	44	Northern Ireland .. .. .	1936	78	103
New Zealand .. .. .	1936	36	46	Norway .. .. .	1935	86	106
Denmark .. .. .	1936	37	47	Spain .. .. .	1935	(a)	107
Netherlands .. .. .	1936	36	50	Eire .. .. .	1936	92	117
Tasmania .. .. .	1937	36	51	France .. .. .	1934	109	126
United States .. .. .	1936	51	56	Greece .. .. .	1936	104	128
Egypt .. .. .	1936	45	56	Czechoslovakia .. .. .	1936	114	129
Ceylon .. .. .	1937	55	(a)	Japan .. .. .	1936	105	142
Canada .. .. .	1936	50	61	Hungary .. .. .	1936	127	152
England and Wales .. .. .	1936	58	69	Portugal .. .. .	1937	125	153
Great Britain and Northern Ireland	1936	58	71	Poland (b) .. .. .	1937	135	153
				Finland .. .. .	1936	179	210

(a) Not available.

(b) In towns with over 100,000 inhabitants.

(vi) *Cancer and other Malignant Tumours (18).*—(a) *General.* The number of deaths from cancer increased continuously to 6,256 in 1929, declined slightly to 6,120 in 1930, but rose again progressively to 7,929 in 1938. Of the deaths registered during 1938, 4,094 were of males, viz., 1,546 in New South Wales, 1,158 in Victoria, 595 in Queensland, 346 in South Australia, 327 in Western Australia, 119 in Tasmania, 2 in the Northern Territory, and 1 in the Australian Capital Territory; while 3,835 were of females, viz.,

1,421 in New South Wales, 1,207 in Victoria, 413 in Queensland, 423 in South Australia, 232 in Western Australia, 136 in Tasmania, 1 in the Northern Territory, and 2 in the Australian Capital Territory.

(b) *Type and Seat of Disease.* Tables showing the type and seat of disease, in conjunction with age and with conjugal condition, of the persons dying from cancer in 1938 will be found in *Demography Bulletin*, No. 56. A summary regarding type and seat of disease for the year 1938 is given below. It may be pointed out that the significance of the numbers of deaths shown for the various types of cancer 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. On this account it is proposed to discontinue the use of the present classification and to adopt as soon as possible a simpler grouping showing only the more important types of cancer.

#### DEATHS FROM CANCER: TYPE AND SEAT OF DISEASE, AUSTRALIA, 1938.

Type of Disease.	Males.	Fem.	Persons.	Seat of Disease.	Males.	Fem.	Persons.
Cancer .. ..	341	393	734	Buccal Cavity and Pharynx ..	308	47	355
Carcinoma—				Digestive Tract and Peritoneum—			
Carcinoma Simplex	3,106	2,914	6,020	Stomach and Duodenum ..	1,124	651	1,775
Epithelioma ..	125	51	176	Rectum ..	249	148	397
Scirrhus ..	3	28	31	Colon ..	287	328	615
Rodent Ulcer ..	38	36	74	Other ..	700	627	1,327
Adeno-Carcinoma	27	47	74	Respiratory Organs	285	93	378
Colloid Carcinoma	5	..	5	Uterus ..	..	551	551
Paget's Disease ..	..	2	2	Other Female Genital Organs ..	..	199	199
Sarcoma—				Breast ..	8	780	788
Sarcoma ..	139	119	258	Male Genito-Urinary Organs ..	681	..	681
Myeloma ..	6	5	11	Skin ..	163	86	249
Endothelioma ..	8	5	13	Other or Unspecified Organs ..	289	325	614
Melanoma—							
Melanotic Sarcoma	25	12	37				
Melano-Carcinoma	8	5	13				
Embryonic Tumours—							
Hypernephroma	28	9	37				
Teratoma ..	3	1	4				
Malignant Disease..	232	208	440				
<b>Total Deaths</b>	<b>4,094</b>	<b>3,835</b>	<b>7,929</b>	<b>Total Deaths</b>	<b>4,094</b>	<b>3,835</b>	<b>7,929</b>

(c) *Ages at Death.* The ages of the persons who died from cancer in 1911 and 1938 are given below. Inferences drawn from the great increase in the number of deaths from cancer in 1938 compared with 1911 need qualification in view of the altered age constitution of the population since the earlier year. The number of people reaching the older ages at which cancer risks are greatest has more than doubled in the last twenty years, and it is only in the extreme old age groups from 60 onwards that the rate of mortality has definitely increased. For all groups up to age 60 there has been no increase in mortality rates since 1911. In the higher age groups no increase has been recorded in the female rate while the rate for males has shown only a slight increase. It is also probable that a proportion of the increased number of deaths recorded from cancer 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.

## DEATHS FROM CANCER : AGES, AUSTRALIA.

Ages.	1911.			1938.		
	Males.	Females.	Total.	Males.	Females.	Total.
Under 15 years .. ..	21	8	29	13	18	31
15 years and under 20 ..	10	6	16	5	10	15
20 " " 25 ..	10	7	17	8	14	22
25 " " 30 ..	12	17	29	21	26	47
30 " " 35 ..	25	35	60	39	34	73
35 " " 40 ..	29	59	88	51	89	140
40 " " 45 ..	81	100	181	98	178	276
45 " " 50 ..	132	173	305	199	288	487
50 " " 55 ..	208	203	411	297	360	657
55 " " 60 ..	203	179	382	434	400	834
60 " " 65 ..	243	177	420	523	454	977
65 " " 70 ..	306	194	500	655	532	1,187
70 " " 75 ..	203	160	363	747	564	1,311
75 " " 80 ..	150	136	286	586	466	1,052
80 " " 85 ..	83	67	150	328	274	602
85 years and over ..	44	39	83	89	128	217
Unspecified .. ..	1	..	1	1	..	1
<b>Total Deaths</b> .. ..	<b>1,761</b>	<b>1,560</b>	<b>3,321</b>	<b>4,094</b>	<b>3,835</b>	<b>7,929</b>

(d) *Occupations.* A tabulation in summarized form of occupations of the males who died from cancer in 1921, 1931 and 1938, together with the percentage of each class to the total male deaths from this disease, is given hereunder :—

## OCCUPATION OF MALES WHO DIED FROM CANCER : AUSTRALIA.

Occupation Group.	Number of Male Deaths.			Percentage of Total.		
	1921.	1931.	1938.	1921.	1931.	1938.
				%	%	%
Professional .. ..	133	188	244	5.45	5.40	5.96
Domestic .. ..	76	97	103	3.11	2.78	2.52
Commercial .. ..	275	446	389	11.27	12.80	9.50
Transport and Communica- tion .. ..	212	295	388	8.69	8.47	9.48
Industrial .. ..	940	1,346	793	38.52	38.63	19.37
Agricultural, Pastoral, Mining, etc. .. ..	639	843	952	26.19	24.20	23.25
Indefinite .. ..	129	130	21,209	5.29	3.73	29.53 <sup>a</sup>
Dependent .. ..	36	139	16	1.48	3.99	0.39
<b>Total Male Deaths</b> .. ..	<b>2,440</b>	<b>3,484</b>	<b>4,094</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

(a) Includes 880 (21.49 per cent.) clerks, labourers, etc., not specified as belonging to any industry, who were formerly included under "Commercial" or "Industrial".

(e) *Death Rates.* The following table shows the death rates per 100,000 of mean population from cancer in each State for the years 1911 and 1938. The substantial increase in the death rate since 1911 is reflected in both sexes and in all States :—

## DEATHS FROM CANCER : RATES.(a)

State or Territory.	1911.			1938.		
	Males.	Females.	Total.	Males.	Females.	Total.
New South Wales .. .. .	77	71	74	113	105	109
Victoria .. .. .	80	85	82	126	128	127
Queensland .. .. .	71	56	64	114	87	101
South Australia .. .. .	70	76	73	117	143	130
Western Australia .. .. .	65	57	62	135	107	122
Tasmania .. .. .	77	60	69	100	117	108
Northern Territory .. .. .	37	..	30	52	54	52
Australian Capital Territory .. .. .	99	..	56	17	39	27
Australia .. .. .	75	72	74	117	113	115

(a) Number of deaths from cancer 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 cancer has risen almost continuously, the result being that out of 10,000 deaths from all causes, 1,193 were due to cancer in 1938, as against 693 per 10,000 total deaths in 1911.

## DEATHS FROM CANCER : PROPORTIONS PER 10,000 DEATHS.

State or Territory.	1911.			1938.		
	Males.	Females.	Total.	Males.	Females.	Total.
New South Wales .. .. .	662	783	713	1,048	1,251	1,137
Victoria .. .. .	637	819	719	1,155	1,352	1,248
Queensland .. .. .	586	628	602	1,105	1,082	1,096
South Australia .. .. .	675	828	745	1,186	1,613	1,388
Western Australia .. .. .	557	700	605	1,236	1,461	1,320
Tasmania .. .. .	723	629	680	965	1,289	1,115
Northern Territory .. .. .	170	..	154	385	588	435
Australian Capital Territory .. .. .	2,000	..	1,000	250	1,000	500
Australia .. .. .	638	769	693	1,105	1,304	1,193

(g) *Comparison with Tuberculosis.* In recent years the death rate from tuberculosis has shown a tendency to decrease, while that from cancer 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 cancer. Thus in the thirty-five years comprised in the quinquennial averages shown below the death rate for tuberculosis declined by 44 while the rate for cancer increased by 42 per 100,000 persons. This equal but opposite tendency may be demonstrated by stating that the death rate from tuberculosis and cancer combined remains almost constant from period to period, the figures being :—1901-05, 152 per 100,000; 1906-10, 145; 1911-1915, 152; 1916-20, 154; 1921-25, 153; 1931-35, 150; and 1938, 154.

## TUBERCULOSIS AND CANCER: DEATH RATES(a), AUSTRALIA.

Period.	Death Rate (a) from Tuberculosis.			Death Rate (a) from Cancer.		
	Males.	Females.	Total.	Males.	Females.	Total.
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
1931-35 ..	52	37	45	108	102	105
1938 ..	47	30	39	117	113	115

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

(h) *Death Rates, Various Countries.* The following table shows the Australian death rate from cancer in comparison with that for other countries:—

## CANCER: DEATHS PER 100,000 PERSONS LIVING, VARIOUS COUNTRIES.

Country.	Year.	Rate.	Country.	Year.	Rate.
Ceylon .. ..	1937	10	Australia .. ..	1937	113
Egypt .. ..	1936	26	New Zealand .. ..	1936	118
Japan .. ..	1936	48	Eire .. ..	1936	121
Greece .. ..	1936	50	Czechoslovakia .. ..	1936	126
Portugal .. ..	1937	51	Sweden .. ..	1934	127
Spain .. ..	1935	68	Norway .. ..	1935	127
Italy .. ..	1936	84	Northern Ireland .. ..	1936	130
France .. ..	1934	96	Netherlands .. ..	1936	131
Union of South Africa (Europeans) .. ..	1936	97	Germany .. ..	1935	145
Finland .. ..	1936	100	Denmark .. ..	1936	151
Poland (a) .. ..	1936	104	Scotland .. ..	1936	159
Canada .. ..	1936	106	Switzerland .. ..	1936	161
Belgium .. ..	1936	110	Great Britain and Northern Ireland .. ..	1936	168
Hungary .. ..	1936	110	England and Wales .. ..	1936	169
United States .. ..	1936	111			

(a) In towns with over 100,000 inhabitants.

(vii) *Diseases of the Heart* (38 to 43). The number of deaths in 1938 was 15,463, viz., 9,008 males and 6,455 females. Of these deaths, 41 were attributed to pericarditis, 132 to acute infective endocarditis, 11 to other acute endocarditis, 333 to aortic valve disease, 672 to mitral valve disease, 75 to aortic and mitral valve disease, 188 to endocarditis not returned as acute or chronic, 546 to other or unspecified valve disease, 150 to acute myocarditis, 89 to fatty heart, 6,797 to other myocardial degeneration, 1,922 to myocarditis not returned as acute or chronic, 2,900 to diseases of coronary arteries, 168 to angina pectoris with record of coronary disease, 337 to other angina pectoris, 332 to disordered action of the heart, 50 to cardiac dilatation (cause unspecified), and 720 to heart disease undefined. The sex and territorial distribution of the deaths will be found in the tables on pages 319 to 324. This class is the largest among causes of death, the death rate having grown from 1,019 per million in 1911-15 to 1,817 in 1931-35 and 2,243 in 1938. The increase in the numbers of deaths recorded from heart diseases has been particularly pronounced during the past six years. The rapid increase in mortality is partly a reflection of the ageing of the population, but has 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. As a result of a change of classification adopted in 1931, all forms of this disease have been included among heart diseases from that year onwards. Although deaths recorded from coronary diseases were not numerically important in 1931, this type of disease has since become prominent in medical science, and in 1938 the number of deaths assigned to this cause was 2,900, an increase of 2,336, or over 400 per cent., since 1931. The death rates and proportions per 10,000 deaths in 1938 were as follows :—

**DISEASES OF THE HEART: DEATH RATES(a) AND PROPORTION OF  
10,000 TOTAL DEATHS, 1938.**

State or Territory.	Death Rates (a) from Diseases of the Heart.			Proportion of 10,000 Deaths.		
	Males.	Females.	Total.	Males.	Females.	Total.
New South Wales .. ..	289	207	249	2,693	2,462	2,593
Victoria .. ..	244	187	215	2,244	1,978	2,119
Queensland .. ..	239	169	206	2,327	2,109	2,237
South Australia .. ..	229	177	203	2,321	1,995	2,166
Western Australia .. ..	235	154	197	2,154	2,103	2,135
Tasmania .. ..	222	196	209	2,149	2,161	2,155
Northern Territory .. ..	206	..	140	1,538	..	1,159
Australian Capital Territory	215	59	144	3,250	1,500	2,667
<b>Australia .. ..</b>	<b>258</b>	<b>190</b>	<b>224</b>	<b>2,432</b>	<b>2,195</b>	<b>2,327</b>

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

(viii) *Diarrhoea and Enteritis (Children under two years of age)* (52). The number of deaths due to these causes was 343 in 1938, which is slightly under the average of 346 for the previous five years. During 1938, 5,258 children died before reaching their second birthday, and of these 343, or 6.5 per cent., died from diarrhoea and enteritis. The ages of children dying from these diseases during the first year of life will be found on page 312.

The number of deaths under 2 years of age, the death rates, and proportions of 10,000 deaths due to diarrhoea and enteritis for 1911-15, 1921-25, 1931-35 and 1938 are given in the following table. Reference to the last four lines of the table will reveal the very satisfactory decrease in the number of deaths due to these diseases. 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 would be the estimated number of children in every 1,000 born who died from these diseases before reaching their second birthday. The numbers are estimated to be 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

**DIARRHŒA AND ENTERITIS (UNDER 2 YEARS OF AGE): DEATHS AND DEATH RATES(a), AUSTRALIA, 1938.**

State.	Number of Deaths from Diarrhœa and Enteritis. (Under 2 years of age.)			Death Rates (a) from Diarrhœa and Enteritis. (Under 2 years of age.)			Proportion of 10,000 Deaths.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
New South Wales	92	56	148	7	4	5	62	49	57
Victoria	27	25	52	3	3	3	27	28	27
Queensland	22	29	51	4	6	5	41	76	55
South Australia	17	8	25	5	2	4	58	31	45
Western Australia	38	23	61	16	10	13	144	145	144
Tasmania	1	3	4	1	3	2	8	28	17
Northern Territory	2	..	2	52	..	35	385	..	290
Australia 1938	199	144	343	6	4	5	54	49	52
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

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

(ix) *Puerperal Septicæmia* (including Post-Abortive Sepsis, but excluding Criminal Abortion) (68a,c). Mortality from puerperal septicæmia and post-abortive sepsis during 1938 was exceptionally light, the 102 deaths resulting being the lowest recorded during the past eight years. Figures prior to 1931 for these particular causes are not available on a strictly comparable basis, as it is probable that some of the deaths now included under criminal abortion were classified with puerperal septicæmia in earlier years. The death rate per 1,000 live births during 1938 was 0.84, while corresponding rates for preceding years were:—1931, 1.51; 1932, 1.40; 1933, 1.44; 1934, 1.46; 1935, 1.32; 1936, 1.82; and 1937, 1.02. The rate in 1938 per 1,000 live births of the 207 deaths from puerperal septicæmia, including criminal abortion, was 1.66. The 207 deaths mentioned were made up as follows:—Post-abortive sepsis 39, criminal abortion 105, puerperal septicæmia 63.

(x) *Other Diseases or Accidents of Pregnancy and Labour* (66, 67, 69, 70). The deaths under this heading numbered 339 in 1933; 374 in 1934; 345 in 1935; 358 in 1936; 339 in 1937; and 355 in 1938. Included in the 355 deaths in 1938 were the following:—Abortion not returned as septic, 24; ectopic gestation, 31; other accidents of pregnancy, 5; puerperal hæmorrhage, 76; puerperal albuminuria and convulsions, 95; other toxæmias of pregnancy, 28; phlegmasia alba dolens and thrombosis, 3; embolism or sudden death, 33; other accidents of childbirth, 56 (Caesarean section, 19; others 37); other or unspecified conditions of the puerperal state, 4.

(xi) *All Puerperal Causes* (66 to 70). The 562 deaths in 1938 under the preceding two headings, including criminal abortion, correspond to a death rate of 16.5 per 100,000 females or 30.6 per 100,000 women between the ages of 15 and 45 years. The rate is also equivalent to 4.64 deaths per 1,000 live births. The death rate may be expressed in other terms by stating that 1 of every 212 women giving birth to a live child in 1938 died from puerperal causes; the corresponding ratios for married women were 1 of every 236, and for single women 1 in every 65. More detailed information will be found in a series of tables in *Demography Bulletin*, No. 56.

The following table shows the death rate per 1,000 live births from puerperal causes in various countries. Care is needed in comparing the Australian rates with the figures for other countries. In the rates for Australian States and the Commonwealth deaths from criminal abortion have been excluded from puerperal sepsis deaths but included with deaths from other puerperal causes and in the total. Definite information is not available as to the practice in other countries but it is very probable that the rates for the countries given hereunder totally exclude deaths from criminal abortion.

CHILDBIRTH: DEATHS PER 1,000 LIVE BIRTHS, VARIOUS COUNTRIES.

Country.	Year.	Rates per 1,000 Live Births from—		
		Puerperal Sepsis.	Other Puerperal Causes.	All Puerperal Causes.
Japan .. .. .	1936	0.64	1.67	2.31
France .. .. .	1934	1.00	1.50	2.50
Norway .. .. .	1935	1.38	1.43	2.81
Italy .. .. .	1936	1.23	1.76	2.99
Netherlands .. .. .	1936	0.99	2.04	3.03
Sweden .. .. .	1934	1.60	1.70	3.30
Spain .. .. .	1935	2.00	1.40	3.60
England and Wales (b) .. .. .	1936	1.34	2.31	3.65
New Zealand .. .. .	1936	0.92	2.78	3.70
Denmark .. .. .	1936	1.30	2.60	3.90
Tasmania .. .. .	1937	1.24	2.69	3.93
Great Britain and Northern Ireland .. .. .	1936	1.52	2.58	4.10
Western Australia .. .. .	1937	0.69	3.49	4.18
Greece .. .. .	1936	2.20	2.00	4.20
Hungary .. .. .	1936	2.53	1.80	4.33
Victoria .. .. .	1937	0.64	3.70	4.34
Switzerland .. .. .	1936	(c)	(c)	4.36
Queensland .. .. .	1937	1.10	3.39	4.49
Belgium .. .. .	1936	1.60	3.00	4.60
Australia .. .. .	1937	1.02	3.61	4.63
Eire .. .. .	1936	1.79	2.91	4.70
Germany .. .. .	1935	1.99	2.86	4.85
Czechoslovakia .. .. .	1936	2.88	2.03	4.91
New South Wales .. .. .	1937	1.10	3.81	4.91
Union of South Africa (Europeans) .. .. .	1936	2.39	2.71	5.10
South Australia .. .. .	1937	1.78	3.34	5.12
Scotland .. .. .	1936	2.19	3.36	5.55
Canada .. .. .	1936	2.00	3.60	5.60
United States .. .. .	1936	2.15	2.53	5.68
Northern Ireland .. .. .	1936	2.24	3.82	6.06
Egypt (a) .. .. .	1936	2.67	7.15	9.85

(a) Localities having Health Bureaux. (b) Rate per 1,000 live and still-births. (c) Not available.

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. 56.

The total number of children left by the 485 married mothers who died was 1,096, an average of 2.3 children per mother.

Twenty-nine of the mothers who died had been married less than one year, 64 between one and two years, and 56 between two and three years. The duration of marriage ranged up to 29 years, apart from 3 cases in which the date of marriage was not stated. Tabulations distinguishing the ages at marriage and at death will be found in *Demography Bulletin*, No. 56, which also includes a table showing in combination the duration of marriage and previous issue.

(xii) *Congenital Malformation, Debility and Premature Birth* (73 to 77). The deaths under this heading in 1938 numbered 3,274 of which 3,139 were of children under one year of age. Of all deaths of children under one year of age 68 per cent. was due to these causes. The number of deaths for 1938 is given in the following table:—

## DEATHS FROM CONGENITAL DEBILITY, ETC., AND MALFORMATION, 1938.

State or Territory.	Congenital Malformation.			Premature Birth and Injury at Birth.			Congenital Debility and other Diseases peculiar to Early Infancy.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
New South Wales	146	122	268	499	355	854	140	101	241
Victoria ..	102	57	159	246	182	428	112	77	189
Queensland ..	62	41	103	218	157	375	54	31	85
South Australia ..	23	25	48	64	52	116	25	20	45
Western Australia	37	22	59	62	44	106	28	15	43
Tasmania ..	16	16	32	47	23	70	21	23	44
Northern Territory	..	..	..	..	2	2	..	..	..
Australian Capital Territory ..	1	..	1	1	1	2	3	1	4
Australia ..	387	283	670	1,137	816	1,953	383	268	651
Number of deaths under one year	321	214	535	1,137	816	1,953	383	268	651
Number of deaths under one year per 1,000 births	5.19	3.66	4.44	18.37	13.94	16.21	6.19	4.59	5.41

(xiii) *Suicide* (79).—(a) *General*. The deaths from suicide rose each year from 533 in 1922 to 943 in 1930, but the number had declined to 754 in 1932. Since the latter year the deaths from this cause have fluctuated as follows:—1933, 790 deaths—633 males and 157 females; 1934, 826—643 males and 183 females; 1935, 791—612 males and 179 females; 1936, 789—611 males and 178 females; 1937, 721—573 males and 148 females; and 1938, 746—574 males and 172 females.

(b) *Modes Adopted*. The modes adopted by persons who committed suicide in the years 1931–35, 1937 and 1938 were as follows:—

## SUICIDE : MODES ADOPTED, AUSTRALIA.

Mode of Death.	Males.			Females.			Persons.		
	Average of 5 years, 1931–35.	1937.	1938.	Average of 5 years, 1931–35.	1937.	1938.	Average of 5 years, 1931–35.	1937.	1938.
Poisoning .. ..	139	112	103	67	54	67	206	166	170
Poisonous gas .. ..	39	45	38	20	23	17	59	68	55
Hanging or Strangulation .. ..	83	62	72	17	14	24	100	76	96
Drowning .. ..	46	48	33	28	18	24	74	66	57
Firearms .. ..	199	190	207	11	14	15	210	204	222
Cutting or piercing instruments .. ..	89	88	83	9	15	11	98	103	94
Jumping from a high place .. ..	15	8	15	6	4	6	21	12	21
Crushing .. ..	13	11	9	2	3	4	15	14	13
Other Modes .. ..	12	9	14	3	3	4	15	12	18
Total .. ..	635	573	574	163	148	172	798	721	746

(c) *Death Rates.* The death rates from suicide and the proportion per 10,000 of total deaths are given in the following table for 1938, corresponding rates for the periods 1911-15, 1921-25, 1931-35, 1935, 1936 and 1937 being shown at the foot of the table:—

**SUICIDE : DEATHS, DEATH RATES(a), AND PROPORTION OF TOTAL DEATHS, 1938.**

State or Territory.	Number of Deaths.			Death Rates (a) from Suicide.			Proportion of 10,000 Total Deaths.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
New South Wales	254	76	330	19	6	12	172	67	126
Victoria ..	106	31	137	12	3	7	106	35	72
Queensland ..	102	24	126	20	5	13	189	63	137
South Australia..	47	25	72	16	8	12	161	95	130
Western Australia	54	11	65	22	5	14	204	69	154
Tasmania ..	11	5	16	9	4	7	89	47	70
Northern Territory	..	..	..	..	..	..	..	..	..
Australian Capital Territory ..	..	..	..	..	..	..	..	..	..
Australia, 1938 ..	574	172	746	17	5	11	155	58	112
"   1937 ..	573	148	721	17	4	11	158	52	112
"   1936 ..	611	178	789	18	5	12	171	63	123
"   1935 ..	612	179	791	18	5	12	171	64	124
Average—1931-35	635	163	798	19	5	12	190	62	134
"   1921-25	509	112	621	18	4	11	166	48	114
"   1911-15	509	115	624	21	5	13	172	53	122

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

(d) *Ages.* From the following table, which shows the ages of the persons who committed suicide in 1938, it will be seen that both extreme youth and extreme old age are represented:—

**AGES OF PERSONS WHO COMMITTED SUICIDE : AUSTRALIA, 1938.**

Ages.	M.	F.	Total.	Ages.	M.	F.	Total.
10 years and under 15	3	1	4	60 years and under 65	53	9	62
15 " " 20	13	6	19	65 " " 70	33	4	37
20 " " 25	32	13	45	70 " " 75	18	2	20
25 " " 30	46	17	63	75 " " 80	12	4	16
30 " " 35	52	23	75	80 " " 85	14	..	14
35 " " 40	54	18	72	85 " " 90	3	3	6
40 " " 45	49	17	66	90 " " 95	..	..	..
45 " " 50	75	14	89	95 " " 100	..	..	..
50 " " 55	53	20	73	Not stated	4	..	4
55 " " 60	60	21	81	Total Deaths ..	574	172	746

(e) *Occupations of Males.* The next table gives the occupations of the males who committed suicide in 1921, 1931 and 1938 :—

## OCCUPATIONS OF MALES WHO COMMITTED SUICIDE : AUSTRALIA.

Occupation Group.	Number of Male Deaths.			Percentage of Total.		
	1921.	1931.	1938.	1921.	1931.	1938.
Professional .. .. .	32	29	33	6.27	4.21	5.75
Domestic .. .. .	20	22	21	3.92	3.19	3.66
Commercial .. .. .	81	106	66	15.88	15.38	11.50
Transport and Communica- tion .. .. .	42	52	38	8.24	7.55	6.62
Industrial .. .. .	180	256	89	35.29	37.16	15.51
Agricultural, Pastoral, Min- ing, etc. .. .. .	131	182	134	25.69	26.41	23.34
Indefinite .. .. .	21	39	(a) 188	4.12	5.66	(a) 32.75
Dependent .. .. .	3	3	5	0.59	0.44	0.87
<b>Total Male Deaths ..</b>	<b>510</b>	<b>689</b>	<b>574</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

(a) Includes 143 (24.91 per cent.) clerks, labourers, etc., not specified as belonging to any industry who were formerly included under "Commercial" or "Industrial".

(f) *Death Rates, Various Countries.* The following comparative table for various countries shows that Australia occupies a fairly favourable position as regards the death rate from suicide :—

## SUICIDE : DEATHS PER 100,000 PERSONS LIVING, VARIOUS COUNTRIES.

Country.	Year.	Rate.	Country.	Year.	Rate.
Egypt .. .. .	1936	2.0	New South Wales ..	1937	11.0
Eire .. .. .	1936	3.3	Great Britain and Nor- thern Ireland ..	1936	12.2
Spain .. .. .	1935	3.9	Queensland .. .. .	1937	12.3
Northern Ireland ..	1936	4.0	England and Wales ..	1936	12.4
Greece .. .. .	1936	5.7	United States .. .. .	1936	14.2
Norway .. .. .	1935	6.5	Western Australia ..	1937	14.5
Italy .. .. .	1936	7.9	Japan .. .. .	1936	15.1
Netherlands .. .. .	1936	8.1	Sweden .. .. .	1934	15.3
Union of South Africa (a) .. .. .	1936	8.3	Finland .. .. .	1936	16.2
Tasmania .. .. .	1937	8.5	Belgium .. .. .	1935	16.8
Victoria .. .. .	1937	8.6	Denmark .. .. .	1935	19.4
Canada .. .. .	1937	8.8	France .. .. .	1934	21.4
South Australia ..	1937	9.5	Poland (b) .. .. .	1936	22.0
Scotland .. .. .	1936	10.0	Germany .. .. .	1935	27.5
New Zealand .. .. .	1936	10.0	Switzerland .. .. .	1936	27.8
Portugal .. .. .	1937	10.6	Czechoslovakia .. ..	1936	27.8
Australia .. .. .	1937	10.6	Hungary .. .. .	1936	31.0

(a) European population only.

(b) In towns with over 100,000 inhabitants.

(xiv) *Homicide (80).* Deaths from homicide in 1938 numbered 81, or 26 less than the previous year. The average for the five years 1933 to 1937 was 103. See paragraph (xvi).

(xv) *Accidental or Violent Deaths (except Suicide and Homicide).* Deaths from accidents in 1938 numbered 3,656 compared with an average of 3,316 for the previous five years. Of the deaths in 1938, 1,442 occurred in New South Wales; 916 in Victoria; 595 in Queensland; 287 in South Australia; 300 in Western Australia; 106 in Tasmania; 6 in Northern Territory; and 4 in the Australian Capital Territory. Other deaths of a violent nature numbered 216. See paragraph (xvi).

(xvi) *Accidental or Violent Deaths (including Homicide and Suicide).* The following table shows the various kinds of violent deaths, including homicides and suicides, recorded in Australia for the year 1938.

## DEATHS FROM EXTERNAL VIOLENCE : AUSTRALIA, 1938.

Cause of Death.	Males.	Females.	Persons.
Suicide (see paragraph (xiii)) .. .. .	574	172	746
Infanticide (murder of children under 1 year) ..	4	3	7
Homicide by firearms .. .. .	17	7	24
Homicide by cutting or piercing instruments ..	11	6	17
Homicide by other means .. .. .	20	13	33
<b>Homicide Total</b> .. .. .	<b>52</b>	<b>29</b>	<b>81</b>
Poisoning by venomous animals—			
(a) Snakebite .. .. .	7	7	14
(b) Other .. .. .	2	1	3
Poisoning by food .. .. .	10	8	18
Accidental absorption of irrespirable or poisonous gas .. .. .	17	7	24
Other acute accidental poisonings (gas excepted) ..	19	18	37
Conflagration .. .. .	15	4	19
Accidental burns (conflagration excepted) ..	102	89	191
Accidental mechanical suffocation .. .. .	26	9	35
Accidental drowning .. .. .	282	40	322
Accidental injury by firearms .. .. .	60	11	71
Accidental injury by cutting or piercing instruments	10	4	14
Accidental injury by falling, crushing, etc.—			
In mines and quarries .. .. .	93	..	93
By machinery .. .. .	60	..	60
Connected with methods of transport—			
Railways .. .. .	125	23	148
Tramways .. .. .	42	15	57
Automobiles .. .. .	1,107	284	1,391
Other land vehicles .. .. .	163	18	181
Transport by water .. .. .	23	18	41
Transport by air .. .. .	39	8	47
Fall not otherwise specified .. .. .	258	249	507
Other crushings .. .. .	79	3	82
Cataclysm .. .. .	1	..	1
Injuries by animals (not poisoning) .. .. .	28	1	29
Starvation, thirst, fatigue .. .. .	7	..	7
Excessive cold .. .. .	3	4	7
Excessive heat .. .. .	20	16	36
Lightning .. .. .	12	1	13
Other accidental electric shocks .. .. .	36	5	41
Other and unstated forms of accidental violence—			
Inattention at birth .. .. .	8	4	12
Other .. .. .	115	40	155
Violent deaths of unstated nature (open verdict)—			
Drowning .. .. .	76	29	105
Firearms .. .. .	23	..	23
Cutting or piercing instrument .. .. .	1	..	1
Fall .. .. .	9	3	12
Crushing .. .. .	9	2	11
Other .. .. .	41	23	64
War wounds .. .. .	12	..	12
Capital punishment .. .. .	2	..	2
<b>External Violence, excluding Suicide and Homicide</b>	<b>2,942</b>	<b>944</b>	<b>3,886</b>
<b>Total Deaths from External Violence</b> ..	<b>3,568</b>	<b>1,145</b>	<b>4,713</b>

The following table of death rates per million of mean population reveals for External Violence (excluding Suicide and Homicide), which consists mainly of accidents, a decrease to 1921-25, 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 the period 1931-1935, but the rate has been rising steadily since 1933.

## DEATH RATES,(a) 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 of 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	843	240	549	1,070	300	690	746
1931-35 ..	21	11	16	714	223	472	923	284	609	676
1933 ..	18	11	15	678	214	440	883	273	582	654
1934 ..	21	11	15	738	234	490	949	301	630	676
1935 ..	21	11	16	764	243	507	964	308	641	677
1936 ..	19	10	14	802	255	533	999	318	663	703
1937 ..	22	9	16	877	268	575	1,065	321	697	739
1938 ..	15	9	12	843	277	564	1,023	336	684	709

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

(xvii) "Other Diseases." The intermediate and the abridged classifications of causes of death used in Tables A to E in the preceding pages differ from that used in issues of the Official Year Book previous 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. These "other diseases" items of the intermediate classification are expanded into their constituent causes in the following table:—

## F.—DEATHS FROM "OTHER DISEASES" : AUSTRALIA, 1938.

Causes.	G.C.N. (*)	M.	F.	Total.
17 OTHER INFECTIOUS OR PARASITIC DISEASES.				
Erysipelas .. .. .	15	18	12	30
Acute Poliomyelitis .. .. .	16	98	61	159
Encephalitis Lethargica .. .. .	17	7	10	17
Cerebrospinal Fever .. .. .	18	11	3	14
Tetanus .. .. .	22	34	16	50
Leprosy .. .. .	33	7	3	10
Venereal Diseases, other than Syphilis .. .. .	35	..	..	..
Mycoses .. .. .	43	3	3	6
Mumps .. .. .	44 <sup>a</sup>	..	3	3
Other .. .. .	44 <sup>b</sup>	26	22	48
Total .. .. .	..	204	133	337

(\*) G.C.N. = General Classification Number.

F.—DEATHS FROM "OTHER DISEASES": AUSTRALIA, 1938—*continued.*

Causes.	G.C.N.	M.	F.	Total.
<b>25. OTHER GENERAL DISEASES.</b>				
Diseases of the Pituitary Gland .. .. .	65	7	8	15
Diseases of the Thymus Gland .. .. .	67	12	4	16
Diseases of the Adrenals (Addison's Disease) .. .. .	68	12	24	36
Other General Diseases .. .. .	69	21	17	38
<b>Total</b> .. .. .	..	52	53	105
<b>27. LEUCÆMIAS, ETC., AND OTHER DISEASES OF THE BLOOD AND BLOOD-MAKING ORGANS.</b>				
Hæmorrhagic Conditions .. .. .	70	15	25	40
Leucæmia, Lymphadenoma—				
Leucæmia .. .. .	72a	112	77	189
Aleucæmia (Lymphadenoma) .. .. .	72b	58	35	93
Diseases of the Spleen .. .. .	73	11	10	21
Other Diseases of the Blood and Blood-forming Organs .. .. .	74	3	5	8
<b>Total</b> .. .. .	..	199	152	351
<b>29. OTHER CHRONIC POISONINGS.</b>				
Chronic Poisoning by Organic Substances .. .. .	76	1	..	1
Chronic Poisoning by Mineral Substances—				
Chronic Lead Poisoning .. .. .	77a	8	4	12
Other .. .. .	77b	..	1	1
<b>Total</b> .. .. .	..	9	5	14
<b>36. OTHER DISEASES OF NERVOUS SYSTEM.</b>				
Encephalitis (not epidemic)—				
Cerebral Abscess .. .. .	78a	23	7	30
Others .. .. .	78b	24	29	53
Other Diseases of the Spinal Cord .. .. .	81	118	83	201
Convulsions of Infants under Five years of Age .. .. .	86	21	21	42
Other Diseases of the Nervous System—				
Chorea .. .. .	87a	2	2	4
Neuralgia and Neuritis .. .. .	87b	4	8	12
Paralysis Agitans .. .. .	87c	80	85	165
Disseminated Sclerosis .. .. .	87d	49	47	96
Idiocy, Imbecility .. .. .	87e	10	5	15
Other Diseases .. .. .	87f	2	1	3
<b>Total</b> .. .. .	..	333	288	621
<b>46. OTHER DISEASES OF THE CIRCULATORY SYSTEM.</b>				
Other Diseases of the Arteries .. .. .	99	36	26	62
Diseases of the Veins (Varices, Hæmorrhoids, Phlebitis, etc.) .. .. .	100	23	21	44
Diseases of the Lymphatic System, Lymphangitis, etc. .. .. .	101	6	4	10
Abnormalities of Blood Pressure .. .. .	102	76	67	143
Other Diseases of the Circulatory System .. .. .	103	7	2	9
<b>Total</b> .. .. .	..	148	120	268

\* G.C.N. = General Classification Number.

F.—DEATHS FROM "OTHER DISEASES": AUSTRALIA, 1938—*continued.*

Causes.	G.C.N.	M.	F.	Total.
<b>50. OTHER DISEASES OF THE RESPIRATORY SYSTEM.</b>				
Diseases of the Nasal Fossae and Annexa .. .. .	104	11	8	19
Diseases of the Larynx .. .. .	105	25	11	36
Congestion, Hæmorrhagic Infarction of Lung .. .. .	111	167	194	361
Asthma .. .. .	112	68	48	116
Pulmonary Emphysema .. .. .	113	17	1	18
Other Diseases of the Respiratory System, Tuberculosis excepted—				
Chronic Interstitial Pneumonia .. .. .	114a	169	13	182
Gangrene of the Lung .. .. .	114b	9	2	11
Other Diseases .. .. .	114c	22	21	43
<b>Total</b> .. .. .	..	488	298	786
<b>58. OTHER DISEASES OF THE DIGESTIVE SYSTEM.</b>				
Diseases of the Buccal Cavity, Pharynx, etc.—				
Buccal Cavity and Annexa .. .. .	115a	16	15	31
Pharynx and Tonsils .. .. .	115b	62	60	122
Diseases of the Oesophagus .. .. .	116	4	8	12
Other Diseases of the Stomach (Cancer excepted) .. .. .	118	37	35	72
Other Diseases of the Intestines .. .. .	123	36	42	78
Diseases of the Pancreas .. .. .	128	23	23	46
Peritonitis (without specified cause) .. .. .	129	44	41	85
<b>Total</b> .. .. .	..	222	224	446
<b>70. PUERPERAL CAUSES.</b>				
Phlegmasia Alba Dolens, Embolism, etc.—				
Phlegmasia Alba Dolens and Thrombosis .. .. .	148a	..	3	3
Embolism and Sudden Death .. .. .	148b	..	33	33
Other Accidents of Childbirth—				
Cæsarean Section .. .. .	149a	..	19	19
Other Surgical Operations and Instrumental Delivery .. .. .	149b	..	3	3
Others .. .. .	149c	..	34	34
Other or Not Specified Conditions of the Puerperal State—				
Puerperal Diseases of the Breast .. .. .	150a	..	2	2
Others .. .. .	150b	..	2	2
<b>Total</b> .. .. .	..	..	96	96

\* G.C.N. = General Classification Number.

14. Causes of Deaths in Classes.—The figures in the preceding sub-sections relate to specific causes of death, and are of greater value in medical statistics than a mere grouping under general headings. The classification under eighteen general headings adopted by the compilers of the International Nomenclature is, however, shown in the

following table, together with the death rates and proportions of total deaths pertaining to those classes. A further table furnishes the death rates for the quinquennia 1911-15, 1921-25 and 1931-35 :—

**DEATHS, DEATH RATES,(a) ETC., IN CLASSES : AUSTRALIA, 1938.**

Class.	Total Deaths.			Death Rates.(a)			Proportion of 10,000 Deaths.		
	M.	F.	Total.	M.	F.	Total.	M.	F.	Total.
1. Parasitic and Infectious Diseases	2,692	1,843	4,535	77	54	66	727	627	682
2. Cancer and Other Tumours	4,267	4,072	8,339	122	119	121	1,152	1,385	1,255
3. Rheumatism, Diseases of Nutrition, of Endocrine Glands, and Other General Diseases	695	1,310	2,005	20	38	29	187	446	302
4. Diseases of the Blood and Blood-forming Organs	300	290	590	9	9	9	81	99	89
5. Chronic Poisonings and Intoxications	58	11	69	2	1	1	16	4	10
6. Diseases of the Nervous System and of the Organs of Sense	2,114	2,312	4,426	61	68	64	571	786	666
7. Diseases of the Circulatory System	11,217	8,581	19,798	322	252	287	3,028	2,918	2,979
8. Diseases of the Respiratory System	3,571	2,483	6,054	103	73	88	964	844	911
9. Diseases of the Digestive System	1,966	1,546	3,512	56	45	51	531	526	528
10. Diseases of the Genito-Urinary System and Annexa	2,999	2,148	5,147	86	63	75	809	730	775
11. Pregnancy, Labour and Puerperal State	..	562	562	..	16	8	..	191	85
12. Diseases of the Skin and of the Cellular Tissue	86	80	166	2	2	2	23	27	25
13. Diseases of the Bones and Organs of Locomotion	110	55	165	3	2	2	30	19	25
14. Congenital Malformations	387	283	670	11	8	10	104	96	101
15. Early Infancy	1,520	1,084	2,604	44	32	38	410	309	392
16. Old Age	1,347	1,544	2,891	38	45	42	364	525	435
17. External Causes	3,568	1,145	4,713	102	34	68	963	389	709
18. Causes of Death not Determined	149	56	205	4	2	3	40	19	31
<b>Total</b>	<b>37,046</b>	<b>29,405</b>	<b>66,451</b>	<b>1,062</b>	<b>863</b>	<b>964</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>

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

**QUINQUENNIAL DEATH RATES IN CLASSES : AUSTRALIA.**

Class.	Number of Deaths per 100,000 of Mean Population.								
	1911 to 1915.			1921 to 1925.			1931 to 1935.		
	M.	F.	Total.	M.	F.	Total.	M.	F.	Total.
1. Parasitic and Infectious Diseases	..	..	..	..	..	..	92	70	81
2. Cancer and Other Tumours	..	..	..	..	..	..	113	108	110
3. Rheumatism, Diseases of Nutrition, of Endocrine Glands, and Other General Diseases	..	..	..	..	..	..	..	..	..
4. Diseases of the Blood and Blood-forming Organs	261	236	249	248	222	236	18	33	25
5. Chronic Poisonings and Intoxications	..	..	..	..	..	..	9	9	9
6. Diseases of the Nervous System and of the Organs of Sense	..	..	..	..	..	..	2	..	1
7. Diseases of the Circulatory System	112	93	103	93	83	88	66	67	67
8. Diseases of the Respiratory System	147	116	132	150	118	134	249	200	225
9. Diseases of the Digestive System	132	93	113	121	88	105	101	75	88
10. Non-venereal Diseases of the Genito-Urinary System	135	123	130	97	81	89	60	46	53
11. Puerperal Condition	72	46	59	72	40	61	81	59	70
12. Diseases of Skin and Cellular Tissue	..	27	13	..	25	12	..	19	9
13. Diseases of Organs of Locomotion	6	5	6	6	4	5	3	3	3
14. Congenital Malformations	2	1	1	3	2	2	3	1	2
15. Early Infancy	12	9	10	12	10	11	11	8	10
16. Old Age	87	71	79	73	56	65	44	34	39
17. External Causes	94	80	88	76	68	72	42	42	42
18. Causes of Death not Determined	117	33	77	95	26	61	92	28	61
<b>Total</b>	<b>1,193</b>	<b>942</b>	<b>1,073</b>	<b>1,061</b>	<b>841</b>	<b>953</b>	<b>993</b>	<b>804</b>	<b>900</b>

15. **Ages at Death of Married Males and Females, and Issue.**—*Demography Bulletin*, No. 56, contains a number of tables showing, in combination with the issue, the ages at marriage, ages at death, birthplaces and occupations of married persons who died in Australia in 1938. A summary of those tables is given hereunder. Deaths of married males in 1938 numbered 24,212, and of married females, 21,768. The tabulations which follow deal, however, with only 23,827 males and 21,584 females, the information regarding issue in the remaining 569 cases being incomplete. The total number of children in the families of the 23,827 males was 96,517, and of the 21,584 females, 94,716. The average number of children is shown for various age-groups in the following table:—

**AGES AT DEATH OF MARRIED MALES AND FEMALES, AND AVERAGE ISSUE: AUSTRALIA.**

Age at Death.	Average Issue.							
	Males.				Females.			
	1911.	1921.	1931.	1938.	1911.	1921.	1931.	1938.
Under 20 years ..	0.33	..	0.75	0.75	0.94	0.77	0.66	0.46
20 to 24 " ..	0.77	0.84	0.81	0.93	1.27	1.22	1.13	1.02
25 " 29 " ..	1.25	1.29	1.33	1.07	1.82	1.86	1.81	1.53
30 " 34 " ..	2.05	2.06	1.79	1.62	2.74	2.45	2.34	2.07
35 " 39 " ..	2.80	2.58	2.13	2.14	3.64	3.29	2.89	2.56
40 " 44 " ..	3.47	3.23	2.77	2.45	4.09	3.66	3.29	3.00
45 " 49 " ..	4.09	3.48	3.10	2.81	4.54	3.76	3.55	3.28
50 " 54 " ..	4.75	3.76	3.46	3.18	5.35	4.23	3.60	3.56
55 " 59 " ..	5.44	4.41	3.69	3.39	5.86	4.69	4.01	3.62
60 " 64 " ..	5.95	4.98	4.02	3.64	5.99	5.39	4.21	3.94
65 " 69 " ..	6.23	5.50	4.41	3.99	6.50	5.86	4.82	4.24
70 " 74 " ..	6.41	6.06	5.06	4.35	6.38	6.30	5.41	4.56
75 " 79 " ..	6.75	6.66	5.65	4.85	6.72	6.56	6.02	5.19
80 " 84 " ..	6.68	6.89	6.17	5.35	6.22	6.76	6.26	5.81
85 " 89 " ..	6.67	7.18	6.59	5.95	5.97	6.93	6.57	5.97
90 " 94 " ..	6.03	7.21	6.94	6.72	5.69	6.53	6.73	6.20
95 " 99 " ..	7.30	6.97	6.69	6.94	5.05	6.05	7.10	6.07
100 years and upwards ..	9.33	9.20	7.00	5.57	5.17	5.11	8.20	7.23
Age not stated ..	4.33	5.36	5.00	..	4.60	5.80	5.00	..
All Ages ..	5.42	4.97	4.44	4.05	5.35	5.05	4.72	4.39

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 1,000 to 240. The totals are shown in the following table:—

**ISSUE OF DECEASED MARRIED MALES AND FEMALES: AUSTRALIA, 1938.**

Issue of Married Males.	Males.	Females.	Total.	Issue of Married Females.	Males.	Females.	Total.
Living ..	40,194	39,681	79,875	Living ..	37,084	37,239	74,323
Dead ..	9,501	7,141	16,642	Dead ..	11,670	8,723	20,393
Total ..	49,695	46,822	96,517	Total ..	48,754	45,962	94,716

16. **Ages 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 ages at death, the following table, which gives the average

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

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

Age at Marri. ge.	Average Issue.							
	Males.				Females.			
	1911.	1921.	1931.	1938.	1911.	1921.	1931.	1938.
Under 15 years ..	..	..	..	1.50	9.71	7.60	6.36	6.80
15 to 19 " ..	6.97	6.32	6.15	5.54	7.10	6.97	6.79	6.38
20 " 24 " ..	6.34	6.05	5.56	5.06	5.77	5.50	5.23	4.97
25 " 29 " ..	5.70	5.17	4.70	4.33	4.27	4.09	3.79	3.63
30 " 34 " ..	4.92	4.45	3.96	3.56	3.04	2.66	2.42	2.35
35 " 39 " ..	4.05	3.90	3.14	2.79	1.68	1.61	1.40	1.33
40 " 44 " ..	3.43	2.67	2.36	2.08	0.72	0.62	3.88	0.40
45 " 49 " ..	2.59	2.20	1.96	1.45	0.26	0.03	0.12	0.29
50 " 54 " ..	2.45	1.70	1.60	0.91	..	..	..	..
55 " 59 " ..	1.66	1.30	0.95	0.84	..	..	..	..
60 " 64 " ..	2.00	0.33	0.63	0.60	..	..	..	..
65 years and up-wards ..	1.00	0.25	0.18	0.05	..	..	..	..
Age unspecified ..	5.40	4.93	3.64	3.29	5.23	5.41	3.96	3.29
All Ages ..	5.42	4.97	4.44	4.05	5.35	5.05	4.72	4.39

17. Birthplaces of Deceased Married Males and Females, and Issue.—The following table shows the birthplaces of married males and females who died in 1911 and 1938, together with the average issue. It will be noted that the differences in the average issue of deceased natives of Australia and of the British Isles, which were so marked in 1911, are tending to disappear probably as the result of the approaching similarity of the age constitutions of the two groups.

**BIRTHPLACES OF DECEASED MARRIED MALES AND FEMALES, AND AVERAGE ISSUE : AUSTRALIA.**

Birthplace.	Married Males.				Married Females.			
	1911.		1938.		1911.		1938.	
	Deaths.	Average Issue.	Deaths.	Average Issue.	Deaths.	Average Issue.	Deaths.	Average Issue.
<b>Australasia—</b>								
Australia .. ..	4,074	4.71	16,339	4.04	4,566	4.57	15,508	4.35
New Zealand .. ..	64	3.89	254	2.96	56	3.84	208	3.50
<b>Europe—</b>								
England and Wales ..	4,079	5.87	4,068	4.01	3,152	5.86	3,338	4.33
Scotland .. ..	1,133	5.89	974	4.09	1,002	6.09	815	4.44
Ireland .. ..	1,766	6.12	939	4.71	2,118	5.83	1,038	4.90
Other British Possessions .. ..	23	6.52	32	3.78	24	5.75	23	5.00
Western .. ..	199	4.33	243	4.06	55	5.07	60	4.98
Central .. ..	484	5.81	331	5.24	270	6.56	256	5.80
Southern .. ..	58	5.09	177	3.16	12	4.92	56	3.93
Eastern .. ..	35	4.37	57	3.84	6	4.50	26	4.54
<b>Asia—</b>								
British Possessions .. ..	32	3.87	71	3.82	17	6.41	36	4.42
Foreign Countries .. ..	74	2.46	110	3.36	5	2.60	18	4.94
<b>Africa—</b>								
British Possessions .. ..	16	3.56	24	2.25	15	4.80	21	3.33
Foreign Countries .. ..	..	..	1	9.00	..	..	..	..
<b>America—</b>								
British Possessions .. ..	42	5.55	47	3.83	17	6.47	25	4.12
United States .. ..	40	3.78	39	3.33	17	4.94	33	3.61
Other Foreign Countries ..	17	4.53	7	2.29	10	4.50	7	3.14
Polynesia .. ..	5	4.00	22	3.73	9	3.33	10	5.20
At Sea and Indefinite .. ..	72	4.28	92	3.87	72	4.85	106	4.58
<b>Total .. ..</b>	<b>12,213</b>	<b>5.42</b>	<b>23,827</b>	<b>4.05</b>	<b>11,423</b>	<b>5.35</b>	<b>21,584</b>	<b>4.39</b>

18. Occupations of Deceased Married Males, and Issue.—The following tabulation shows the average issue in combination with the occupation of deceased males :—

**OCCUPATIONS OF DECEASED MARRIED MALES AND AVERAGE ISSUE :  
AUSTRALIA.**

Occupation Group.	Deaths of Married Males.			Average Issue.		
	1921.	1931.	1938.	1921.	1931.	1938.
Professional .. ..	926	1,194	1,729	4.04	3.78	3.25
Domestic .. ..	552	621	641	3.55	3.64	3.12
Commercial .. ..	1,977	2,962	2,744	4.18	3.55	3.34
Transport and Communica- tion .. ..	1,254	1,742	2,280	4.63	4.15	3.94
Industrial .. ..	5,086	6,883	4,938	4.95	4.49	3.96
Agricultural, Pastoral, Min- ing, etc. .. ..	3,983	4,495	5,452	5.83	5.31	4.86
Indefinite .. ..	759	936	(a)6,043	5.49	4.68	(a) 4.09
Dependent .. ..	15	39	..	4.00	3.85	..
<b>Total .. ..</b>	<b>14,552</b>	<b>18,872</b>	<b>23,827</b>	<b>4.97</b>	<b>4.44</b>	<b>4.05</b>

(a) Includes 4,468 clerks, labourers, etc. (average issue 4.03), not specified as belonging to any industry, who were formerly included under "Commercial" or "Industrial".

**§ 5. Australian Life Tables.**

The Official Year Book, No. 20, pp. 962 and 969 to 973, contained a synopsis of the various Australian Life Tables, and comparisons with other countries of the expectation of life at various ages were also given. Considerations of space, however, do not permit of their repetition herein. In connexion with the Census of 1933 Life Tables have been constructed in respect of each sex for Australia as a whole, and these together with monetary tables on single and joint lives based thereon have been published as separate Census publications. A specially contributed article by F. W. Barford, M.A., A.I.A., on the results of the tables for single lives appeared in Official Year Book, No. 29, p. 928.

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

Up 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 District Registrars at Queanbeyan and Nowra, and were incorporated in the New South Wales records.

Towards the end of 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. The Commonwealth Statistician is the Principal Registrar, and all registrations are made at Canberra.

Marriages within the Territory are celebrated according to the conditions prescribed by 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.