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CHAPTER XXV.

VITAL STATISTICS.

§ 1. Births.

1. Births, 1919 to 1923.—The number of male and female births and the total births registered in Australia during the years 1919 to 1923 are shown in the tables hereunder. The numerical relation which these births bear to the population, and various other associated features, are given in later tables.

MALE BIRTHS, 1919 TO 1923.

	Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust	Tas.	North. Ter.	Fed. Cap. Ter.	Aus- tralia.
1919 1920 1921 1922		24,924 27,691 28,005 28,218	16,225 18,647 18,288 18,738	9,746 10,537 10,638 10,263	5,776 6,178 6,122 6,150	3,477 4,256 3,988 4,163	2,718 2,908 2,944 2,995	55 31 39 38	10 8 15 17	62,931 70,256 70,039 70,582
1923	Single births Twins Triplets Total births		18,150 408 7 18,565	9,955 208 10,163	5,863 113 5,976	3,930 84 4,014	2,831 54 3 2,888	40 40	6 6	67,957 1,398 10 69,365

FEMALE BIRTHS, 1919 TO 1923.

	Year,	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust	Tas.	North. Ter.	Fed. Cap. Ter.	A us- tralia.
1919 1920 1921 1922		23,608 26,251 26,631 26,952	15,394 17,566 17,303 17,550	8,953 9,719 9,691 9,724	5,284 5,850 5,852 5,851	3,460 3,893 3,819 3,968	2,592 2,832 2,811 2,822	51 32 40 32	17 7 12 15	59,359 66,150 66,159 66,914
1923≺	Single births Twins Triplets Total births	25,838 515 3 26,356	16,890 417 5 17,312	9,629 190 9,819	5,591 125 5,716	3,762 78 3,840	2,720 49 2,769	32	13 13	64,475 1,374 8 65,857

TOTAL BIRTHS, 1919 TO 1923.

	Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust	Tas.	North. Ter.	Fed. Cap. Ter.	Aus- tralia.
1919 1920 1921		53,942	31,619 36,213 35,591	18,699 20,256 20,329	11,060 12,028 11,974	6,937 8,149 7,807	5,310 5,740 5,755	106 63 79	27 15 27	122,290 136,406 136,198
1922		55 170	36,288	19,987	12,001	8,131	5,817	70	32	137,496
1923	Single birth Twins Triplets Total birth	(c)1,046 3	35,040 (a)825 12 35,877	19,584 398 19,982	11,454 238 11,692	(d)162	5,551 (b)103 3 5,657	72 72	19 19	132,432 2,772 18 135,222

⁽a) One stillborn not included.(c) Four stillborn not included.

⁽b) Three stillborn not included.(d) Eight stillborn not included.

Births. 963

2. Birth Rates.—The next table gives the crude birth rates in each of the States and Territories and in Australia as a whole for the years 1919 to 1923.

·	CRODE BIRTH RATE(a), 1919 TO 1923.													
	Year.		N.S.W.	Vic.	Q'land.	S. Aust.	W.A.	Tas.	North. Ter.	Federal Capital Territory.	Aus- tralia.			
			ļ ——	<u> </u>										
1919			24.28	21.46	25.80	23.61	21.71	25.90	22.77	11.68	23.53			
1920			26.10	23.95	27.10	24.71	24.73	27.28	14.95	6.90	25.45			
1921			25.93	23.16	26.64	24.08	23.39	26.98	20.22	10.87	24.95			
1922	••		25.67	23.10	25.58	23.71	23.92	27.08	19.16	11.37	24.69			
1923	••		24.68	22.31	24.89	22.60	22.55	26.27	19.94	5.73	23.77			

CRUDE BIRTH RATE(a), 1919 TO 1923.

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

Notwithstanding some undulating movements at different times, the crude birth rate of Australia has shown a constant decline for many years, and if the figures for 1919 are discarded as the result of abnormal conditions arising from the war, the rate of 23.77 per 1,000 persons is the lowest yet recorded. If the war years are disregarded the fall of nearly one per thousand, from 24.69 per 1,000 in 1922 to 23.77 per thousand in 1923 is the most marked in any year since 1903, when the rate per 1,000 of the population fell to 25.29 from 26.71 in 1902. These remarks apply in a general way to all the States; the numbers in the Territories are too small to furnish satisfactory data for comparison.

The most effective 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.

To compare the relative increases to the populations of different countries accruing from births, it is of course necessary to take account of the ex-nuptial births, which vary very largely in relation to nuptial births between different countries and between different localities in the same country.

The following table gives for each of the States and for Australia some of the more important factors which affect the birth rates, and also the birth rates computed on various bases as follows:—Births per 1,000 of the population (crude); births per 1,000 women of child-bearing age; nuptial births per 1,000 married women of child-bearing age; births per 1,000 married women of child-bearing age corrected for inequalities in the age composition by taking the female population of Australia as a whole for a standard; and ex-nuptial births per 1,000 unmarried women aged 15-44 inclusive. The results are obtained from the births during the years 1920, 1921, and 1922 in relation to the age and conjugal condition of the population at the time of the Census of the 4th April, 1921.

The rates obtained from these computations place Tasmania first, and Queensland second, notwithstanding that the proportions of married women of child-bearing age in their populations were lower than the average for Australia. Some compensation to this disadvantage in its effect on the crude birth rate was provided by the relatively low average age of the married women in these States, and by the large proportion of ex-nuptial births. The relatively low proportion of married women of child-bearing age in Queensland was due to the large number of adult males engaged in localities unsuited to women, a circumstance which accounts for the high masculinity of the population.

In Tasmania the small proportion of married women in the total population arises from conditions directly opposite to those in Queensland. In Tasmania the numbers of the sexes were almost equal. Large numbers of the young adults emigrate to the mainland, leaving a population with abnormally large proportions of very young and very old. Although the proportion of married women of child-bearing age was lower in Tasmania than in Queensland, and the average age was the same in both States, Tasmania had the greater weight in the more productive age-groups—from 15 to 24 years.

Western Australia, though fifth in order of the crude birth rates, takes third place when the rates are computed in relation to women only. This change in position is due to the high masculinity. Notwithstanding that the average age of married women of reproductive ages was higher than in any other State, the uncorrected birthrate for nuptial births per 1,000 married women was higher than in New South Wales, Victoria, or South Australia. The adjustment for age improves the status of Western Australia very considerably, though not sufficiently to alter the sequence of its position.

The crude birth rate placed New South Wales third, but on the adjusted rate per 1,000 married women that State takes fifth place. The high position of New South Wales as determined by the crude birth rates was attained by the large proportion in the population of married women of child-bearing age rather than by their productiveness.

Victoria was the only State with an excess of females in its population, and the proportion to the total population of women aged 15-44 was the largest among the States, but as the proportion of these who were married was the lowest, the primary factor in the crude birth rate, viz., the proportion to the total population of married women of reproductive ages was the smallest.

The difference between the adjusted birth rates per 100 married women of child-bearing ages for New South Wales and Victoria was very small, and the proportions of ex-nuptial to all births in these States were almost identical.

Notwithstanding that 12.53 per cent. of the total population consisted of married women of child-bearing age—against an average of 12.20 for Australia—South Australia took fourth place in the order of crude birth rates. The advantage from this high proportion of potentially productive women was to some extent counteracted by their average age being somewhat above the average for Australia. The position was also affected by the very small proportion of ex-nuptial births. The number of nuptial births per 100 women of child-bearing age in South Australia, represented 18.71 as against 19.65 for Australia, although the difference is somewhat reduced by the adjusting process which makes the rate for South Australia 18.99 as against the Australian rate of 19.65.

BIRTHS RATES AN	FACTORS	AFFECTING	THEM.—AVERAGE OF	YEARS
	192	0, 1921, 1922		

Subject.	N.S.W.	Vic.	Q'land.	S.A.	W.A.	Tas.	Aus- tralia.
71.11.2							
Birth rate per 1,000 persons	25.99	23.54	26.72	24.23	24.14	26.99	25.15
Birth rate per 100 women 15-44 incl.	11.04	9.79	11.83	10.25	11.05	11.91	10.74
Birth rate per 100 married women 15-44 incl. (a)	19.39	19.29	21.26	18.71	19.62	21.83	19.65
Birth rate per 100 married women 15-44 incl.							
(corrected for age variation)	19.14	19.44	20.77	18.99	20.44	21.24	19.65
Ex-nuptial births—per cent. on all births	4.82	4.84	5.00	3.28	4.02	5.11	4.69
Ex-nuptial births per 100 unmarried women				_	l '	!	1
15-44 incl	1.16	0.92	1.26	0.72	0.92	1.26	1.05
Women 15-44 inclper cent. all persons	23.54	24.02	22.57	23.65	21.83	22.67	23.41
Average age of all women 15-44 incl	28.67	28.61	28.09	28.73	28.45	28.10	28.54
Married women 15-44 incl.—per cent. to all	20.07	20.01			-5.40	1 -0.10	
To 200 0	12.75	11.61	11.93	12.53	11.81	11.73	12.20
persons						32.16	32.48
Average age of married women 15-44 incl	32.34	32.74	32.16	32.67	33.02	34.10	32.40

(a) Nuptial births only.

The following figures gives a comparison for Australia, at Census periods from 1880 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 inclusive:—

Particulars.	1880-82.	1890-92.	1900-2.	1910-12.	1920-22.
Births per 1,000 women aged 15-44	169.7	158.8	117.3	117.2	107.4
Nuptial births per 1,000 married women 15-44	321.0	332.0	235.8	236.0	196.5

Births. 965

3. Birth Rates of Various Countries.—(i) Crude Rates. A comparison with other countries shows that the Australian States occupy a rather low position, which is however, counterbalanced by a still lower position in regard to their death rates, as euidenced in the table hereinafter in the section dealing with "Deaths."

CRUDE BIRTH RATES (a).—VARIOUS COUNTRIES.

Country.	Year.	Rate.	Country.	Year.	Rate.
Russia, European	1909	44.0	Finland	1922	24.3
Rumania	1920	40.2	Norway	1922	24.2
Ceylon	1922	39.4	Australia	1923	23.8
Chile	1921	39.2	Czecho-Slovakia	1922	23.4
Canada (Quebec)	1921	37.6	Northern Ireland	1922	23.0
Jamaica	1922	37.3	Austria	1922	22.8
Japan	1922	34.2	Scotland	1923	22.8
Bulgaria	1919	32.8	South Australia	1923	22.6
Spain	1922	30.5	Western Australia	1923	22.6
Italy	1921	30.4	United States (b)	1922	22.5
Hungary	1922	29.4	Denmark	1922	22.3
Union of South Africa			Victoria	1923	22.3
(whites)	1923	26.6	New Zealand	1923	21.9
Tasmania	1923	26.3	Belgium	1922	20.4
Germany	1921	26.1	Great Britain	1923	19.9
Netherlands	1922	25.9	England and Wales.	1923	19.7
Prussia	1921	24.9	Switzerland	1922	19.6
Queensland	1923	24.9	France	1922	19.4
Canada (excluding Que-			Irish Free State	1923	19.4
bec)	1922	24.8	Sweden	1923	18.8
New South Wales	1923	$\frac{24.7}{24.7}$	1 2		-3.0

⁽a) Number of births per 1,000 of the mean population. (b) Figures for "provisional birth-registration area," which includes about 65 per cent. of the population.

(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 be calculated per 1,000 women of child-bearing ages, the comparison gives more reliable results. The following table of the nuptial births per 1,000 married women of ages 15 to 45 in a number of countries has been taken from the Annuaire International de Statistique, and shows that nuptial births per 1,000 married women, aged 15 to 45 years, varied from 280 in Bulgaria to a minimum of 114 in France, Australia with a rate of 198 being midway between maximum and minimum.

NUPTIAL BIRTH RATES PER 1,000 MARRIED WOMEN AGED 15 TO 45 YEARS.— VARIOUS COUNTRIES.

Co	untry.	Period.	Rate.	Country.		Period.	Rate.
Bulgaria		 1910–11	280	Australia		1906-15	198
Ireland		 1909-12	250	Hungary		1906-15	198
Netherland	ls	 1905-14	233	Germany	:.	1907-14	196
Finland		 1906-15	230	Sweden		1908-13	196
Italy		 1907-14	226	Denmark		1906-15	191
Norway		 1907-14	224	New Zealand		1906-15	188
Austria	• •	 1908-13	219	Switzerland		1906-15	184
Spain	• •	 1906-15	218	England and Wa	les	1906-15	171
Prussia		 1907 -14	204	Belgium		1908-13	161
Scotland	••	 1906-15	202	France		1910-11	114

4. Masculinity of Births.—(i) General. The masculinity of births, i.e., the excess of males over females per 100 births registered, during the last five years varied from 0.25 in Western Australia in 1919 to 4.66 in Queensland in 1921. On account of the smallness of the numbers, the returns from the Northern Territory and the Federal Capital Territory have not been taken into consideration. The following table, which gives the values for the States and Australia for 1919 to 1923, shows that for Australia the masculinity of births has fallen each year since 1920.

MASCULINITY (a) OF BIRTHS REGISTERED, 1919 TO 1923.

Year	r.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Northern Territory.	Federal Capital Territory.	Australia.
										-
1919 1920 1921 1922 1923		2.71 2.67 2.51 2.29 2.51	2.63 2.99 2.77 3.27 3.49	4.24 4.04 4.66 2.70 1.72	4.45 2.73 2.25 2.49 2.22	0.25 4.45 2.16 2.40 2.22	2.37 1.32 2.31 2.97 2.10	3.77 -1.59 -1.27 8.77 11.11	$ \begin{array}{c c} -25.93 \\ 6.67 \\ 11.11 \\ 6.25 \\ -36.84 \end{array} $	2.92 3.01 2.85 2.67 2.59

(a) Excess of males over females per 100 total births.

NOTE.—The minus sign - denotes an excess of females over males per 100 total births.

(ii) Masculinity of Ex-nuptial Births. The masculinity of ex-nuptial births was as follows:—

MASCULINITY (a) OF EX-NUPTIAL BIRTHS, 1919 TO 1923.

Year:	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Northern Territory.	Federal Capital Territory.	Aus- tralia.
	-		1	ļ		<u> </u>			
1919 1920 1921 1922	4.93 3.87 3.94 3.11 2.54	0.22 8.20 2.72 1.75 2.07	8.91 11.52 -0.94 6.44 2.13	4.84 -2.22 6.10 9.55 0.00	-2.74 5.36 6.03 3.26 -5.96	7.98 -3.63 1.26 -2.64 -3.98	0.00 -6.67 15.38 -5.88 10.34	-100.00 -100.00	4.03 5.60 2.96 3.37 1.72

(a) Excess of males over females per 100 total births.

NOTE.—The minus sign - denotes an excess of females over males per 100 total births.

Although the general tendency of the change in the sex composition of the ex-nuptial births has been the same as in the total births, the results in the smaller States do not show the same consistency in the former as in the latter. This is due, no doubt, to the relatively small numbers involved.

(iii) Masculinity of Nuptial and Ex-nuptial Births, Various Countries.—There is ordinarily a very small difference between the masculinity of nuptial and ex-nuptial births. Thus, according to the following table, for the period about 1906 to 1913, the masculinity in various countries ranged from 4.63 to 1.91, and from 5.90 to 0.06 for nuptial and ex-nuptial births respectively.

MASCULINITY OF BIRTHS.-VARIOUS COUNTRIES.

			linity of hs.(a)				Masculinity of Births.(a)		
Country.	Period.	Nuptial Live Births.	Ex-nuptial Live Births.	Country.	Period.	Nuptial Live Births.	Ex-nuptial Live Births.		
Spain Portugal Finland Sweden Hungary Norway Prussia Russia, European Austria Germany Italy Serbia	1906-13 1906-10 1906-13 1906-13 1906-13 1906-13 1906-13 1906-09 1906-13 1906-13 1906-13	4.63 3.93 3.03 2.95 2.86 2.79 2.79 2.77 2.76 2.71 2.64 2.62	5.90 0.06 2.09 3.27 2.02 2.98 2.12 2.00 2.73 2.29 2.29 2.86	Ireland New Zealand Australia Netherlands Denmark Switzerland Japan France Chile Belgium Scotland England and Wales	1906-12 1906-13 1906-13 1906-13 1906-13 1906-13 1906-11 1906-13 1906-13 1906-13	2.59 2.52 2.49 2.43	1.63 2.57 2.27 1.53 2.22 1.21 0.87 1.59 2.81 1.31 2.14		

⁽a) Excess of males over females per 100 total births.

5. Ex-nuptial Births.—(i) General. The number of ex-nuptial births reached its maximum, 7,438, in 1913, but it has since fallen considerably. On the average of the five years 1909–13 the number of ex-nuptial births in Australia was 7,090, while for the period 1919–23 it was only 6,332, a decline of 10.7 per cent., whereas the annual average total births for the same periods fell by 7.5 per cent. only.

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.

EX-NUPTIAL BIRTHS, 1919 TO 1923.

Aus- tralia.	Federal Capital Territory.	Tas. Northern Territory.		Aust. W. Aust. Tas. Northern Capit		S. Aust.	Q'land.	Vic.	N.S.W.	ır.	Ye
6,477	1	26	326	292	433	1,078	1,826	2,495		919	
6,602	1 1	15	303	317	450	1,033	1,902	2,582		920	
6,463		26	318	315	377	1,062	1,725	2,640		921	
6,176	!	17	265	337	356	932	1,602	2.667		922	
6.276	1	29	251	285	360	1.079	1.595	2,676		923	

(ii) Rate of Ex-nuptiality, 1919 to 1923. The rate of ex-nuptiality, i.e., the percentage of ex-nuptial on total births fell steadily from 5.30 in 1919 to 4.49 in 1922, but rose slightly to 4.64 in 1923. On the basis of the figures given in the preceding sub-section the ex-nuptial rate fell from 4.91 per cent. of all births during the years 1909-13 to 4.74 per cent. for the years 1919-23.

PERCENTAGE OF EX-NUPTIAL ON TOTAL BIRTHS. 1919 TO 1923.

Yes	аг.	N.s.w.	Vic.	Q'land. S. Aust. W. Aust.			Tas.	Northern Territory.	Federal Capital Territory.	· Aus- tralia.
1919		% 5.14	% 5.77	% 5.76	% 3.92	% 4.21	% 6.14	% 24.53	% 3.70	% 5.30
1920		4.79	5.25	5.10	3.74	3.89	5.28	23.81		4.84
1921		4.83	4.85	5.22	3.15	4.03	5.53	32.91	l	4.75
1922		4.83	4.41	4.66	2.97	4.14	4.56	24.29		4.49
1923	••	4.95	4.45	5.40	3.08	3.63	4.44	40.28	5.26	4.64

A comparison of greater significance 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. The calculation has been made for Australia for the last five Census periods for which the information is available, and covers in each case the Census year, together with the year immediately preceding and the year immediately following. 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; years 1890-92, 15.93; years 1900-02, 13.30; years 1910-12, 12.53; years 1920-22, 10.50. Corresponding figures for those countries for which the nuptial birth rates were shown in a preceding paragraph are given in the next table.

EX-NUPTIAL BIRTHS PER 1,000 UNMARRIED WOMEN AGED 15 TO 45 YEARS.— VARIOUS COUNTRIES.

	Country.	Period.	Rate.	Country.	Period.	Rate.
					1007.31	
Hungary	<i>7</i>	: 1906–15	38	Norway	1907-14	13
Austria		1908–13	30	Scotland	1906-15	13
Sweden	- 4	1908–13	26	Australia	1906-15	12
Denmark	ζ.,	1906-15	24	Belgium	1908-13	12
Germany	7	1907–14	23	New Zealand	1906-15	9-
Prussia		1907-14	21	Switzerland	1906-15	8
Finland		1906-15	17	England and Wales	1906-15	7
France		1901–11	16	Netherlands	1905-14	5
Italy		1907–14	14	Ireland	1909-12	4
Spain		1906–15	14	Bulgaria	1910-11	4

(iii) Comparison of Rates. The following table has been prepared to show the relative movements of the ex-nuptial and the nuptial births in relation to the total population:—

CRUDE EX-NUPTIAL, NUPTIAL, AND TOTAL BIRTH RATES (a).—AUSTRALIA, 1919 TO 1923.

	Rates		1919.	1920.	1921.	1922.	1923.
Ex-nuptial Nuptial		•••	 1.26 22.52	1.24 24.50	1.18	1.11 23.58	1.10 22.67
Total			 23.78	25.74	24.95	24.69	23.77

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

6. Multiple Births.—Among the total number of 135,222 births registered in Australia in 1923 there were 132,432 single births, 2,772 twins, and 18 triplets. The number of cases of twins was 1,394, there being 16 stillbirths, and there were 6 cases of triplets. The total number of mothers was, therefore, 133,832, the proportion of mothers of twins being one in every 96, and of mothers of triplets one in every 22,305 of total mothers. The proportion of multiple births is fairly constant.

MULTIPLE BIRTHS.—AUSTRALIA, 1919 TO 1923.

	Year.		Cases of Twins.	Cases of Triplets.	Cases of Quadruplets.	Percentage of Cases of Multiple Births on total Mothers.	Number of Mothers to each Multiple Birth.
1919			1,327	15	1	1.10	90
1920			1,521	16		1.13	88
1921			1,453	12		1.09	92
1922			1,432	12		1.06	94
1923		}	1,394	6		1.04	96

BIRTHS. 969

7. Ages of Parents.—(i) Single Births. The relative ages of the parents of children registered in 1923 have been tabulated separately for male and female births, twins and triplets being distinguished from single births, and are shown for single ages and for every State in "Australian Demography," No. 41, published by this Bureau. In the present work the exigencies of space allow only the insertion of corresponding tables showing the relative ages of parents in groups of five years. The largest number of fathers in the case of single births is found at ages 30 to 34, and of mothers at ages 25 to 29. When, however, the ages of both parents are considered together, the largest number of single births occurred where both father and mother were between 25 and 29.

AGES OF PARENTS IN CASES OF SINGLE BIRTHS.—AUSTRALIA, 1923.

Ages of Fathers					Age	es of Mot	hers.			
and Sexes of Children.	Total Children.	Under 15.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 and upwards.	Un- speci- fled.
Under { Males Females Total	319 249 568		235 176 411	74 70 144	8 3 11	2				
$20 \ \text{to} \ 24 \left\{ \begin{matrix} \text{Males} \\ \text{Females} \\ \text{Total} \end{matrix} \right.$	6,796 6,541 13,337		1,370 1,236 2,606	4,414 4,258 8,672	906 923 1,829	89 109 198	14 12 26	2 1 3	1 1	1 1 2
25 to 29 Males Females Total	16,040 15,052 31,092	- ::	605 594 1,199	6,263 5,950 12,213	7,579 7,003 14,582	1,404 1,323 2,727	163 166 329	19 15 34	5	2 1 3
30 to 34 $\left\{ egin{array}{l} \text{Males} \\ \text{Females} \\ \text{Total} \end{array} \right.$	17,052 16,394 33,446	::	151 179 330	2,612 2,480 5,092	6,789 6,634 13,423	6,286 6,001 12,287	1,109 1,020 2,129	102 77 179	3 2 5	 1 1
35 to 89 { Males Females Total	12,592 11,868 24,460		59 54 113	772 722 1,494	2,710 2,538 5,248	4,774 4,559 9,333	3,848 3,558 7,406	420 423 843	9 13 22	 1
40 to 44 { Males Females Total	6,982 6,597 13,579	1	21 16 37	226 193 419	776 748 1,524	1,891 1,802 3,693	2,748 2,584 5,332	1,288 1,223 2,511	31 31 62	
45 to 49 { Males Females Total	3,188 3,008 6,196	:: ::	4 5 9	68 68 136	278 263 541	595 558 1,153	1,172 1,107 2,279	946 875 1,821	125 131 256	 1 1
50 to 54 { Males Females Total	1,238 1,181 2,419	 	3 1 4	25 24 49	87 74 161	207 190 397	423 357 780	403 454 857	89 80 169	1 1 2
55 to 59 Males Females Total	395 372 767		2 1 3	. 5 7 12	22 25 47	67 59 126	134 121 255	131 134 265	34 25 59	
60 to 64 Males Females Total	156 122 278		•••	3 2 5	13 10 23	27 26 53	41 35 76	59 38 97	13 11 24	
65 and up- wards { Males Females Total	45 49 94	 	 2 2	 2 2	4 2 6	7 14 21	13 17 30	19 10 29	2 2 4	
Not { Males Females Total	10 4 14	 ::	::	3	2 3 5	3	.a 1	1 1 2	 	··· ::
Nuptial Males Females Total	64,813 61,437 126,250	1	2,450 2,264 4,714	14,465 13,776 28,241	19,174 18,226 37,400	15,352 14,641 29,993	9,666 8,977 18,643	3,390 3,251 6,641	311 296 607	 6 10
$ \begin{array}{c} E_{X^*} \\ \text{nuptial} \\ \text{children} \end{array} \left\{ \begin{array}{c} \text{Males} \\ \text{Females} \\ \text{Total} \end{array} \right.$	3,144 3,038 6,182	19 14 33	871 804 1,675	1,041 1,020 2,061	557 553 1,110	339 351 690	223 207 430	77 75 152	12 10 22	5 4 9
Total Males children Females Total	67,957 64,475 132,432	20 14 34	3,321 3,068 6,389	15,506 14,796 30,302	19,731 18,779 38,510	15,691 14,992 30,683	9,889 9,184 19,073	3,467 3,326 6,793	323 306 629	9 10 19

(ii) Twins. The ages of parents of twins in 1923 are given hereunder:-

AGES OF PARENTS OF TWINS .-- AUSTRALIA, 1923.

						Ag	es of Mo	thers.		
	ers and Sexes ildren.	s of	Total Children.	Under 20.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 and upwards.
Under 20	Males Females Total		3 1 4	1 1 2	2					
20 to 24	Males Females Total	::	108 70 178	13 9 22	69 41 110	26 18 44	2	::		
25 to 29	Males Females Total	••	244 280 524	10 8 18	81 114 195	125 113 238	21 40 61	6 4 10	1 1 2	
30 to 84	Males Females Total		345 359 704	2 4 6	37 47 84	134 123 257	151 165 316	21 18 39	 2 2	
35 to 39	Males Females Total	::	335 313 648	2 2 4	4 6 10	67 48 115	· 150 140 290	101 98 199	11 19 30	
40 to 44	Males Females Total		176 161 337	::	4	13 17 30	56 43 99	77 83 160	26 18 44	
45 to 49	$\left\{egin{array}{l} ext{Males} \ ext{Females} \ ext{Total} \end{array} ight.$		93 99 192		$\frac{2}{2}$	6 4 10	19 14 33	45 47 92	20 31 51	1 3 4
50 to 54	$\left\{egin{array}{l} ext{Males} \ ext{Females} \ ext{Total} \end{array} ight.$:: ::	37 35 72				5 5 10	16 12 28	16 14 30	4
55 to 59	Males Females Total	::	7 10 17		::	1 1 2	::	2 5 7	4 4 8	••
60 and over	{ Males Females Total	::	2							. 2
Nuptial children	Males Females Total	::	1,350 1,328 2,678	28 24 52	199 208 407	372 324 696	402 409 811	268 267 535	78 89 167	3 7 10
Ex-nuptial children	Males Females Total	••	48 46 94	9 9 18	16 14 30	6 6 12	12 6 18	3 9 12	2 2 4	
Total children	Males Females Total		1,398 1,374 2,772	37 33 70	215 222 437	378 330 708	414 415 829	271 276 547	80 91 171	3 7 10

(iii) Triplets. Particulars regarding the ages of parents in cases of triplets are given in the next table:—

AGES	OF	PARENTS	OF	TRIPLETS.—AUSTRALIA.	1023

	4 (1) 11	Total	A	ges of Mothers	3.
Ages of Fathers and Sexes	of Children.	Children.	25 to 29.	30 to 34.	35 to 39.
25 to 29 Males Females Total		1 2 3	1 2 3	::	
$30 \text{ to } 34 \dots \begin{cases} \text{Males} & \dots \\ \text{Females} & \dots \\ \text{Total} & \dots \end{cases}$		 6	3	3 ·: 3	
S to 39 { Males Females Total	:: ::	3 6 9	· · · 3 3	3 ••3	 3 3
$ ext{Fotal children} \left\{egin{array}{l} ext{Males} & \dots \ ext{Females} & \dots \ ext{Total} & \dots \end{array} ight.$		10 8 18	4. 5 9	6 6	 3 3

(iv) Influence on Masculinity. Valid deductions cannot, of course, be drawn from one year's figures as to variations in the masculinity of the births at different ages of the parents, but so far as the figures go the following conclusions are indicated:—In cases where the father is older than the mother the masculinity has a tendency to be above the average, while in cases where both parents belong to the same age group, or where the father is younger than the mother, the masculinity is rather below the average. It is also below the average in cases where the father, or both father and mother are under 25; and it is above the average where the mother alone is under 25.

8. Birthplaces of Parents.—The relative birthplaces of the parents of children whose births were registered during the year 1923 will be found tabulated in the Bulletin of "Australian Demography," published by this Bureau. A summary of the results of the tabulation is given hereunder.

BIRTHPLACES OF PARENTS.-AUSTRALIA, 1923.

Birthplaces.	F	thers.			of Nupildren.	tial	Mothers nuptial Cl	
Direit places.	Single Births.	Twins.	Trip- lets.	Single Births.	Twins.	Trip- lets.	Single Births.	Twins.
AUSTRALASIA—						-		
New South Wales	41.109	396	1	42,789	432	1	2.349	16
Victoria	33,206	396	1 4 1	32,486	364	4	1.494	17
Queensland	13,543	132	l l	15,262	147		934	6
South Australia	11,248	116		10,907	121		349	3
Western Australia	2,357	26		3.172	32	!	201	·
Tasmania	5.810	56	1	5,856	63	1	336	2
Northern Territory	25	9	١ ا	29	1		29	
Federal Capital Territory	2		1	4				
Papua	3			3	1		1	
Territory of New Guinea	2		!			٠	1	
New Zealand	1,000	۱	'	759	7		36	1

BIRTHPLACES OF PARENTS .-- AUSTRALIA, 1923-continued.

	F	athers.	 		s of Nup ildren.	tial	Mothers nuptial C	
Birthplaces.	Single Births.	Twins.	Trip-lets.	Single Births.	Twins.	Trip- lets.	Single Births.	Twins
EUROPE—						 		İ
England	10,792	120	!	9,936	112	i	285	1
Wales	317	8		261	4	٠	13	
Scotland	2,629	45	· ·	2,385	35	. ••	68	1
Ireland Other British Possessions	1,320	17		889	10	• •	26	• • •
in Europe	108	3		64	1		2	
Belgium	14			25	ī			i
Denmark	194	!	1	28	1	:	2	
France	42			66			2	i
Germany	$\frac{358}{217}$	$\frac{2}{2}$	'	$\begin{array}{c} 137 \\ 122 \end{array}$	$\begin{vmatrix} 3 \\ 2 \end{vmatrix}$	• • •	3	• • •
Greece Italy	381	4		253	3		2	
Netherlands	40			17	1"	• • • •	ī	
Norway	75	1	ļ., i	16		·	. 2	
Poland	34			13		٠		f
Russia	164			88	1		5	
Spain Sweden	$\begin{array}{c} 34 \\ 125 \end{array}$		• •	$\begin{array}{c} 19 \\ 14 \end{array}$			1	
Switzerland	33	! ::	1	18	1	i	1	
Other European Countries		. 2		61		1		
-								•
ASIA	100		1	0.4				
British India and Ceylon	128	• •	1	84	. 1		3	
Other British Possessions in Asia	19	1	1	8				1
China	101	î î		21			1	
Japan	24			12			1	
Syria	79			51	į			
Other Countries in Asia	13	I	· · · ˈ	6	!	• •	• •	. ••
AFRICA-		:			į			•
Union of S. Africa	108	2	1	124	2		, 7	
Other African Countries	30	ļ		28		١	!	١
AMERICA-	•	!			ļ	1	l ,	•
	106	1	1	31	2	i	! 1	:
Canada	100		' '	- 31	-		. 1	
in America	4		i i	5			1	
United States of America	184	3		88	1		5	
Other American Countries	44	1		29		• • •	2	
POLYNESIA—							i	į
Fiji	29			16			2	1
Other British Posses-	2.)		••	10		• •		
sions in Polynesia	2			2				١
New Caledonia	18			22			1	i
New Hebrides	8			$\frac{2}{2}$		• •		١
Other Polynesian Islands At Sea	$\begin{array}{c} 17 \\ 53 \end{array}$			28	• • •		$\frac{1}{2}$	
Unspecified	10			12	::		$1\frac{2}{12}$	
- Imposition						• •	!	i
Total	126,250	1,347	6	126,250	1,347	6	6,182	47

9. Occupations of Fathers.—(i) Year 1923. A summary of the occupations of the fathers of all nuptial children whose births were registered in 1923 is given in the following table:—

OCCUPATIONS OF FATHERS OF NUPTIAL CHILDREN.-AUSTRALIA, 1923.

Occupations.	Number of Fathers.	Occupations.	Number of Fathers.
Class I.—Professional.	<u> </u>	CLASS III.—COMMERCIAL—cont.	
General Government	779	Carriages and Vehicles	40
Local Government	77	Harness, Saddlery & Leatherware	1
Defence	333	Ships and Boats	. 5
Law and Order	1,119	Building Materials	32
Religion	383	Furniture	38
Religion Charities	: 1	Chemicals and By-products	7
Health	1,100	Paper and Stationery	5ℓ
Literature Science	136	Textile Fabrics	428
Science	57	Dress	185
Civil Engineering, Architecture,		Fibrous Materials	8
and Surveying	443	Animal Food	2,425
Education	826		789
Fine Arts		Groceries, Drinks, Narcotics, and	
Music	135	Stimulants Living Animals	1,205
Amusements	510	Living Animals	114
m . 1 m . t . 1		Leather, naw materials	39
Total Professional	6,010	Wool and Tallow	.62
		Hay, Corn, etc.	146
	İ	Other Vegetable Matter n.e.i	47
C TT D	1	Wood and Coal	150
CLASS II.—DOMESTIC.		Stone, Clay and Glass	30
Watellassan and Assistants	0.79	Gold, Silver and Precious Stones	146
Hotelkeepers and Assistants Others engaged in providing	973	Ironmongery	$140 \\ 543$
board and lodging	166		1,334
House Servants	100	Shopkeepers and Assistants	301
Coachmen and Grooms	67	11	537
	622	Clerks, Bookkeepers, etc.	4,469
Hairdressers Laundrymen	50	Agents and Brokers Clerks, Bookkeepers, etc	1,921
Others engaged in domestic occu-	1 00	Others engaged in Commercial	1,021
pations	362	Pursuits	1.393
p		Speculators on Chance Events	53
Total Domestic	2,242	Storage	1
		Total Commercial	18,210
CLASS III.—COMMERCIAL.			
		CLASS IV.—TRANSPORT AND	
Banking and Finance	674	Communication.	
Insurance and Valuation	573		
Landed and House Property	216	Railway Traffic	4,943
Property Rights n.e.i.	2	Tramway Traffic	1,294
Books, Publications, Advertising		Road Traffic.	5,995
Musical Instruments	14	Sea and River Traffic Postal Service	1,486
Prints, Pictures and Art Materials	$\frac{1}{2}$		699
Ornaments and Small Wares		Telegraph and Telephone Service	·798
Sports and Games	2	Messengers, etc.	15
Watches, Clocks, Jewellery	3	Aviation	14
Arms and Ammunition		Total Tananant & Committee	15.044
Machinery	16	Total Transport & Communication	15,244

OCCUPATIONS OF FATHERS OF NUPTIAL CHILDREN.—AUSTRALIA, 1923 —continued.

	-cont	inuea.	
Occupations.	Number of Fathers.	Occupations.	Number of Fathers.
Class V.—Industrial.		CLASS V.—INDUSTRIAL—cont.	
Books and Publications	813	Roads, Railways, Earthworks	261
Musical Instruments	59	Disposal of the Dead	35
Prints, Pictures and Art Materials	63	Disposal of Refuse	118
Ornaments and Small Wares	167	Other Industrial Workers-	
Equipment for Sports and Games	9	Manufacturers, etc	76 9
Medals, Type, and Dies	34	Engineers, Firemen	3,043
Watches, Clocks, and Scientific		Contractors	1,255
Instruments	117	Labourers, undefined	24,010
Surgical Instruments	17	Others	318
Arms and Ammunition	10		
Engines, Machines, Tools, and	1	Total Industrial	53,737
Implements	1,701		
Carriages and Vehicles	1,446	-	
Harness, Saddlery & Leatherware	421		
Ships, Boats, etc	134		
Furniture	801		
Building Materials	1,104		
Chemicals and By-products	55	CLASS VI.—AGRICULTURAL,	
Textile Fabrics	262	Pastoral, Mining, Etc.	
Dress	1,897		
Fibrous Materials	33	Agricultural	22,567
Animal Food	327	Pastoral	3,620
Vegetable Food	1,467	Dairy Farming	1,130
Groceries, Drinks, Narcotics, and		Bees, Fisheries, and Wild Animals	383
Stimulants	337	Forestry	758
Animal Matter n.e.i	305	Water Conservation and Supply	106
Workers in Wood n.e.i.	208	Mines and Quarries	3,410
Vegetable Produce for Fodder	9	m . 1 m . m . 1	01.554
Paper	20	Total Primary Producers	31,974
Stone, Clay, Glass, etc	574		
Jewellery and Precious Stones	209		
Metals, other than Gold & Silver	2,890		
Gas, Electric Lighting, etc	1,110		
Building— Builders	712	Cr. on VIII	
	181	CLASS VII.—INDEFINITE.	
Stonemasons	634	Indopendent Moone haring	
Bricklayers	3,159	Independent Means, having no	121
Carpenters Slaters	3,159	specific occupation Occupation not stated	151 35
TOI .	448	Occupation not stated	30
	1,221	Total Indefinite	100
701 1	816	Total Indennite	186
Plumbers		l .	l
Signwriters	69		1
Signwriters Others	63 24	Total all Occupations	127,603

⁽ii) Summary, 1919 to 1923. The next table gives a summary in classes of the occupations of fathers of nuptial children in each of the last five years, with the percentage of each class on the total number of fathers. In 1923, 42.11 per cent. of fathers were of the industrial class, and 25.06 per cent. were of the agricultural, pastoral, mining, etc., class. In the five years under review, the greatest variations in the percentages of the various classes were an increase in the industrial class from 40.72 to 42.11 per cent., and a decline in the agricultural class from 25.83 to 25.06, and in the professional class from 5.29 to 4.71 per cent.

OCCUPATIONS OF FATHERS OF NUPTIAL CHILDREN.—AUSTRALIA, 1919 TO 1923.

Class.	1919.	1920.	1921.	1922.	1923.
I. Professional \{\begin{aligned}No. \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	6,063	6,638	6,204	6,369	6,010
	5,29	5.17	4.83	4.90	4.71
II. Domestic \{\begin{aligned} No. & \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	1,885 1.65	2,165 1.69	2,319 1.81	2,045 1.57	$\frac{2,242}{1.76}$
III. Commercial \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	16,501 14,41	18,208 14.19	18,298 14,26	18,731 14,41	18,210 14.27
IV. Transport and Com- No. munication \ %	13,735	15,285	15,351	15,809	15,244
	11.99	11.91	11.96	12.17	11.95
V. Industrial \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	46,636	54,086	53,567	54,104	53,737
	40.72	42.15	41.75	41.64	42.11
VI. Agricultural, pastoral, \ No. mining, etc. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	29,591 25,83	31,744 24.74	32,405 25,25	32,665 25.14	$31,974 \\ 25.06$
VII. Indefinite $\begin{pmatrix} No. \\ \% \end{pmatrix}$	102	147	169	204	186
	0.09	0.11	0.13	0.16	0.14
VIII. Dependents $\begin{cases} No. \\ 0/ \\ \end{cases}$	0.02	55 0.04	$\begin{array}{c} 13 \\ 0.01 \end{array}$	7 0.01	••
Total $\begin{cases} No. \\ % \end{cases}$	114,535	128,328	128,326	129,934	127,603
	100.00	100.00	100.00	100.00	100.00

- 10. Mother's Age, Duration of Marriage, and Issue.—(i) General. A tabulation has been made showing, in age-groups, the duration of marriage and issue of mothers. The total number of nuptial confinements in 1923 was 127,603, but in 43 cases the necessary information was lacking, and the following series of tables refers, therefore, to 127,560 nuptial confinements, viz., 126,207 single births, 1,347 cases of twins, and 6 cases of triplets. Ex-nuptial children—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 extenso, but the following are their most salient features. The complete tabulations are shown in "Australian Demography," No. 41.
- (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 between 33 and 34 years, and that the average family increased fairly regularly with the duration of marriage. The average number of children of all marriages was 3.08, the corresponding figures for 1922 being 3.10; for 1921, 3.08; for 1920, 3.11; and for 1919, 3.33.

DURATION OF MARRIAGE AND ISSUE OF MOTHERS.-AUSTRALIA, 1923.

Durat of Marria		Total Mothers.	Total Issue.	Average Number of Children.	Duration of Marriage.	Total Mothers.	Total Issue.	Average Number of Children.
Year	s.				Years.			
0-1		19,460	19,845	1.02	18-19	1,452	10,765	7.41
1-2		10,883	12,315	1.13	19–20	1,119	8,700	7.77
2-3		11,898	20,480	1.72	20–21	839	6,759	8.06
3-4		12,966	26,461	2.04	21-22	680	5,825	8.57
4-5		10,167	24,577	2.42	22-23	543	4,875	8.98
56		7,314	20,160	2.76	23-24	463	4,286	9.26
6-7	٠.,	6,363	19,566	3.07	24-25	263	2,487	9.45
7–8		6,100	20,634	3.35	25-26	174	1,787	10.27
8-9		6,222	22,995	3.69	26-27	100	1,068	10.68
9-10		5,405	22,223	4.11	27–28	t 61	652	10.69
10-11		4,745	21,168	4.45	28–29	31	319	10.29
11-12		4,441	21,323	4.80	29-30	16	171	10.68
12-13		3,739	19,281	5.16	30–31	8	95	11.87
13-14		3,328	18,342	5.51	31-32	1	14	14.00
14-15		2,643	15,694	5.94	32–33	1	14	14.00
15-16		2,298	14,380	6,26.	33–34	1	14	14.00
16-17		2,090	13,890	6.64		i	ļ	
17-18		1,746	12,208	6.99	Total	127,560	393,373	3.08

(iii) Ages of Mothers and Issue. The ages of mothers, issue, and average family are given in the attached table, which shows that the average family increased fairly regularly to a maximum of 7.78 children in the age-group 45 years and over, and that the greatest number of mothers occurs in the group 25 to 29 years.

ARDC	AND	ICCLUD	OΕ	MOTHERS	AUSTRALIA.	1022
AUES	AND	155UE	UF	MUTHERS	AUSTRALIA.	1923.

Ages of Mothers.	Total Mothers.	Total Issue.	Average Number of Children.	Ages of Mothers.	Total Mothers.	Total Issue.	Average Number of Children.
II- de- 90	4.790	5,640	1.19	40 44	C 791	40.554	0.99
Under 20 years	4,738	- ,		40-44 years	6,721	42,554	6.33
20-24 years	28,437	48,721	1.71	45 yrs, and over	612	4,761	7.78
25–29 ,,	37,736	92,862	2.46				
30–34 ,,	30,403	106,946	3.52				
35-39 ,,	18,913	91,889	4.86	All ages	127 560	393,373	3.08

⁽iv) Previous Issue of Mothers, Various Ages. The previous issue, according to the age of the mother, is given in the following table. Two mothers aged 40-44 each had 20 children prior to their present confinement.

PREVIOUS ISSUE OF MOTHERS OF VARIOUS AGES .- AUSTRALIA, 1923.

				Mothers	'Ages,			
Previous Issue.	Under 20 Years.	20-24 Years.	25–29 Years.	30–34 Years.	35–39 Years.	40-44 Years.	45 Years and Over.	Total.
0	3,922	14,517	11,433	5,002	1,793	393	30	37,090
1	759	9,245	11,187	6,366	2,267	456	17	30,297
$\frac{2}{3}$	54	3,492	7,302	5,696	2,586	576	36	19,742
3	3	950	4,197	4,609	2,685	646	40	13,130
4 5	••	183	2,283	3,654	2,507	777	49	9,453
5		36	906	2,422	. 2,117	750	46	6,277
6 7	٠.	8	304	1,450	1,697	710	61	4,230
7		5	94	741	1,373	702	61	2,976
8		1	23	309	944	587	73	1,937
9	• • •		7	103	490	456	57	1,113
10				33	257	308	50	648
11	٠.			10	128	188	32	358
12				5	47	88	32	172
13				3	11	44	15	73
14					7	25	8	40
15	1				(6	4	01
16	• •				4	4	1	9
17	• •				• • •	2		2
18	٠	'				1		1
20		'			• •	2		2
Total Mothers	4,738	28,437	37,736	30,403	18,913	6,721	612	127,560

⁽v) Previous Issue of Mothers of Twins and Triplets. Figures regarding the previous issue of mothers of twins and triplets show that 332 mothers had twins at their first confinement; 254 at their second; 225 at their third; 158 at their fourth; 120 at their

Births. 977

fifth; 77 at their sixth; 55 at their seventh; 52 at their eighth; 34 at their ninth; 22 at their tenth; 8 at their eleventh; 8 at their twelfth; and 2 at their thirteenth.

First, second, fourth, fifth, seventh, and eighth confinements each produced one of the 6 cases of triplets which occurred during 1923.

11. Interval between Marriage and First Birth.—(i) Interval and Sex of Children. The following table shows the interval between marriage and first birth, distinguishing the sexes of the children. Twins and triplets are included, the eldest born only being enumerated:—

INTERVAL BETWEEN MARRIAGE AND FIRST BIRTH.-AUSTRALIA, 1923.

Interval.	Numbe	r of First (Children.	Interval.	Numbe	r of First Cl	nildren.
	Males.	Females.	Total.	111011121	Males.	Females.	Total.
Under 1 month 1 month 2 months 3 ,	212 239 345 614 802 1,125 1,084 803 1,705 1,483 1,014 982 613 584 400 358 242 229 195	172 196 316 456 563 740 978 1,040 787 1,593 1,507 1,050 942 640 526 453 456 354 315 241 227 206 182	384 435 661 931 1,177 1,542 2,103 2,124 1,590 3,298 2,990 2,064 1,924 1,253 1,110 961 899 754 673 483 463 435 377	2 years 3 ,, 4 ,, 5 ,, 6 ,, 7 ,, 8 ,, 10 ,, 11 ,, 12 ,, 13 ,, 14 ,, 15 ,, 16 ,, 17 ,, 18 ,, 19 ,, 20 ,, 21 ,, 22 ,, 23 ,,	1,936 949 476 234 154 149 76 56 54 33 24 12 14 15 11	1,855 928 424 224 160 119 88 46 34 28 20 18 19 7 9 4 4 2 2	3,791 1,877 900 458 314 268 164 102 88 861 44 30 33 33 77 5 5 5 2
23 · ,,	134	119	253	Total	19,034	18,056	37,090

The masculinity of first births was 2.64 as compared with 2.59 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 the ages of mothers in the cases of ex-nuptial first births, of nuptial first births occurring less than nine months after marriage, and of nuptial first births occurring nine months or more after marriage. 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 about 2 to 3. At all ages up to and including 21, however, there was a great 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.

AGES OF MOTHERS AND INTERVAL BETWEEN MARRIAGE AND FIRST BIRTH, ETC.—AUSTRALIA, 1923.

_	Age of Moth at Birth o Child.	ner f	Ex-nuptial Births.	Nuptial Births less than nine months after Marriage.	Total of two preceding columns.	Nuptial Births nine months after Marriage and later.	Total Nuptial First Births.	Nuptial First Birth and Ex-nuptial Births,
12	years		1		1			1
13	**		6		6			6
14	**		26		26			26
5	,,		53	29	82	1	30	83
6	,,	• •	166	146	312	24	170	336
17	,,	• •	354	452	806	107	559	913
18	17	• •	518	964	1,482	327	1,291	1,809
19	,,	• •	593	1,233	1,826	639	1,872	2,465
20	**		468	1,264	1,732	1,052	2,316	2,784
21	23		451	1,364	1,815	1,516	2,880	3,331
22	,,	• •	445	1,140	1,585	2,029	3,169	3,614
23	,,	• •	411	942	1,353	2,354	3,296	3,707
24	**	• •	301	675	976	2,181	2,856	3,157
25	,,	••	239	564	803	2,259	2,823	3,062
26	,,	• •	253	452	705	2,075	2,527	2,780
27	,,	• •	204	379	583	1,974	2,353	2,557
8	*)	• •	217	292	509	1,719	2,011	2,228
29	,,	• •	203	216	419	1,503	1,719	1,922
30	**	••	180	202	382	1,296	1,498	1,678
31	,,	• •	111 .	115	226	1,001	1,116	1,227
32	**	• •	154	117	271	840	957	1,111
33	,,	••	123	85	208	693	778	901
34	,,	• •	131	62	193 171	591	653	784
35	**	•••	107	64		476	540	647
36	**	• •	98	46 37	144 116	405 290	451 327	549 406
37	"	••	79		121		327 264	
38 39	17	••	84 68	37 21	89	227 190	204	$\frac{348}{279}$
	**	•••	53	9	62	135	144	197
0 11	**	•.•	29	15	44	94	109	138
2	"	••	29 26	7	33	. 59	66	92
3	**	••	34	7	41	35	42	76
4	**	• •	12	5	17	27	32	44
5	"	• •	11	3	14	13	16	27
8	**	• •	5	í	6	6	7	12
17	**	••	ì	i	2	3	4	5
18	**	••	3	•	3	i	i	4
18 18	"	••	J	'' ₁	i	1	i	1
i9 50	,,	٠.	2	*	$\frac{1}{2}$	٠.		2
$\frac{10}{2}$,,	• •	_	l	"	1	1	.1
	specified		. 9	::	9		1	9
	Total		6,229	10,947	17,176	26,143	37.090	43,319

12. Interval between Birth and Registration of Birth.—Information was obtained for the years 1911 to 1921 regarding the period which elapsed between birth and registration. A detailed table giving the results for 1921 is contained in Demography Bulletin No. 39, issued by this Bureau. The law relating to maternity allowances has tended to accelerate the registration of births; and during the year under review it was found that approximately 35 per cent. were registered in the first week.

Since the granting of the maternity allowance the weighted average interval between the dates of birth and registration has been found to be about 13 days both for nuptial and ex-nuptial children.

§ 2. Marriages.

1. Marriages, 1919 to 1923.—The number of marriages registered in Australia during 1923 was 44,541, giving a rate of 7.83 per 1,000 of the mean population for the year, the lowest rate since 1919. The number of marriages in each State for the years 1919 to 1923 is given hereunder:—

MARRIAGES, 1919 TO 1923.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	North. Terr.	Fed. Cap. Terr.	Aus- tralia.
1919	15,809	11,706	5.429	3,855	2,194	1.513	25	9	40,540
1920	20.154	14,898	6,667	4.881	2,932	1.999	17	4	51,552
1921	18,506	- 13,676	5,963	4,383	2,656	1,668	15	2	46,869
1922	17,580	12,996	5,878	4,144	2,446	1,674	13	1	44,731
1923	17,523	13,126	5.814	4.099	2,376	1,592	7	4	44,541

2. Marriage Rates, 1919 to 1923.—The number of marriages registered per thousand of mean population is given in the following table for the same period:—

CRUDE MARRIAGE RATES(a), 1919 TO 1923.

Year.	n.s.w.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	North. Terr.	Fed. Cap. Terr.	Aus- tralia.
1919	7.91	7.95	7.49	8.23	6.87	7.38	5.37	3.89	7.80
	9.75	9.85	8.92	10.03	8.90	9.50	4.04	1.84	9.62
	8.78	8.90	7.81	8.82	7.96	7.82	3.84	0.81	8.59
	8.18	8.27	7.52	8.19	7.20	7.79	3.56		8.03
	8.00	8.16	7.24	7.29	6.82	7.39	1.94	1.21	7.83

(a) Number of marriages (not persons married) per 1,000 of mean annual population.

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 four 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. 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 in comparison with various other countries. The countries having the highest rates are those European countries which were engaged in the war, and the rates, which are not all available for the same year, are lowest in the latest years. The high rates were possibly due to marriages deferred on account of the war.

CRUDE MARRIAGE RATES.-VARIOUS COUNTRIES.

Country.		Year.	Crude Marriage Rate.	Country.	Year.	Crude Marriage Rate.
						1
Bulgaria		1919	16.2	Canada (excluding		!
Austria		1921	12.7	Quebec)		7.8
Prussia		1921	12.1	South African Union	1922	7.8
Germany		1921	11.9	Switzerland	1922	7.7
Belgium		1921	11.8	England and Wales	1922	7.6
Italy		1921	11.7	Great Britain	1923	7.6
Czecho-Slovakia		1922	10.7	Spain	1923	7.6
Hungary		1922	10.5	Tasmania	1922	7.4
Rumania		1919	10.2	Queensland	1923	7.2
France		1922	9.8	Scotland	1923	7.2
Japan		1922	9.0	Finland	1923	7.0
Netherlands		1922	8.7	Western Australia	1921	6.8
Victoria	\	1923	8.2	Chile	1923	6.5
New South Wales		1923	8.0	Norway	1921	6.4
Denmark		1922	7.9	Sweden	1922	6.3
South Australia		1923	7.9	Northern Ireland	1923	6.3
Quebec (Canada)	٠ ا	1921	7.9	Ceylon	1922	5.7
Russia (European)		1909	7.9	Irish Free State	1922	4.8
New Zealand		1923	7.9	Jamaica	1922	3.5
Australia		1923	7.8		1921	

4. Age and Conjugal Condition at Marriage.—(i) General. The ages at marriage of bridegrooms and brides will be found in "Australian Demography," Bulletin No. 41. A summary in age groups is given in the table hereunder, which also shows the previous conjugal condition of the contracting parties. There were 1,943 males who were less than twenty-one years of age married during 1923, while the corresponding number of females was 8,780. At the other extreme there were 27 men of sixty-five years and upwards, who described themselves as bachelors, and 12 spinsters of corresponding age.

AGES AND CONJUGAL CONDITION OF PERSONS MARRIED.—AUSTRALIA, 1923.

. Age at		Brideg	grooms.		Brides.					
Marriage.	Bachelors,	Widowers.	Divorced.	Total.	Spinsters.	Widows.	Divorced.	Total.		
Under 20	933			933	6,058	7	1	6,066		
20-24 years	13,386	19	9	13,414	18,333	80	42	18,455		
25-29 ,,	14,195	191	76	14,462	10,534	283	160	10,977		
30-34 ,,	7,162	382	156	7,700	3,952	462	200	4,614		
35-39 ,,	3,006	499	167	3,672	1,589	451	130	2,170		
40-44 ,,	1,239	447	118	1,804	586	369	73	1,028		
45-49 .,	573	356	73	1,002	269	295	38	602		
50-54 .,	285	314	40	639	112	194	13	319		
55-59 ,,	145	237	25	407	38	106	4	148		
60-64 ,, 65 years and	59	195	7	261	17	69	3	89		
over	27	213	5	245	12	58	'	70		
Unspecified	2	••		2	3	••	••	3		
Total	41,012	2,853	676	44,541	41,503	2,374	664	44,541		

(ii) Relative Ages, Bridegrooms and Brides. The relative ages of bridegrooms and brides are shown for single years in "Australian Demography," Bulletin No. 41; a condensation into age-groups of five years is given below:—

RELATIVE AC	iES OF	PERSONS	MARRIED.—AUSTRALIA	A. 1923.
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		Ages of Brides.									
Ages.	Total Bride- grooms.	Under 15.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 and upwards.	Not stated	
Under 20 20 to 24 25 to 29 30 to 34 35 to 39 40 to 44 45 to 49 55 to 59 60 to 64 65 and upwards Not stated	933 13,414 14,462 7,700 3,672 1,804 1,002 639 407 261 245	7 3 	673 3,527 1,288 413 107 26 12 6 2 1	243 8,058 6,953 2,281 626 183 64 26 111	15 1,570 5,016 2,782 1,078 315 123 48 15 8 7	1 198 975 1,646 985 466 195 86 39 11	37 184 453 630 431 212 132 50 26 15	11 32 106 179 260 184 119 69 49	6 11 19 67 123 212 221 221 161 187		
Total Brides	44,541	11	6,055	18,455	10,977	4,614	2,170	1,028	1,228	3	

(iii) Average Ages, Bridegrooms and Brides. The age at marriage of brides has remained fairly stationary during recent years at an average of about 26 years. The figures for the five years are:—1919, 25.77 years; 1920, 26.11 years; 1921, 26.16 years; 1922, 26.14 years; and 1923, 25.61 years. 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 25.96 years for the five years 1919-1923. The average age of bridegrooms in 1919 was 29.10 years; in 1920, 29.55 years; in 1921, 29.74 years; in 1922, 29.65 years; and in 1923, 29.12 years. It follows, therefore, that brides are generally speaking rather less than 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 1923 has already been given. The following table shows the conjugal condition of the contracting parties:—

PREVIOUS CONJUGAL CONDITION OF PERSONS MARRIED .-- AUSTRALIA, 1923.

	Total	Brides.					
Conjugal Condition.	Bridegrooms.	Spinsters.	Widows.	Divorced.			
$\operatorname{Bridegrooms} \left\{ egin{array}{l} \operatorname{Bachelors} \\ \operatorname{Widowers} \\ \operatorname{Divorced} \end{array} \right.$	41,012 2,853 676	39,082 1,911 510	1,434 828 112	496 114 54			
Total Brides	44,541	41,503	2,374	664			

6. Birthplaces of Persons Married.—Information regarding the birthplaces of persons who were married in 1923 was not obtained in Western Australia; the totals in the following table, therefore, are exclusive of that State. As might be expected,

there were more brides than bridegrooms who were natives of Australia. In "Australian Demography," Bulletin No. 41, the relative birthplaces of bridegrooms and brides will be found tabulated in full detail.

BIRTHPLACES OF PERSONS MARRIED .- AUSTRALIA (a), 1923.

Birthplaces.	Bride- grooms.	Brides.	Birthplaces.	Bride- grooms.	Brides
AUSTRALASIA—			ASIA-		
New South Wales	14,064	14,899	British India and		ļ
Victoria	11,867	12,155	Ceylon	43	19
Queensland	4,522	5,070	Other British Posses-		1
South Australia	3,809	3,794	sions in Asia	6	2
Western Australia	227	292	China	25	5
	1,833	1,888	Syria	15	8
	1,000	1,000	Other Asiatic	10) "
Northern Territory	2	ì		12	5
Fed. Cap. Territory			Countries	14	9
New Zealand	358	282			1
Papua and Territory	}		AEDICA		}
of New Guinea	2	3	AFRICA		
·			Union of South Africa	63	73
	ĺ	1	Other British Pos-	00	"
		i	sessions in Africa	2	
EUROPE—			Other African Coun-	2	
EURUPE—			1	8	į,
73 1 1	9 907	0.001	tries	. •	4
England	3,201	2,331			1
Wales	96	55			1
Scotland	839	664	AMERICA-	:	1
Ireland	371	241			1
Other British Posses-			Canada	36	18
sions in Europe	32	. 11	Other British Pos-		1
Belgium		i . 6	sessions in America	4	2
Denmark	43	4	United States	94	' 30
Finland	21	3	Other American	i	
France	23	. 20	Countries	12	10
Germany	93	47			
Greece	79	50	į.		i
Italy	94	. 51	POLYNESIA-		ì
Netherlands	21	5	I OBINIDAM	1	i
Norway	35	4	Fiji	12	8
	16	2	Polynesian British	12	
D		; –		· .	
Russia		17	Possessions	2	2
Spain	U	10	Other Polynesian Is-		
Sweden	46	4	lands	15	10
Switzerland	· 15	7	₩ .	!	1
Other European	1		At sea	10	10
Countries	34	! 17	Unspecified	9	18
		1	Total	42,165	42,165

⁽a) Exclusive of Western Australia.

^{7.} Occupations and Ages of Bridegrooms.—A tabulation has been made of the occupations and ages of all males married in Australia, and the results for 1923 are published in detail in "Australian Demography," Bulletin No. 41. An abridgment of this tabulation is given below. The average ages of the persons falling under the twenty-eight subdivisions were determined, and it appears that, apart from the Indefinite class, which consists chiefly of persons who have retired from business and who are living on income from investments, and who may be expected to have reached a comparatively high age before attaining a position of financial independence, the average age ranges from 27.62 years for those engaged on roads and tramways to 32.08 years in the class engaged in pastoral pursuits.

MARRIAGES.

OCCUPATIONS AND AGES OF BRIDEGROOMS.—AUSTRALIA, 1923.

	Pr fession		Dome	estic.	Commercial.					T C	ranspo	rt and lication	ı		
Ages at Marriage.	Government, Defence, and Law.	Others.	Board and Lodging.	Others.	Property and Finance.	Art, Mechanic, and Textile Products.	Food and Drinks.	Animal and Vege- table Substances.	Fuel, Light, and Metals.	Merchants and Dealers,	Others.	Railways.	Roads and Trams.	Seas and Rivers.	Others.
15 years	<u> </u>	97 80 73 68 52 56 186 186 82 	56 6177 311 268 299 299 299 218 244 281 216 217 166 527 177 377 480	25 8 8 111 232 244 255 200 166 25 9 100 111 8 8 4 16 32 12 8 8 11 3333	1 4 4 13 26 38 44 46 633 42 30 35 36 18 16 48 48 30 12 2 - 616	383	30 102 62 30 45 	9 5 21 9 9 4 	12 6 8 8 8 2 2 2 16 8 1 1.		249 173 143 134 104 303 135 66 85 4,192	95 117 116 94 79 78 75 62 52 50 43 39 82 43 40 	11 11 5 177 588 755 2015 2011 139 95 98 57 81 139 163 37 51 1 2,269	82 62 20 32 752	1 3 6 6 33 224 44 5 53 66 66 44 188 32 114 224 18 3 112 114 24 18 8 3 112 118 118 118 118 118 118 118 118 118

$\begin{array}{cccccccccccccccccccccccccccccccccccc$				3	Manufac	cturing.		Pr	imary :	Produc	ers.			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Ages at Marriage.	Art and Mechanic Productions.	Textiles and Fibrous Materials.	Food and Drinks.	Animal and Vegetable Substances.	Metals and Minerals.	Fuer, Light, and Energy.	Building rnd Con- struction.	Others.	Agri- cultural.	Pastoral.	Mining and Quarrying.	Others.	Indefinite.
40 ,, 44 84 36 24 6 43 15 100 379 316 86 45 9 45 ,, 49	16 "	5 27 52 75 184 266 264 269 247 222 190 172 109 94 75 63 3 193 84 56 73	39 183 688 683 811 777 699 522 524 366 567 377 378 244 366 15 	1 4 15 23 70 85 56 64 46 36 34 38 22 25 19 21 47 24 19 767 767	1 44 33 11 15 15 28 14 15 12 14 17 7 10 0 7 17 6 5 17 6 5 17 6 5 17 8 17 17 17 17 17 17 17 17 17 17 17 17 17	3 16 16 13 17 122 100 130 101 . 98 88 88 73 42 54 54 54 37 25 25 22 32 	4 111 27 333 600 400 533 355 366 368 288 100 377 155 8 	2 10 28 61 152 174 199 238 220 191 171 150 105 56 236 100 55 102 102 2,800	12 83 177 307 670 680 680 677 521 499 472 456 373 306 330 202 215 777 379 208 291	15 46 46 73 218 307 431 445 445 445 459 455 380 283 243 229 621 316 179 240	2 7 144 344 58 78 78 78 100 85 84 80 71 74 72 36 47 141 86 56 86	5 25 36 36 37 37 42 25 34 35 34 4 24 4 24 26 50 60 45 30 51	1 3 8 14 16 22 17 30 15 12 14 14 4 288 288	1 3 1 1 3 1 1 5 5 2 5 3 3 ··· 1 4 4 4 4 4 4 8 9 9 4 8 ··· 105

- 8. Fertility of Marriages.—The quotient obtained by division of the nuptial births registered, e.g., during the five years 1919 to 1923, by the number of marriages registered during the five years 1914 to 1918, i.e., the period antecedent by five years to the period of the births, has been called the "fertility of marriages." This works out at 3.25—in other words, the number of children to be expected from every marriage in Australia is about 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 year 1919 the result was 2.86; for 1920, 3.05; for 1922, 3.22; and for 1923, 3.25.
- 9. Registration of Marriages.—(i) Marriages in each Denomination. 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 proportions so celebrated in 1923 were:—New South Wales, 94.75 per cent.; Victoria, 96.13 per cent.; Queensland, 96.35 per cent.; South Australia, 96.19 per cent.; Western Australia, 82.70 per cent.; and Tasmania, 96.61 per cent., the percentage for Australia being 94.92. The registered ministers in 1923 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 Christians." The figures for 1923 are shown in the following table:—

MARRIAGES IN EACH DENOMINATION,-AUSTRALIA, 1923.

Denomination.	_	N.S.W.	Vic.	Qld.	S.A.	W.A.	Tas.	N. Ter.	Fed. Cap. Ter.	Aus- tralia.
		7,667	3,763	1,752	1,097	874	626	2	2	15,783
Roman Catholic		3,403	2,401	1,350	502	378	204		2	8,240
Methodist		2,192	1,853	919	1,341	353	305	2	٠.	6,965
Presbyterian Church		2,346	2,530	866	174	178	174	٠		6,268
Congregational		381	847	126	210	74	56	١		1,694
Baptist		239	640	159	186	38	80			1,342
01 1 101 1		127	271	32	194	33	63		١	720
Lutheran	٠.	26	47	131	183	3		١		390
Greek Orthodox		18	18	5		5		1		47
Unitarian		8	2		7			١	١	17
Salvation Army		71	57	39	36	13	9	١		225
Seventh-Day Adventist	ts	30	6	10	5	8	1	i		60
041 01 11 11		48	137	213	7	1	18	١		424
Hebrew		46	46	1	1	7		١	Ì	100
Registrar's Office		920	508	212	156	411	54	2	١	2,263
Transcicad	• •	1	• •				2			3
Total	••	17,523	13,126	5,814	4,099	2,376	1,592	7	4	44,541

⁽ii) Number and Percentage in each Denomination, 1919 to 1923.—The number of marriages according to denomination, and the percentages on total marriages, are shown in the next table:—

MARRIAGES IN EACH DENOMINATION.—AUSTRALIA, 1919 TO 1923.

Denomination.		1919.	1920.	1921.	1922.	1923.
Church of England	(Total	14,264	18,859	16,499	15,877	15,783
Church of England	√ %	35.19	36.58	35.20	35.49	35.43
Roman Catholic	(Total	7,390	9,141	8,458	8,304	8,240
Roman Catholic	1 %	18.23	17.73	18.05	18.57	18.50
Methodist	, Total	6,321	7,796	7,320	6,904	6,965
Methodist	√ %	15.59	15.12	15.62	15.43	15.64
Presbyterian	[Total	5,570	7,097	6,808	6,345	6,268
Presbyterian	1 %	13.74	13.76	14.52	14.18	14.07
Congregational	[Total	1,698	2,308	2,001	1,773	1,694
Congregational	1 %	4.19	4.48	4.27	3.96	3.80
D4!-4	Total	1,342	1,744	1,461	1,356	1,342
Baptist	١ %	3.31	3.38	3.12	3.03	3.01
Church of Christ	(Total	703	839	870	768	720
Church of Christ	1 %	1.73	1.63	1.86	1.72	1.62
T	(Total	356	386	401	422	390
Lutheran	1 %	0.88	0.75	0.86	0.94	0.88
a 100 1	Total	24	30	23	34	47
Greek Orthodox	1 %	0.06	0.06	0.05	0.08	0.11
	(Total	15	21	21	18	17
Unitarian	1 %	0.04	0.04	0.04	0.04	0.04
~	Total	234	302	227	214	225
Salvation Army	1 %	0.58	0.59	0.48	0.48	0.51
	(Total	58	60	57	56	60
Seventh-Day Adventists	1 %	0.14	0.12	0.12	0.13	0.13
	Total	533	628	527	483	424
Other Christians	1 %	1.31	1.22	1.12	1.08	0.95
	Total	104	111	113	90	100
Hebrew	1 %	0.26	0.22	0.24	0.20	0.22
	Total	1,887	2,198	2.074	2,075	2,263
Registrar's Office	1 %	4.65	4.26	4.43	4.64	5.08
	∫ Total	41	32	9	12	3
Unspecified	1 %	. 0.10	0.06	0.02	0.03	0.01
		40,540	51,552	46,869	44,731	44,541

§ 3. Deaths.

1. Male and Female Deaths, 1919 to 1923.—The total numbers of deaths registered in each year from 1919 to 1923 inclusive are given in the two following tables. The annual average of male deaths during the period was 32,241, and of female deaths 24,528, the details being as follow:—

MALE DEATHS, 1919 TO 1923.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	North Terr.	Fed Cap. Terr.	Aus- tralia.
1919 1920 1921 1922 1923	15,256 12,088 11,490 11,014 11,969	10,508 9,059 8,662 8,187 9,135	5,337 4,824 4,397 4,372 4,699	2,927 2,814 2,655 2,537 2,727	2,340 2,161 2,209 1,994 1,907	1,175 1,055 1,166 1,084 1,140	82 48 70 52 35	7 4 3 5	37,632 32,053 30,652 29,245 31,622
Rate (a), 1923	10.72	11.46	11.08	10.48	10.24	10.57	13.58	4.81	10. 91

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

Year.		N.S W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tos.	North. Terr.	Fed. Cap. Terr.	Aus- tralia.
	-									
1919		11,088	8,862	3,519	2,548	1,250	1,017	3	11	28,298
1920	}	8,846	7.773	3.123	2,269	1,227	981	15	2	24,236
1921		8,536	7.503	2,745	2,327	1,271	1,031	10	1	23,424
1922		8,152	6,968	2,780	2,071	1.173	913	8	1	22,066
1923	•••	9,079	8,084	3,194	2,234	1,023	997	3		24,614
							 			
Rate (a), 19	923	8.46	9.98	8.43	8.69	6.31	9.28	2.90		8.82

FEMALE DEATHS, 1919 TO 1923.

2. Male and Female Death Rates, 1923.—The crude male and female death rates for 1923 only are given in the last line of the preceding tables. Victoria had the highest rate for both males and females, and Western Australia the lowest rate for each sex. The rates for the two Territories are based on very small numbers, and comparisons with the States would be misleading.

Owing to differences in age constitution in the six States, the crude rates are not, however, strictly comparable. A more satisfactory rate is furnished by the "Index of Mortality" (see sub-para. 13). The death rates for males and females in each State in five-year age groups for the three years 1920 to 1922, that is, for the Census year and for the year immediately preceding and following, are shown on page 992.

The high death rate in 1919 was due to the outbreak of influenza. The rates for the four years 1920-1923 averaged about 11.0 per 1,000 for males, and 8.7 per 1,000 for females.

MALE	AND	FEMALE	DEATH	RATES (a).	-AUSTRALIA.	1010 T	0 1923.
mall	AIIU	LEMMALL	DLAIL	INTERIOR CONTRACTOR INTERIOR CONTRACTOR CONT	TAUSINALIA.	1717 1	U 1740.

Year			1919.	1920.	1921.	1922.	1923.
Male rate Female rate		••	14.40 10.95	11.75 9.20	11.05 8.72	10.33	10.91 8.82
Crude total rate	••		12.69	10.50	9.91	9.21	9.89

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

3. Total Deaths, 1919 to 1923.—The total number of deaths during each of the five years 1919 to 1923 is given below:—

TOTAL DEATHS, 1919 TO 1923.

Yea	or.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	North. Terr.	Fed. Cap. Terr.	Australia.
1919		26,344	19,370	8,856	5,475	3,590	2,192	85	18	65,930
1920		20,934	16.832	7,947	5,083	3,388	2,036	63	6	56,289
1921		20,026	16,165	7,142	4,982	3,480	2,197	80	4	54,076
1922		19,166	15,155	7,152	4,608	3,167	1,997	60	6	51,311
1923		21,048	17,219	7,893	4,961	2,930	2,137	38	10	56,236
		•	1	1	'	1 1	•	_		1

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

987

4. Crude Death Rates, 1919 to 1923.—The crude death rates for the five years 1919 to 1923 are given in the next table. The comparatively high rate in 1919 was due to the heavy mortality from influenza.

CRUDE DEATH RATES (a), 1919 TO 1923.

Yes	ır.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	North. Terr.	Fed. Cap. Terr.	Aus- tralia.
1919		13.18	13.15	12.22	11.69	11.24	10.69	18.26	7.79	12.69
1920		10.13	11.13	10.63	10.44	10.28	9.67	14.95	2.76	10.50
1921	٠	9.50	10.52	9.36	10.02	10.43	10.30	20.47	1.61	9.91
1922		8.92	9.65	9.15	9.11	9.32	9.30	16.42	2.13	9.21
1923		9.61	10.71	9.83	9.59	8.41	9.92	10.53	3.02	9.89

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

5. Death Rates of Various Countries.—A comparison with foreign countries based on crude death rates is, owing to the different age constitution of the population, spt to favour Australia, but even if an allowance were made for the comparative youth of its population, Australia would still occupy a good position. The following table gives particulars of the crude death rates of various countries for the latest available years:—

DEATH RATES (a).--VARIOUS COUNTRIES.

Country.	Year.	Crude Death Rate.	Country.	Year.	Crude Death Rate.
Western Australia	1923	8.4	Switzerland	 1922	12.9
New Zealand	1923	9.0	Irish Free State	 1923	13.3
New South Wales	1923	9.6	Belgium	 1922	13.9
South Australia	1923	9.6	Finland	 1921	14.0
Union of South Africa			Canada (Quebec)	 1921	14.2
(Whites)	1923	9.7	Germany	 1921	14.8
Queensland	1923	9.8	Prussia	 1921	14.8
Australia	1923	9.9	Northern Ireland	 1922	15.4
Tasmania	1923	9.9	Austria	 1921	17.1
Canada (excluding Que-			Italy	 1921	17.5
bec)	1922	10.4	France	 1922	17.6
Victoria	1923	10.7	Czecho-Slovakia	 1922	17.8
Netherlands	1922	11.4	Bulgaria	 1919	19.9
Sweden	1923	11.4	Spain	 1922	20.5
England and Wales	1923	11.6	Hungary	 1922	20.8
Great Britain	1923	11.7	Japan	 1922	22.3
United States (Regis-			Jamaica	 1922	22.9
tration Area)	1922	11.8	Ceylon	 1922	27.8
Norway	1922	11.9	Russia, European	 1909	28.9
Denmark	1922	11.9	Chile	 1921	33.4
Scotland	1923	12.9	Rumania	 1919	36.1

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

^{6.} Infantile Deaths and Death Rate.—(i) Australia, 1919 to 1923. In the following table, which shows both the total number of deaths of children under one year and the rate per thousand births since 1919, males and females are distinguished. 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 343,173 male infants born from 1919 to 1923, 24,195 (70.50 per 1,000) died during their first year of life, while of 324,439 female infants only 18,087 (55.75 per 1,000) died during the first year.

INFANTILE DEATHS AND DEATH RATES.-AUSTRALIA, 1919 TO 1923.

		Registered	l deaths under	one year.	Rate of	Infantile Mort	ality.(a).
Year		Males.	Females.	Total.	Males.	Females.	Australia
1919		4,802	3,662	8,464	76.31	61.69	69.21
1920		5,386	4,045	9,431	76.66	61.15	69.14
1921		5,111	3,841	8,952	72.97	58.06	65.73
1922		4,279	2,972	7,251	60.62	44.42	52.74
1923	'	4,617	3,567	8,184	66.56	54.16	60.52

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

(ii) States, 1919 to 1923. For the States and Territories the rates of infantile mortality during the last five years were as follows:—

INFANTILE MORTALITY RATES (a), 1919 TO 1923.

Year,		N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	North. Terr.	Fed. Cap. Terr.	Aus- tralia.
	- ·	ļ						i		
1919 1920 1921 1922 1923		71.83 69.41 62.56 53.60 60.68	67.90 73.70 72.55 53.35 65.70	71.88 63.24 54.16 50.38 53.95	64.01 67.34 65.48 47.50 60.30	61.12 66.02 78.26 55.59 56.02	64.97 65.51 78.02 55.70 57.45	66.04 190.48 63.29 57.14 13.89	111.11 66.67 74.07 31.25	69.21 69.14 65.73 52.74 60.52

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

The infantile mortality rate for Australia in 1922 was the lowest yet recorded, and was exceptionally low in all the States, South Australia occupying the premier position with a mortality of 47.50 per 1,000 births. Moreover, the death rate from almost every cause was low, though the greatest effect was from the comparatively low mortality from diarrhea and enteritis and from pneumonia and whooping cough. Although the rate for 1923 was not so satisfactory as for 1922, it was much below the average for the years 1919–1921. In 1923 Queensland had the lowest and Victoria the highest rate among the States.

(iii) Districts. The total number of births, of deaths of children under one year of age, and the average rate of infantile mortality for the five years 1919 to 1923 are shown in the following table for each of the fifty-nine districts for which the vital statistics have been tabulated. To afford a better indication of the geographical position of the districts, the name of a town situated in a fairly central part of each district has been added. The figures for the Federal Capital Territory and for Lord Howe Island are included for the sake of completeness, but are too small to be used in comparison with others. Remarkable

Deaths. 989

variations are shown in the mortality rate for the various districts. The lowest rate was experienced in the western district of South Australia (36.16 per 1,000 births), and the highest in the Trans-Darling Plains (Broken Hill) of New South Wales (115.49 per 1,000 births).

INFANTILE MORTALITY.—STATE DISTRICTS, 1919 TO 1923.

States and Territories.	_	Districts.		Towns.	Total Births, 1919–23.	Total Deaths of Children under one year, 1919-23.	Average Infantile Mortality per 1,000 Births. 1919-23.
New South Wales	3	Metropolitan North Coast Lower Hunter Cumberland		Sydney	109,948 22,295	7,362	66 - 96
,,	[North Coast		Granton	22,295	1,036	46.47
*1		Lower Hunter	•••	Newcastle	28,927	2,003 773	70 - 78 51 - 69
••	::			Parramatta	14,954 10,032	571	56.92
**	- : :	Northern Tableland		Armidale	10,032 12,912 16,350 13,663 5,394 9,382	698	54.06
,		Central Tableland		Armidale Bathurst Goulburn	16,350	1,188	72 - 66
•,		Southern Tableland		Goulburn	13,663	880	64 - 41
**		North-Western Slope	• •	Morce	5,394	319	59.14
**		Central-Western Slope South-Western Slope		Dubbo	9,382	569 520	60 · 65 49 · 02
••		Riverina		Moree Dubbo Temora Hay Cobar Broken Hill	6,163	366	59.39
.,		Distant Dock of Dasker		Cobar	1,534	113	73.66
		Trans-Darling Plains		Broken Hill		483	115 49
Victoria		Lord Howe Island			6	1	166-67
Victoria	٠.	Metropolitan		Melbourne	92,125	6,721	72.96
		North-Central	• •	Geelong Kyneton Hamilton Horsham	16,840 6,210 17,641 7,236	1,115 358	66.21 57.65
"	٠٠.	Western	• •	Hamilton	17 641	1 023	57.99
,,		Wimmera	::	Horsham	7 2 3 6	448	61.91
**		Mallec		Ultima	6,466	434	67.12
19		Northern		Rochester	16,081	978	60.82
,,	٠.	North-Eastern	• •	Beechworth	4,675	234	50.05
Ouranaland	• •	Motropoliton	• •	Sale Brisbane	8,314 30,214	379 2,041	45.59 67.55
Queensiand		Moreton	• •	Brisbane	11,374	541	47.56
,,	• • •	Wide Bay	• •	Maryborough	11.817	581	49.17
,,		Port Curtis		Rockhampton	7,530 9,717	475	63.08
**	٠. ا	Edgecumbe		Townsville	9,717	545	56.09
••	٠.	Rockingham		Cairns	5,679	264 77	46.49 74.54
**	٠.	Carpentario		Cooktown	1,033 1,749	122	69.75
"	• •	Central-Western		Croydon Winton		43	77.90
"		South-Western		Charleville	1,361	100	73.48
,,	٠.	Central		Blackall	3 173	201	63.35
,,	٠.	Maranoa		Roma	1,818 13,236	116	63.81
South Australia	• •	Downs	• •	Toowoomba	13,236 29,357	705 1,996	53.26
		Central		Adelaide Gawler	11,926	575	48.21
"		Lower North		Gawler Redruth	โดอิดร	629	67.67
" .	• •	Upper North		Redruth Port Augusta	2,835	164	57.85
" "	٠.	South-Eastern		Mount Gambier	2,934	126	42.94
		Plains Last of Darling Trans-Darling Plains Lord Howe Island Metropolitan Central Western Wimmera Mallec North-Central Morth-Eastern Gippsland Metropolitan Moreton Wide Bay Port Curtis Edgecumbe Rockingham Vork Peninsula Carpentaria Central-Western South-Western Central Maranoa Downs Metropolitan Central Lower North Upper North South-Eastern Western Metropolitan Northern Agricultural South-Western Metropolitan Northern Agricultural South-Western	• •	Port Lincoln	2,835 2,934 2,408 20,023	87	36.13 68.42
Western Australi		Northern Agricultural	• •	Perth Geraldton	20,023	1,370 315	58.75
,,	٠.	South-Western	• •	Geraldton Katanning	5,362 9,301	464	49.89
;; ;;	• •	Eastern Goldfields		Kalgoorlie	3,239	251	77.49
••		Northern Goldfields		Pilbara	556	43	77.34
	٠.	North-Western		Roebourne	204	8	39.22
Tarmenia	• •	Northern		Broome	198 7,796	16	82.90 71.45
Tasmania	• •	Launceston	• •	Hobart	4,786	557 334	76.08
**	::	North-Eastern	• •	Launceston	2,702	161	59.59
**		North-Western		Stanley	4,390 2,702 7,261	438	60.32
"		Midland		Zeehan	2,720	126	46.32
,,	٠.	South-Eastern		Zeehan Sorell Franklin	2,778	158	56.88
Martham Marris		Northern Agricultural South-Western Eastern Goldfields Northern Goldfields North-Western Northern Hobart Launceston North-Eastern North-Western Midland South-Eastern South-Western		Franklin	632	45	71.20
Northern Territo Federal Car				Darwin Canberra	390 120	29	74.36 58.33
Territory	,, va :	••		Cambella	1 120	1 '	00.00
		i		1	l	i	1

⁽iv) Various Countries and Citics. Compared with other countries, the States of Australia occupy a very favourable position, being surpassed by New Zealand only. There are, however, several continental cities which show better results than any Australian city shows. It may be pointed out also in connexion with the rates hereunder, that a high birth rate is often, though not invariably, accompanied by a high infantile death rate. The figures in the subjoined tables relate to the latest years for which returns are available:—

INFANTILE MORTALITY RATES (a).—VARIOUS COUNTRIES.

Country.	Year.	Rate of Infantile Mor- tality. (a)	Crude Birth Rate. (b)	Country.	Year,	Rate of Infantile Mor- tality. (a)	Crude Birth Rate. (b)
New Zealand	1923	44	21.9	Canada (exclud-	1922	87	24.8
Queensland	1923	54	24.9	ing Quebec)			
Western Australia	1923	56	22.6	Finland	1921	95	24.3
Tasmania	1923	57	26.3	Bulgaria	1919	109	40.2
South Australia	1923	60	22.6	Belgium	1921	115	21.8
Australia	1923	61	23.8	France	1922	124	19.3
New South Wales	1923	61	24.7	Canada (Quebec)	1921	128	37.6
Norway	1921	63	24.5	Germany	1921	134	24.9
Sweden	1921	65	21.4	Prussia	1921	134	24.9
Irish Free State	1923	66	19.4	Spain	1922	142	30.5
Victoria	1923	66	22.3	Austria	1920	157	22.4
Netherlands	1922	67	25.9	Italy	1917	158	19.5
Switzerland	1922	68	19.6	Japan	1922	166	34.2
England and Wales	1923	69	19.7	Jamaica	1922	177	37.3
Great Britain	1923	70	19.9	Ceylon	1922	188	39.4
United States (Re-	1921	76	24.3	Hungary	1921	197	23.5
gistration Area)	i I			Rumania	1920	231	42.5
Denmark	1921	77	25.4	Russia, European	1909	248	44.0
Northern Ireland	1922	77	23.0	Chile	1914	286	37.0
Scotland	1923	79	22.8			l i	
Union of South	1923	82	26.6				
Africa (Whites)	!			<u> </u>			

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

INFANTILE MORTALITY RATES (a).-VARIOUS CITIES.

City.	Year.	Rate of Infantile Mortality.	City.		Year.	Rate of Infantile Mortality (a)
Amsterdam	. 1923	39	Liverpool		1923	98
A 3 3 3	. 1923	44	Belfast		1923	101
Ob add the said	. 1923	46	Aberdeen		1923	104
117 allian and ann	. 1923	47	Hamburg		1923	104
Ctaal-halm	. 1923	50	Dresden	[1923	105
72	. 1916	55	Monte Video		1916	111
D	. 1915	56	Dublin		1923	111
D. J. L.	. 1923	58	Genoa		1916	126
T 3	1923	60	Prague		1922	131
Donth	. 1923	61	Leipzig	1	1923	134
C	. 1923	63	Munich		1923	143
OL =: -4.1b 1	. 1923	66	Berlin		1923	144
TT - L - 4	. 1923	66	Chicago		1916	145
A 7 1 11	1923	67	Cologne		1923	147
37 32 0 477	. 1923	68	Warsaw		1923	147
0 1	. 1923	68	Vienna		1922	149
D:	. 1923	71	Lodz		1922	156
37-11	. 1923	71	Marseilles]	1916	157
0	. 1 1916	73	Breslau		1923	171
X7 X7 1	. 1922	74	Rio de Janeiro	[1912	174
T3 31 1 1	. 1923	82	·Madrid		1915	177
A 1	. 1923	83	Buda Pest]	1920	184
Manalantan	. 1923	85	Florence		1916	192
W .1	. 1919	85	Montreal		1911	242
(1)	. 1923	90	Petrograd	!	1912	249
The state of the s	. 1923	90	Madras	·	1923	253
Toronto	1917	92	Bombay		1922	402
Daraman Aires	. 1916	94	=			

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

Information relative to the causes of death of children under one year of age will be found in sub-section 18.

7. Deaths in Age-Groups, 1919 to 1923.—A distribution into age-groups has been made of the 283,842 deaths which occurred in Australia from 1919 to 1923, and the results have been tabulated for each State. It is, however, sufficient to show here the results for Australia as a whole, which are as follows:—

DEATHS	IN	AGE	GROUPS -	-AUSTRALIA.	1010	TO	1023
DEALUS	117	AUL	dicoors.	-7031174	1717	10	1740.

Age-Group.	Males.	Females.	Total.	Percentage on Total Males.	Percentage on Total Females.	Percentage on Total.
Under 1 year	24,195 8,453	18,087 7,038	42,282 15,491	15.01 5.24	14.75 5.74	$14.90 \\ 5.46$
1 year and under 5	8,176	6,757	14,933	5.07	5.74	$\begin{array}{c} 5.40 \\ 5.26 \end{array}$
20 years and under 40	21,709	19,543	41,252	13.47	15.94	14.53
40 years and under 60	35,673	22,994	58,667	22.13	18.75	20.67
60 years and under 65	13,284	7,978	21,262	8.24	6.50	7.49
65 years and over	49,366	40,177	89,543	30.62	32.76	31.55
Age unspecified	348	64	412	0.22	0.05	0.14
Total	161,204	122,638	283,842	100.00	100.00	100.00

8. Deaths at Single Ages and in Age-Groups, 1923.—(i) General. The 56,236 deaths registered in Australia in the year 1923 will be found tabulated under single years, and in groups of five years for each State and Territory, in Bulletin No. 41, "Australian Demography, 1923." The deaths during the first two years of life have been tabulated in shorter periods. A summary for Australia is given in the following table:—

DEATHS AT SINGLE AGES AND IN AGE-GROUPS.—AUSTRALIA, 1923.

Ages.	Males.	Females.	Total.	Ages.	Males.	Females.	Total.
Total under 1 month " 1 month and under 3 " 3 months and under 6 " 6 months and under 12	2,349 887 627 754	1,798 611 514 644	4,147 1,498 1,141 1,398	Total 20-24 years ,, 25-29 ,, ,, 30-34 ,, ,, 35-39 ,, ,, 40-44 ,,	691 774 894 1,100 1,303	663 829 904 1,046 910	1,354 1,603 1,798 2,146 2,213
Total under 1 year	4,617	3,567	8,184	,, 45-49 ,, ,, 50-54 ,, ,, 55-59 ,,	1,438 1,814 2,308 2,821	1,018 1,213 1,425 1,752	2,456 3,027 3,733 4,573
1 year and under 2 2 years 4 ,,	819 324 205 151	632 268 152 125	1,451 592 357 276	", 65–69 ", ", 70–74 ", ", 75–79 ", ", 80–84 ",	2,924 2,429 2,216 1,759 1,000	1,866 1,717 2,008 1,620 1,099 399	4,790 4,146 4,224 3,379 2,099 742
Total under 5 years	6,116	4,744	10,860	,, 95-99 ,, ,, 95-99 ,, ,, 100 and over Age Unspecified	87 13 76	119 12 12	206 25 88
Total 5-9 years, 10-14 ,,	528 414 574	425 364 469	953 778 1,043	Total All Ages	31,622	24,614	56,236

⁽ii) Rates. The following tables give the death rate per 1,000 living at each age for the three years 1920, 1921, and 1922, viz., the Census year 1921, and the years immediately preceding and following. The Northern Territory is included with South Australia, and the Federal Capital Territory with New South Wales:—

CHAPTER XXV.—VITAL STATISTICS.

AVERAGE ANNUAL DEATH RATES.-AGE-GROUPS, 1920 TO 1922.

AVEKAUE	AIN	NUAL D	EATH K	A I ES.—A	OE-UKUL	JPS, 1920	10 197	<i></i>
Age-Group.		N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
			Ŋ	TALES.		•		
0 to 4 years		21.49	22.61	20.73	20.01	23.88	20.72	21.64
5 ,, 9 ,,		1.85	2.15	1.96	2.25	2.24	2.04	2.02
10 ,, 14 ,,		1.59	1.61	1.58	1.56	1.42	1.83	1.59
15 ,, 19 ,,		. 2.16	2.07	2.90	2.42	2.37	2.66	2.30
20 ,, 24 ,,		2.74	3.06	3.54	3.33	3.96	3.23	3.10
25 ,, 29 ,,		3.36	3.60	4.37	3.64	4.08	5.05	3.70
30 ,, 34 ,,		4.13	3.70	4.58	4.00	5.40	4.59	4.16
35 ,, 39 ,,		5.36	5.32	5.95	5.18	6.42	4.79	5.48
40 ,, 44 ,,		7.85	6.60	7.86	6.20	7.90	5.98	6.89
45 ,, 49 ,,		9.61	9.80	10.60	8.81	12.09	8.71	9.91
50 ,, 54 ,,		12.38	12.24	14.23	11.76	17.18	11.51	12.90
55 ,, 59 ,,		18.72	18.24	20.34	19.70	23.76	13.44	19.04
60 ,, 64 ,,		28.35	28.48	30.36	25.63	34.19	23.95	28.71
65 69 ,,		43.00	44.38	44.93	42.31	49.51	38.53	43.74
70 ,, 74 ,,	• •	65.81	65.16	64.56	62.01	72.15	53.55	64.88
75 ,, 79 ,,	• •	105.54	107.84	103.32	106.23	115.56	109.46	106.53
80 ,, 84 ,,	• •	159.12	163.74	159.06	161.73	184.49	132.47	160.73
85 ,, 89 ,,	• •	271.79	266.12	227.79	226.87	283.46	232.39	259.17
90 and over	<u> </u>	368.58	387.01	314.96	387.09	566.67	350.00	376.08
-			Fr	MALES.				
0 to 4 years		16.92	17.91	16.05	16.25	18.80	16.74	17.09
5 ,, 9 ,,		1.66	1.95	1.89	2.27	1.28	2.09	1.82
10 ,, 14 ,,		1.21	1.20	1.43	1.34	1.23	1.63	1.27
15 ,, 19 ,,		1.63	2.00	1.99	2.72	1.34	2.58	1.90
20 ,, 24 ,,		2.43	2.92	2.81	2.85	3.07	3.74	2.75
25 ,, 29 ,,		3.47	3.55	3.61	3.85	3.99	3.87	3.59
30 ,, 34 ,,		3.85	4.13	4.11	4.21	4.60	4.41	4.06
35 ,, 39 ,,		4.64	4.98	5.80	5.18	4.90	5.98	5.00
40 ,, 44 ,,		5.15	5.74	6.03	4.98	6.39	5.48	5.51
45 ,, 49 ,,		6.71	6.91	6.76	6.40	8.12	7.31	6.87
50 ,, 54 ,,		9.35	9.11	9.11	9.10	10.62	8.61	
55 ,, 59 ,,		13.17	12.87	13.60	10.85	12.81	14.23	12.92
60 ,, 64 ,,		19.08	19.06	19.71	18.27	17.78	20.13	19.05
65 ,, 69 ,,	٠.	31.59	31.69	30.81	32.89	30.49	34.72	31.76
70 ,, 74 ,,		50.24	51.83	50.61	45.65	54.20	49.42	50.43
75 ,, 79 ,,	• •	88.19	88.52	88.10	83.98	96.43	80.32	87.81
80 ,, 84 ,,	• •	140.29	143.71	126.40	132.25	137.07	126.00	138.32
85 ,, 89 ,,	• •	225.11	231.45	210.65	193.54	219.51	208.79	221.44
90 and over	_··-	380.95	321.79	288.89	337.50	478.26	352.94	341.68
			Pı	RSONS.				
0 to 4 years	٠.	19.24	20.30	18.45	18.17	21.39	18.75	19.40
5 ,, 9 ,,		1.76	2.05	1.93	2.26	1.76	2.07	1.92
10 ,, 14 ,,		1.40	1.40	1.51	1.45	1.33	1.73	1.43
15 ,, 19 ,,		1.90	2.03	2.45	2.57	1.86	2.62	2.10
20 ,, 24 ,,		2.58	2.99	3.17	3.09	3.52	3.49	2.92
25 ,, 29 ,,		3.42	3.57	4.00	3.75	4.03	4.43	3.64
30 ,, 34 ,,		3.99	3.92	4.37	4.10	5.03	4.50	4.11
35 ,, 39 ,,		5.03	5.14	5.88	5.18	5.72	5.39	5.24
40 ,, 44 ,,	٠.	5.99	6.16	7.04	5.60	7.23	5.73	6.22
45 ,, 49 ,,		8.21	8.30	8.89	7.62	10.41	8.04	8.44
50 ,, 54 ,,	• •	10.97	10.67	12.04	10.46	14.58	10.16	11.20
55 ,, 59 ,,	• •	16.19	15.60	17.57	15.32	19.61	13.80	16.22
60 ,, 64 ,,	• •	24.11	23.93	25.99	22.13	27.90	22.13	24.22
65 ,, 69 ,,		37.81	37.90	39.23	37.80	41.71	36.73	38.17
70 ,, 74 ,,	• •	58.34	58.09	58.64	53.85	64.31	51.54	57.82
75 ,, 79 ,,	• •	97.02	97.07	96.41	94.82	106.68	93.60	96.98
80 ,, 84 ,,	• •	149.75	152.49	144.74	145.42	162.58	128.81	149.09
85 ,, 89 ,,	• •	248.05	246.87	219.48	206.49	252.00	219.14	238.91
90 and over	• •	374.81	349.09	304.15	355.73	528.30	351.64	357.36

The tables show a high death rate for children under five years of age, but it rapidly diminishes until, at ages 10 to 14, the rate is 1.43 per 1,000, which is the lowest at any age. The rate thereafter gradually rises with increasing age until, at the ages 90 and over, more than one-third die every year.

9. Deaths of Centenarians, 1923.—Particulars concerning the twenty-five persons who died in 1923 aged 100 years and upwards, are given in the following table. It must, of course, be understood that while the Registrars-General of the various States take the greatest care to have statements as to abnormally high ages verified as far as possible, absolute reliance cannot be placed on the accuracy of the ages shown, owing to the well-known tendency of very old people to overstate their ages. No attempt has been made by the Commonwealth Bureau of Census and Statistics to verify the truth of the statements made. The fact must not be disregarded in connexion with this question that while parish registers in the United Kingdom often date very far back, compulsory registration of births dates practically only from 1874, the Act passed in 1836 having left many loop-holes open for those unwilling to register the births of their children.

DEATHS OF CENTENARIANS.-AUSTRALIA, 1923.

Age.	Locality where Death occurred.	State.	Cause of Death.	Occupation.	Birthplace.	Length of Residence in Australia.	Conjugal Condition.
•			М	ALES.			
109	Ballarat	Victoria	Senility	Cloth finisher	England	Unspecified	Unspecified
103 103	Paterson Carcoar	N.S.W	Aortic Re- gurgitation	Farmer Labourer	n.s.̈w. ∷	88 years Native	Married Unspecified
102 102 102	Liverpool Tarnagulla Creswick	Victoria	Schility Burns Senility	Unspecified Farmer	Ireland England Ireland	68 years	Single Married
102	Pt. Adelaide	S. Australia	Sarcoma of neck	Labourer	England	74 ,,	"
101 100 100	Brisbane Brewarrina Marrickville	Queensland N.S.W	Senility Asthma Acute Bron- chitis	Miner Labourer Unspecified	Ireland China Greece	Unspecified 68 ,	Single Married
100 100 100	Tenterfield Cheltenham Kew	Victoria	Senility Ulceration of Bowel	Miner Bricklayer Gentleman	Canary Is. England , ,	80 ,, 38 ,, 73 ,,	Unspecified Married "
'		<u> </u>	FE	MALES.			
105	Cheltenham	Victoria	Senility		England	66 years	Married
104 103	Merriwa Hobart	N.S.W. Tasmania	Accidental Fall		Ireland	66 Unspecified	"
102 102	Waverley Ballarat	N.S.W Victoria	Senility Broncho-	· ·	Scotland England	40 years	,,
101 101	Corowa Dalby	N.S.W Queensland	Pneumonia Senility	• • •	Ireland	72 ,, 67 ,,	,,
101 101	Hobart Launceston	Tasmania ,,	Hypostatic Pneumonia	::	England Ireland	63 ,,	;, ;,
100 100 100	Ballarat Richmond Adelaide	Victoria S. Australia	Senility	::	Germany	76 52 84	"
			,,			84 ,,	,,

^{10.} Length of Residence in Australia of Persons who Died in 1923.—The length of residence in Australia of all persons whose deaths were registered in the year 1923 has been tabulated for all the States, and a summary of the results is shown below:—

LENGTH OF RESIDENCE IN AUSTRALIA OF PERSONS WHO DIED IN 1923.

Length of Residence.	Male Deaths.	Female Deaths.	Total Deaths.	Length of Residence.	Male Deaths.	Female Deaths.	
Born in Australia Resident under 1 year , 1 year , 2 years , 3 , 4 ,	29	16,762 52 39 56 56 34 12 11 19 32 71 4:6 123	36,537 174 110 122 109 66 31 30 48 74 154	Resident 25 to 29 years ,, 30 to 34 ,, ,, 35 to 39 ,, ,, 40 to 44 ,, ,, 50 to 54 ,, ,, 50 to 54 ,, ,, 65 yrs, and over Length of residence not stated	395 678 950 1,405 753 794 603 947 1,719	151 317 612 653 474 536 552 908 1,985	548 995 1,562 2,058 1,227 1,330 1,155 1,855 3,704 2,395
,, 13 to 19 ,, ,, 20 to 24 ,,	319	134	453	Total	31,622	24,614	56,236

11. Birthplaces of Persons who Died in 1923.—The following table gives the birthplaces of persons whose deaths were registered in 1923. Full particulars will be found in "Australian Demography," Bulletin No. 41.

BIRTHPLACES OF PERSONS WHO DIED IN 1923.-AUSTRALIA.

		,					,	
Birthplace.		Males.	Females.	Persons.	Birthplace.	Males.	Females.	Persons.
AUSTRALASIA					ASIA-			
New South W		7,483	6,365	13,848	British India and			
Victoria	••	6.413	5,375	11,788	Ceylon	105	25	130
Queensland		2,088	1,747	3,835		•		
South Austral	ia	2,018	1,744	3,762	sions in Asia	12	1	13
Western Austr	ralia	579	459	1,038	China	258	2	260
Tasmania		1,191	1.069	2,260	Japan	32	1	33
Northern Terr	itory	3	3	6	Other Asiatic			
Papua and T					Countries	39	9	48
fory of	New	}	}	1	i	1		
Guinea		6		6	AFRICA—			
					Union of Sth. Africa	20	9	29
New Zealand		218	117	335	Other Brit. Posses-			
		1]		sions in Africa	14	8	22
					Other African			
					Countries	2		2
_		ļ	!	[l .			
EUROPE—			1		AMERICA-			
England		5,195	3,622	8,817	Canada	37	21	58
Wales		194	119	313	Other Brit. Posses-			
Scotland		1,395	991	2,386	sions in America	14	6	20
Ireland		2,179	2,176	4,355	United States of			
Other Brit. Pos		ļ			America	93	32	125
sions in Eur	ope	38	21	59	Other American			
Austria		26	2	28	Countries	15	12	. 27
Denmark		117	23	140				
France		44	11	55				
Germany	• •	510	286	796	British Posses-			
Greece		33	2	35		8	3	11
Italy	• •	96	25	121	Other Polynesian			
Netherlands	• •	14	2	16	Islands	51	6	57
Norway		66	15	81	4. ~			
Russia		41	13	54	At Sea	73	56	129
Sweden	• •	121	8	129				
Switzerland	• •	38	13	51	Unspecified	633	185	818
Other Europ	pean	٠.,			m			
Countries		110	30	140	Total Deaths	31,622	24,614	56,236

12. Occupations of Males who Died in 1923.—(i) Australia, 1923. Information as to the occupations of the 31,622 males who died in Australia in 1923 is contained in the following statement:—

OCCUPATIONS OF MALES WHO DIED IN 1923.—AUSTRALIA.

Occupations of	1	No. of Deaths.	Occupation	No. of
Occupation.		Deaths.	Occupation.	Deaths.
CLASS I.—PROFESSIONAL.			CLASS III.—COMMERCIAL—cont.	
General Government		180	Hay, corn, etc	24
Local Government		15	Other vegetable matter	12
Defence		115	Wood and coal	30
Law and order		238	Stone, clay, glass	2
Religion		117	Gold, silver and precious stones	1
Health		201	Ironmongery	$2\overline{6}$
Literature		57	Ironmongery	129
Science	• •	9	Shopkeepers and assistants	232
Civil and mechanical engineer	ring.		Dealers and hawkers	126
architecture and surveying		91	Agents and brokers	135
Education	• • •	128	Clerks, bookkeepers, etc.	669
Fine arts	• • •	32	Commercial travellers and salesmen	240
Music	•• ;	52	Others engaged in commercial	
	••	104		211
Amusements	• •	104	pursuits Speculators on chance events	11
Total Professional		1,339	Speculators on chance events	
Total Professional	••	1,000	Total Commercial	2,914
		·	Total Commercial	
CLASS II.—Domestic.			G 777 M	
Hotelkeepers and assistants		394	CLASS IV TRANSPORT AND	
Others engaged in providing bo	ard	1	COMMUNICATION.	
		77	Railway traffic	554
and lodging House servants	• • •	6		70
Coachmen and grooms	• •	46	Road traffic	633
Hairdraceare	• • •		Sea and river traffic	533
Hairdressers Laundrymen	• •	8	Postal sarvina	89
Others engaged in domestic or			Telegraph and telephone service	40
pations	Jou-	206		12
pations	• •	200	Messengers, etc	
Total Domestic		803	Aviacion	
Total Domestic	• •	803	Total Transport and Commu-	
			nication	1,931
CLASS III.—COMMERCIAL.	•			_
Banking and finance		103	CLASS V.—INDUSTRIAL.	
Insurance and valuation		97	CLASS V.—INDUSTRIAL.	
Land and household property		62	Books and publications	142
Property rights, n.e.i		2	Musical instruments	13
Books, publications and advert	ising	48	Prints, pictures and art materials	16
Prints, pictures, and art materi		1	Ornaments and small wares	21
Ornaments and small wares		î	Sports and games	2
Watches, clocks, jewellery		1	Designs, medals, type and dies	5
Arms and ammunition		î	Watches and clocks	33
Carriages and vehicles	• •		Arms and ammunition	8
Harness and saddlery	• • •	1	Engines, machines, tools, etc	164
Ships and boats			Carriages and vehicles	153
Ships and boats Building materials		16	Harness, saddlery and leatherware	117
Furniture		1	Ships, boats and equipment	60
Paper and stationery	• •	12	Furniture	101
Textile fabrics		100	Building materials	92
Dress		150	Chemicals and by-products	5
Kibrona materiale		2	Textile fabrics	38
Animal food Vegetable food		295	Dress	427
Vegetable food	••	295 85	770	6
Groceries and stimulants	• •	145	Animal food	28
Living animals	• •	43	Animal food	235
Leather, raw materials	• •	43	V Cgottabio rood	67
Wool and tallow	••	10	I	54
TOOL AND LANDW	••••	10	Animal matter	- 34

OCCUPATIONS OF MALES WHO DIED IN 1923.—AUSTRALIA—continued.

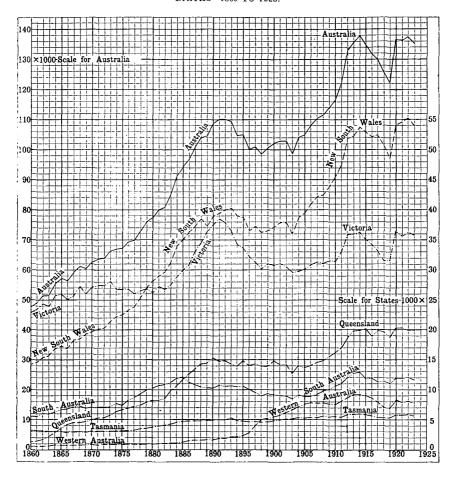
Occupation.	No. of Deaths.	Occupation.	No. of Deaths.
CLASS V.—INDUSTRIAL—cont.		CLASS VI.—AGRICULTURAL, PAS- TORAL, MINING PURSUITS, ETC.	:
Workers in wood not elsewher		A	3,408
classed	. 20	Agricultural	856
Vegetable produce for fodder .	1		64
Paper		Dairy farming	105
Stone, clay, glass		Bees, fisheries and wild animals	93
Jewellery and precious stones .		Forestry	17
Metals, other than gold and silve		Water conservation and supply	
Gas, electric lighting, etc	. 76	Mines and quarries	1,359
Building—	100	m . 1 To . 1	= 000
Builders		Total Primary Producers	5,902
Stonemasons			
Bricklayers	1 1	CLASS VII.—INDEFINITE.	i
Slaters			i
Carpenters		Independent means, having no	, ••••
Plasterers		specific occupation	594
Painters and glaziers .		Occupation unspecified	1,272
Plumbers		<u> </u>	
Signwriters		Total Indefinite	1,866
Others			
Roads, railways and earthworks	49	CLASS VIII.—DEPENDENTS.	
Disposal of the dead		OLASS VIII.—DEFENDENTS.	
Disposal of refuse	. 36	Dependent relatives (including per-	
Other industrial workers—	1	sons under 20 years of age with	
Manufacturers	. 73	no specified occupation)	7,244
Engineers, firemen	. 471	Supported by voluntary and State	
Contractors	. 244	contributions	114
Labourers, undefined .	. 4,814	i	
Others	. 44	Total Dependents	7,358
Total Industrial	. 9,509	Total Male Deaths	31,622

⁽ii) Australia, 1919 to 1923. The male deaths in Australia grouped according to the main classes of occupations, and the percentage of each class on the total male deaths for the five years 1919 to 1923, are shown in the table hereunder:—

OCCUPATIONS OF MALES WHO DIED IN AUSTRALIA, 1919 TO 1923.

Occupat	ion		1919.	1920.	1921.	1922.	1923.
· · · ·				1020.			
Class J. Professional		(Total	1,944	1,391	1,307	1,317	1,339
1. Froiessional	• •	(Per cent. (Total	5.17 $1,059$	4.34 739	4.26 830	$\frac{4.50}{745}$	$\frac{4.23}{803}$
II. Domestic	• •	Per cent.	2.81	2.30	2.71	2.55	2.54
III. Commercial		$ \begin{cases} \text{Total} \\ \text{Per cent.} \end{cases} $	$\frac{3,694}{9.82}$	$2,814 \\ 8.78$	$2,739 \\ 8.94$	$\substack{2,871\\9.82}$	2,914 9.22
IV. Transport and munication	com-	Total Per cent.	2,706 7.19	1,910 5.96	1,841 6.01	1,842 6.30	1,931 6.11
V. Industrial	• • •	Total Per cent.	11,397 30.29	8,849 27.61	8,613 28.10	8,592 29.38	9,509 30.07
VI. Agricultural, toral Mining	Pas-	{ Total Per cent.	6,966 18.51	5,786 18.05	$5,711 \\ 18.63$	5,664 19.37	5,902 18.66
VII. Indefinite		Total Per cent.	$1,529 \\ 4.06$	1,595 4.98	$1,436 \\ 4.68$	1,378 4.71	1,866 5.90
VIII. Dependents		{ Total { Per cent.	$8,337 \\ 22.15$	8,969 27 .98	$8,\!175$ 26.67	6,836 23.37	$7,358 \\ 23.27$
Total			37,632	32,053	30,652	29,245	31,622

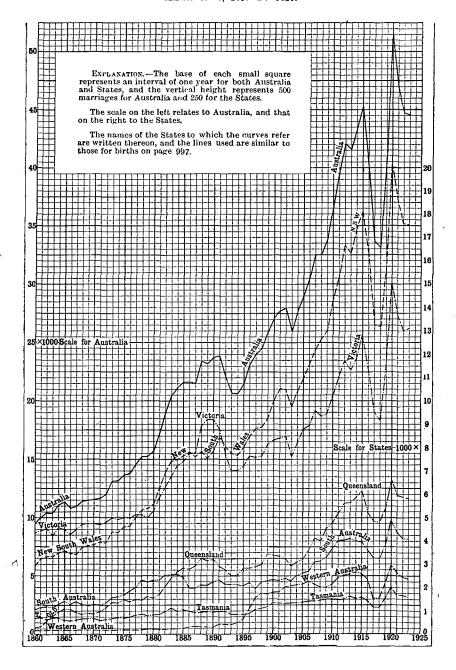
BIRTHS-1860 TO 1923.



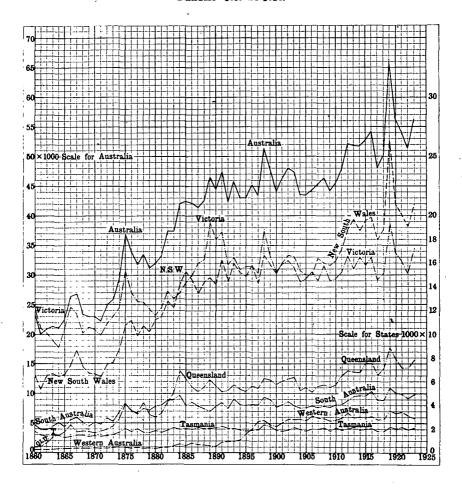
EXPLANATION.—The base of each small square represents an interval of one year for both Australia and States, and the vertical height represents 2,000 persons for Australia and 1,000 for the States.

The scale on the left relates to Australia and that on the right to the States.

MARRIAGES, 1860 TO 1923.



DEATHS-1860 TO 1923.

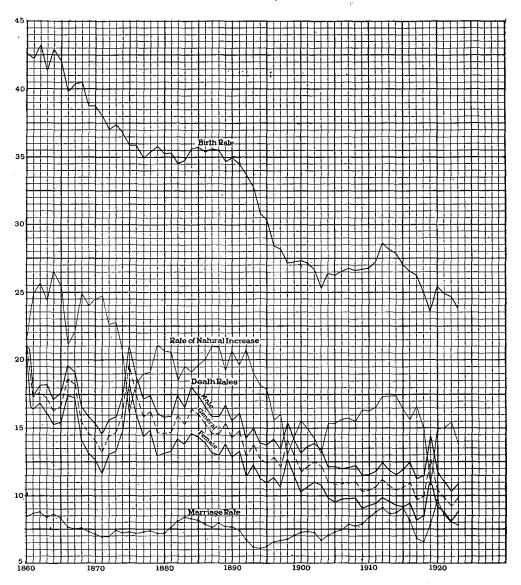


EXPLANATION.—The base of each small square represents an interval of one year for both Australia and States, and the vertical height represents 1,000 persons for Australia and 500 for the States.

The scale on the left relates to Australia, and that on the right to the States.

The names of the States to which the curves refer are written thereon, and the lines used are similar to those for births on page 997.

GENERAL BIRTH, NATURAL INCREASE, DEATH (MALE, GENERAL AND FEMALE) AND MARRIAGE RATES-AUSTRALIA, 1860 TO 1923.



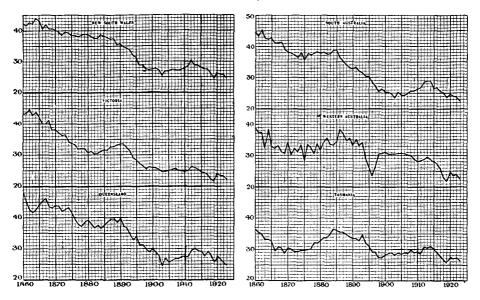
EXPLANATION.—The base of each small square represents one year's interval, and the vertical height one half per thousand of the population—the basic line being five per thousand of the population.

EXPLANATION.—The base of each small square represents one year's interval, and the vertical height one birth per thousand of the population—the basic line for each State being twenty per thousand of the population.

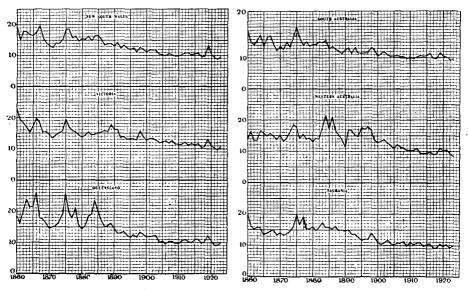
STATE DEATH-RATE GRAPHS. (See next page.)

EXPLANATION.—The base of each small square represents one year's interval, and the vertical height one death per thousand of the population. The zero for each State is shown by a thickened line.

BIRTH RATES-STATES, 1860 TO 1923.



DEATH RATES-STATES, 1860-1923.



For explanation of above graphs see page 1000.

13. Index of Mortality.—(i) For Year 1923. The death rates—those for age-groups on page 992 excepted—so far quoted 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 lower 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 age constitution is concerned, the International Statistical Institute in its 1895 session recommended the universal adoption of the population of Sweden in five age-groups, as ascertained at the Census of 1890, as the standard population by which the "Index of Mortality," as distinguished from the crude death rate, should be ascertained. The calculation for 1923 is shown below for each of the States and Territories and for Australia, the distribution of the mean population of 1923 into age-groups being in accordance with the Census of 1921:—

INDEX OF MORTALITY, 1923.

Age-Group.	Mean Population, 1923, distributed according to Results of Census of 1921.	Number of Deaths, 1923.	No. of Deaths per 1,000 of Mean Population, 1923, in each Age-Group.	Age Distribution per 1,000 of Standard Population.	Index of Mortality
NEW SOUTH WALES.					
1 year and under 20 20 years ,, 40 40 ,, ,, 60	717,691	3,277 2,170 2,580 4,142 8,879	58.97 2.59 3.59 9.83 55.84	25.5 398.0 269.6 192.3 114.6	1.50 1.03 0.97 1.89 6.40
Total	. 2,190,410	21,048	9.61	1,000.0	11.79
Victoria.			·		
Under 1 year 1 year and under 20 20 years ,, 40 40 ,, 60 60 ,, and upwards	. 580,292 . 514,597 . 342,948	2,356 1,479 1,952 3,561 7,871	64.32 2.55 3.79 10.38 59.04	25.5 398.0 269.6 192.3 114.6	1.64 1.01 1.02 2.00 6.77
Total	1,607,778	17,219	10.71	1,000.0	12.44
Queensland.					-
Under 1 year 1 year and under 20	. 316,134 . 262,664 . 147,993	1,078 890 1,153 1,581 3,191	50.00 2.82 4.39 10.68 58.66	25.5 398.0 269.6 192.3 114.6	1.28 1.12 1.18 2.05 6.72
Total	802,748	7,893	9.83	1,000.0	12.35
South Australia,					
Under 1 year 1 year and under 20 20 years ,, 40 40 60 60 60	. 194,960 . 168,156 . 99,038	705 436 578 941 2,301	57.45 2.24 3.44 9.50 53.49	25.5 398.0 269.6 192.3 114.6	1.46 0.89 0.93 1.83 6.13
Total	517,445	4,961	9.59	1,000.0	11.24

INDEX OF MORTALITY, 1923-continued.

INDE	X OF MOI	CTALITY, 192	3—continued	·	
Age-Group.	Mean Pop tion, 192 distribut according Results Census of 1	of Number of Deaths, 1923.	No. of Deaths per 1,000 of Mean Population, 1923, in each Age-Group.	Age Distribution per 1,000 of Standard Population.	Index of Mortality.
WESTERN AUSTRALIA.		_			
	0.10			97.5	1 00
	8,16 136,37		54.17 2.02	25.5 396.0	$\frac{1.38}{.80}$
20 years ,, 40	. 102,72	3 385	3.75	269.6	1.01
	80,31		10.20 48.74	$192.3 \\ 114.6$	$\frac{1.96}{5.59}$
60 ,, and upwards	20,70		40.74		5.00
Total	. 348,27	2,930	8.41	1,000.0	10.74
TASMANIA.					
Under 1 year	5,68	325	57.21	25.5	1.46
1 year and under 20	. 88,54	5 206	2.33	398.0	. 93
40	. 64,40	8 262 8 387	4.07 9.77	$269.6 \\ 192.3$	$^{1.10}_{1.88}$
and unwands	17,06		56.08	114.6	6.43
Total	. 215,32	7 2,137	9.92	1,000.0	11.80
NORTHERN TERRITORY.					
Under 1 year		6 1	13.16	25.5	. 34
1 year and under 20	. 89	3	3.36	398.0	1.34
	1,17 1,04		1.70 13.36	$269.6 \\ 192.3$	$\begin{array}{l} \cdot 46 \\ 2 \cdot 57 \end{array}$
00 " 3	. 41		43.48	114.6	4.98
m-4-1			10.50	1 000 0	0.40
Total	3,61	0 38	10.53	1,000.0	9.69
FEDERAL CAPITAL TERRITORY	. -	· ·		!	
Under 1 year	. 8	n		25.5	
1 year and under 20	. 1,35	4		398.0	
40	1,15		1.74 12.54	$269.6 \\ 192.3$	$\frac{.47}{2.41}$
40 " and unusada	. 55 . 17		5.78	114.6	- 66
Total	. 3,31	.5 10	3.02	1,000 · 0	3 · 54
	}				
A USTRALIA.	1				
	140,03	8,184	58.44	25.5	1.49
00	2,155,17 1,832,56		2 · 53 3 · 77	398.0 269.6	$\substack{1.01\\1.02}$
40 ,, ,, 60	1,133,03	37 11,452	10.11	192.3	1.94
60 ,, and upwards	428,09	06 24,227	56-59	114.6	6.49
Total	5,688,90	56,236	9.89	1,000.0	11.95

Note.—The small number of persons whose ages were not ascertained at the 1921 Census has been proportionately distributed among the various age-groups, and the same plan has been followed in regard to the 88 persons who died in 1923, and those whose ages were not stated in the certificate of death.

Under the adjusted index the only change in the positions of the States is that Tasmania takes fourth place from Queensland, though the range of difference throughout as compared with the crude rates is somewhat reduced. On the basis of the crude rates there is a range of 2.30 per 1,000 persons between the lowest rate in Western Australia (8.41) and the highest rate in Victoria (10.71), whereas the adjusted rates reduce the range to 1.70 yer 1,000, i.e. between 10.74 in Western Australia and 12.44 in Victoria.

(ii) Years 1919 to 1923. For purposes of comparison with previous years the index of mortality is shown in the following table for each of the five years 1919 to 1923:—

INDEX OF .	MORTALITY.	1919	TO	1923.
------------	------------	------	----	-------

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Northern Territory.	Federal Capital Territory.	Aus- tralia.
1919 1920 1921 1922	16.48 13.32 12.27 10.91 11.79	15.51 13.72 12.85 11.20 12.44	15.97 14.36 12.30 11.38 12.35	14.59 13.49 12.47 10.62 11.24	15.50 15.63 15.60 11.80 10.74	13.29 12.28 13.16 10.88 11.80	17.42 18.27 22.38 13.93 9.69	8.76 3.20 2.15 2.91 3.54	15.75 13.65 12.66 11.10 11.95

- 14. 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 1909 and 1920. The detailed classification groups causes of death under 205 different headings in fifteen categories, as follows:
 - i. Epidemic, Endemic, and Infectious Diseases.
 - ii. General Diseases not included in (i).
- iii. Diseases of the Nervous System and Organs of Sense.
- iv. Diseases of the Circulatory System.
- v. Diseases of the Respiratory System.
- vi. Diseases of the Digestive System.
- vii. Diseases of the Genito-urinary System and Adnexa.

- viii. Puerperal Condition.
 - ix. Diseases of the Skin and Cellular Tissue.
 - x. Diseases of the Organs of Locomotion.
 - xi. Malformations.
- xii. Early Infancy.
- xiii. Old Age.
- xiv. External Causes.
- xv. Ill-defined Diseases.
- (ii) Compilation of Vital Statistics for 1907 and Subsequent Years in Commonwealth Bureau. The vital statistics of Australia from the year 1907 onward have been tabulated according to this classification in the Commonwealth Bureau, and the system is being employed in all the State offices in the preparation of their monthly and quarterly bulletins of vital statistics.
- (iii) Classification of Causes of Death, 1919 to 1923, according to Abridged International Classification. An abridged classification which enumerates thirty-eight diseases and groups of diseases according to the revised classification, is in use in many European and American States, while the Australian statistics have been compiled on the detailed classification. A table has been prepared showing the causes of death according to the abridged classification, so that the results may be compared with those of countries which use the abridged index.

The compilations for the years 1919 to 1923 will be found in full in Bulletins Nos. 37 to 41 of "Australian Demography"; here it will suffice to give the abridged classification under thirty-eight headings for the year 1923.

CAUSES OF DEATH .- MALES, 1923.

- VAC	JOLO U	r ,DLA		IIALLIO,	1720.				
Cause.	N.S.W.	Vic.	Q'land.	S. Aus.	W. Aus.	Tas.	Nor. Ter.	Fed. Cap. Ter.	
l Typhoid Fever	52	28	33	5	10	8		-	136
2 Typhus	1			1	٠				1
3 Malaria	3	2	11	1	1	٠	1		19
4 Small-pox								1	
õ Measles	69	49	5		1	3			127
6 Scarlatina	5	14	2	4		1		i	26
7 Whooping Cough	37	7	5	5	4				. 58
8 Diphtheria and Croup	106	46	20	23	10	17			222
9 Influenza	78	49	71	13	8	5		!	224
9a Pneumonic Influenza	133	132	106	11	9	10		1	402
10 Asiatic Cholera									
11 Cholera Nostras		2		۱	١	1	1		3
12 Other Epidemic Diseases	49	45	33	15	6	4			152
13 Tuberculosis of the	10	10		1] ,]	1	. 102
Respiratory System	651	574	237	189	150	60	5		1,866
14 Tuberculosis of the Men-	1 001	01.	, 20,	100	100	00			1,000
inges	29	35	4	8	2	6	l		84
15 Other forms of Tuber-	25	30	T	0	-	U		i	09
culosis	39	38	5	12	6	7	ļ	i	107
	99	30		12	0	•			107
16 Cancer and other Malig-	000	mc4	200	054	101	00	2	ļ	0.000
nant Tumours	962	764	398	254	161	88			2,629
17 Meningitis	118	91	34	15	18	11			287
18 Hæmorrhage, Embolism,		200	150	1	0.4			1	
and Softening of Brain	557	398	179	151	84	59			1,428
19 Organic Diseases of the			0=4					١,	
Heart	959	828	374	242	170	132	• •	1	2,706
20 Acute Bronchitis	85	41	25	18	7	9	· :	••	185
21 Chronic Bronchitis	164	163	71	55	21	10	1	l •:	485
22 Pneumonia	649	472	199	128	86	66	1	1	1,602
23_Other Diseases of the	1								
Respiratory System)				!				
(Tuberculosis excptd.)	565	633	244	119	110	52	1	2	1,726
24 Diseases of the Stomach	1								
(Cancer excepted)	102	84	39	28	20	11			284
25 Diarrhœa and Enteritis								ŀ	
(children under 2								ŀ	
years only)	581	323	183	120	74	18			1,299
26 Appendicitis & Typhlitis	115	59	36	11	13	11		i	245
27 Hernia, Intestinal Ob-	1								
struction	107	76	39	25	25	13	1		286
28 Cirrhosis of the Liver	53	55	37	17	11	5	i		178
29 Nephritis and Bright's	1	1							
Disease	537	460	204	130	69	31			1,431
30 Non-cancerous Tumours			i				İ		•
and other Diseases of		ļ	f						٠.
Female Genital Organs	i			i			٠.		
31 Puerperal Septicæmia	1			1	'				• • •
(Puerperal Fever,				i	[:		ļ		
Puerperal Peritonitis,	1	1			}		!	1	
Puerperal Phlebitis)	-	!		i	í i			i,	
32 Other Puerperal Acci-		٠.	••	١	!	• •		٠.,	
dents of Pregnancy	ļ			1	}				
and Confinement	1			i .	:				
33 Congenital Debility and				1		• • •		• •	••
Malformations	912	676	307	189	119	100		!	2,303
34 Senile Debility	1,017	618	382	229	124	88	10		2,468
OF 371 1		544	388		148		3	'n	2,080
36 Suicide	770 180	106	88	155 50	51	$\begin{array}{c} 71 \\ 14 \end{array}$	3		492
OF 0.1 TO	2,114	1,607	900		347	214	2	4	5,631
37 Other Diseases 38 Unspecified or Ill-defined	2,114	1,007	900	443	041	214		*	0,001
n†	171	116	40	61	42	15	5		450
	i								
TotalMales	11,969	9,135	4,699	2,727	1,907	1,140	35	10	31,622

CAUSES OF DEATH .- FEMALES, 1923.

	Cause.	N.S.W.	Vic.	Q'land.	S. Aus.	W. Aus.	Tas.	Nor. Ter.	Fed. Cap. Ter.	Aus- tralia.
1	Typhoid Fever	46	26	13	8	8	<u>-</u>			106
	Typhus			١						
3	Malaria			1	• • •	1		٠.		2
	Small-pox		• •	٠٠	• • •		• • -			
	Measles	51	32	. 8	1	••	3			95
	Scarlatina	7	6		4	・・	2	٠٠.		19
	Whooping Cough	35	13	7	4		2	٠٠.		61
	Diphtheria and Croup	64	41	19	24	10	15			173 217
	Influenza	72	56	65	10	4	10 11		•••	367
	Pneumonic Influenza	125	122	82	17	10		• • •	••	
	Asiatic Cholera Cholera Nostras		• •		•••		• •	::		••
	Other Epidemic Diseases	53	37	24	17	5	3	::		139
	Tuberculosis of the	00	ļ <i>"</i>		٠.]	
	Respiratory System	452	463	116	134	65	75	١	١	1,305
14	Tuberculosis of the Men-	402	100	110	101	1 00		١		1,000
	inges	23	33	3	6	4	6			75
15	Other forms of Tuber-		-	_		_	-			
	culosis	31	47	3	17	2	7			107
16	Cancer and other Malig-	-		1			-	1	i	
	nant Tumours	888	871	266	237	104	78	٠.		2,444
17	Meningitis	75	55	26	19	15	10	1		201
18	Hæmorrhage, Embolism,				}					
	and Softening of Brain	534	562	167	170	58	70		1	1,561
19	Organic Diseases of the		Į	ļ		į .		l	l	
	Heart	756	769	264	215	81	102	• •		2,137
	Acute Bronchitis	61	39	33	24	4	5	• •	• •	166
	Chronic Bronchitis	141	152	39	51	10	14	•••		407
	Pneumonia	458	360	136	69	46	55	• • •	1	1,124
23	Other Diseases of the	İ								
	Respiratory System	400	405	124	83	50	41		1	1,175
94	(Tuberculosis exceptd.) Diseases of the Stomach	4.39	4.35	1.24	33	53	41		••	1,170
24	(Cancer excepted)	54	46	27	12	13	8			160
25	Diarrhœa and Enteritis	94	30		12	10		١	1	100
20	(children under 2	1	}	}	1				1	
	years only)	433	274	151	97	65	19	١		1,039
26	Appendicitis & Typhlitis	77	55	22	24	7	6		1	191
	Hernia, Intestinal Ob-		1			{	,			
	struction	78	71	33	20	11	9	١	1	222
28	Cirrhosis of the Liver	30	39	15	3	5	3	١	1	95
29	Nephritis and Bright's				1		ŀ			ļ
	Disease	356	383	,178	60	31	21			1,029
30	Non-cancerous Tumours			ļ				l	i	
	and other Diseases of					l				
	Female Genital Organs	66	45	25	21	12	5	٠٠.		174
31	Puerperal Septicæmia					1		1		
	(Puerperal Fever,	1	-	ì			ĺ			ļ
	Puerperal Peritonitis,		1	1		1	١ ۾	1	ĺ	200
20	Puerperal Phlebitis)	103	54	34	22	12	8		1	233
34	Other Puerperal Acci-		1							
	dents of Pregnancy	909	93	0.9	95	90	14	1	1	458
33	and Confinement Congenital Debility and	203	93	93	35	20	14			400
JJ	Malformations	642	542	217	149	97	74	1		1,722
34	Senile Debility	801	756	253	219	73	115	1	1 ::	2,217
	Violence	221	154	101	61	31	26		}	594
	Suicide	42	37	10	12	2	4		1	107
	Other Diseases	1,581	1,327	623	366	148	155	1		4,201
	Unspecified or Ill-defined	1 -	1			1	i		1	'
	Diseases	81	89	16	23	16	16		1	241
	Total—Females	0.070	0.004	9 104	9 994	1,023	997	3	-	24,614
	Total—Females	19,079	8,084	3,194	2,234	11,023	1 997	1 3	<u> </u>	14+,014

CAUSES OF DEATH.—PERSONS, 1923.

	Cause.	N.S.W.	Vic.	Q'land.	S. Aus.	W. Aus.	Tas.	Nor. Ter.	Fed. Cap. Ter.	Aus- tralia.
	Typhoid Fever	98	54	46	13	18	13			242
	Typhus Malaria		$\cdot \cdot_{2}$	·· 12	1 1	2		ı.i		$\frac{1}{21}$
	Malaria Small-pox		1				• • •			
	Measles	120	81	13	1	1	6			222
	Scarlatina	12	20	2	8	٠٠,	3			45
	Whooping Cough	$\begin{array}{c} 72 \\ 170 \end{array}$	20 87	$\begin{array}{c} 12 \\ 39 \end{array}$	$\begin{array}{c} 9 \\ 47 \end{array}$	$\frac{4}{20}$	$\frac{2}{32}$			$\frac{119}{395}$
	Diphtheria and Croup Influenza	150	105	136	23	12	32 15			393 441
	Pneumonic Influenza	258	254	188	28	19	21		i	769
	Asiatic Cholera									
	Cholera Nostras	• • • •	2	• • • • • • • • • • • • • • • • • • • •		ا ٠٠. ا	1			3
	Other Epidemic Diseases	102	82	57	32	11	7	• •		291
13	Tuberculosis of the Respiratory System	1,103	1,037	353	323	215	135	5	'	3,171
14	Tuberculosis of the Men-	1,100	1,037	300	020	210	100		•••	3,11.
	inges	52	68	7	14	6	12			159
15	Other forms of Tuber-			_	i					
	culosis	70	85	8	29	8	14			214
16	Cancer and other Malig- nant Tumours	1,850	1,635	664	491	265	166	2]	5,073
17	Meningitis	193	146	60	34	33	21	ī		488
	Hæmorrhage, Embolism,	100						ļ		
	and Softening of Brain	1,091	960	346	321	142	129			2,989
19	Organic Diseases of the			200		227	20.4			4 000
90	Heart	1,715	1,597	638 58	$\begin{array}{c c} 457 \\ 42 \end{array}$	251 11	$\begin{array}{c} 234 \\ 14 \end{array}$	• • •	1	4,893 351
	Acute Bronchitis	$\frac{146}{305}$	315	110	106	31	$\frac{14}{24}$	i		892
	Pneumonia	1,107	832	335	197	132	121	î	i	2,726
	Other Diseases of the	2,101							ĺ	_,
	Respiratory System		1							
~ 4	(Tuberculosis exceptd.)	1,004	1,068	368	202	163	93	1	2	2,901
24	Cancer excepted)	156	130	66	40	33	19			444
25	Diarrhœa and Enteritis	100	100	00	10	33				1.1
	(children under 2									ŀ
	years only)	1,014	597	334	217	139	37			2,338
	Appendicitis & Typhlitis	192	114	- 58	35	20	17		• • •	436
27	Hernia, Intestinal Obstruction	185	147	72	45	36	22	1		508
28	Cirrhosis of the Liver	83	94	52	20	16	8			273
	Nephritis and Bright's	00		02	20	1				
	Disease	893	843	382	190	100	52			2,460
30	Non-cancerous Tumours				l					
	and other Diseases of	00		0.5	91	1 ,,	=		ĺ	154
91	Female Genital Organs Puerperal Septicæmia	- 66	45	25	21	12	5	٠٠.		174
91	(Puerperal Fever,		1	}	}	l			1	1
	Puerperal Peritonitis,									
	Puerperal Phlebitis)	103	54	34	22	12	8			233
32	Other Puerperal Acci-			Ì	1	j		i .		
	dents of Pregnancy and Confinement	203	93	93	35	20	14			458
33	Congenital Debility and	203		0.0	35	20	1.7			400
-00	Malformation	1,554	1,218	524	338	216	174	1		4,025
	Senile Debility	1,818	1,374	635	448	197	203	10	·:	4,685
			698	489	216	179	97	3	1	2,674
35	Violence	991			0.0		10			
35 36	Violence Suicide	222	143	98	62	53 405	18	3	1	
35 36 37	Violence Suicide Other Diseases				62 809	53 495	18 369	3 3	4	599 9,832
35 36 37	Violence Suicide	222	143	98						

The classification for the years 1919 to 1923 is shown for Australia in the following table, and for purposes of comparison the figures for the year 1923 have been repeated from the preceding table. Male and female deaths for 1919 are shown on pages 188 and 189 of the thirteenth issue, for 1920 on pages 129 and 130 of the fourteenth issue, for 1921 on pages 122 and 123 of the fifteenth issue, and for 1922 on pages 1001 and 1002 of the sixteenth issue of this book.

CAUSES OF DEATH.—AUSTRALIA, 1919 TO 1923.

Persons.

	Cause.			1919.	1920.	1921.	1922.	1923.
1	Typhoid Fever			272	312	352	227	245
2 3	Typhus					43	21	1 21
4	Maiaria Small-pox	• • •	::	94	19	2	2	
5	Measles	• • •	- ::	51	482	83	28	222
6	Scarlatina			69	- 90	42	38	4:
7	Whooping Cough			211	561	428	182	119
	Diphtheria and Croup			581	829	917	543	395
	Influenza		••	1,289	230	308	162	441
	Pneumonic Influenza		•••	10,263	218	346	193	769
LO L1	Asiatic Cholera	• •	• •	1	1	2	1	:
2	Other Epidemic Diseases	• •	•••	157	124	232^{2}	244	291
13	Tuberculosis of the Respiratory System	n (a)	::	3,479	3,098	3,205	2,957	3,171
	Tuberculosis of the Meninges	(,		188	214	218	176	159
5	Other forms of Tuberculosis	• • • • • • • • • • • • • • • • • • • •		281	295	264	264	214
	Cancer and other Malignant Tumours			4,421	4,511	4,768	5,052	5,07
١7	Meningitis			481	596	558	518	48
18	Hæmorrhage Embolism, and Softe	ning o	f the					0.00
	Brain	•••	•••	2,467	2,495	2,472	2,833	2,98
19	Organic Diseases of the Heart	• •	1	5,864	5,370	5,166	5,158	4,89
20	Acute Bronchitis	• •		420	398 962	386 816	283 796	351 899
22	Pneumonia	: •		$\frac{1,047}{2,656}$	2,099	2,066	2,151	2,72
	Other Diseases of the Respiratory Sy	vstem (Tuber.	2,000	2,099	2,000	2,101	2,121
	culosis excepted)	,	14561	2,413	2,527	2,304	2,208	2,90
24	Diseases of the Stomach (Cancer excep	ted)	::	478	443	439	467	44
25	Diarrhœa and Enteritis (Children und	der two	years					
	only)`		*	2,520	3,067	2,589	1,743	2,338
6	Appendicitis and Typhlitis			352	882	351	402	430
27	Hernia, Intestinal Obstruction			530	541	480	545	508
	Cirrhosis of the Liver	• •		315	340	323	323	273
	Nephritis and Bright's Disease	iconco	of the	2,221	2,286	2,139	2,333	2,460
,0	Non-cancerous Tumours and other D. Female Genital Organs	iseases	or the	132	154	166	169	17
31	Puerperal Septicæmia (Puerperal Feve	r Parii	tonitia	192	194	100	109	10
•	Phlebitis) (Fuerperar Feve	.,	voinvis,	166	250	208	196	23
32	Other Puerperal Accidents of Pregnan	nev an	d Con-					
	finement		· · · · · · ·	404	433	. 435	425	45
3	Congenital Debility, etc.			3,885	4,046	3,758	3,521	4,02
4	Senile Debility			4,840	4,636	3,981	4,044	4,68
	Violence			2,799	2,791	2,892	2,590	2,67
	Suicide			546	636	621	533	59
	Other Diseases	• •	• •	9,390	10,048	9,995	9,318	9,83
ð	Unspecified or Ill-defined Diseases	• •	• • •	707	805	721	665	69

⁽a) Includes acute disseminated tuberculosis.

^{15.} Deaths from Special Causes.—The above table furnishes comparisons for the last five years only, and comparisons will, therefore, generally be restricted to that period.

⁽i) Typhoid Fever. The number of deaths from typhoid fever in 1923 was 242, which was equivalent to 4 per hundred thousand living. This rate, though lower than the average for the five years, was higher than in 1922, when it varied from 8 per hundred thousand persons living in Western Australia to 2 in Victoria.

- (ii) Typhus. One death from typhus, which occurred in South Australia, was registered for the year 1923.
- (iii) Malaria. Deaths from malarial diseases are mainly confined to the tropical districts of Northern Queensland and Western Australia, and to the Northern Territory; 12 out of the 21 deaths registered in 1923 occurred in Queensland, 3 in New South Wales, 2 in Victoria, 2 in Western Australia, and 1 each in South Australia and the Northern Territory.
- (iv) Small-pox. The number of deaths from small-pox in Australia is very small, four deaths only resulting in the five years under review.
- (v) Measles. Of the deaths from measles the greatest number occurred during 1920, when 482 were registered, while the minimum was in 1922 with a total of 28 deaths. During 1923 there were 222 deaths from measles, of which 127 were males and 95 females; of these, 120 were registered in New South Wales, 81 in Victoria, 13 in Queensland, 6 in Tasmania, and 1 each in South and Western Australia.
- (vi) Scarlatina. The mortality from this source is very light, the average of deaths from 1919 to 1923 being 57 per annum.
- (vii) Whooping Cough. In 1920 the number of deaths was 561, the highest number registered in the period 1919 to 1923. In 1923 there were 119 deaths, equal to a death rate of 2 per 100,000 persons. Seventy-two deaths occurred in New South Wales, 20 in Victoria, 12 in Queensland, 9 in South Australia, 4 in Western Australia, and 2 in Tasmania.
- (viii) Diphtheria and Croup. The number of deaths due to diphtheria and croup has varied from a minimum of 395 in 1923 to a maximum of 917 in 1921. Of the 395 registered in 1923, 382 were attributed to diphtheria, which gives a death rate of 7 per 100,000 of population. The corresponding rates for the separate States were—Victoria, Queensland, and Western Australia, 5; New South Wales, 8; South Australia, 9; and Tasmania, 14.
- (ix) Influenza. The deaths from influenza during 1923 were more numerous than in any year since the extraordinary epidemic of 1919. In 1923, there were 1,210 deaths from this disease, representing a rate of 21 per 100,000. Of these deaths, 441 were ascribed to ordinary influenza, and 769 tc pneumonic influenza.
 - (x) Asiatic Cholera. No deaths from Asiatic cholera have been recorded in Australia.
- (xi) Cholera Nostras. For the five years under review only eight deaths have been due to this cause.
- (xii) Other Epidemic Diseases. The deaths registered under this heading numbered 291 in 1923. The list in 1923 includes the following diseases:—Dysentery 114, erysipelas 75, lethargic encephalitis 57, acute poliomyelitis 30, leprosy 8, plague 1, and other epidemic diseases 6. There were no deaths from plague in the years 1919 and 1920. Outbreaks occurred in 1921 and 1922, causing 61 deaths in Queensland and 10 in New South Wales.
- (xiii) Tuberculosis of the Respiratory System. 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.

Including a small number of deaths from acute disseminated tuberculosis, there were 3,171 deaths from tuberculosis of the respiratory system in 1923, which compares favourably with the average of 3,185 for the preceding four years. The 3,171 deaths in 1923 represented a rate of about 56 per 100,000 persons. Of these deaths, 1,866 were males and 1,305 females.

(xiv) Tuberculosis of the Meninges. The number of deaths ascribed to this cause has varied very slightly during the last five years. The greatest number, viz., 218, occurred in 1921, and the least number, viz., 159, in 1923.

(xv) Other Forms of Tuberculosis. The deaths in 1923 include the following:—Tuberculosis of the intestines and peritoneum, 77; tuberculosis of the spinal column, 43; tuberculosis of the joints, 29; tuberculosis of other organs, 30; and chronic disseminated tuberculosis, 40.

(xva) All Forms of Tuberculosis.—(a) General. A complete tabulation of all the different tubercular diseases from which deaths occurred in 1923 will be found in Bulletin No. 41 of "Australian Demography." The total number of deaths due to tubercular diseases was 3,544, viz., 2,057 males and 1,487 females.

(b) Ages at Death. The following table shows the ages of these 3,544 persons:—

TUBERCULAR DISEASES.—DEATHS IN AGE-GROUPS, AUSTRALIA, 1923.

	A	ges.		Male.	Female.	Total.		Age	8.		Male.	Female.	Total.
Und	er 5 ye	ars		74	60	134	55 ye	ears and	l unde	r 60	147	64	211
5 y	ears an	d und	er 10	23	24	47	60	,,	,,	65	137	38	175
10	,,	,,	15	15	35	50	65	,,	,,	70	79	28	107
15	,,	,,	20	68	125	193	70	,,	,,	75	38	19	57
20	,,	,,	25	150	209	359	75	,,	,,	80	11	9	20
25	,,	,,	30	211	235	446	80	,,	over		6	4	10
30	,,	,,	35	212	194	406	1	•			1		
35	,,	,,	40	223	172	395	Uns	pecified			7		7
40	,,	,,	45	254	100	354	1	-					
45	,,	,,	50	206	103	309							
50	,,	,,	55	196	68	264	1	Total.			2,057	1,487	3,544

(c) Occupations at Death, Males. A tabulation has been made of the occupations of males dying from tubercular diseases during 1923. A summary is given hereunder:—

OCCUPATIONS OF MALES WHO DIED FROM TUBERCULAR DISEASES.--AUSTRALIA, 1923.

	TUSIKAL	.1A, 1923.	,
Occupation.	No. of Deaths.	Occupation.	No. of Deaths.
Professional Class— Government, Defence, Law	63	INDUSTRIAL CLASS— Art and Mechanic Productions	98
Others	51	Textiles and Fibrous Materials	50
DOMESTIC CLASS-		Food and Drinks Animal and Vegetable Sub-	29
Board and Lodging	38	stances	5
Others	26	Metals and Minerals	53
		Fuel, Light and Energy	11
COMMERCIAL CLASS-	1	Building and Construction	99
Property and Finance	20	Others	409
Art, Mechanic and Textile Pro-	1		
_ ducts	30	AGRICULTURAL, PASTORAL,	
Food and Drinks	42	MINING, ETC., CLASS—	
Animal and Vegetable Sub-	1	Agricultural	142
stances	9	Pastoral	43
Fuel, Light and Metals	12	Mining and Quarrying	189
Merchants and Dealers	45	Others	8
Others	151		
	1	INDEPENDENT MEANS	16
TRANSPORT AND COMMUNICATION			
CLASS—	1	DEPENDENTS	158
Railway Traffic	44	N	
Road and Tramway Traffic	79	OCCUPATION NOT STATED	74
Sea and River Traffic	43	m 3r . 5	
Others	20	TOTAL MALE DEATHS	2,057

(d) Length of Residence in Australia. The length of residence in Australia of persons who died from tubercular diseases in 1923 is given in the next table:—

LENGTH OF RESIDENCE IN AUSTRALIA OF PERSONS WHO DIED FROM TUBERCULAR DISEASES, 1923.

Length of Residence in Australia.	Male.	Fem.	Total.	Length of Residence in Australia.	Male.	Fem.	Total.
Born in Australia Resident under 1 year , 1 year , 2 years , 3 ,	1,519 10 9 10 5 5 29	1,264 7 4 7 8 7 24	2,783 17 13 17 13 12 53	Resident 10 years & under 15 " 15 " " 20 " 20 " over Length of residence not stated Total Deaths	26	46 12 84 24 1,487	154 38 329 115 3,544

(e) Death Rates. The preceding table and the table on page 994 show that, among persons who had lived less than five years in Australia, 581 deaths occurred, and of these 72, or 12.4 per cent., were due to tubercular diseases.

In order to show the prevalence of tuberculosis in the several States, the death rates from tubercular diseases are given in the following table, together with the proportion which deaths from tuberculosis bear to 10,000 deaths from all causes:—

TUBERCULOSIS (ALL FORMS).—DEATH RATES(a) AND PROPORTION OF TOTAL DEATHS, 1923.

State.				ı Rates (a) fı Tuberculosis		Proportion per 10,000 Deaths			
			Males.	Females.	Total.	Males.	Females.	Total.	
New South Wales .			- 64	47	56	601	557	582	
Victoria		:	81	67	74	709	672	691	
Queensland .			58	32	46	524	382	466	
South Australia .			80	61	71	767	703	738	
Western Australia .			85	44	66	829	694	782	
Tasmania		'	68	82	75	640	883	753	
Northern Territory	•	• •	194		139	1,429		1,316	
Australia .			71	53	62	651	604	630	

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

⁽f) Death Rates, Various Countries. The following table, which gives for a number of countries the death rates from tuberculosis of the respiratory system per 100,000 persons living, shows that Australia occupies a very favourable position in comparison with other countries:—

TUBERCULOSIS OF THE RESPIRATORY SYSTEM.—DEATHS PER 100,000 PERSONS LIVING, VARIOUS COUNTRIES.

Country.		Year.	Death Rate.	Country.		Year.	Death Rate.
Rumania	••	1914	40	Irish Free State		1922	117
Union of South Afri		1921	40	Denmark Northern Ireland	• • •	$1921 \\ 1922$	120
(•••		46				126
		1923	49		٠. ١	1922	135
CELO CE COLLEGE	٠: ا	1923	56	Italy		1917	146
- /	of			Jamaica	• • •	1915	147
4,	• • ;	1921	61	Japan		1922	148
Ontario (Canada)		1922	66	Germany		1920	152
Ceylon		1922	68	Spain		1921	158
Scotland		1922	83	Sweden		1918	176
Belgium		1921	86	Switzerland	;	1920	180
Netherlands		1922	86	Norway	:	1918	194
England and Wales		1922	90	France		1917	215
Great Britain		1922	90	Austria	:	1921	227
United States (Reg	is-			Finland			258
		1922	97	Chile		1011	255
0 1 (0 . 1)		1921	102	Hungary		101	354

(a) All forms of tuberculosis.

(xvi) Cancer and other Malignant Tumours.—(a) General. The number of deaths from cancer has increased continuously to 5,073 in 1923. Of the deaths registered in 1923, 2,629 were of males, viz., 962 in New South Wales, 764 in Victoria, 398 in Queensland, 254 in South Australia, 161 in Western Australia, 88 in Tasmania, and 2 in the Northern Territory; while 2,444 were of females, viz., 888 in New South Wales, 871 in Victoria, 266 in Queensland, 237 in South Australia, 104 in Western Australia, and 78 in Tasmania. Bulletin No. 41 of "Australian Demography" contains a complete tabulation of the various types of cancer and of the seat of the disease.

(b) Type and Seat of Disease. Tables showing the type and seat of disease, in conjunction with age, and also with conjugal condition, of the persons dying from cancer in 1923 will be found in Bulletin No. 41 of "Australian Demography." A summary showing type and seat of disease for the year 1923 is given hereunder:—

DEATHS FROM CANCER.—TYPE AND SEAT OF DISEASE, AUSTRALIA, 1923.

Type of Disease.	Males.	Females	Persons	Seat of Disease.	Males.	Females	Persons
Carcinoma	1,432 525	1,429 476	2,861 1,001	Stomach and liver	1,134 709	697 357	1,831 1,066
Malignant disease	267 170	302 106	569 276	Peritoneum, intes-	356	391	747
Epithelioma	159	61	220	Female genital	330		
Rodent ulcer Malignant tumour	46 22	16 26	62 48	Breast	::	468 426	468 426
Neoplasm Scirrhus	3 1	13 13	16 14	Buccal cavity	298 132	44 61	342 193
Hypernephroma	4.	2	6		i —		
Total Deaths	2,629	2,444	5,073	Total Deaths	2,629	2,444	5,073

(c) Ages at Death. The ages of the 5,073 persons who died from cancer in 1923 are given in the following table, which shows that while the ages below 35 are not by any means immune from the disease, the great majority of deaths occurred at ages from 35 upwards, the maximum being found in the age-group 60 to 65:—

DEATHS I	FROM	CANCER.—AGES,	AUSTRALIA.	1923.
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	Ag	es.		Male.	Female.	Total.	Ages.			Male.	Female.	Total.	
Und 15 ye 20 25 30 35 40 45 50	er 15 years an	rears d unde	25 25 30 35 40 45 50 55	21 7 9 15 27 41 80 131 220 360	12 4 5 12 33 87 155 230 281 309	33 11 14 27 60 128 235 361 501 669	65 70 75 80 85 y Uns	ears an ,, ,, ears an pecified Total	,, ,, ,, d over	70 75 80 85	447 505 335 232 129 63 7	372 312 254 209 107 60 2	819 817 589 441 236 123 9

(d) Occupations. A summarized tabulation of the occupation of males who died from cancer is given hereunder:—

DEATHS FROM CANCER.—OCCUPATIONS (MALES), AUSTRALIA, 1923.

Class of O	ecupation.		No. of Male Deaths.	Class of Occupation.	No. of Male Deaths.
Professional Domestic Commercial Transport and	 Communio	ation	147 91 310 172	Agricultural, Pastoral, Mining, etc Independent Means	625 57 31 125
Industrial	••	••	1,071	Total Male Deaths	2,629

(e) Death Rates. The following table shows that with the exception of Victoria the death rate for males is higher than that for females in every State:—

DEATHS FROM CANCER.—RATES (a) AND PROPORTIONS, 1923.

State.	Death R	ates (a) fron	n Cancer.	Proportion of 10,000 Total Deaths.			
	Males.	Females.	Total.	Males.	Females.	Total.	
Victoria Queensland South Australia Western Australia	 86 96 94 98 86 81 78	83 107 70 92 64 73	84 102 83 95 76 77 55	804 836 847 931 844 772 571	978 1,078 833 1,061 1,017 782	879 959 841 990 905 777 526	
Australia	 91	88	89	832	993	903	

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

DEATHS. 1015

(f) Comparison with Tuberculosis. In recent years the death rate from tuberculosis has shown a tendency to decrease, while that for cancer has displayed an almost continuous increase. The table hereunder shows that for each of the years under review, the death rate for cancer has been greater than that for tuberculosis, the excess varying from 9 per 100,000 persons in 1919 to 30 in 1922. Taking the sexes separately, however, the rate for males for tuberculosis exceeded that for cancer in 1919. During the whole period the mortality of females from cancer was always greater than that from tuberculosis.

TUBERCULOSIS AND CANCER.—DEATH RATES (a), AUSTRALIA, 1919 TO 1923.

37		Death Ra	te (a) from Tub	erculosis.	Death Rate (a) from Cancer.			
Year.		Males.	Females.	Total.	Males.	Females.	Total.	
919		90	62	76	88	82	85	
920		79	55	67	86	82	84	
921		78	56	68	88	87	87	
922]	71	51	61	93	88	91	
923		71	53	62	91	. 88	89	

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

(g) Deaths, 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		1922	10	United States (Regis-		
Rumania		1914	13	tration Area)	1922	87
Serbia		1911	14	New Zealand	1923	88
Jamaica		1915	17	Ontario, Canada	1922	88
Chile		1914	36	Prussia	1921	89
Hungary		1915	48	Australia	1923	89
Quebec (Canada)		1921	56	Germany	1920	95
Union of South Af	rica			Northern Ireland	1922	99
(Whites)		1921	60	Sweden	1918	104
Spain		1921	60	Netherlands	1922	112
Italy		1917	68	Great Britain	1922	123
Japan	٠. ا	1922	69	England and Wales	1922	123
Canada (exclusive	of			Norway	1918	124
Quebec)		1921	75	Scotland	1922	125
France		1917	75	Switzerland	1920	126
Belgium		1921	79	Austria	1921	128
Irish Free State	. ,	1922	80	Denmark	1921	154

The fifth issue of this Year Book contains on pages 230, et seq., a paper dealing, inter alia, with the incidence of cancer in Australia.

⁽xvii) Meningitis. The deaths during 1923 from cerebro-spinal meningitis numbered 50, and from all other forms of meningitis 438. Of the former, 21 occurred in New South Wales, 11 in Victoria, 12 in Queensland, 3 in South Australia, 1 in Western Australia, and 2 in Tasmania.

(xviii) Cerebral Hæmorrhage, Embolism and Softening of the Brain. The deaths under this heading have been remarkably uniform in number during the period under review. The figures for 1923 are made up as follows:—Cerebral hæmorrhage and apoplexy, 1,201 males and 1,276 females; cerebral embolism, 179 males, 249 females; softening of the brain, 48 males and 36 females.

(xix) Organic Diseases of the Heart. The number of deaths in 1923 was 4,893, viz., 2,706 males and 2,187 females. Of these deaths, New South Wales contributed 959 males and 756 females; Victoria, 828 males and 769 females; Queensland, 374 males and 264 females; South Australia, 242 males and 215 females; Western Australia, 170 males and 81 females; Tasmania, 132 males and 102 females; and Federal Capital Territory, 1 male. The death rates and proportions per 10,000 deaths in 1923 were as follows:—

DEATH RATES (a) FROM ORGANIC HEART DISEASE AND PROPORTION OF 10,000 TOTAL DEATHS, AUSTRALIA, 1923.

State.		ates (a) from Heart Disease		Proportion of 10,000 Deaths.			
	Males.	Females.	Total.	Males.	Females.	Total.	
New South Wales	. 86	70	78	801	833	815	
Victoria	104	95	99	907	951	928	
Queensland	. 88	70	80	796	827	808	
South Australia	. 93	84	88	890	963	921	
Western Australia	. 91	50	72	892	792	857	
Tasmania	. 122	95	109	1,158	1,023	1,095	
Federal Capital Territory .	. 48		30	1,000	· · ·	1,000	
Australia	. 93	78	86	856	889	870	

⁽a) Number of deaths from Organic Heart Disease per 100,000 of mean population.

(xx) Acute Bronchitis. Deaths from bronchitis are classified under the following headings:—(a) Acute, (b) chronic, (c) unspecified, under five years of age, and (d) unspecified, five years and over. For the purpose of the abridged classification, (a) and (c) are treated as "acute," and (b) and (d) as "chronic" bronchitis. Acute bronchitis is credited with 420 deaths in 1919, 398 in 1920, 386 in 1921, 283 in 1922, and 351 in 1923, viz., 185 males and 166 females.

(xxi) Chronic Bronchitis. The deaths from this cause in 1923 numbered 892, viz., 485 males and 407 females.

(xxii) Pneumonia. The deaths from pneumonia during 1923 were 2,901, showing an increase of 658, or 29.3 per cent., over the average for the previous four years.

(xxiii) Other Diseases of the Respiratory System. This heading was established in 1910, the figures previously being included in "Other Diseases" (No. xxxvii). Deaths in 1919 numbered 2,413; in 1920, 2,527; in 1921, 2,304; in 1922, 2,208; and in 1923, 2,901. The total for 1923 is made up as follows, viz.:—Diseases of the nasal fossae, 4; diseases of the larynx, 50; broncho-pneumonia, 1,604; capillary bronchitis, 27; pleurisy.

DEATHS. 1017

229; pulmonary congestion and apoplexy, 320; gangrene of the lungs, 21; asthma, 244; pulmonary emphysema, 24; chronic interstitial pneumonia, 344; other diseases of the respiratory system (tuberculosis excepted), 34.

(xxiv) Diseases of the Stomach (Cancer excepted). In 1923 this heading includes ulcer of the stomach, 103 males, 45 females; ulcer of the duodenum, 52 males, 20 females; and other diseases of the stomach (cancer excepted), 129 males, 95 females; a total of 444

(xxv) Diarrhoa. and Enteritis (Children under two years only). The number of deaths due to these causes is always a large one, varying from 1,743 in 1922 to a maximum of 3,067 in 1920. The total for 1923 was 2,338. During 1923, 9,635 children died before reaching their second birthday, and of these, 2,338, or 24.3 per cent., died from diarrhoa and enteritis. The age distribution of children dying from these diseases during the first year of life will be found on page 1025.

The number of deaths, the death rates, and proportions of 10,000 deaths due to infantile diarrhœa and enteritis are given below:—

DEATHS, DEATH RATES (a), ETC., INFANTILE DIARRHŒA AND ENTERITIS.—
AUSTRALIA, 1923.

State.	Infa	ntile Diari	of Deaths from ile Diarrhœa Enteritis.		Death Rates (a) from Infantile Diarrhœa and Enteritis.			Proportions of Total Deaths.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	
New South Wales Victoria Queensland South Australia Western Australia Tasmania	581 323 183 120 74 18	433 274 151 97 65 19	1,014 597 334 217 139 37	52 40 43 46 40 17	40 34 40 38 40 18	46 37 42 42 40 17	485 354 389 440 388 158	477 339 473 434 635 191	482 347 423 437 474 173	
Australia	1,299	1,039	2,338	45	37	41	411	422	466	

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

(xxvi) Appendicitis and Typhlitis. Deaths under this heading numbered 352 in 1919, 382 in 1920, 351 in 1921, 402 in 1922, and 436 in 1923; the total for the last year included 245 males and 191 females.

(xxvii) Hernia, Intestinal Obstruction. The deaths under this heading have not varied greatly from year to year, the number registered in 1923 being 508, viz., hernia 140, and intestinal obstruction, 368.

(xxviii) Cirrhosis of the Liver. The deaths from this cause during 1923 numbered 273, showing a decrease of 52, or 15.6 per cent., on the average for the previous four years.

(xxix) Nephritis and Bright's Disease. The number of deaths attributable to these diseases from year to year is very large. In 1919 there were 2,221; in 1920, 2,286; in 1921, 2,139; in 1922, 2,333; and in 1923, 2,460; viz., 1,431 males and 1,029 females

Of the deaths registered in 1923, 219 were ascribed to acute nephritis, and 2,241 to Bright's disease. New South Wales was responsible for 893 deaths; Victoria for 843; Queensland for 382; South Australia for 190; Western Australia for 100; and Tasmania for 52.

(xxx) Non-Cancerous Tumours and other Diseases of the Female Genital Organs. Deaths in 1919 numbered 132; in 1920, 154; in 1921, 166; in 1922, 169; and in 1923, 174. Included in the 174 deaths in 1923 were the following:—Cysts, etc., of the ovary, 27; salpingitis and pelvic abscess, 44; benign tumours of the uterus, 57; uterine hæmorrhage (non-puerperal), 7; other diseases of the female genital organs, 39.

(xxxi) Puerperal Septicamia (Puerperal Fever, Puerperal Peritonitis, Puerperal Phlebitis). The number of deaths varied from a maximum of 250 in 1920 to a minimum of 166 in 1919. In 1923 there were 233 deaths

(xxxii) Other Puerperal Accidents of Pregnancy and Confinement. The deaths under this heading in 1919 numbered 404; in 1920, 433; in 1921, 435; in 1922, 425; and in 1923, 458. Included in the 458 deaths in 1923 were the following:—Accidents of pregnancy, 87; puerperal hæmorrhage, 72; other accidents of childbirth, 78; puerperal albuminuria and convulsions, 149; puerperal phlegmasia alba dolens, embolus, sudden death, 64; death following childbirth, 8.

(xxxiia) All Puerperal Causes. The 691 deaths in 1923 under the two preceding headings correspond to a death rate of 25 per 100,000 females. It may be expressed in other terms by stating that 1 out of every 194 women confined in 1923 died from puerperal causes. The corresponding ratios for married women were 1 out of every 201 married women, and for single women 1 out of every 113. More detailed information will be found in a series of tables in Bulletin No. 41, "Australian Demography."

The ages of the mothers who died varied from 14 to 48 years as shown in the following table:—

DEATHS FROM PUERPERAL CAUSES.—AGES OF MOTHERS, AUSTRALIA. 1923.

A	ge at D	eath.	Married Women.	Single Women.	Total.	Age at Death.	Married Women.	Single Women.	Total.
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	years ", ", ", ", ", ", ", ", ", ", ", ", ",		2 4 4 13 20 16 23 24 20 37 27 35 35	2 1 4 2 5 4 3 3 1 4 5 5 4 1 2 2 3 2 3 2 3 2 3 2 3 2 3 3 2 3 3 3 3	2 1 4 4 9 8 16 23 17 27 29 25 41 28 37 38 38	32 years 33 ,, 34 ,, 35 ,, 36 ,, 37 ,, 38 ,, 39 ,, 40 ,, 41 ,, 42 ,, 44 ,, 45 ,, 46 ,, 48 ,,	30 38 31 36 31 18 33 34 26 12 9 8 2	1 	31 38 31 36 32 18 33 34 26 12 9 8 2 4
31	"		36	2 2	38	Total Death	636	55	691

The total number of children left by the married mothers was 1,666, an average of 2.6 children per mother.

DEATHS. 1019

Thirty-four of the mothers who died had been married less than one year, 105 between one and two years, and 64 between two and three years. The duration of marriage ranged up to 27 years, apart from 11 cases in which the date of marriage was not stated. A tabulation, distinguishing the ages at marriage, will be found in Bulletin No. 41, "Australian Demography," which also gives a table showing in combination the duration of marriage and previous issue.

(xxxiii) Congenital Debility, Premature Birth, and Malformations. The deaths under this heading in 1923 numbered 4,025, of which 3,962 were of children under one year of age. Over 48 per cent. of the deaths of children under one year of age are due to these causes. Returns for 1923 are given in the following table:—

DEATHS FROM CONGENITAL DEBILITY, ETC., AND MALFORMATIONS, 1923.

State.	Congeni	tal Malfor	mations.		mature Bi njury at I		Congenital Debility, Icterus, Sclerema.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
New South Wales Victoria Queensland	132 97 48	86 79 36	218 176 84	583 398 177	400 321 134	. 983 719 311	197 181 82	156 142 47	353 323 129
South Australia	39	28	67	100	82	182	50	39	89
Western Australia	20 20	20 12	40	67 53	64	131	32	13	45
Tasmania North'n Territory			32			96	27	19	46 1
Australia	356	261	617	1,378	1,044	2,422	569	417	986
Number of deaths under one year per 1,000 births	4.66	3.52	4.10	19.87	15.84	17.91	8.20	6.33	7.29

(xxxiv) Senile Debility. The deaths ascribed to "old age" form a large group, and are in excess of those due to infantile debility. In 1923, 4,685 deaths were attributed to this cause, as follows: 1,818 occurred in New South Wales, viz., 1,017 males and 801 females; 1,374 in Victoria, viz., 618 males and 756 females; 635 in Queensland, viz., 382 males and 253 females; 448 in South Australia, viz., 229 males and 219 females; 197 in Western Australia, viz., 124 males and 73 females; 203 in Tasmania, viz., 88 males and 115 females; and 10 males in the Northern Territory.

Of the males whose deaths were described as due to senility, ten were between 55 and 59 years of age, and seven were stated to be over 100. Of the females, two were between 55 and 60, and nine were 100 or over.

(xxxv) Violence. A very large number of deaths is due every year to external violence, and, as may be expected, male deaths largely predominate. The figures quoted are exclusive of suicides, which have been treated in a separate group. Deaths ascribed to violence numbered in 1919, 2,799, viz., 2,161 males and 638 females; in 1920, 2,791,

viz., 2,159 males and 632 females; in 1921, 2,892, viz., 2,301 males and 591 females; in 1922, 2,590, viz., 2,016 males and 574 females; and in 1923, 2,674, viz., 2,080 males and 594 females. Of the deaths in 1923, 770 males and 221 females died in New South Wales; 544 males and 154 females in Victoria; 388 males and 101 females in Queensland; 155 males and 61 females in South Australia; 148 males and 31 females in Western Australia; 71 males and 26 females in Tasmania; 3 males in the Northern Territory; and 1 male in the Federal Capital Territory.

The following table shows the various kinds of violent deaths which occurred in 1923, distinguishing males and females:—

DEATHS FROM EXTERNAL VIOLENCE.—AUSTRALIA, 1923.

Cause of Death.		Males.	Females.	Persons
D:	· · · · · · · · · · · · · · · · · · ·		:	
Poisoning by food	••	11	6	17
Venomous bites and stings	• •	6	: ;;	6
Other acute poisonings (gas excepted)	• •	29	10	39
Conflagration	• •	6	2	8
Burns (conflagration excepted)		122	173	295
Accidental mechanical suffocation	• •	33	13	46
Absorption of irrespirable or poisonous gas		4	4	8
Accidental drowning		387	88	475
Traumatism by firearms		64	! 10	74
Traumatism by cutting or piercing instrume	nts	4	2	6
Traumatism by fall	• •	285	59	344
Traumatism in mines or quarries	• •	66	• • •	66
Traumatism by machines	,	34	1	35
Traumatism by other crushing (vehicles, r	ailways, '			
etc.)	٠٠ ,	618	94	712
Injuries by animals (not poisoning)		29	9	38
Wounds of war	:	16		16
Starvation, thirst, fatigue	•• ,	33	4	37
Excessive cold	• • •	2	1	3
Effects of heat		26	10	36
Lightning	!	8	1	9
Other accidental electric shocks		18	1	19
Homicide by firearms		10	6	16
Homicide by cutting or piercing instruments		3	2	5
Homicide by other means	1		26	56
Infanticide (murder of children under 1 year)	2	13	15
Fractures (cause not specified)		83	34	117
Other external violence (cause specified)		. 74	11	85
Other external violence (cause unspecified)	• •	77	14	91
Total Deaths Death Rate per 100,000 of mean popu	lation	2,080 72	594	2,674 47

In every kind of violent death, with the exception of burns and infanticide, there was, therefore, an excess of males.

(xxxvi) Suicide. (a) General. Deaths by suicide have remained fairly stationary during recent years, the number in 1919 being 546, viz., 440 males and 106 females; in 1920, 636, viz., 516 males and 120 females; in 1921, 621, viz., 510 males and 111 females; in 1922, 533, viz., 441 males and 92 females; and in 1923, 599, viz., 492 males and 107 females.

(b) Modes Adopted. The modes adopted by persons who committed suicide in the years 1919 to 1923 were as follows:—

SUICIDES, MODES ADOPTED .-- AUSTRALIA, 1919 TO 1923.

	Male	es.	Fema	les.	Perso	ns.
Mode of Death.	Total of 4 years. 1919-22.	1923.	Total of 4 years 1919-22.	1923.	Total of 4 years 1919-22.	1923.
Poisoning Poisonous gas Hanging or Strangulation Drowning	365 15 262 152 626 391 20 41 35	115 6 75 51 141 76 10 8	200 4 62 74 25 30 16 8 10	43 8 10 24 7 8 3 4	565 19 324 226 651 421 36 49 45	158 14 85 75 148 84 13 12
Total	1,907	492	429	107	2,336	599

⁽c) Death Rates. The death rates from suicide and the proportion per 10,000 of total deaths are given in the following table:—

SUICIDE-DEATHS, DEATH RATES (a), AND PROPORTION OF TOTAL DEATHS, 1923.

State.	Nur	nber of De	aths.	Deatl	Rates (a) Suicide.	from	Proportion of 10,000 Total Deaths.			
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total	
New South Wales	180	42	222	16	4	10	154	46	105	
Victoria	106	37	143	13	5	9	116	46	83	
Queensland	88	10	98	21	3	12	187	18	124	
South Australia	50	12	62	19	5	12	183	54	125	
Western Australia	51	2	53	27	1	15	267	-20	181	
Tasmania	14	4	18	13	4	8	123	40	84	
Northern Terr	3		3	116		83	857		790	
Australia	492	107	599	17	4	10	156	44	107	

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

AGES OF PERSONS WHO COMMITTED SUICIDE.—AUSTRALIA, 1923.

	Ag	es.	•	M.	F.	Total.	Ages.	M.	F.	Total.
10 yea 15 20 25 30 35 40 45 50	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	d und	er15 20 25 30 35 40 45 50 60	3 12 19 41 55 50 62 46 44 45	7 4 10 20 10 12 7 13 10	3 19 23 51 75 60 74 53 57 55	70 ,, ,, 8 75 ,, ,, 8 80 ,, ,, 8 Not stated	35 41 35 18 80 8 85 6 7 7	8 6 107	49 41 18 8 6 7

⁽d) Ages. From the following table, which shows the ages of the persons who committed suicide in 1923, it will be seen that both extreme youth and extreme old age are represented:—

(e) Occupations of Males. The following table gives the occupations of the 492 males who committed suicide in 1923:—

OCCUPATIONS OF MALES WHO COMMITTED SUICIDE.—AUSTRALIA, 1923.

Occupation.	Deaths.	Occupation.	Deaths.
Professional Class—	+	INDUSTRIAL CLASS—	
Government, Defence, Law	10	Art and Mechanic Productions	22
Others	15	Textiles and Fibrous Materials	13
DOMESTIC CLASS-	""	Food and Drink	5
Board and Lodging	10	Animal and Vegetable Sub-	
Others	2	stances	2
COMMERCIAL CLASS—	_	Metals and Minerals	9
Property and Finance	7	Building and Construction	22
Art, Mechanic and Textile	•	Others	119
Products	4	AGRICULTURAL, PASTORAL,	110
Food and Drinks	18	Mining, etc., Pursuits-	
Animal and Vegetable Sub-		li	75
-1	4	[D 1	15
35	17		
		Mining and Quarrying	17
Others	32	Others	4 2 5
TRANSPORT AND COMMUNICATION	ĺ	INDEPENDENT MEANS	2
Class		DEPENDENTS	5
Railways	i 7	OCCUPATION NOT STATED	25
Roads and Trams	19	įį.	
Seas and Rivers	9	1	
Others	3	Total Male Deaths	492

(f) Frequency. It has been said that suicide has become more frequent during recent years, but an examination of the figures from the year 1871 onwards shows that the assertion needs qualification. The absolute figures have certainly increased, but proportionately to the population the figures for 1916–20, and 1921 to 1923 were less than those for 1886–90 and 1891–95. The figures for the five years 1911–15, showed, however, an increase, not only absolutely, but in proportion to the population. The rate of 131.17 suicides per million persons living was the highest of any quinquennium for which figures are obtainable. The five years 1916–1920 show lower figures and percentages than the average of the previous thirty years. No particulars are available for Western Australia prior to 1886, and from 1886 to 1895 the sexes are not distinguished. The figures for the first five periods are, therefore, exclusive of Western Australia:—

SUICIDES.—AUSTRALIA, 1871-75 TO 1923.

Num	ber of Sui	cides.	of 1	es per One Persons Livage Annua	Suicides of Females to 100 Suicides of Males. Based on—		
Males.	Females.	Persons.	Males.	Females .	Persons.	Absolute Figures.	Rates.
715	150	985	150.04	27 56	00.07	90.00	24.88
-							19.45
							21.56
							24.54
							24.31
_,							25.05
2,054	380	2,434	201.78	40.88	124.98	18.50	20.26
2,031	437	2,468	186.11	43.22	117.39	21.51	23.22
2.546	577	3.123	206.15	50.36	131.17	22.66	24.43
2,238	521		175.46	40.93	108.27	23.28	23.33
				41.33			22.47
							21.58
							22.57
_	715 878 999 1,394 1,574 1,838 2,054 2,031	715 150 878 145 999 183 1,394 292 1,574 337 1,838 410 2,054 380 2,031 437 2,546 577 2,238 521 510 111 441 92	715 150 865 878 145 1,023 999 183 1,182 1,394 292 (a) 1,686 1,574 337 (b) 1,911 1,838 410 2,248 2,054 380 2,434 2,031 437 2,468 2,546 577 3,123 2,238 521 510 111 621 441 92 533	Males. Females. Persons. Males. 715 150 865 150.94 878 145 1,023 159.69 999 183 1,182 152.58 1,394 292 (a) 1,686 179.20 1,574 337 (b) 1,911 181.34 2,054 380 2,434 201.78 2,031 437 2,468 186.11 2,238 521 2,759 175.46 510 111 621 183.89 441 92 533 155.78	Males. Females. Persons. Males. Females. 715 150 865 150.94 37.56 878 145 1,023 159.69 31.06 999 183 1,182 152.58 32.90 1,574 337 (b) 1,911 181.34 44.09 1,838 410 2,248 191.11 47.88 2,054 380 2,434 201.78 40.88 2,031 437 2,468 186.11 43.22 2,238 521 2,759 175.46 40.93 510 111 621 183.89 41.33 441 92 533 155.78 33.61	715	Males. Females Persons. Males. Females Persons. Absolute Figures. 715 150 865 150.94 37.56 99.07 20.98 878 145 1,023 159.69 31.06 100.62 16.51 999 183 1,182 152.58 32.90 97.61 18.32 1,394 292 (a) 1,686 179.20 43.97 (c) 116.92 20.95 1,574 337 (b) 1,911 181.34 44.09 (d) 117.07 21.41 1,838 410 2,248 191.11 47.88 123.65 22.31 2,054 380 2,434 201.78 40.88 124.98 18.50 2,031 437 2,468 186.11 43.22 117.39 21.51 2,546 577 3,123 206.15 50.36 131.17 22.66 2,238 521 2,759 175.46 40.93 108.27 23.28 510

(a) 1705 inclusive of Western Australian figures.
 (b) 1984 inclusive of Western Australian figures.
 (c) 116.49 inclusive of Western Australian figures.
 (d) 119.11 inclusive of Western Australian figures.

Deaths. 1023

(xxxvii) Other Diseases. The number of causes included under this heading is very large, amounting to no less than 85 of the items shown in the detailed classification, and deaths were recorded under every one of these with the exception of the following:—Glanders, rabies, soft chancre, gonococcus infection, other infectious diseases, pellagra, ankylostomiasis, and ringworm, diseases of the scalp, itch. The total number of deaths under "other diseases" in 1919, was 9,390, viz., 5,316 males and 4,074 females; in 1920, 10,048, viz., 5,740 males and 4,308 females; in 1921, 9,995, viz., 5,627 males and 4,368 females; in 1922, 9,318, viz., 5,276 males and 4,042 females; and in 1923, 9,832, viz., 5,631 males and 4,201 females. Some of the diseases included here account for very considerable numbers of deaths. Particulars of the deaths included in 1923 are shown in the following table:—

DEATHS FROM "OTHER DISEASES."-AUSTRALIA, 1923.

Causes.	м.	F.	Total.	Causes.	М.	F.	Total.
Anthrax	3 53	29	3 82	Embolism and Thrombosis	44	70	114
Tetanus	3	2	5	(not cerebral) Diseases of the Veins	10	20	30
Syphilis	97	51	148	Diseases of the Lymphatic	11	10	21
Purulent Infection and Septi- cæmia	76	60	136	System Hæmorrhage (without speci-	_	1	_
Other Tumours (Tumours of the female genital organs				fled cause) Other Diseases of the Cir-	8	11	19
excepted)	9	24	33	culatory System	62	70	132
Acute Rheumatic Fever	124	96	220	Diseases of the Mouth and	9	9	18
Chronic Rheumatism and	73	136	209	its Associated Organs Diseases of the Pharynx	25	22	47
Scurvy	1	• •	1	Diseases of the Œsophagus	13	3	16
Beri-beri	25	• •	25	Diarrhea and Enteritis of	Ì	(
Rickets	288	404	692	Children over two years of age and Adults	311	313	624
Anæmia, Chlorosis	244	246	490	Intestinal Parasites	5	5	10
Diseases of the Pituitary		_		Other Diseases of the In-			
Gland Exophthalmic Goitre	2 8	1 75	83	testines	51	43	94
Diseases of the Thyroid		73	00	Acute Yellow Atrophy of the Liver	7	12	19
Gland	6	42	48	Hydatid Tumours of the			
Diseases of the Parathyroid	, ,	2	3	Liver	21 41	19 93	40 134
Gland	1		9	Biliary Calculi Other Diseases of the Liver	112	109	221
Gland	4	1	5	Diseases of the Pancreas	23	36	59
Addison's Disease	12	27	39	Peritonitis (without specified		۱	
Diseases of the Spleen	8 46	4 31	12 77	cause) Other Diseases of the Diges-	62	61	123
Leucæmia Hodgkin's Disease	40	16	56	tive System	3		3
Acute and Chronic Alcoholism	126	27	153	Chyluria	ì		1
Chronic Lead Poisoning	18	4	22	Other Diseases of the Kid-	104		010
Other Chronic Poisonings Other General Diseases	6 35	30	6 65	neys and their Adnexa Calculi of Urinary Passages	124 35	88 16	212 51
Encephalitis	81	67	148	Diseases of the Bladder	133	23	156
Locomotor Ataxia	79	11	90	Other Diseases of the Urethra,		l _	
Other Diseases of the Spinal	. 134	107	241	Urinary Abscesses, etc.	31 319	3	34 319
Cord Paralysis without specified	. 134	107	241	Diseases of the Prostate Non-venereal Diseases of the	219		319
cause	183	140	323	Male Genital Organs	3		3
General Paralysis of the				Non-puerperal Diseases of the	i	1 .	1 ~
Insane Other Forms of Mental Alien-	150	19	169	Breast (Cancer excepted) Gangrene	55	42	97
ation	46	62	108	Furuncie	17	1 6	23
Epilepsy	129	103	232	Phlegmon, Acute Abscess	53	36	89
Convulsions (non-puerperal)	4	5	9	Other Diseases of the Skin	,,		42
Convulsions of Children under five years of age	134	108	242	and Adnexa Non-tuberculous Diseases of	15	27	42
Chorea	1	6	7	the Bones	61	33	94
Neuralgia and Neuritis	20	11	31	Other Diseases of the Joints		ì	
Other Diseases of the Ner-	100	145	281	(Tuberculosis and Rheu-	17	12	90
vous System	136 2	145 1	281	matism excepted) Other Diseases of the Organs	17	12	29
Diseases of the Ear	37	21	58	of Locomotion	1	1	2
Pericarditis	47	27	74	Other Diseases peculiar to	010		
Endocarditis and Acute Myocarditis	366	296	662	Infancy Lack of Care (Infants)	210	182	392 12
Angina Pectoris	195	74	269	Lack of Care (Infants)		L	
Diseases of the Arteries,			(Total Deaths	5,631	4,201	9,832
Atheroma, Aneurism	669	310	979		i	l	ł

(xxxviii) Unspecified or Ill-defined Diseases. The number of cases included under this heading was 707 in 1919, 805 in 1920, 721 in 1921, 665 in 1922, and 691 in 1923, of which 450 were males and 241 females. The detailed classification places these ill-defined diseases under two headings—sudden death, including syncope; and unspecified or ill-defined causes, of which the following are specimens:—Asthenia, coma, dentition, exhaustion, heart failure, dropsy, ascites and general ædema, etc. In 1923, the number of deaths which came under the first of these categories was 56, and under the second, 635. It is inevitable that cases will occur regarding which the available information is insufficient to permit of a clear definition of the fatal disease in the certificate of death. In the majority of cases, however, there is little doubt that more satisfactory certificates might have been given.

16. 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 fifteen general headings adopted by the compilers of the International Nomenclature is, however, shown in the following table, together with the death rates and percentages on total deaths pertaining to those classes:—

DEATHS, DEATH RATES (a), ETC., IN CLASSES.—AUSTRALIA, 1923.

	To	tal Deat	hs.	Deat	h Rate:	s. (a)	Proportion of 10,000 Deaths.		
Class.	м.	F.	Total.	м.	F.	Total.	М.	F.	Total.
1. Epidemic, Endemic, and Infectious Diseases 2. General diseases not included above 3. Diseases of the Nervous System and of the Organs of Sense 4. Diseases of the Circulatory System 5. Diseases of the Respiratory System 6. Diseases of the Digestive Organs 7. Diseases of the Genito-Urinary System and Adnexa 8. Puerperal Condition 9. Diseases of the Skin and of the Cellular Tissue 10. Diseases of the Bones and Organs of Locomotion 11. Malformations	3,659 3,713 2,851 4,118 3,998 2,975 2,077 140 79 356	2,808 3,610 2,568 3,072 2,872 2,432 1,335 691 111 46 261	6,467 7,323 5,419 7,193 6,870 5,407 3,412 691 251 125 617	126 128 98 142 138 103 72 5	101 129 92 110 103 87 48 25 4	114 129 95 127 121 95 60 12 4	1,157 1,174 901 1,302 1,265 941 657 44 25 113	1,141 1,466 1,043 1,249 1,167 988 542 281 45 19	1,150 1,302 964 1,279 1,222 961 607 123 44 22 109
12. Early Infancy 13. Old Age	2,166 2,468 2,572 450	1,646 2,217 701 241 24,614	3,812 4,685 3,273 691	75 85 89 15 1,091	59 79 25 9 882	67 82 58 12 989	685 781 813 142	901 285 98 10,000	678 834 582 123

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

17. Causes of Deaths of Children under one Year.—"Bulletin No. 41, Australian Demography," contains tables showing for twenty-six causes the ages at death of children dying during the first year of life. In the Bulletin mentioned, the particulars are given for males and females separately for Australia, but the totals for Australia only are shown hereunder for both sexes combined:—

CAUSES OF DEATHS OF CHILDREN UNDER ONE YEAR.-AUSTRALIA, 1923.

Age at Death.		Measles,	Whooning	Cough.	Diphtheria.	Croup.	Erysipelas.	Pulmonary Tuberculosis.	Tubercular Meningitis.	Tuberculosis, other forms.	Syphilis.	Simple Meningitis.	Cerebro-Spinal Meningitis.	Convulsions.	Acute Bronchitts.
Under 1 week 1 week and under 2 2 weeks , 3 3 , , 1 mon 1 month , 2 mon 2 month , 3 3 , , 4 , 4 4 , , 5 , , 6 , , 6 5 , , 6 , 6 , , 7 7 , , 8 , 8 , , 9 9 , , 10 10 , , 11 , , 11 , , , 12 , ,		1 1 3 3 3 4 2 2 3 6 4 7		1 1 2 6 9 7 7 3 4 6 3 6 4 4	 2 1 3 6 4 5 3 6		1 2 10 6 3 2 1 	1	 1 2 1 1 3 2 1 1 4 3	· · · · · · · · · · · · · · · · · · ·	1 5 3 2 7 7 12 3 1 2 1 1 2	5 3 2 1 11 9 7 18 13 13 15 10 12 11 6	1 1 1 1 2 1 1 1	62 17 10 2 16 6 5 12 7 9 6 10 7 3 8	8 9 10 16 33 24 13 6 4 5 4 6 5
Total under 1 year	••	39		63	31	2	28	6	19	9	50	136	8	180	155
Number of deaths from cause per 1,000 birth	each	.29		46	.23	.01	.21	.04	.14	.07	.37	1.01	.06	1.33	1.15
Age at Death.	Broncho- Pneumonia.	Pneumonia.	Pleurisy.	Diseases of Stomach.	Diarrhœa and Enteritis.	Hernia.	Intestinal Obstruction.	Mulformations.	Congenital Debility, Icterus and Sclerema.	Premature Birth.	Injury at Birth.	Other Diseases peculiar to Farly Infancy	Lack of Care.	Other Causes.	Total.
Under 1 week 1 week and under 2 2 weeks , 3 3 , , 1 mth. 1 month , 2 mths 2 months , 3 ,, 4 ,, 5 , 6 ,, 6 7 ,, 7 ,, 8 ,, 8 ,, 9 ,, 9 , 10 ,, 11 ,, 11 ,, 11 ,, 12 ,,	9 17 16 24 74 45 43 29 19 27 31 24 14 25 29	13 16 16 20 28 22 13 21 21 21 21 17 17 17	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 7 3 8 2 3 2 2 7	20 17 21 119 141 207 215 198 194 148 151 161 130 116	1 1 1	2 1 1 1 5 8 4 4 7 2 2 3 4 3		15 10 5	171 110 77 77 18 127 3 4 3 2 		13	3	49 26 23 18 29 27 30 18 19 35 23 28 29 20	3,087 467 329 264 583 453 462 420 357 364 300 281 292 271
Total under 1 year	426	284	4	76 ——	1,860	4	41	555	986	2,170	251	39:	12	397	8,184
Number of deaths from each cause per 1,000 births	3.15	2.10	.03	.56	13.75	.03	.30	4.10	7.29	16.05	1.86	2.90	.09	2.94	60.52

Pre-natal influences, as evidenced in malformations, congenital debility, and premature birth, together with injuries at birth, accounted for 3,962, or 48 per cent., of all deaths under one year; and of these 3,962 deaths, 2,567, or nearly 65 per cent., occurred within a week of birth. Among the survivors of the first week, diarrhea and enteritis had the most fatal effects. These diseases were responsible for 1,860 deaths, representing nearly 23 per cent. of all deaths under one year, or 13.75 per 1,000 births. Excluding deaths from pre-natal causes already referred to, over 57 per cent. of the deaths between three months and one year of age were due to diarrhea and enteritis.

18. Ages at Death of Married Males and Females, and Issue.—"Bulletin No. 41, Australian Demography," contains a number of tables, showing the age at marriage,

age at death, duration of life after marriage, birthplaces, and occupations, in combination with the issue of married persons who died in Australia in 1923. A short summary of the tables mentioned is given hereunder. Deaths of married males in 1923 numbered 16,624, and of married females, 15,566. The tabulations which follow deal, however, with only 16,234 males and 15,274 females, the information in the remaining 682 cases being incomplete. The total number of children in the families of the 16,234 males was 79,664; and of the 15,274 females, 78,129. 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, 1923.

Age at Death.	 Average Family of Males.	Average Family of Females.	Age at Death.	Average Family of Males.	Average Family of Females.
Under 20 years 20 to 24 years 25 ,, 29 ,, 30 ,, 34 ,, 35 ,, 39 ,, 40 ,, 44 ,, 45 ,, 49 ,, 50 ,, 54 ,, 55 ,, 59 ,, 60 ,, 64 ,, 65 ,, 69 ,,	 $3.83 \\ 4.20$	0.61 1.12 1.75 2.54 3.30 3.51 3.79 4.16 4.58 5.24 5.98	70 to 74 years 75 ,, 79 ,, 80 ,, 84 ,, 85 ,, 89 ,, 90 ,, 94 ,, 95 ,, 99 ,, 100 years and upwards Age unspecified All ages	6.41 6.78 7.06 7.35 7.21	6.32 6.49 6.51 6.52 6.77 6.54 5.92 4.25

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 289. The totals are shown in the following table:—

ISSUE OF MARRIED MALES AND FEMALES.—AUSTRALIA, 1923.

Issue of Married Males.	Males.	Females.	Total.	Issue of Married Females.	Males.	Females.	Total.
Living Dead	31,741 9,163	31,609 7,151	63,350 16,314	Living Dead	29,369 10,613	29,712 8,435	59,081 19,048
Total	40,904	38,760	79,664	Total	39,982	38,147	78,129

These figures show a masculinity in the births of 2.52, which is in harmony with the experience of the birth statistics.

19. Ages at Marriage of Deceased Males and Females, and Issue.—While the table giving the average families of married males and females naturally shows an increase in the averages with advancing ages at death, the following table, which gives the average families 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 AV	VERAGE
ISSUE.—AUSTRALIA, 1923.	

Age at Marriage	·.	Average Family of Males.	Average Family of Females.	Age at Marriage.	Averag Family Males.	of Family of
Under 20 years		6.74	7.15	50 to 54 years	. 1.81	
20 to 24 ,,		5.91	5.63	== =0	. 1.37	1
25 ,, 29 ,,		5.06	4.04	60 64	. 0.56	
30 ,, 34 ,,		4.42	2.97	65 years and upwards	0.59	
35 ,, 39 ,,		3.82	1.64	Age unspecified .	. 5.07	5.08
40 ,, 44 ,,		2.80	0.43			-
45 ,, 49 ,,		2.17	0.04	All ages .	. 4.91	5.12

- 20. Duration of Life after Marriage of Males and Females.—The duration of life after marriage has been tabulated for males and females both in combination with the age at marriage, and with the total and average issue. The tables containing the result do not, however, lend themselves to condensation, and are, therefore, omitted here. They will be found in Bulletin No. 41 of "Australian Demography."
- 21. Birthplaces of Deceased Married Males and Females, and Issue.—The following table shows the birthplaces of married males and females who died in 1923, together with their average issue. No generalizations can, of course, be made in those cases in which the number of deaths was small, but where the figures are comparatively large, as in the case of natives of Australia, differences occur between the averages of the individual States which appear inexplicable on any other ground than that of different age-constitution of the locally born population of the various States due to the different dates of the foundation of settlement. Thus, New South Wales and Tasmania, owing to their early settlement, contain a larger number of locally-born inhabitants of advanced ages than Victoria and Queensland, in which colonization was begun almost fifty years after the foundation of New South Wales. It will be noted that the differences occur both in the male and female averages. Although the figures apply to Australia as a whole, it must be borne in mind that the vast majority of deaths of natives of any one State are registered in that particular State.

BIRTHPLACES OF DECEASED MARRIED MALES AND FEMALES, AND AVERAGE ISSUE.—AUSTRALIA, 1923.

Birthplace.	Married Males.		Married Females.			Married Males.		Married Females.	
	Deaths.	Average Family.	Deaths.	Average Family.	Birthplace.	Deaths.	A verage Family.	Deaths.	Average Family.
New South Wales Victoria Queensland	3,083 2,933 582	5.03 4.17 4.05	3,339 2,761 632	5.16 4.19 3.80	British India and Ceylon Other British Pos-	43	3.93	23	4.39
South Australia Western Australia Tasmania	1,024 107 614	4.78 4.84 4.78	1,002 119 657	4.69 4.15 5.35	Sessions in Asia China Other Asiatic Coun-	3 57	1.00 2.75	1 1	5.00 8.00
Northern Terri-	1				tries British Possessions	18	3.50	8	4.00
New Zealand England	139 3,961	3.37 5.23	94 3,242	3.87 5.53	in Africa Other African Coun-	17	5.24	13	3.70
Wales Scotland Ireland	149 1,017 1,439	5.13 5.26 5.70	104 869 1,837	5.87 5.62 5.92	tries Canada Other British Pos-	25	4.28	17	1.00 6.24
Other British Posses- sions in Europe	20	4.75	18	1.94	sessions in America United States	10 63	2.70 4.17	2 27	5.50 4.33
Denmark France Germany	87 24 395	5.61 2.88 5.82	21 10	5.62 4.40	Other American Countries Other Polynesian	7	4.57	6	4.33
Italy	53 36	5.02 4.83	276 22	6.61 4.95	Islands	14 53	2.93 5.38	5	2.20
Russia Sweden	25 •62	3.00 4.29	15 11 8	6.40 5.50 5.38	Unspecified	46	4.85	48 39	6.48 4.82
Other European Coun-			"						
tries	127	4.23	46	4.94	Total	16,234	4.91	15,274	5.12

22. Occupations of Deceased Married Males, and Issue.—A final tabulation shows the average issue in combination with the occupation of deceased males.

OCCUPATIONS	0F	DECEASED	MARRIED	MALES,	AND	AVERAGE	ISSUE.—
		A	USTRALIA,	1923.			

Occupation.	Deaths of Married Males.	Average Family.	Occupation.	Deaths of Married Males.	Average Family
		, 1			
PROFESSIONAL CLASS-	ì	- 1	INDUSTRIAL CLASS-	1	
Government, Defence, and Law	430	4.47	Art and Mechanic Products	697	4.60
Others		4.14	Textiles and Fibrous Material	s 345	4.44
			Food and Drinks	249	5.04
		1 1	Animal and Vegetable Sub-		
DOMESTIC CLASS-			stances	58	5.07
Board and Lodging	298	3.71		422	4.88
Others	215	4.03		53	3.42
	1	1	Building and Construction	1,061	4.75
COMMERCIAL CLASS-		; !:	Others	2,957	4.85
Property and Finance	215	4.04		-/	
Art, Mechanic and Textile	1		AGRICULTURAL, PASTORAL,		
Products	167	3.86	MINING, ETC., CLASS-	i	
Food and Drinks	90.9	4.50	Agricultural	2.602	6.26
Animal and Vegetable Sub-		ار ۱۰۰۰	Pastoral	630	5.54
stances	76	4.79	Mining and Quarrying	883	5.15
Fuel, Light and Metals	43	4.10	Others	116	5.69
Merchants and Dealers	482	4.32	***************************************	1	1
Others	500	3.58	INDEPENDENT MEANS	432	5.33
TRANSPORT AND COMMUNICA-	İ		DEPENDENTS	8	5.75
TION CLASS-		1 1		1	
Railways	454	4.82	OCCUPATION NOT STATED	668	4.85
Roads and Trams		4.48		1	
Seas and Rivers		4.15	•		
Others	106	4.29	Total	16,234	4.91

§ 4. Graphical Representation of Vital Statistics.

- 1. General.—The progressive fluctuations of the numbers of births, marriages, and deaths are important indexes of the economic conditions and social ideals of a community. Graphs have accordingly been prepared which show these fluctuations. It should be remembered, however, that, normally, the increase of births and marriages should be proportional to the growth of population.
- 2. Graphs of Annual Births, Marriages, and Deaths.—The outstanding features of the graph representing births are:—An almost continuous rise in the numbers from 1860 to 1891; a decline till 1998, associated with the commercial crisis of 1891-3; a sharp fall in 1903 which accompanied a severe drought; an uninterrupted increase from 1903 to 1914, the total for 1914 being the highest recorded; a rapid decline until 1920, the result of war conditions. The figures for the last four years show a tendency to return to normal.

The graph for marriages up to 1914 discloses approximately the same features as that for births—financial crises and droughts having a similar effect. The numbers for 1914 and 1915 showed a considerable increase over previous years. From 1916 to 1918 there was a rapid fall, the numbers being much below those of pre-war years. During 1919 and 1920 the recovery was very rapid, the total for the latter year being the highest ever recorded. The totals for 1921, 1922, and 1923 were not so favourable.

The characteristic feature of the graph of deaths is its irregular nature. On the whole, however, there is an increase which is due to the growth of population.

3. Graphs of Annual Birth, Marriage, and Death Rates, and Rate of Natural Increase.—The graph of the birth rate indicates a well-marked decline throughout the whole period. This reduction of rate has been subject to fluctuations, there being two periods of arrested decline, viz., from 1877 to 1890, and from 1903 to 1912.

The variations in the marriage rates though less abrupt than those in the birth and death rates have ranged from a minimum of 6.08 per 1,000 which marked the culmination of a commercial depression to a maximum of 9.62 per 1,000 in 1920.

On the whole, the graph for the death rate furnishes clear evidence of a satisfactory decline during the period. The graph brings into prominence six years in which the rates were very high when compared with adjacent years, viz., 1860, 1866, 1875, 1884, 1898, and 1919. Epidemics of measles were largely responsible for the high rates in the first five years, while influenza caused the increase during 1919.

The graph of natural increase shows roughly the same variations as that for the birth rate, but the influence of the death rate is indicated by the very low rates of natural increase for 1875, 1898, and 1919, which resulted from the exceptionally high death rates of those years.