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# CHAPTER XVII.

# VITAL STATISTICS.

[Note.—1. In the Vital Statistics chapter of Official Year Book No. 35 tables covering a single year related to 1941. In the last issue these tables covered 1944 and, where possible, 1942 and 1943. In the present issue these tables cover 1946 and, where possible, 1945. In some cases, however, space does not permit of the inclusion of figures for 1945. These figures will be found in *Demography Bulletin*, No. 63 unless otherwise specifically indicated.

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

# § 1. Marriages.

1. Number, 1946.—The number of marriages registered in Australia during the year ended 31st December, 1946, was 79.496, giving a rate of 10.64 per 1,000 of the mean population for the year. In 1942 both the number and the rate were the highest on record. A summary of the number of marriages registered in each State and Territory since 1861 is given in the following table:—

### MARRIAGES.

Year		N.S.W.	Victoria.	Q'land.	S Aust	W. Aust.	Tas.	N.T.	A.C.T.	Aust.
1 ear	•	11.5.11.	VICTOIIA.	Q land.	G. Aust.	W. Aust.	Las.	1.1.	A.O.1.	Aust.
Annual	Aver-									
age-			1	1			İ			
ĭ1861-	-1865	3,384	4,447	738	1,245	153	668			10,635
1866-	-1870	3,654	4,580	930	1,287	164	629			11,244
1871-	-1875	4,242	4,874	1,255	1,494	167	658			12,690
	-188o	5,181	5,083	1,493	2,137	196	817	١		14,907
1881-	-1885	7,148	6,718	2,326	2,476	223	1,000	• • •		19,891
1886-	-1890	7,730	8,567	3,054	2,067	299	959			22,676
1891-	-1895	7,985	7,543	2,705	2,142	466	905			21,746
1896-	-1900	9,094	7,852	3,102	2,190	1,572	1,098			24,908
1901-	-1905	10,435	8,294	3,154	2,412	2,024	1,342	(a) 7		27,668
1906-	-1910	12,742	9,502	4,203	3,159	2,098	1,446	10		33,160
1911-	-1915	16,741	11,762	5,696	4,032	2,552	1,549	16	(b) 4	42,352
1916-	-1920	15,744	11,321	5,397	3,756	2,145	1,443	27	5	39,838
	-1925	18,041	13,293	6,072	4,200	2,564	1,594	14	4	45,782
1926-	-1930	19,253	12,955	6,279	4,036	3,167	1,506	23	30	47,249
1931-	-1935	18,742	12,773	6,950	3,967	3,328	1,638	29	53	47,480
1936-	-1940	25,295	17,784	8,982	5,726	4,399	2,187	83	85	64,541
1941-	-1945	28,506	19,450	10,563	6,517	4,668	2,097	71	109	71,981
Year—			[			1				
1942		34,533	23,636	11,722	8,129	5,441	2,431	53	115	86,060
1943	٠.	26,302	18,356	9,979	6,263	4.528	2,102	46	97	67,673
1944		26,426	17,857	11,325	6,019	4,506	1,935	31	102	68,201
1945		25,283	16,501	9,905	5,321	3,788	1,868	48	108	62,822
1946		31,684	21,405	11,666	6,700	5,171	2,650	63	157	79,496
1940	• •	31,084	21,405	11,000	0,700	5,171	2,050	03	157	79.49

<sup>(</sup>a) Included with South Australia prior to 1901.

<sup>(</sup>b) Part of New South Wales prior to 1911.

MARRIAGES.

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

CRUDE	MARRI	AGE-R	ATFS(a).

						<del></del> -		· · · · ·	
Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	N.T.	A.C.T.	Aust.
		į					-	-	
Annual Aver-		!			l	1		1	ł
age		1		ĺ		ſ	İ	1	
1861–1865	9.05	7.86	13.32	8.83	8.44	7-35			8.54
1866–1870	8.06	6.90	9.21	7.39	6.97	6.44	٠		7.43
1871-1875	7.79	6.37	9.11	7.61	6.43	6.38			7.16
1876–1880	7.84	6.17	7.68	8.73	6.89	7.51			7.23
1881–1885	8.55	7.41	8.82	8.36	6.98	8.19			8.10
•006 •000	l	0	0	66-	6.96		1	{	
1886-1890 1891-1895	7.53	8.15 6.46	8.55	6.65	7.07	7.03		• • •	7·75 6.54
1896–1900	6.71	6.63	6.52 6.60	6.16	10.11	6.61	••		6.84
1901-1905	7.38	6.89	6.12	6.76	9.30		61.69	• • •	7.10
1906-1910	8.10	7.63	7.50	8.32	8.06	7.71	2.68		7.88
1900 1910	0.10	7.03	7.50	0.52	0.00	/./-	] 2.00		7.00
1911-1915	9.32	8.48	8.69	9.32	8.26	8.00	4.41	62.04	8.86
1916-1920	8.05	7.80	7.62	8.17	6.76	7.17	5.68	1.94	7.25
1921-1925	8.20	8.29	7.62	8.14	7.28	7.40	3.81	1.06	8.04
1926-1930	7.87	7.43	7.11	7.13	7.80	6.96	5.05	3.80	7.53
1931-1935d	7.19	7.01	7.34	6.83	7.57	7.19	5.90	5.70	7.16
1936-1940d		9.50	8.95	9.64	9.48	9.25	12.71	7.14	9.33
1941 <b>-</b> 1945 <i>d</i>	9.98	9.87	10.05	10.63	9.75	8.61	7.14	7.57	9.95
Year-		. ]	ļ						
1942(d)	12.20	12.06	11.32	T2 24	11.41	10.08	5.93	8.08	11.99
1942(a)	9.20	9.30	9 53	13.34	9.50	8.65	4.81	7.11	9.35
1943(d)	9.15	8 97	10 67	9.72	9.36	7.88	2.97	7.18	9.33
1944(a)	8.67	8.22	9.20	8.48	7.77	7.51	4.57	7.19	8.50
1946(d)	10.76	10.57	10.70	10.55	10.49	10.51	5.97	9.88	10.64
-24-/-/	,5			-5.55			3.71	,	
		<del></del>						:	

<sup>(</sup>a) Number of marriages (not persons married) per 1,000 of mean population.

South Australia prior to 1901. (c) Part of New South Wales prior to 1911. (d) Revised in accordance with the preliminary results of the Census of 3cth June, 1947.

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

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

CRUDE MARRIAGE-RATES (a): VARIOUS COUNTR
--

Country.		1908-13.	1921-25.	1926-30.	1931-35.	1946
<del></del>	-	-				
United States of America		(e)	10.6	9.9	9.2	16.2
France		7.9	9.5	8.2	7.4	12.7
New Zealand (b)		8.5	8.o	7.7	7.3	12.4
Netherlands		7-5	8.2	7.7	7.2	11.4
Rumania		9.5	10.4	9.4	9.0	11.3
Germany		7.8	9.4	8.7	9.3	(g):1.2
Canada		(e)	7.3	7.3	6.4	10.9
Union of South Africa (c)		(e)	8.0	9.3	9.4	(h)10.8
Belgium		7.9	10.6	9.1	7.8	10.8
Hungary		(e)	10.0	9.2	8.5	10.7
Australia $(d)$		8.4	8.1	7.6	7.2	10.6
New South Wales (d)		8.8	8.2	8.0	7.2	10.8
Queensland(d)		8.2	7.5	6.9	7.3	10.7
South Australia (d)		9.1	8.1	7.0	6.8	10.6
$Victoria\ (d)$		8.o	8.3	7.4	7.0	10.6
Tasmania $(d)$		7.9	7.4	7.1	7.2	10.5
$We stern \ Australia \ (d) $		8.1	7.3	8.0	7.6	10.5
Denmark		7.3	7.9	7.8	8.7	9.8
Czechoslovakia		7.7	10.0	9.3	8.2	9.8
Sweden		6.0	6.3	6.7	7.3	. 9.3
It ly		7.7	9.0	7.3	6.8	9.1
Great Britain and Northern Ireland	٠	7.3	7.7	7.5	7.9	9.0
England and Wales		7.6	7.8	7.7	8.1	9.0
Scotland		6.7	7.1	6.7	7.1	8.9
Northern Ireland		5.2	6.2	5.9	6.2	7.4
Norway		6.2	6.3	6.1	6.5	(g) 8.9
Switzerland	٠.	7.3	7.7	7.5	7.7	8.7
Argentine		6.8	7.2	7.4	6.5	(i) 8.2
Poland		7.0	9.9	9.2	8.4	(f) 8.1
Finland		6.1	7.1	7.2	7.2	(i) 8.c
Yugoslavia		(e)	10.6	9.5	7.8	(g) 7 9
Chile		(e)	6.9	9.3	6.9	7.8
Portugal		6.9	7.9	6.9	6.6	7.6
Japan		9.3	8.8	8.6	7.6	(1) 7.5
Spain		7.0	7.3	7.3	6.5	7.2
Greece		(e)	7.5	7.1	6.8	(f) 6.
Mexico		(e)	(e)	(e)	6.1	6.1
Eire		5.2	4.9	4.6	4.6	5.9

<sup>(</sup>a) Number of marriages per 1.000 of mean population, population only. (d) Excludes full-blood aboriginals. (g) 1939. (h) 1943. (l) 1944.

4. Age and Conjugal Condition at Marriage.—(i) General. Age at marriage in single ages and previous conjugal condition of bridegrooms and brides in 1945 and 1946 will be found in Demography Bulletin, Nos. 63 and 64. A summary in age-groups is given hereunder for these years. There were 5,090 males aged less than twenty-one years married during 1946 while the corresponding number of females was 20,896. At the other extreme there were 80 bachelors, and 29 spinsters in the age-group 65 years and over.

Information regarding the percentage distribution of bridegrooms and brides is shown for 1907-10, in five-year periods thereafter until 1945 and for each of the years 1944, 1945 and 1946.

<sup>(</sup>b) Excludes Maoris. (e) Not available.

<sup>(</sup>c) White (f) 1938

AGE AND CONJUGAL CONDITION OF PERSONS MARRIED: AUSTRALIA.

Age at		Brideg	rooms.		Brides.					
Marriage (Years).	Bachelors.	Widowers.	Divorced.	Total.	Spinsters.	Widows.	Divorced.	Total.		
				1945.						
Under 20	2,114			2,114	10,318	6	7	10,331		
20-24	23,841	26	71	23,938	28,459	208	350	29,017		
25-29	16,392	142	483	17,017	9,778	437	826	11,041		
30-34	7,123	249	778	8,150	3,842	401	904	5,147		
35-39	3.224	347	792	4,363	1,865	372	664	2,901		
40-44	1,602	359	566	2,527	899	365	410	1,674		
45-49	781	451	399	1.631	468	385	233	1,086		
50-54	357	497	248	1,102	226	. 335	138	699		
55-59	205	512	137	854	111	257	60	428		
60-64	84	404	48	536	56	199	16	271		
65 and over	70	496	24	590	21	191	15	227		
Total	55,793	3,483	3,546	62,822	56,043	3,156	3,623	62,822		
	<u> </u>			1946.	<u>!-</u>		<u> </u>			
					i i		1			
Under 20	2,250		I	2,251	13,250	8	12	13,270		
20-24	31,216	30	98	31.344	37,260	245	459	37,964		
25-29	22,061	162	729	22,952	12,330	627	1,091	14,048		
30-34	8,861 3,806	330	1,006	10,197	4,551	637	1,085	6,273		
35-39		376	970	5,152	1,986	455	787	3,228		
40-44	1,686 853	391 418	683	2,760 1,692	977	421	444	1,842		
45-49	385		421	1,110	509 265	397	272	1,178		
50-54	191	494 520	231 149	860	132	330 266	125	720		
55-59 60-64	102	400	59	561	69	172	73 21	471 262		
65 and over	80	504	33	617	29	196	14	239		
Not stated		304		017	9	190	14	~39 I		
1100 304004										
Total	71,491	3,625	4,380	79,496	71,358	3,755	4,383	79, <b>49</b> 6		
			PERCENT	AGE OF T	OTAL.					
,	%	%	%	%	%	%	%	%		
1907-10	93.11	6.41	0.48	100.00	94.17	5.22	0.61	100.00		
1911-15	93.92	5.51	0.57	100.00	94.62	4.62	0.76	100.00		
1916-20	92.82	6.33	0.85	100.00	93.44	5.59	0.97	100.00		
1921-25	92.18	6.38	1.44	100.00	92.99	5.49	1.52	100.00		
1926-30	92.31	5.93	1.76	100.00	93.46	4.55	1.99	100.00		
1931-35	92.63	5.39	1.98	100.00	94.37	3.53	2.10	100.00		
1936-40	92,59	4.82	2.59	100.00	93.94	3.38	2.68	100.00		
1941-45	91.44	4-77	3.79	100.00	92.11	3.93	3.96	100.00		
1944	90.79	4.94	4.27	100.00	91.45	4.14	4.41	100.00		
1945	18.88	5.54	5.65	100.00	89.21	5.02	5.77	100.00		
1946	89.93	4.56	5.51	100.00	89.76	4.73	5.51	100.00		

(ii) Relative Ages of Bridegrooms and Brides. The relative ages of bridegrooms and brides in 1945 and 1946 are shown in single years in Demography Bulletin, Nos. 63 and 64. A summary in age-groups of five years is given below:—

### RELATIVE AGES OF BRIDEGROOMS AND BRIDES: AUSTRALIA.

Bridegrooms Bride	Total	Age of Brides (Years).								
	Bride- grooms.	Under 15.	15–19.	20-24.	25-29.	30-34.	35-39•	40-44.	45 and over.	

#### 1945.

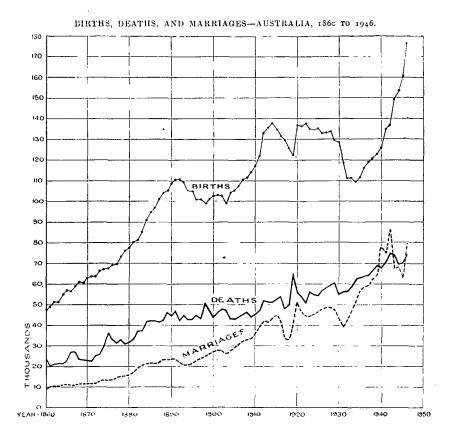
					<del>, '                                     </del>		,	
2,114	7	1,457	606	39	4			1
23,938	2	6,301	15,488	1,888	209	41	7	2
17,017		1,947	9,240	4,577	1,025	186	29	13
8,150		454	2,640	2,725	1,679	504	110	38
4.363		119	759	1,161	1,158	819	247	100
2,527		29	190	428	612	607	441	220
1,631		9	65	143	273	372	349	420
1,102		3	14	51	IÓI	219	259	455
854		3	13	15	55	100	142	526
536			1	8	18	34	63	412
590			1	6	13	19	27	524
								—
62,822	9	10,322	29,017	11,041	5,147	2,901	1,674	2,711
	23,938 17,017 8,150 4.363 2,527 1,631 1,102 854 536	23,938 2 17,017 8,150 4.363 2,527 1,631 1,102 854 536 590	23,938 2 6,301 17,017 1,947 8,150 454 4.363 119 2,527 29 1,631 9 1,102 3 854 3 536 590	23,938 2 6,301 15,488 17,017 1,947 9,240 8,150 454 2,5640 4,363 119 759 1,631 9 65 1,102 3 14 854 3 13 536 11	23,938     2     6,301     15,488     1,888       17,017      1,947     9,240     4,577       8,150      454     2,640     2,725       4,363      119     759     1,161       2,527      29     190     428       1,631      9     65     143       1,102      3     14     51       854      3     13     15       530      1     8       590      1     6	23,938     2     6,301     15,488     1,888     209       17,017      1,947     9,240     4,577     1,025       8,150      454     2,640     2,725     1,679       4,363      119     7,59     1,161     1,158       2,527      29     190     428     612       1,631      9     65     143     273       1,102      3     14     51     101       854      3     13     15     55       536       1     8     18       590       1     6     13	23,938     2     6,301     15,488     1,888     209     41       17,017      1,947     9,240     4,577     1,025     186       8,150      454     2,640     2,725     1,679     504       4,363      119     7,59     1,161     1,158     819       2,527      29     190     428     612     607       1,631      9     65     143     273     372       1,102      3     14     51     101     219       854      3     13     15     55     100       536       1     8     18     34       590       1     6     13     19	23,938     2     6,301     15,488     1,888     209     41     7       17,017      1,947     9,240     4,577     1,025     186     29       8,150      454     2,640     2,725     1,679     504     110       4,363      119     759     1,161     1,158     819     247       2,527      29     190     428     612     607     441       1,631      9     65     143     273     372     349       1,102      3     14     51     101     219     259       854      3     13     15     55     100     142       536       1     8     18     34     63       590       1     6     13     19     27

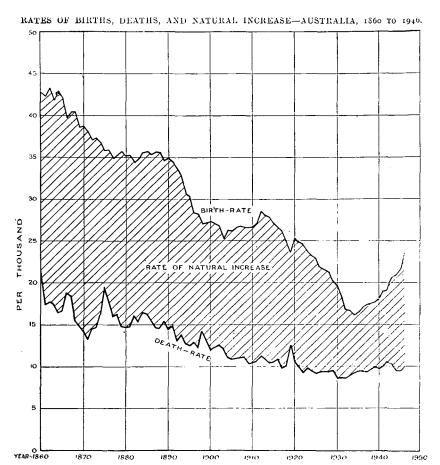
### 1946.

	<del></del>								
Under 20	2,251	. 2	1,535	684	24	5	I		
20-24	31,344	8	8,335	20,125	2,550	278	39	9	• •
25-29	22,952	2	2,650	12,599	6,074	1,312	260	43	12
30-34	10,197	1	559	3,403	3,333	2,125	606	131	39
35-39	5,152		134	830	1,382	1,432	944	337	93
40-44	2,760	I	25	213	452	683	679	456	251
45-49	1,692		11	70	145	278	389	370	429
50-54	1,110		6	24	43	92	179	254	512
55-59	860		I	7	27	42	88	146	549
60-64	(a) 560			6	13	19	31	57	434
65 and over	617			3	5	7	12	39	551
Total Brides	79,496	 14	13,256	37,964	14,048	6,273	3,228	1,842	<b>2,8</b> 70

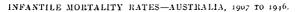
<sup>(</sup>a) Excludes one bridegroom the age of whose bride was not stated.

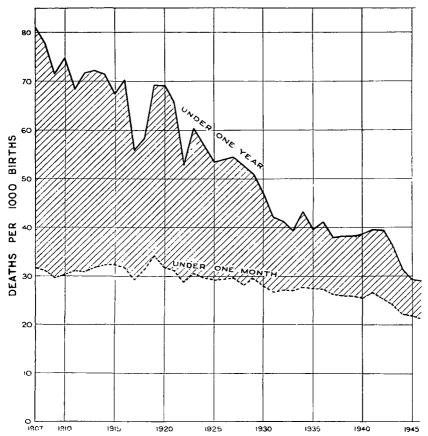
<sup>(</sup>iii) Arcrage Ages of Bridegrooms and Brides. The age at marriage of brides declined slightly during recent years to an average of about 25½ years, although in the period 1937-39 this decline was temporarily arrested and the average rose to almost 26 years. The ages for the past six years were:—1941, 25.75; 1942, 25.55; 1943, 25.62; 1944, 25.57; 1945, 25.93; and 1946, 25.51. For the following five-yearly periods the average ages were:—1911-15, 25.76 years; 1916-20, 26.05 years; 1921-25, 25.76 years: 1926-30, 25.57 years; 1931-35, 25.50 years; 1936-40, 25.72 years; and 1941-45,



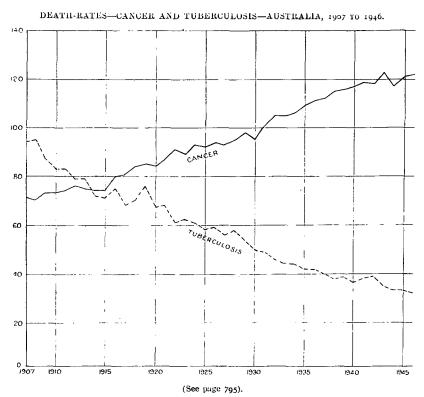


EXPLANATION.—The upper curve represents the number of births per 1,000 persons, while the lower curve represents the corresponding death-rate. The distance between the two curves is the rate of natural increase.





EXPLANATION.—This graph shows the marked improvement in infantile mortality rates over the past 40 years. The improvement has been confined mainly to children over one month, very little change having occurred in the first month of life (see page 773).



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

25.68 years. The average age of bridegrooms was 29.04 in 1941, 28.80 in 1942, 28.99 in 1943, 28.85 in 1944, 29.29 in 1945, and 28.73 in 1946. It follows, therefore, that brides are, generally speaking, three and one-quarter years younger than bridegrooms. The average age of brides and bridegrooms for the years 1940–46 shows the effects of war-time conditions. The proportion of young persons marrying during those years increased, thereby causing decreases in the average ages of both brides and bridegrooms. The difference in age between brides and bridegrooms was 3.29 years in 1941, 3.25 in 1942, 3.37 in 1943, 3.28 in 1944, 3.36 in 1945, and 3.22 in 1946.

5. Previous Conjugal Condition.—The number of bachelors and spinsters, widowed and divorced persons, who were married during 1946 has already been given. The following table shows the conjugal condition of the contracting parties. Corresponding figures for 1945 may be obtained from *Demography Bulletin*, No. 63.

# PREVIOUS CONJUGAL CONDITION OF PERSONS MARRIED: AUSTRALIA, 1946.

Conjugal Condition	Total	Conjugal Condition of Brides.					
of Bridegrooms.	Bridegrooms.	Spinsters.	Widows.	Divorced.			
Bachelors	 3,625 1,0		2,147 1,120 488	2,921 538 924			
. Total Brides	 79,496	71,358	3,755	4,383			

- 6. Birthplace of Persons Marrying.—A table showing birthplace of persons marrying in 1911, 1921 and 1940 may be found on p. 326 of Official Year Book No. 34. In Demography Bulletin, Nos. 63 and 64, the relative birthplaces of bridegrooms and brides marrying in 1945 and 1946 will be found tabulated in detail. No such tabulations were made for the years 1941 to 1944.
- 7. Occupation and Age of Bridegrooms.—For 1938 the average ages at marriage of bridegrooms in the larger classes of occupations were as follows:—Professional, 30.8 years; Domestic, 30.5 years; Commercial, 29.6 years; Transport, 29.8 years; Industrial, 28.9 years; and Primary Producers, 30.9 years. Tabulation of this information was discontinued during the war years.
- 8. Celebration of Marriages.—In all the States marriages may be celebrated either by ministers of religion who are registered for that purpose with the Registrar-General, or by certain civil officers—in most cases district registrars. Most of the marriages are celebrated by ministers of religion. The registered ministers in 1946 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 bracketed under the heading "Other Christian." The figures for 1946 are shown in the following table. Corresponding figures for 1945 may be obtained from Demography Bulletin, No. 63.

### MARRIAGES IN EACH DENOMINATION, 1946.

										Aust	ralia.
Denomination.		N.S.W.	Vic.	Qld.	S.A.	W.A.	Tas.	N.T.	A.C.T.	No.	Per Cent.
Church of Englan	ıd	13,231	6,685	3,404	1,647	2,215	1,059	13	72	28,326	35.63
		6,282	4,022	2,462	758			16		14,722	
		3,512	3,200		2,267	785			8	12,327	15.51
	j	3,818	4,192	2,249	363	485	168	5	22	11,302	14.22
	.	479	658	234	223	56	105		1	1,756	2.21
	.	496	299	170	262	105	57			1,389	1.75
	!	143	415	93	222	54	26			953	1.20
		43	94	231	316	4	٠			688	o.86
Salvation Army .	. 1	114	109	114	41	25	22			425	0.53
	1- 1	·		i		_					
	. :	83	31	31	9	19	. 5			178	0.22
Greek Orthodox .		75	22	19	10	17				143	0.18
Unitarian .		6	24		6					36	0.05
Other Christian .	. 1	131	75	140	10	17	20			393	0.49
Hebrew	•	120	173	9	1	14		• •		317	0.40
Total .	.   :	28.533	19,999	11,265	6,135	4,487	2,334	55	147	72,955	91.77
Civil Officers .	-	3,151	1,406	401	565	684	316	8	10	6,541	8.23
Grand Total .	.	31,684	21,405	11,666	6,700	5,171	2,650	63	157	79,496	100.00
Percentage of Tota Marriages cele brated by—											
	of	%	%	%	%	%	%	%	%	%	/ D
TO 11 1	- 1	90.05		96.56	91.57	86.77	88.08	87.30	93.63	oi'	·77
Civil Officers .		9.95	6.57	3.44	8.43	13.23	11.92	12.70	6.37		.23

# § 2. Fertility and Reproduction.

- 1. Introductory.—Of the two elements of increase in the population, namely natural necesse and net migration, the former has been by far the more important over the past few decades. The level of natural increase depends on the excess of births over deaths and the relation between fertility and mortality determines the rate of reproduction or replacement of the population.
- 2. Number of Live Births.—(i) Year, 1916. There are various methods of measuring the fertility of the population by relating the number of births to the numbers in the population. In each the basic data are, of course, the number of live births.

The number of live births registered in Australia during 1946 is shown in the table below. The table shows also the number of confinements resulting in one or more live births. The figures exclude cases where the births were of still-born children only. Corresponding figures for 1945 may be obtained from *Demography Bulletin*, No. 03.

# LIVE BIRTHS, 1946.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust	Tas.	N.T.	A.C.T.	Australia.
			MATE	Browne					-

#### MALE BIRTHS.

Single births Twins Triplets	33,959 725 6	23,540 563 16	13,602 284 2	7,921 179 6	6,161 124	3,494 66	66 	251 3	88,994 1,944 30
Total	34,690	24,119	13,888	8,106	6,285	3,560	66	254	90,968

#### FEMALE BIRTHS.

Single births Twins Triplets	31,750 800 7	22,016 533 25	12,861 272 3	7,560 147 	5,674 141 5	3,212 75	66 	<sup>2</sup> 59 5	83,398 1,973 40
Total	32,557	22,574	13,136	7,707	5,820	3,287	66	264	85,411

### TOTAL BIRTHS.

Single births Twins Triplets	65,709 (a)1,525 (f) 13	(b) 1,096	26,463 556 (g) 5	326	11,835 (c)265 (y) 5	6,706 (d)141	132 		172,392 (e) 3,917 (h) 70
Total	67,247	46,693	27,024	15,813	12,105	6,847	132	518	176,379

# TOTAL CONFINEMENTS (LIVE BIRTHS).

				4	1		1 -	,	ı .
Mothers of Nuptial Children Mothers of	63,580	. 44,435	25,142	15,144	11,450	6,505	108	508	166,872
Ex-nuptial Children	2,922	1,697	1,601	502	528	279	24	6	7,559
Total Mothers	66,502	46,132	26,743	15,646	11,978	6,784	132	514	174,431

<sup>(</sup>a) Excludes 51 still-born twins. (b) Excludes 28 still-born twins. (c) Excludes 17 still-born twins. (d) Excludes 15 still-born twins. (e) Excludes 111 still-born twins. (f) Excludes 2 still-born triplets. (g) Excludes 1 still-born triplet. (h) Excludes 5 still-born triplets.

Note.—For Queensland and South Australia the differentiation between single and multiple births cannot be regarded as completely accurate as the registration procedure there adopted differs from that in other States.

(ii) Years 1861 to 1946. The annual average number of live births in each State and Territory for each five-year period from 1861 to 1945 and the total number of live births in each State and Territory for each year 1942 to 1946 are given in the following table:—

LIVE BIRTHS.

		1			1		 	I	}
Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	N.T.	A.C.T.	Aust.
						]			
Annual Aver-				!	l	 			
1861-1865	15,992	24,670	2,352	6,095	653	3,090			52,852
1866–1870	18,529	26,210	4,524	7,014	761	2,936			59,974
1871–1875	21,308	27,272	5,856	7,279	807	3,064			65,586
1876–1880	25,514	26,470	7,507	9,262	922	3,433	••		73,108
1881–1885	31,793	28,051	9,796	11,324	1,093	4,286			86,343
1886–1890	37,660	34,461	14,030	10,640	1,539	4,742		ĺ !	103,072
1891-1895	39,513	36,171	14,573	10,619	2,048	4,959			107,883
1896–1900	36,716	31,089	1.4,193	9,436	4,480	4,681			100,595
1901-1905	37,968	30,182	13,770	8,883	6,682		(a) 31		102,644
1906–1910	42,967	31,257	15,022	9,699	7,690	5,465	31	• •	112.131
1911–1915	51,631	35,205	19,100	12,092	8,844	5,807	47	(b) 43	132,769
1916-1920	51,543	33,339	19,438.		7,728	5,469	83	40	129,166
1921-1925	54,439	35,964	20,058	11,744	8,055	5,566	68	33	135,927
1926–1930	53,308	34,333	19,361	11,006	8,748	4,819	70	118	131,763
1931-1935	44,964	28,380	17,480	8,646	8,061	4,547	79	145	112,302
1936–1940	47,679	30,282	19.534	9,388	8,877	4,866	125	221	120,972
1941-1945	56,583	38,002	23,431	12,546	10,409	5,418	113	384	146,886
Year-				1					
1942	52,647	35,927	21,166	11,278	9,901	5,305	92	392	136,708
1943	57,265	39,117	23,234	13,145	10,481	5,597	- 8o	376	149,295
1944	59,612	39,358	24,520	13,311	10,870	5,200	89	384	153,344
1945	61,662	41,200	26,713	14,033	10,672	5,785	90	405	160,560
1946	67,247	46,693	27,024	15,813	12,105	6,847	132	518	176,379
		<u> </u>					<u> </u>		<u> </u>

<sup>(</sup>a) Included with South Australia prior to 1901.

<sup>(</sup>b) Part of New South Wales prior to 1911.

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

Crude birth-rates for each five-year period from 1861 to 1945 and for each year from 1942 to 1946 for each State and Territory are set out below:—

# CRUDE BIRTH-RATES.(a)

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	N.T.	A.C.T.	Aust.
Annual Average— 1861-1865 1866-1870 1871-1875 1876-1880 1881-1885	42.75 40.85 39 13 38.61 37.99	43·53 39·50 35·68 32·12 30·99	43·37 44·42 42·69 38·55 37·39	43.30 40 21 37.17 37.85 38.20	35 68 32.35 31.08 32 49 34.23	33.99 30.08 29.69 31.49 35.10			42.44 ·39.60 37.04 35.46 35.17
1886–1890 1891–1895 1896–1900 1901–1905 1906–1910	36.63 33.20 28.12 26.83 27.35	32.79 30.96 26.24 25.05 25.12	39 24 35 13 30 27 26 73 26 87	34.23 31.47 26.58 24.87 25.57	35 7 <sup>2</sup> 31.49 28 54 30 55 29 56	34 73 32 89 28 29 28 64 29.14	(b)7.04 8.41		35.22 32.42 27.68 26.36 26.67
1911- 1915	28 75	25.39	29 14	28 33	28 62	30.01	12.70	c18 76	27.78
1916–1920	26 31	23 04	27 53	25.19	24.50	27.31	17.82	16 11	25 36
1921–1925	24.76	22.42	25 20	22 76	22.88	25.84	18.19	9.61	23 89
1926–1930	21 79	19 67	21 92	19 42	21 55	22 29	15.70	14 65	21.00
1931–1935 <i>d</i>	17.29	15.60	18 49	14.89	18.37	19 95	15.99	15 81	16.95
1936–1940d	17.51	16.20	19.4 <sup>8</sup>	15 82	19.16	20.57	19.84	18.50	17.51
1941–1945d	19.78	19.25	22.26	20.41	21.71	22.23		26.84	20.26
Year—  1942 $(d)$ 1943 $(d)$ 1944 $(d)$ 1945 $(d)$ 1946 $(d)$	18.59	18.33	20 43	18.51	20.77	22.00	10.30	27.56	19.05
	20.04	19 82	22.19	21.43	21 98	23.04	8.37	27.57	20.63
	20.65	19 78	23 10	21.49	22.57	21.17	8.53	27.05	20.98
	21.13	20.53	24.81	22.37	21.88	23.27	8.57	26.98	21.73
	22.83	23.05	24.79	24.89	24.56	27.15	12.50	32.61	23.62

<sup>(</sup>a) Number of births per 1.000 of mean population.

(b) Included with South Australia prior to 1911.

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

(d) Revised rates based on mean populations adjusted in accordance with the preliminary results of the Census of 30th June, 1947.

Note.—The birth-rates in the table above are based on live births registered in the respective States and Territories. Some years ago a large proportion of births in respect of which the mother's usual residence was the Australian Capital Territory took place in Queanbeyan, just over the New South Wales border, but with improved hospital facilities in the Territory the movement to outside hospitals rapidly diminished and has been reversed since 1039. The following rates, based on births in respect of which the mother's usual residence is the Australian Capital Territory, are a truor measure of birth-rates in the Australian Capital Territory:—

Annua! Av	erage.			Yea	r.	
1921-1925		17.C7	1942	 	24.11	
1926-1930		22.45	1943	 	22.95	
1931-1935		19.53	1944	 	21.41	
1936-1940		19.29	1945	 	22.58	
1941-1945		23.06	1946	 	. 26.00	

The variations similarly caused in the birth-rates for the States and Northern Territory by referring the birth registrations to the State or Territory in which the mother was usually resident are shown by the following corrected rates for 1946:—New South Wales, 22.85; Victoria, 23.00; Queensland. 24.92; South Australia. 24.86; Western Australia. 24.57; Tasmania, 27.22: and Northern Territory, 13.16.

The preceding table shows a marked reduction in the crude birth-rate since 1861. The average annual rate, which for the five years ended 1865 was 42.44, fell to 27.68 for the five years ended 1900. In the earlier years of the present century the rate fluctuated somewhat but from 1912, when 28 60 was recorded, there was an almost continuous decline to the very low figure of 16.39 in 1934. The decline in the depression years was to some extent occasioned by the postponement of marriages but with subsequent improvement in economic conditions the rate rose. Since 1940 the rate has increased quite appreciably due both to a continued improvement in the economic welfare of the community and the war-time boom in marriages. The latter has resulted in an abnormal number of first births but investigation indicates that rates for births other than first were generally slightly higher than might have been expected from pre-war experience.

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

CRUDE BIRTH-RATES (a): VARIOUS COUNTRIES.

	12.5
}	
Mexico (c) $(f)$ 31.9 36.7 43.1	
Ceylon 36 9 39.2 40 4 36 9 (i)	10.5
	39.6
	32.4
1	30.2
73.1 3 3.7 -3.7 -3.7	27.7
Their of Street Africa (1)	26 9
	26.9
**	25.9
	25.3
37 7 3 3 3 3 3 3 3 3 3	
	25.2
	25.0
	24.6
	24.4
	23.8
	23.6
	27.1
	24.9
	24.8
	24.6
37 0 12 22 3	23.I
	22.8
	23.5
	23.4
	23.3
	22.9
	22.5
	22.5
	22.2
	20.6
	20.4
Switzerland 24 7 19.5 17 6 16.4	20.0
	19.6
Great Britain and Northern Ireland . 24.6 20.4 17.2 15.5	19.4
Northern Ireland	22.6
	20.3
England and Wales 24.9 19.9 16.5 15.0	19.1
	184
	18.2
	16.5

<sup>(</sup>a) Number of births per 1.000 of mean population. (b) White population only. (c) Not available. (d) 1911-13. (e) 1915. (f) 1922-25. (g) 1933-35. (h) 1939. (i) 1943. (j) Excluding Maoris. (k) Excluding full-blood aboriginals.

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

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

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

	A	verage Annual B	tates.	Index Nos	Index Nos. (Base: $1880-82 = 100$ ).				
		Fertilit	ty-rates.		Pertility-rates.				
Period.	Crude Birth- rate. (a)	Births per 1,000 Women aged 15-44 Years.	Nuptial Births per 1,000 Married Women aged 15–44 Years.	Crude Birth- rate. (a)	Births per 1,000 Women aged 15-44 Years.	Nuptial Births per 1,000 Married Women aged 15-44 Years.			
1880-82	35.3	170	321	100	100	100			
.0	34.5	159	332	98	94	103			
	27.2	117	235	77	69	73			
1910-12	27.2	117	236	77	69	74			
1920-22	25.0	107	197	7 T	63	6r			
1932-34	16.7	71	131	• 49	42	41			
1941-43	19 5	84	141	55	49	-14			

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

The table above shows how increasing proportions both of women of child-bearing age and of married women of child-bearing age inflate the crude birth-rate. Thus while the nuptial birth-rate for married women increased by only 8 per cent. over the period 1932-34 to 1941-43 the crude birth-rate rose by 17 per cent. due principally to the greatly increased number of marriages during that period.

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

Specific fertility-rates are usually calculated on the basis of female births rather than total births and are frequently expressed in age-groups as well as in single ages. The following table sets out specific fertility-rates for Australia over the period 1921 to 1946 in five-yearly age-groups.

Age-group (Years).	1921.	1926.	1931.	1936.	1941.	1942.	1943. 194	4. 1945.	1946.
15-19 20-24 25-29 30-34 35-39 40-44 45-49	12.83 65.45 82.24 68.50 49.48 21.66 2.10	14.02 - 60.23 76.82 61.90 43.55 17.63	13.08 53.08 62.47 51.25 33.23 13.61	12.18 50.33 62.02 46.33 28.89 10.19	11.90 59.42 70.78 49.72 28.69 9.52 0.80	11.77 59.01 70.41 50.67 29.07 9.55 0.79	11.86 11. 65.01 62. 76.29 78. 56.46 59. 31.27 35. 9.72 10. 0.78 0.	49 64.46 25 81.17 48 61.47 01 36.60	12.63 73.52 89.51 65.03 37.43 11.87

# SPECIFIC FERTILITY-RATES(a): AUSTRALIA.

The table above indicates that the most fertile age-group is 25-29 years. The decline in fertility between 1921 and 1936 was general but was more pronounced in the older age-groups. During the period 1936 to 1946 a rise in fertility occurred in all but the oldest age-group.

7. Gross and Net Reproduction Rates.—A single measure of fertility known as the gross reproduction rate is obtained by adding together the specific fertility-rates for each single age in the child-bearing group. This measure indicates the number of female children who would be born on the average to women living right through the child-bearing period, if the fertility conditions on which the rate is based continue. The rate is unaffected by the age composition of the potential mothers of the population and is to be preferred to the crude birth-rate for measuring and making comparisons of fertility.

The gross reproduction rate measures fertility, but, because it does not take mortality into account, it does not measure the rate at which the population is replacing or reproducing itself. A measure of this nature is obtained by multiplying the specific fertility-rates by the number of females in the corresponding age-group of the stationary or life table population and summing the products. Allowance is thus made for the effect of mortality and the result is known as the net reproduction rate. The net reproduction rate for a specified period indicates the average number of female children who would ultimately be born to newly born girls of the period, if the fertility and mortality conditions remain unchanged. It represents the rate at which women replace themselves in the population, i.e., the rate at which the population will multiply itself each generation if the current conditions of fertility and mortality continue. A net reproduction rate of unity for a period indicates that the population will ultimately become stationary if the fertility and mortality of the period remain unchanged. If it is greater than unity, the population will ultimately increase, if less than unity, it will ultimately decrease.

The following table gives the gross and net reproduction rates for Australia from 1881 to 1946.

GROSS AND NET REPRODUCTION RATES: AUSTRALIA.

Year.		Gross. Repro- duction Rate.	Net Repro- duction Rate.	Year.	j	Gross Repro- duction Rate,	Net Repro- duction Rate.
1881 (a)		2.65	(b) 1.88	1937(g)	:	1.075	0 981
1891 (a)	::	2.30	(b) 1.73	1938(g)		1.069	0 976
1901 (a)		1.74	(c) 1.39	1939(g)		1.080	0.986
1911		T.705	(d) 1.421	1940(g)	:	1.100	1.004
1921		1.511	(e) 1.313	1941(g)		1.154	1.053
1932		1.061	(f) 0.967	1942(g)	[	1.156	1.056
1933(g)	.:	1.052	0.959	1943(g)		1.257	1.148
1934(g)		1.030	0.939	1944(g)	!	1.289	1.176
1935(g)		1.032	0.941	1945(g)		1.337	1.220
1936(g)		1.060	0.967	1946(g)	[	1.455	1.328

<sup>(</sup>a) Approximate only. (b) 1881-1890 mortality experience used. (c) 1891-1900 mortality experience used. (d) 1901-1910 mortality experience used. (e) 1920-1922 mortality experience used. (f) 1932-1934 mortality experience used for 1932 and subsequent years. In so far as mortality has decreased since then, the net reproduction rates tend to underestimate the true position. (g) The numbers of females of child-bearing age on which rates for these years are based have not been adjusted in accordance with the results of the Census of 30th June, 1947.

<sup>(</sup>a) Number of female births per 1.000 women in each age-group.

Since 1881 there has been a substantial downward trend in both rates, but the gross rate has fallen considerably more than the net, showing that the decline in fertility has been offset to some extent by a decline in mortality. The net reproduction rate was below unity over the period 1932 to 1939, and if the low fertility of those years were to continue, ultimate population decline would be certain. However, the rate increased considerably over the war years owing principally to the war-time marriage boom, and increased further in the immediate post-war period, mainly as a result of demobilization. The main flaw in these rates is that fluctuations in the marriage rate affect them quite substantially, but sufficient data are lacking to completely eliminate the effects of fluctuations in marriages. However, consideration is given below to the fertility of marriages.

S. Gross and Net Reproduction Rates of Various Countries .-- In the following table a comparison is given of the gross and net reproduction rates recorded for various countries. It will be observed that Australia occupies a relatively low position in the scale.

CDOCC AND	NET	REPRODUCTION	DATEC .	VADIOUS	COUNTRIES
GRUSS AND	NEL	KEPRODUCTION	KAIES:	VARIOUS	COUNTRIES,

Country.	Period.	Reproduction Rate.		Country.	Period.	Reproduction Rate.		
		Gross.	Net.			Gross.	Net,	
Japan Union of South Africa (b) Eire Bulgaria Portugal Canada Netherlands Hungary Finland Italy	1937 1939 1935–37 1933–36 1939 1939 1939 1939	2.14 1.50 1.48 1.67 1.66 1.32 1.29 1.22 1.22	1 · 44  1 · 35 1 · 22 1 · 19 (a) (a) 1 · 17 (a) (a) 1 · 13	Austria Latvia Australia Germany Scotland Denmark France Belgium Norway Sweden England and	1939 1939 1939 1939 1939 1939 1939 1939	(a) 1.18 1.08 (a) 1.05 1.04 (a) 1.03 0.93 0.91	1.00 0.99 0.98 0.92 0.92 0.90 0.86 0.86	
Poland New Zealand(c) Spain United States of America (b).	1934 1939 1937	1.50 1.15 1.44 1.09	1.11 1.07 1.03	Wales Czechoslovakia. Estonia Switzerland	1939 1935 1938 1939	o.89 (a) o.98 o.88	0.81 0.79 0.79 0.79	

<sup>(</sup>a) Not available.

9. Fertility of Marriages. - In issues of the Official Year Book prior to No. 35 estimates of the fertility of marriages were published. These were calculated by relating the births of one five-yearly period to the marriages in the preceding five years (see Official Year Book No. 35, p. 329). Since the publication of that issue, an improved method has been formulated for measuring current marriage fertility by relating nuptial confinements in each year to the marriages from which they could have resulted. Confinements of women of a certain number of years duration of marriage are related to the number of marriages taking place that number of years previously. The table below sets out this index of current marriage fertility for the years 1933 to 1946.

FERTILITY OF MARRIAGES: AUSTRALIA.

Year.		Nuptial Confine- ments per Marriage.	Year.		Nuptial Confine- ments per Marriage.	Ye	Nuptial Confine- ments per Marriage.	
1933 1934 1935 1936	• • • • • • • • • • • • • • • • • • • •	2.36 2.30 2.27 2.28 2.27	1938 1939 1940 1941 1942 .		2.22 2.20 2.18 2.19	1943 1944 1945 1946	r   r	2.21 2.28 2.36 2.55

<sup>(</sup>b) White population only. (c) Excluding Maoris.

The figure for a particular year gives the estimated number of children which a marriage would produce according to the fertility conditions of that year. It will be noted that there was an almost continuous decline to 1942, but a pronounced increase from 1943 onwards. Comparing this index with the net reproduction rate it is evident that the rise in the latter since 1935 has been caused by an increasing number of marriages, due firstly to the postponed depression marriages, and secondly to war-time marriages, and only in the last four years to any increase in the fertility of marriages.

10. Masculinity of Live Births.—(i) General. The masculinity of live births, i.e., the number of males born for every 100 female births, has remained fairly stable for Australia at about 105. But when the number of births for which masculinity is being calculated is small (for example State totals), considerable variation is shown. For 1946 the figures ranged from 96.21 in Australian Capital Territory to 108.31 in Tasmania. The averages for the last intercensal period 1933–47 were as follows:—New South Wales, 105.05; Victoria, 105.52; Queensland, 105.15; South Australia, 105.93; Western Australia, 104.16; Tasmania, 105.76; Australia, 105.21. The following table shows the figures for Australia for each ten-year period from 1901 to 1940 and for each year 1943 to 1946:—

MASCULINITY(a) OF LIVE BIRTHS REGISTERED: AUSTRALIA.

Particulars.	1901-10,	1911-20.	1921–30.	1931 40.	1943.	1944.	1945.	1946.
Total Births Ex-nuptial Births	105 22 104 08	105 27 105 25	105 55	105.12 105 36	104 68 107 30	104 45	105 57	106 51 110 42
	a) Numbe	er of males	s born for	every 100	temale oir	ths.		

- (ii) Masculinity of Nuptial and Ex-nuptial Births—Various Countries. A table showing the masculinity of nuptial and ex-nuptial births for various countries appears on p. 942 of Official Year Book No. 22.
- 11. Ex-nuptial Live Births.—(i) General. The number of ex-nuptial live births reached a yeak, 7,438, in 1913, but it fell considerably to 4,775 in 1940. Since 1940, however, the number has risen sharply to 7,613 in 1946. The average number of exnuptial live births in Australia during the five years 1911–15 was 7,209, and for the period 1941–45 it was only 6,201, a decline of 14.0 per cent., whereas the annual average total live births for the same period increased by 10.6 per cent., from 132,769 to 146,886; hence a comparison between the results for these two periods shows that the proportion of ex-nuptial births has fallen from 5.43 to 4.23 per cent. of all births.

The variations of the ex-nuptial birth-rates as between the individual States and Territories for 1946 are shown below. Corresponding figures for 1945 may be obtained from *Demography Bulletin*, No. 63.

EX-NUPTIAL LIVE BIRTHS AND BIRTH-RATES, 1946.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	N.T.	A.C.T.	Aust.
Number	2,950	1,708	1,611	503	529	282	24	6	7,613
Percentage of Total Births	4 39	3.66	5.96	3.18	4.37	4.12	81.81	1.16	4 · 32

The numbers of births and the rates at intervals from 1901 to 1946 are as follows:—

EX-NUPTIAL	LIVE	BIRTHS	AND	BIRT	H-RATI	ES: A	USTRA	LIA.
	-		1			·	T	

		Annual	Averages							
Particulars.	1901-	1911-	1921-	1931-	1941.	1942.	1943.	1944.	1945.	1946.
Number of Ex- nuptial										
Births	6,498	6,836	6,238	5,133	5,167	5,282	6,505	6,905	7,195	7,613
Percentage of Total Births	6.65	5 22	4.66	4.40	3 84	3.86	4.36	4.50	4.48	4.32

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.

- (ii) Rate of Ex-nuptiality. A further comparison is obtained by calculating the number of ex-nuptial births per thousand of the single and widowed female population between the ages of 15 and 45 years. The number of ex-nuptial births per 1,000 unmarried women of ages 15 to 45 has been found to be as follows:—1880-82, 14 49; 1890-92, 15 93: 1900-02, 13.30: 1910-12, 12.53: and 1920-22, 10.50. The estimated number for the years 1930-32 was 7.87. The comparative results for various countries given on p. 944 of Official Year Book No. 22 were taken from the Annuaire International de Statistique, Vols. II. and V., and showed that ex-nuptial births varied from 38 per 1,000 unmarried women aged 15 to 49 years in Hungary (1906-15) to 4 in Ireland (1900-12) and Bulgaria (1910-11). The rate for Australia was 12 per thousand for the years 1906-15.
- (iii) Comparison of Rates. The following table, showing the relative proportions of ex-nuptial and nuptial births to the total population, discloses a much greater proportional reduction in the ex-nuptial birth-rate than in the nuptial rate:—

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

Birth-rate.	ļ <sub>i</sub>	·	verages-		1943.	1944.	1945.	1946.	
Ex-nuptial Nuptial		1.60 24 91	1.39	1 04 21.40	0.76 16.47	o 90 19 73	0.95	0.98	1.02
Total		26.51	26.57	22.44	17.23	20.63	20.98	21.73	23.62

- (a) Number of births per 1,000 of mean population.
- 12. Legitimations.—In the several States Acts have been passed to legitimize children born before the marriage of their parents, provided that no legal impediment to the marriage existed at the time of birth. On registration in accordance with the provisions of the Legitimation Acts, any child who comes within the scope of their purposes, born before or after the passing thereof, is deemed to be legitimate from birth by the post-natal union of its parents, and entitled to the status of offspring born in wedlock. During 1945 and 1946 the number of children legitimized in Australia was 942 and 943 respectively, compared with 883 in 1939.
- 13. Multiple Births.—Among the total number of 176,379 live births registered in Australia in 1046, there were 172,302 single births, 3,017 twins and 70 triplets. The number of cases of twins was 2,014 and of triplets 25, there being 111 still-born twins and 5 still born triplets. The total number of mothers was, therefore, 174,431, the proportion of mothers of twins being one in every 86, of mothers of triplets one in every 0,977, and of mothers of all multiple births one in every 86 mothers. Multiple births occurred in 1.17 per cent. of continements.

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

MULTIPLE BIRTHS: AUSTRALIA.

	Annı	al Avera	тсен	1943.	1944.	1945.	
Particulars.	1911- 20.	1921- 30.	1931- 40.				1946,
Mothers of Multiple Births Percentage on Total Mothers	. 1,387	1,420 1.07	1,220	1,627	1,796 1.18	1,803	2,039 1.17

14. Ages of Parents.—The relative ages of the parents of children registered in 1945 and 1946 have been tabulated separately for male and female births, multiple births being distinguished from single births. For total births and for multiple births the relative single ages of parents are shown in *Demography Bulletin*, Nos. 63 and 64. In the

present work the exigencies of space allow only the insertion of a table for 1946 showing the relative ages of parents in respect of all confinements in groups of five years:—

ALL CONFINEMENTS: RELATIVE AGES OF PARENTS, AUSTRALIA, 1946.

Age of Father					Age of 1	Mother (	Years).			
(Years), and Type of Birth.	Total.	Under	15–19.	20-24.	25-29.	30-34.	35-39.	40-44.	45 and over.	Not Stated
Under 20 Single Twins	1,035 9		72I 6	295 2	17			••	::	
20-24 Single Twins Triplets	21,806 195 5		3,435 20	15,523 143 4	2,633 29 1	190 2	24 1	••	·	 
$_{25-29}$ $\begin{cases} Single \\ Twins \\ Triplets \end{cases}$	46,916 473 7	::	1,291 7	19,696 186 1	22,105 228 3	3,445 48 2	353 4	21	 	
30-34 Single Twins Triplets	43,898 554 6		383 1	6,042 53	18,774 227 2	16,211 227 3	2,334 43 1	151 3	3	
$35-39 \dots \begin{cases} Single \\ Twins \\ Triplets \end{cases}$	29,175 426 4		96 	1,579 17	6,137 82 1	12,263 173 3	8,260 138	827 16	13	::
Single Twins Triplets	14,270 171 2		23 	421 2	1,617	4,093 48	5,780 72 1	2,272 35	63	::
$45-49 \cdots \begin{cases} \text{Single} \\ \text{Twins} \end{cases}$	5,369 89			126 2	457 10	1,124	2,031 30	1,419 26	206 I	::
$50-54 \cdots \begin{cases} \text{Single} \\ \text{Twins} \end{cases}$	· 1,608 26		5	38	103 3	328 4	569 13	475 5	90	::
$55-59 \cdots \begin{cases} \text{Single} \\ \text{Twins} \end{cases}$	558 9	.:	2	11	46 1	108	191 4	155 1	45 I	::
$60-64 \cdot \begin{cases} \text{Single} \\ \text{Twins} \end{cases}$	167 3	::	::			32	53 2		12 I	::
65 and Single Twins	88 1	::				23 1		20	8	::
Not Stated Twins	2			2					·	ļ
Mothers Single Of Twins Nuptial Triplets Children Total	164,890 1,958 24 166,872	2	5,963 34 1 5,998	43,737 409 5 44,151	51,913 595 7 52,515	37,819 524 8 38,351	19,617 307 2 19,926	5,394 86 1 5,481	445	
Mothers   Single	7,502 56	22	1,692	2,751	1,409	877	542	184	24	-
of Ex- nuptial Triplets Children Total	7,559	22	1,700	2,762	I 1,424	890	550	186	24	
Total Single Twins Triplets	172,392 2,014 25	24	7,655 42 I	46,488 420 5	53,322 609 8	38,696 537 8	20,159 315 2	5,578 88 1	469 3	::
Total	174,431	24	7,698	46,913	53,939	39,241	20,476	5.667	472	1

<sup>15.</sup> Birthplaces of Parents.—A table showing birthplaces of parents of children whose births were registered during 1946 appears in *Demography Bulletin*, No. 64.

<sup>16.</sup> Occupation of Fathers.—A table showing occupations of the fathers of all nuptial children registered in 1946 appears in *Demography Bulletin*, No. 64.

<sup>17.</sup> Age, Duration of Marriage and Issue of Mothers.—(i) General. The total number of nuptial confinements resulting in live births in 1946 was 166,872, comprising 164,890 single births, 1,958 cases of twins and 24 cases of triplets. The tables exclude the previous issue of former marriages and still born children. On the other hand, they include children by the same father which were born to the mother prior to the marriage. Children born during the current year are included in the total issue shown.

The tables are shown in summarized form, more complete details being given in

Demography Bulletin, No. 64.

(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 31 years, and that the average family increased fairly regularly with the duration of marriage. The average issue of married mothers who bore children in 1946 was 2.35 compared with 2.40 in 1945, 2.41 in 1944, 2.34 in 1943, and 2.38 in 1942.

NUPTIAL CONFINEMENTS: DURATION OF MARRIAGE AND ISSUE OF MOTHERS, AUSTRALIA, 1946.

				· AUSTRA	LIA, 1940	•		_	
Durat of Marri (Yea	age.	Total Married Mothers.	Total Issue.	Average Issue.	Duration of Marriage. (Years.)		Total Married Mothers.	Total Issue.	Average Issue.
0-1 1-2 2-3 3-4 4-5 5-6 6-7 7-8 8-9		21,155 18,613 17,345 17,571 17,186 14,230 12,027 8,841 7,528	21,395 21,068 25,967 31,122 34,843 33,062 31,172 25,683 24,006	1.01 1.13 1.50 1.77 2.03 2.32 2.59 2.90 3.19	18-19 19-20 20-21 21-22 22-23 23-24 24-25		1,141 844 588 428 336 216 129	6,678 5,382 3,926 3,045 2,446 1,669 1,094	5.85 6.38 6.68 7.11 7.28 7.73 8.48
9∸ <b>Í</b> 0		6,201	21,193	3.42	26–27 27–28	• •	42 25	384 250	9.14
10-11 11-12 12-13 13-14 14-15		5,218 4,246 3,398 2,769 2,045	18,970 16,555 14,373 12,448 9,774	3.64 3.90 4.23 4.50 4.78	28–29 29–30 30–31		6	93 56 22	10.33 9.33 11.00
15-16 16-17 17-18	••	1,741 1,554 1,340	8,867 8,265 7,549	5.09 5.32 5.63	Total	••	166,872	392,279	2.35

(iii) Age and Average Issue of Mothers. The following table shows the average number of children born to mothers of different ages. In the younger ages there is, naturally, little difference in the average number of children to each mother, but with the increase of the age of the mother the number of issue has fallen in comparison with past years. The average issue of mothers of all ages recorded for 1946 (namely 2.35) is 27.7 per cent. below the average of 3.25 for the years 1911-20.

AGE AND AVERAGE ISSUE OF MOTHERS: AUSTRALIA.

Period.	Age of Mothers (Years).												
	Under 20.	20,-24.	25-29.	30-34.	35-39.	40-44.	45 and Over.	All Ages.					
1911-20 1921-30 1931-40 1937 1938 1939 1940 1941 1942 1943 1944	1.21 1.20 1.20 1.19 1.20 1.19 1.21 1.19 1.18 1.17 1.17	1.75 1.71 1.68 1.64 1.64 1.63 1.61 1.58 1.56 1.55	2.61 2.46 2.30 2.22 2.18 2.15 2.13 2.10 2.11 2.08 2.14 2.14	3.74 3.48 3.19 3.08 2.99 2.95 2.87 2.85 2.84 2.80 2.82 2.83 2.83	5.11 4.80 4.41 4.34 4.02 3.90 3.84 3.73 3.67 3.62 3.59	6.69 6.27 5.89 5.86 5.70 5.62 5.47 5.34 5.25 5.05 4.87 4.81	8.16 7.74 7.40 7.56 7.38 6.97 6.92 7.01 6.83 6.86 6.18 6.17 6.03	3.25 3.04 2.71 2.00 2.54 2.48 2.44 2.39 2.38 2.34 2.41 2.40 2.35					

(iv) Previous Issue of Mothers, Various Ages. A classification of mothers of various ages according to previous issue is given for 1946 in the following table. Corresponding figures for 1945 appear in Demography Bulletin, No. 63:—

NUPTIAL CONFINEMENTS: MOTHERS OF VARIOUS AGES ACCORDING TO PREVIOUS ISSUE, AUSTRALIA, 1946.

Previous	! !	•	Аче о	f Mothers (	Years.)			Total
Issue.	Under 20.	20-24.	25-29.	30-34.	35~39.	40-44.	45 and Over.	Married Mothers.
O	5.190	27,131	18,980	8,179	3,003	639	32	63,145
τ	728	12,247	18,500	11,585	4,172	768	40	48,040
2	So	3,568	8,872	8,864	4,469	948	46	26,847
3	, I	921	3,615	4.701	3,170	819	62	13,289
4	, 1	237	1,547	2,303	:,844	631	49	6,612
5		40	652	1,330	1,153	455	43	3,673
6	• •	6	260	667	781	337	33	2,084
7		· 1	67	401	508	276	39	1,292
8			15	181	341	209	27	773
o,	١		, 4	90	219	163	20	496
10			3	38	157	100	20	318
τ1				15	64	64	14	157
1.2				4	25	30	1.1	70
13			• •	T	12	181	4	35
14		• •		1	7	15	4	27
15			• •		1	6	ľ	8
16	•					2	3	5
17	·					1	• •	τ
Total Married Mothers	6,000	44,151	52,515	38,351	19,926	5,481	4.18	166,872

<sup>(</sup>v) Previous Issue of Mothers of Twins and Triplets. Figures regarding the previous issue of married mothers of twins in 1946 show that 630 mothers had no previous issue either living or deceased, 548 had one child previously, 359 had two previous issue. 177 three, 90 four, 65 five, 27 six, 20 seven, 12 eight, 10 nine, 12 ten, 3 eleven, 2 twelve, 2 thirteen and 1 fourteen previous issue.

Of the 24 cases of nuptial triplets registered during 1946, 6 mothers had no previous issue, 7 had one, 6 had two, 2 had three and 3 had four previous issue.

18. Interval Between Marriage and First Birth.—(i) Interval. The following table shows the interval between marriage and first birth for 1911-20, 1921-30, 1931-40, 1943, 1944, 1945 and 1946. Twins and triplets are included, the eldest only being enumerated.

INTERVAL	RETWEEN	MARRIAGE	AND FIRST	RIRTH .	AUSTRALIA.

		An	nual Avera	ges.		!		
Interval.		1911-20.	1921-30.	1931-40.	1943.	1944.	1945.	1940.
		N	NUMBER C	FIRST	Births.			
Under 1 month		465	365	301	225	186	178	190
1 month		535	496	412	260	261	233	275
2 months		760	719	626	; 418	345	356	409
3 ,,		996	1,013	967	576	487	474	647
4 ,,		1,227	1,333	1,367	877	734	.750	948
5 ,, 6 ,,		1,551	ι,8ο9	2,008	1,218	1,237	1,160	1,430
		1,993	2,397	2,812		1,753	1,928	2,235.
7 8	٠.	1,785	2,219	2,184	1,813	1,563	1,752	2,241
	• •	1,562	1,530	1,417	2,020	1,816	1,990	2,258
9 ,,		3,517	3.253	2,668	3,891	3,608	4,312	4,460
10 ,,		2,877	2,907	2,202	3,448	2,507	2,766	3,213
11 ,,	• •	2,018	2,152	1,836	2,994	2,188	2,171	2,668
Total under 1	year	19,286	20,193	18,800	19,660	16,685	18,070	20,974
1-2 years		8,563	10,133	10,595	19,737	16,227	15,104	16,254
2-3 ,,		2,626	3,369	4,319	8,343	9,094	9,136	9,262
3-4 ,,	٠.	1,230	1,743	2,214	4,468	4,586	5,710	6,237
45 ,,		700	941	1,205	2,014	2,586	3,080	4,271
5-9 ,,	٠.	980	1.446	1.766	3,087	3,496	4,087	5,417
10-14 ,,	٠.	168	240	289	406	443	473	632
15-19 ,,	٠.	34	47	48	75	85	99	81
20 years and ove	r	8	8	7	12	13	10	17
Total	٠.	33,595	38,120	39,243	57,802	a 53,215	55,769	63,145

<sup>(</sup>a) Excludes 1 birth, duration of marriage not stated.

PERCENTAGE OF TOTAL FIRST BIRTHS

		PERCE	NTAGE OF	1 OTAL 1	IKST DIK	THS.		
•		%	%	%	%	%	%	%
Under 1 month	٠.	1.39	0 96	0.77	0 39	0.35	0 32	0.30
r month		1.59	1 30	1.05	0.45	0.49	0.42	0.44
2 months		2.26	1.89	1.59	0.72	0 65	0.64	0.65
3 "	٠.	2.96	2.66	2.46	1.00	0 92	0.85	1.02
4 ,,	٠.	3.65	3.50	3.48	1.52	1.38	1.34	1.50
5 ,,		4 62	4.75	5.12	2.11	2 32	2.08	2,26
5 ,,		5.93	6 29	7.16	3 30	3 29	3.46	3 54
		5 32	5.82	5 57	3.14	2.94	3.14	3 55
7 " 8 "		4.65	1	3.61	3 51	3 41	3 57	$\frac{3.58}{3.58}$
9 "		10.47	4 01 8 53	6 80	6.73	6 78	7.73	7 06
10 ,,		8 56	7 63	5.61	5 96	4.71	4 96	5.09
11 ,,	٠.	6.01	5 64	4.68	5.18	4 11	3 89	4 22
Total under 1	vear	57.41	52.98	47.90	34.01	31.35	32.40	22 21
I-2 years		25 49	26 58	27.00	34.15	30.49	27.08	33.21
0.0		7 82	8.84	11 01	14 43	17.09	16.38	25.74
2 -		3.66	•	5.64	7.73	8 62	10.24	14.67 9.88
	• •	2 08	+ 57			~~	1	
4-5 ,,	٠.		2.47	3.07	3 49		5.52	6.76
5~9 ,,	٠.	2.92	3.79	4.50	5 34	6.57	7 33	8.58
10-14 ,,		0 50	0 63	0.74	0 70	0.83	0 85	1.00
15-19 ,,		0.10	0.12	0 12	0.13	0 16	0.18	0.13
20 years and ove	r	0 02	0 02	0 02	0 02	0.03	0 02	0.03
Total		100.00	100 00	100.00	100.00	100 00	100.00	100.00

The masculinity of first births in 1946 was 106.46 compared with 106.51 for total births.

(ii) Age of Mother and Interval. Previous issue of mothers of ex-nuptial children is not recorded and for purposes of the following table all ex-nuptial births are regarded as first births. The table shows in condensed form for 1944, 1945 and 1946 the numbers of births of ex-nuptial children, of children born less than nine months after marriage and of all first-born children according to the age of mothers. Over the past few years about one-quarter of all first births were either ex-nuptial or occurred less than nine months after marriage. Of the first-born children of mothers under 20 years, however, over two-thirds came into this category. The percentage diminishes rapidly to about 15 per cent. for mothers aged 25 to 34 years and then rises perceptibly for mothers in older age-groups.

It must be remembered, of course, that a certain number of premature births is unavoidably included among the births which took place less than nine months after marriage, and they are not necessarily due to ante-nuptial conception. However, information in connexion therewith is not available and the figures in the table must be accepted with this reservation. Tabulations showing single ages of mothers of nuptial first-born children and interval after marriage are given for 1944, 1945 and 1946 in Demography Bulletin, Nos. 62 to 64, respectively.

AGE OF MOTHER AND INTERVAL BETWEEN MARRIAGE AND FIRST BIRTH:

	Age of Mo	other at E	Birth of Fi	rst Child (	Years).		
Under 20.	20-24.	25-29.	30-34.	35-39.	40-44.	45 and Over.	Total.
1,670	2,492	1.281	777	462	145	15	(b) 6,842
2.582	4.066	1,106	418	162	43	5	8,382
4,252 6,171	6,558 24,854	2,387 17.332	1,195 7.994	624 2,960	188 699	20 48	15,224 60,058
1,673	2,648	1.336	. 808 I	469	167	20	(c) 7,121
2,689	4.259	1,184	456	187	45	ı İ	8,821
4,362 6,396	6,907 26,385			656 3,179	212 755	21 48	15,942 62,890
1,722	2,762	1,424	890	550	186	24	(d) 7,55
3.070	5,202	1,520	553	229	53	6	10,63
4,79 <sup>2</sup> 6,91 <sup>2</sup>	7,964 29,893	2,944 20,404	1.443 9.060	779 3,553			
			١,		·		
81.22 80.08 80.06 73.01	45.59 44.75 32.31	23.45 20.49 14.50	22.22 19.41 14.50	29.78 27.78 21.21	38.18 38.43 32.53	49.65 55.57 60.98	40.7 39.3 28.5
67.03 68.90 68.20	25.44 26.39 26.18	13.43 13.77 14.05	14.31 14.95 15.42	21.33 21.09 20.64	30.67 26.90 28.08	55.81 41.67 43.75	24.5 25.3 25.3
	Under 20.  1,670  2,582  4,252 6,171  1,673  2,689  1,722  3,070  4,792 6,912  81, 22 80,08 80,06 73,01 69,80 67,03 68,90 68,20 68,20	Under 20. 20-24. 1,670 2,492 2,582 4,066 4,252 6,558 6,171 24,854 2,689 4,259 4,362 6,907 6,396 26,385 1,722 2,762 4,792 6,912 29,893 6,06 4,259 80,06 44,757 3,01 32,31 69,80 29,80 67,03 25,44 68,90 26,39 68,20 26,18	Under 20.   20-24.   25-29.   1,670   2,492   1,281   2,582   4,066   1,106   4,252   6,558   2,387   6,171   24,854   17,332   1,673   2,648   1,336   2,689   4,259   1,184   4,362   6,907   2,520   6,396   26,385   17,930   1,722   2,762   1,424   3,070   5,202   1,520   4,792   7,964   2,944   6,912   29,893   20,404   4,752   20,494   6,912   29,80   32,345   80,06   44,75   20,49   73,01   32,31   14,50   69,80   29,80   13,85   67,03   25,44   13,43   68,90   26,39   14,05   68,20   26,39   13,85   68,90   26,39   14,05   68,20   26,18   14,05   48,00   26,18   14,05   48,00   26,18   14,05   48,00   26,18   14,05   48,00   26,18   14,05   48,00   26,18   14,05   48,00   26,18	Under 20.         20-24.         25-29.         30-34.           1,670         2,492         1,281         777           2,582         4,066         1,166         448           4,252         6,558         2,387         1,195           6,171         24,854         17,332         7,994           1,673         2,648         1,336         808           2,689         4,259         1,184         456           4,362         6,907         2,520         1,264           6,396         26,385         17,930         8,197           1,722         2,762         1,424         890           3,070         5,202         1,520         553           4,792         7,964         2,944         1,443           6,912         29,893         20,404         9,060           80,06         44,75         20,494         19,41           7,061         32,31         14,50         14,50           69,80         29,80         13,85         15,69           67,03         25,44         13,43         14,31           68,90         26,39         13,75         14,95           68,20	Under 20.   20-24.   25-29.   30-34.   35-39.     1,670   2,492   1,281   777   462	20.   20-24.   25-29.   30-34.   35-39.   40-44.	Under 20.         20-24.         25-29.         30-34.         35-39.         40-44.         45 and Over.           1,670         2,492         1.281         777         462         145         15           2,582         4.066         1.106         418         162         43         5           4,252         6,558         2,387         1,195         624         188         20           6,171         24.854         17.332         7.994         2.960         699         48           1,673         2,648         1.336         808         469         167         20           2,689         4.259         1.184         456         187         45         1           4,362         6,907         2,520         1,264         656         212         21           4,362         6,907         2,520         1,264         656         212         21           4,722         2,762         1,424         890         550         186         24           3.070         5,202         1,520         553         229         53         6           4,792         7,964         2,944         1,443         779 <t< td=""></t<>

<sup>(</sup>a) For purposes of this table all ex-nuptial births are regarded as first births.

(b) Excludes 5 births, age of mother not stated.

(c) Excludes 5 births, age of mother not stated.

(d) Excludes 5 births, age of mother not stated.

(e) Excludes 5 births, age of mother not stated.

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

19. Interval between Birth and Registration of Birth.—Detailed information for the years 1911 to 1921 regarding the period which elapsed between birth and registration of birth is contained in *Demography Bulletins* issued by this Bureau for those years. The average interval for 1921 was over 14 days for all children.

20. Still-births.—Reliable statistics of the number of children born dead in Australia, are not available as registration of these births is not compulsory in all States. In previous issues of the Year Book estimated numbers of still-births have been given. Pending the results of investigations being made into the records of such births which may affect the accuracy of these estimates, figures for 1945 and 1946 are not available.

# § 3. Mortality.

1. Number of Deaths.—(i) Year, 1946. The following table shows the number of deaths, male and female, registered in each State during the year:—

DEATHS, 1946.											
Sex.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	N.T.	A.C.T.	Aust.		
Males Females	16,038	11,280 10,254	6,206 4,442	3,483 2,978	2,791 1,962	1,395 1,154	46 9	44 38	41,283		
	<u> </u>										

(ii) Years 1861 10 1946. A summary of the total number of deaths in each State and Territory since 1861 is given in the following table:—

### DEATHS.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	N.T.	A.C.T.	Aust.
Annual Aver-							-		
age—		. ,		:			1	1	
1861–1865		9,890	1,150	2,168	279	1,391	١		21,190
1866–1870		11,027	1,863	2,593	350	1,390		١	24,516.
1871–1875		11,952	2,574	3,095	414	1,609			27,826
1876–1880	10,651	12,562	3,457	3,605	401	1,799			32,475
1881–1885	13,221	13,362.	5,146	4,323	544	1,958	• • •	1	38,554
1886-1890	14,291	16,929	5,608	3,873	- 666	2,078	]	l	43,445
.1891–1895	15,360	16,411	5,316	4,109	1,086	2,025	<b>.</b>		44,307
1896-1900	15,556	16,265	5,841	4,235	2,389	2,063			46,349
1901-1905	15,900	15,349	5,862	3,913	2,731	1,932	(a) 70		45,757
1906-1910	15,882	14,942	5,529	3,848	2,867	2,020	77		45,165
. 1911-1915	18,802	15,921	6,907	4,495	3,045	2,010	75.	(b) 12	51,267:
1916-1920	20,776	16,485	7,605	4,878	3,133	1,971	Šī	10	54,939
1921-1925	20,379	16,176	7,412	4,880	3,231	2,090	57	9	54,234
1926-1930	22,677	16,698	8,007	5,008	3,617	2,040	71	42	58,160
1931-1935	22,591	17,680	8,147	5,063	3,876	2,194	67	35	59,653
1936–1940	c 25,735	19,361	9,107	5,540	4,270	2,342	73	54	66,482
1941-1945	c 27,807	20,964	9,715	6,303	4,724	2,488	64	71.	72,136
Year-			ì		1			1	1
1942(c)	29,219	21,973	9,622	6,712	5,076	2,430	83	76	75,194.
1943(c)	128,870	21,327	10,576	6,482	4,587	2,527	49	68	74,486
1944(c)	26,652	20,502	9,385	5,984	4,478	2,494	31	70	69,596
1945(c)	26,994	20,496	9,459	6,049	4,712	2,413	35	73	70,231
1946(c)	28,579	21,534	10,648	6,461	4,753	2,549	55	82	74,661
,			!	10				1	

<sup>(</sup>a) Northern Territory figures included with South Australia prior to 1901. (b) Part of New South Wales prior to 1911. (c) Excludes deaths of defence personnel and of internees and prisoners of war from overseas.

2. Crude Death-rates.—The commonest measure of mortality is to relate the number of deaths for a given period to the mean population for that period, thus obtaining the crude death-rate. This rate for a given period measures the numbers per thousand of population by which the population is depleted through deaths during that period. Crude death-rates for each State and Territory from 1861 to 1946 are shown in the following table:—

### CRUDE DEATH-RATES.(a)

			,						
Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	N.T.	A.C.T.	Aust.
Annual Average -								:	
1861-1865	16.88	17.48	20.60	15.39	15.15	15.30	1	:	17.04
1866-1870	16.18	16.68	18.51	14.90	14.90	14.24	::		16.20
1871-1875	14.93	15.58	18.33	15.71	15.90	15.58	1		15.62
1876-1880	16.18	15.26	17.84	14.78	14.12	16.54		/ !!	15.80
1881-1885	15.77		19.36		16.96	16.03		' ::	15.69
18861890	13.91	16.10	15.72	12,46	15.63	15.22	İ		14.85
1891-1895	12.01		12.81	12.17	16.29	13.44		::	13.32
1896-1900	11.91	13.73	12.45	11.93	15.59	12.16	í II	::	12.75
1901-1905		12.74			12.58		(b)15.69		11.76
1906-1910		12.01			11.03	10.77	20.99		10.75
1,000 1,100 11			9.9-		11.03	,,	10.99	.,	10.75
1911-1915	10.47	11.49	10.55	10.37	9.87	10.39	20.38	(c) 5.2I	10.73
1916-1920	10.58	11.38	10.75	10.65	9.91	9.83	17.41	4.26	10.77
1921-1925	9.26	10.08	9.31	9.45	9.19	9.70	15.00	2.61	9-53
1926-1930	9.26	9.56	9.06	8.83	8.90	9.44	15.84	5.49	9.26
1931-1935(d)	8.68	9.72	8.61	8.72	8.82	9.62	13.45	3.81	9.00
1936-1940(d)(e)	9.45	10.36	9.08	9.33	9.21	9.91	11.74	4.50	9.62
1941-1945(d)(e)	9.73	10.63	9.21	10.27	9.86	10.21	6.52	1.98	9,96
Year	1 :		,				ĺ	-	
1942(d)(e)	10.32	11.21	9.29	11.02	10.65	10.08	9.29	5.34	10.48
1943(d)(e)	10.10	10.81	10.10	10.57	9.62	10.40	5.12	4.99	10.30
1944(d)(e)	9.23	10.30	8.84		9.30	10.15	2.97	4.93	9.52
1945(d)(e)	9.25	10.21	8.79	9.64	9.66	9.71	3.33	4.86	9.50
1946(d)(e)	,,,,,	/	, ,	,,	,,,,,	2.7-	3.33	,,,,,,	,·J
Males	10.90	11.28	11.00	11.06	11.02	11.00	6.36	5.15	11.03
Females	8.51	10.00	8.37	9.29	8.18	9.20	2.70	5.17	4.96
Persons	9.70	10.63	9.77	10.17	9.64	10.11	5.21	5 16	10 00
								<del>-</del>	

(a) Number of deaths per 1,000 of mean population. (b) Northern Territory figures included with South Australia prior to 1901. (c) Part of New South Wales prior to 1911. (d) Revised rates based on mean populations adjusted in accordance with the preliminary results of the Census of 30th June, 1947. (c) Excludes deaths of defence personnel and of internees and prisoners of war from overseas.

- 3. Standardized Death-rates,—(i) General. The death-rates quoted above are crude rates, i.e., they simply show the number of deaths per thousand of mean population without taking into consideration differences in the sex and age composition of the population. Other conditions being equal, however, the crude death-rate of a community will be low if it contains a large percentage of young people (not infants), and conversely it will be relatively high if the population includes a large proportion of elderly people. The foregoing table of crude death-rates, therefore, does not indicate comparative incidence of mortality either as between States in the same year or in any one State over a period of years. In order to obtain a comparison of mortality rates on a uniform basis as far as sex and age constitution are concerned, "standardized" death-rates may be computed. These are computed by selecting a particular distribution of age and sex as a standard, and then calculating what would have been the general deathrate if the death-rates in each sex and age-group were as recorded, but the age and sex distribution the same as in the standard population. For the standardized rates which follow, the standard population compiled by the International Institute of Statistics has been used. This standard is based upon the age distribution according to sex of nineteen European countries at their Censuses nearest to the year 1900. Full details of the "Standard Population" are given in Official Year Book No. 22, p. 962.
- (ii) Death-rates in Age-groups. The following table provides a comparison of death-rates in age-groups in each State for the latest Census year (1933) in which the ages of population in each State were accurately ascertained.

DEATH-RATES(a) IN AGE-GROUPS, 1933.

Age-group (years).	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	N.T.	A.C.T.	Aust.
Under 1 1-4 5-14 15-24 25-34 35-44 45-54 65 and over	1.08	43.52 3.78 1.21 1.82 2.76 4.02 8.10 18.88 62.85	3.10		38.25 3.46 1.31 1.69 2.99 4.76 10.03 19.34 60.49	43.28 3.99 1.67 2.41 3.47 4.98 8.11 15.80 65.43	75.27 2.73  4.34 4.30 7.94 9.71 30.15 77.47	43.48 1.23 0.55 0.68 0.63 4.49 6.19 11.19 40.91	41.72 3.72 1.16 1.82 2.74 4.32 8.36 18.15 63.85
Crude Death rate (all ages)		9-59	8.84	8.44	8.64	9.60	12.55	4.19	8.92

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

It will be observed that in this particular year, while the crude death-rates for Victoria and Tasmania were substantially higher than in other States, the rates at individual ages were lower than for Queensland and not appreciably higher than in New South Wales or Western Australia.

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

CRUDE AND STANDARDIZED DEATH-RATES.

· Particulars.		N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.	
Crude Death-r	ate(a)—								
1921			9.50	10.52	9.37	10.02	10.42	10.30	9.91
1933			8.58	9.59	8.84	8.44	8.64	9.60	8.92
Standardized I	Death-ra	te(b)—			•			-	-
1921		`	10.35	10.79	10.24	10.38	11.88	10.83	10.58
1933			8.52		9.10	7.66	8.74	8.86	8.62
;				1		-			

(a) Total deaths per 1,000 of mean population. in par. 3 (i) above.

(b) See explanation of standardized death-rates

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

- (iv) Standardized Death-rates, Australia, 1933 to 1941. It is not possible to continue the index of mortality formerly published. As indicated in letterpress previously published the index of mortality was an unsatisfactory basis for comparison. The more reliable standardized death-rates for Australia for 1933 and later years were as follows:—1933, 8.62; 1934, 8.92; 1935, 8.83; 1936, 8.70; 1937, 8.58; 1938, 8.59; 1936, 8.73; 1940, 8.51; and 1941, 8.55. Rates for later years have not been calculated as it has been impossible to obtain a satisfactory estimate of the age distribution of the population. Rates will be calculated for 1947 when the final Census results are available.
- 4. True Death-rates.—The main objections to standardized death-rates are that the choice of a standard population is arbitrary and that the standardized rates have little value except for comparative purposes, and even then variation of the standard population may make appreciable differences. A correct measurement of the mortality of the

population can be obtained, however, from life tables. A life table represents the number of survivors at each age from an original batch of newly-born children who are subject to given mortality conditions, and from such a table the complete expectation of life at birth can be calculated. The reciprocal of this figure is known as the true death-rate, since, if the complete expectation of life of a person at birth is 50 years, say, then each person will on the average die 50 years after birth, so that in the standard population one person in 50 or 20 per thousand will die each year. The true death-rate for a given period is unaffected by the particular age distribution of that period and is determined solely by the mortality experience of the period as manifested in the rate of survivorship from each year of age to the next. The table below sets out complete expectation of life at birth and true death-rates for the periods covered by Australian life tables.

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

	Period.			Complete Ex Life at	pectation of Birth.	True De	eath-rate.
	renou.			Males.	Females,	Males.(a)	Females.(b)
			,	Years.	Years.		
1881-1890				47.20	50.84	21.19	19.67
1891-1900				51.08	54.76	19.58	18.26
1901-10				55.20	58.84	18.12	17.00
1920-22				59.15	63.31	16.91	15.80
1932-34		••.		63.48	67.14	15.75	14.89

<sup>(</sup>a) Number of deaths per 1,000 males in life tables or stationary population. deaths per 1,000 females in life table or stationary population.

5. Crude Death-rates of Various Countries.—The following table gives the crude death-rate for Australia and each State thereof in comparison with the rates for various other countries. Figures for the years 1940 to 1945 inclusive are not shown as they are based on population estimates whose comparability is open to doubt because of the abnormal distribution of population during war-time.

CRUDE DEATH-RATES (a): VARIOUS COUNTRIES.

Country.	1908-13.	1921-25.	1926-30.	1931-35.	1946.
Netherlands	 13.9	10.4	9.9	8.9	8.5
Union of South Africa (b)	 (c) 10.3	9.7	9.7	9.8	8.7
Norway	 13.6	11.5	11.0	10.4	9.2
Canada	 (d)	11.2	11.1	9.7	9.4
New Zealand (e)	 9.3	8.6	8.6	8.2	9.7
Australia (f)	 10.7	9.5	9.3	9.0	10.0
Western Australia (f)	 10 3	9.2	9.1	8.8	9.6
New South Wales $(f)$	 10.3	9.3	9.4	8.7	9.7
Queensland $(f)$	 10.3	9.2	8.6	8.6	9.8
Tasmania (f)	 10.7	9.8	9.6	9.6	10.1
South Australia (f)	 10.1	9.4	8.7		10.2
Victoria(f)	 11.7		9.6	9.7	10.6
United States of America	 (c) 14.1	8.11	8.11	(g) 10.9	10.0
Denmark	 13.2		11.1	10.9	10.2
Sweden	 14.0	12.1	12.1	11.6	10.5
Argentine	 17.5	14.4	13.3	12.1	(h) 10.8
Switzerland	 15.2		12.1		11.3
Great Britain and Northern Ireland	14.5	12.4	12.3		11.6
England and Wales	 14.1	12.2	12.1		11.5
Northern Ireland	 16.9	15.6	14.8		12.5
Scotland	 15.5	13.9	13.6		13.1
Finland	 16.4	15.1	14.8		
Italy	 20.4	17.4	16.0		11.9

<sup>(</sup>a) Number of deaths per 1,000 mean population. (b) White population only. (c) 1911-13. (d) Not available. (e) Excluding Maoris. (f) Excluding full-blood aboriginals. (g) 1933-35. (h) 1945.

<sup>(</sup>b) Number of

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

		Country.	,		1908-13.	1921-25.	1926-30.	1931-35.	.1946.
				-		1		·	<u> </u>
Germany					16.5	13.3	11.8	11.2	(h) 12.4
Spain					22.8	20.2	17.9	16.4	12.9
Greece					(c)	16.5	16.6	16.5	(c)
France		• •			18.6	17.2	16.8	15.7	13.3
Belgium					15.7	13.4	13.7	12.9	13.4
Czechoslo	vakia				21.0	16.1	15.3	13.8	13.7
Poland					21.0	18.5	16.8		(e) 13.9
Eire					16.9	14.6	14.4	.14.0	14.0
Hungary		• •			(b) 22.9	199	17.0	15.8	14.1
Portugal					(b) 20.9	20.4	18.4	.16.9	14.7
Yugoslavi	a				(c)	20.2	20.0	17.9	(f) 15.0
Chile					(b) 31.0	30.3	25.8	24.4	17.2
Japan					20 5	21.8	19.3	17.9	17.6
Rumania					24.7	23.0	21.2	20.6	18.0
Mexico		• •			(c)	(d) 25.5	25.6	24.8	18.7
Ceylon		• •			31.4	27.8	25.1	24.7	(h) 21.3
Egypt	• •	• •	• •	• •	25.8	25.4	26.2	27.4	(g) 28.6
(a) Num		deaths per		mean por	oulation. (g) 1942.	(b) 19 (h) 19	11-13.	(c) No	t availab

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

TRUE DEATH-RATES: VARIOUS COUNTRIES.

		True De	ath-rate.	Country.			True De	ath-rate.
Country.	Period.	Males.	Females.			Period.	Males.	Fémales (b)
Netherlands New Zealand(c)	1931–40 1934–38	15.2 15.3	14.9	Belgium Scotland		1928-32 1930-32	17.9	16.7 16.8
Sweden	1936-40	15.6	14.9	Northern	Ire-	1930-32	17.9	
Denmark Australia $(d)$	1936–40 1932–34	15.8 <b>15.8</b>	15.2 14.9	land Austria	• •	1925-27 1930-33	18.0	17.8
United States		1		Finland		1931-40	18.4	16.8
of America(e) Norway	1939-41 1930-31	15.9 16.4	14.9	France Italy	• • •	1928-33	18.4	16.9
Switzerland	1933-37	16.5	15.5	Czechoslova		1929-32	19.3	18.1
England and Wales	1027	16.6.	15.5	Greece Hungary	• •	1928 1930–31	20.4	19.7
Germany	1937 1932–34	16.7	15.9	Poland	• •	1930-31	20.8	19.5 19.5
Eire	1940-42	17.0	16.4	Japan		1935-36	21.3	20.2
Canada Union of South	1930–32	17.0	16.5	, U.S.S.R. (Europe)		1926-27	23.9	21.4
Africa (e)	1935-37	17.0	15.9	, ,,		, ,	3.5	

<sup>(</sup>a) Number of deaths per 1,000 males in life table or stationary population (see explanation on page 769). (b) Number of deaths per 1,000 females in life table or stationary population (see explanation on page 769). (c) Excluding Maoris. (d) Excluding full-blood aboriginals. (e) White population only.

<sup>7.</sup> Australian Life Tables.—Official Year Book No. 20, pp. 962 and 969-73, contains a synopsis of the various Australian life tables and comparisons with other countries of the expectation of life at various ages. In connexion with the Census of 1933, life

tables have been constructed in respect of each sex for Australia as a whole, and these, together with monetary tables on single and joint lives based thereon, have been published as separate Census publications. A specially contributed article by F. W. Barford, M.A., A.I.A., on the results of the tables for single lives appears in Official Year Book, No. 29, p. 928.

8. Infantile Deaths and Death-rates.—(i) Australia, 1901 to 1946. 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 398,347 male infants born from 1942 to 1946, 14,502 (36.41 per 1,000) died during the first year of life, while of 377,939 female infants only 10,950 (28.97 per 1,000) died during the first year. Still-births are not included in any of the tables relating to deaths.

INFANTILE	DEATHS	AND	DEATH-RATES:	AUSTRALIA
INCANTILL	DEATHS	AND	DEATH NAIDS :	AUSIKALIA.

	Number o	f deaths under	one year.	Rate of Infantile Mortality.(a)				
Period.	**	ı		-		-		
•	Males.	Females.	Total.	Males.	Females.	Total.		
Annual Aver								
age		!						
190105	5,499	4,448	9,947	104.25	88.83	96.91		
1906-10	4,881	3.821	8,702	84.78	70.02	77.61		
1911-15	5.274	4,063	9,337	77.65	62.65	70.32		
1916-20	4,757	3,597	8,354	71.63	57.31	64.67		
1921-25	4.474	3,394	7,868	64.23	51.21	57.88		
1926-30	3,909	2,942	6,851	57.66	45.99	51.99		
1931-35	2,649	1,986	4,635	46.00	36.29	41.27		
1936-40	2,679	2,016	4,695	43.23	34.16	38.81		
1941-45	2,921	2,215	5,136	39.11	31.18	35.24		
1942	3,096	2,304	5,400	44.09	34.66	39.50		
1943	3,071	2,342	5,413 `	40.22	32.11	36.26		
1944	2,728	2,078	4,806	34.82	27.71	31.34		
1945	≥,685	2,032	4,717	32.56	26.02	29.38		
1946	2,922	2,194	5,116	32 12	25 69	29.01		

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

(ii) States, 1901 to 1946. For each State and Territory the rates of infantile mortality during the period 1901 to 1946 were as follows:—

INFANTILE MORTALITY RATES (a): UNDER ONE YEAR.

Period.	N.S.W.	Vie.	Q'land.	S. Aust.	W. Aust.	Tas.	N.T.	A.C.T.	Aust.
1901-05	97.02	95.91		86.70	124.79	90.00	149.35	(b)	96.91
1906-10	77.30	79.90		68.38	89.80	83.18	143.79	(b)	77.61
1911-15	71.05	72.23	65 68	67.26	61.73	70.91	85.11	32.56	70.32
1916-20	64.82	67.18	63.04	61.93		63.84	67.15	40.40	64.67
1921-25	58.11	61.93	50.99	54.19		60.44	40.82	60.24	57.88
1926-30	54·74	52·34	47.41	46.95	49.27	53 · 37	66.09	71.31	51.99
	41.92	42.76	39.46	35.12	40.81	44 · 47	80.60	c34.48	41.27
1936-40 1941-45	36.29	37.63	36 75 34·55	33 08 33.20	39.70 33.37	39.54	55.97	21.78 18.75	38.81
1942 1943	40.19 36.18 30.68	41.67 35.76 31.96	34 · 77 37 · 79 31 · 32	39.72 36.67 29.07	36.86 32.63 32.57	42.41 40.56 38.27	43.48 75.00 22.47	22.96 18.62 23.44	39.50 36.26 31.34
1945	30.63	28.03	29.76	28.08	29.52	27.48	55.56	12.35	29.38
	30.22	27.16	29.27	27.07	31.06	30.23	30.30	19.31	29.01

<sup>(</sup>a) Number of deaths under 1 year per 1,000 live births registered. (b) Part of New South Wales prior to 1911. (c) Based on deaths of infants born in the Australian Capital Territory. See for the death of page 755.

Period.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	N.T.	A.C.T.	Aust.
1901-05 1906-10 1911-15 1916-20 1921-25 1926-30 1931-35 1936-40	33 11 31 47 31 75 32.12 29 97 29 63 27.62 27.63 24 52	34 49 32 45 33 97 33 57 32 19 29 75 27 78 25 94 24 40	32.13 30 87 30 73 29 62 27 44 27 66 27 91 26.15 24 41	30 73 26 83 29 07 29 43 27 83 26 84 22 99 21 62 20 86	37 09 30 74 30 87 29 43 27 56 25 10 25 11 22 62 20 60	33 54 29.17 32 68 31.48 31.73 33.12 30.09 29.56 27.24	(b) (b) 38-30 40-77 11-66 14-37 35-26 28-80 33-57	(c) (c) 23.26 35.35 18.07 28.86 d23.45 16.33	33.46 31.10 31.69 31.70 29.91 28.96 27.27 26.19 23.97
1942 1943 1944 1945	25 49 23 83 21 96 21 79 21 97	27 75 23 98 23 09 21.11 20.22	25 32 25 39 21.70 23 96 22 31	20 39 22 98 19 31 21.17 18.85	20.70 21 47 21.35 20 43 21.15	28.27 28.59 25.00 20.74 23.07	21.74 50.00 22.47 33 34 30 30	7.65 13.30 23.44 7.41 15.45	25.35 24.04 22.04 21.77 21.25

<sup>(</sup>a) Number of deaths of children aged under one month per 1,000 live births registered. (b) Not available. (c) Part of New South Wales prior to 1911. (d) Based on deaths of infants born in the Australian Capital Territory. See footnote, page 755.

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

Period.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	N.T.	A.C.T.	Aust.
1901-05 1906-10 1911-15 1916-20 1921-25 1926-30 1931-35 1936-40	63.91 45.83 39 30 32.70 28.14 25.11 14 30 13 55	61.42 47.45 39.16 33.61 29.74 22.59 14.98 11.69	62.22 40.40 34 95 33 42 23 55 19 75 11.55 10 60	55.97 41.55 38.19 32.50 26.36 20.11 12.13 11.46 12.34	87.70 59.06 41.56 32.30 31.58 24.17 15.70 17.08	56.46 54.01 38.23 32.36 28.71 20.25 14.38 11.67 12.30	(b) (b) 46.81 26.38 29.16 51.72 45.34 16.00 22 40	(c) (c) 9 30 5 05 42.17 42.45 d11.03 5.45 6.21	63.45 46.51 38.63 32.97 27.97 23.03 14.00 12.62
1942 1943 1944 1945	14.70 12.35 8.72 8.84 8.25	13.92 11.78 8 87 6 92 6.94	9 45 12 40 9 62 5 80 -6 96	19 33 13 69 9.76 6 91 8.22	16.16 11.16 11.22 9 09 9.91	14.14 11.97 13.27 6.74 7.16	21.74 25.00  2.22	15.31 5.32  4.94 3.86	14.15 12.22 9.30 7.61 7.76

(a) Number of deaths of children aged one month and under one year per 1,000 live births registered.
(b) Not available. (c) Part of New South Wales prior to 1911. (d) Based on death of infants born in the Australian Capital Territory. See footnote, page 755.

These tables indicate the striking decrease in intantile mortality in Australia since the beginning of the century, the number of deaths of children aged under one year per thousand births for 1946 being less than one-third of the average rate for 1901-05. The two lower tables reveal the fact that this improvement was due almost entirely to the decrease in deaths from preventable causes, the nortality rate for children aged one month but under one year declining by 88 per cent. while that for children aged under one month declined by only 36 per cent.

A further indication of the considerable improvement in the infantile mortality rate may be obtained from the following figures. During the years 1944 to 1946, of 490,283 children born 479,600 survived the first month of life and 475,644 the first year of life. Had the high infantile mortality rate of 1901 to 1905 obtained during this period only 473,878 children would have survived the first month of life and only 442,770 the first year of life.

- (iii) Districts. The total number of births and of deaths of children under one year of age for 1946 are shown in Demography Bulletin, No. 64, for each of the sixty-five districts for which vital statistics have been tabulated.
- (iv) Various Countries and Cities. Compared with other countries Australia occupies a very favourable position in regard to infantile mortality. In 1946, only New Zealand recorded a lower rate than Australia.

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

# INFANTILE MORTALITY RATES: VARIOUS COUNTRIES.

<del>-</del> .	r -		-				
		lnf	antile Mor	tality Rat	e.(a)		Crude :
Country.	1906-15.	1921-25.	1926-30.	1931-35	1936-40.	1946.	Birth- rate (b) 1946.
				-93- 33			
New Zealand (o)	61	43	37	32	32	25	25:2
Australia (p)	74	58	52	41	39	29	23.6
South Australia (p)	.68	54	47	35	. 33	27	24.9
Victoria (p)	76	62	52	43	38	27	23.I
Queensland $(p)$	68	51	47	39	37	29	24.8
Tasmania(p)	77	60	53	44	41	30	27.2
New South Wales (p)	74	-58	55	42	41	30	22.8
Western Australia	81	59	49	41	40	31	24.6
Sweden	74	60	58	50	42	(i) 30	19.6
United States of America.	(d)	74	68	59	51	(k) 36	23.3
	(e) 91	73	67	63	53	36	27.7
Norway	· (d)	52	49	45	(g) 40	(j) 37	22.5.
Netherlands	115	64	56	45	37	39	30.2
Switzerland Great Britain and Northern	108	65	54	48	. 45	(k) 41	20.0
	1.35	_0		6			1.6
Ireland	(d)	78	70 68	65	59	43	19.4
England and Wales	113	76		62	56	43	19.1
Scotland Northern Ireland	113	92	85	81 -0	76	54	20.3
m 1	92	82 82	79 82	78	77	54	22.6
Denmark	103			71	60	(k) 48	23.4
***************************************	(d)	98	93 88	75	64	(k) 51	26.5
Finland	(e) 112	96		72	72	(k) 62	27.0
Germany	168	122 69	94	74 68	63	(l) 66 (k) 69	(n) 16.0
	(d)	116	70	ŀ	-69	(k) 69 (i) So	22.9
Argentine	1 ' '		. 113	97	96	· ,	(k) 25.8
Italy Belgium	144	127 100	_	105 82	103	(k) 92	22.3; 18.1
	139	i .	95 124	113	77	12.5	(k) 22.9
Spain	(d)	(d)	(d)	122	(h) 112	(n) 93 $(m)$ 99	(i) 22.9 $(j)$ 23.5
T7.	122	95	89	i	70	(k) 108	20.6
Mexico	(d)	(f) 223	173	73 134	127	110	
Japan	151	159	137	120	(h) 112	$(m)_{114}$	42.5
Tr Transco	(e) 198	187	172	157	131	(n) 116	25,3
Czechoslovakia	(c) 190 $(d)$	155	147	130	(h) 122	(n) 121	17:0
Portugal	(d)	146	146	146	, 135	121	, -
Cevlon	(e) 207	190	140	182	160	(n) 132	24.7 (n) 40.5
Poland	(d)	(d)	147	137	(h) 139	(j) 140	(n) 24.6
Yugoslavia	(d)	(d) ·	147 151	157	(h) 139	(j) 144	(l) 25.9
OF it.	(e) 301	265	229	248	234	160	32.4
Dumania	(e) 195	201	192	182	180	(n) 184	23.8
- <del> </del>	(d)	144	152	165	163	(i) 202	(l) 42.2
Egypt	(4)	144	152	1. 103	103	107 202	42.2
		1	<u></u>	<del> </del>	1 ************************************	!	<u> </u>

<sup>(</sup>a) Number of deaths under i year per 1,000 births registered. (b) Number of births per 1,000 mean population. (c) White population only. (d) Not available. (e) 1911-13. (f) 1922-25. (g) 1935-39. (h) 1935-38. (i) 1944. (j) 1939. (k) 1945. (l) 1942. (m) 1938. (n) 1943. (o) Excluding Maoris. (p) Excluding full-blood aboriginals.

In 1939 the Australian cities Melbourne, Brisbane and Adelaide were among the ten cities having the lowest rates in the following list. The list is headed by Oslo (28), Auckland (29), and Amsterdam (29), the next seven cities being San Francisco, Stockholm, Meibourne, Chicago, Copenhagen, Brisbane and Adelaide. Of the cities named Madras had the highest rate, 238.

INFANTILE MOI	RTALITY	RATES (a)	: VARIOUS	CITIES.
---------------	---------	-----------	-----------	---------

City.		Infantile Mortality Rate.(a)		City.		Infantile Mortality Rate.(a)		
		1921.	1939.			1921.	1939.	
$\begin{array}{c} \operatorname{Oslo} \\ \operatorname{Auckland}(b) \end{array}$		54 54	28 29	Cape Town $(d)$ Hamburg		82 · 95	49 50(f)	
Amsterdam San Francisco		54 50	29 30	Leipzig Antwerp		136 98	· 50(f)	
Stockholm		61	31	Johannesburg(d) Leeds	]	101 98	52	
Chicago		74 84	3 <sup>2</sup> 3 <sup>2</sup>	Berlin		135	57 58(f)	
Copenhagen Brisbane(c)		67 62	34 34	Breslau Birmingham	:: }	170 82	58( <b>f</b> )	
Adelaide $(c)$ Sydney $(c)$		74 62	35 35	Paris Manchester		95 94	61	
Wellington(b) New York City	• • •	61	36	Munich Cologne	]	126	64(f)	
Perth(c)	• • •	72 81	37 38	Montreal		140 158	66( <b>f</b> )	
Detroit Christchurch(b)	• •	83 54	40 42	Liverpool Rome		105 (e)	7 <sup>1</sup> 79(f)	
Philadelphia Toronto	• •	78 91	42	Edinburgh Belfast	• •	96 115	81 85	
Geneva	• • •	(e)	43 43	Glasgow	• •	106	86	
Los Angeles Hobart(c)		68 75	45 47	Dublin Aberdeen		123	90 95	
Sheffield		99 80	47	Lisbon Cairo	٠.	(e)	133	
Dresden	• • •	115	47 48(f)	Bombay	٠.,	(e) 402	213	
Washington		83	48	Madras	• •	281	238	

<sup>(</sup>a) Number of deaths under r year per 1,000 births registered. (b) Excluding Maoris. (c) Excluding full-blood aboriginals. (d) White population only. (e) Not available. (f) For 1938.

In 1946, pre-natal influences, such as congenital malformations, congenital debility and premature birth, together with injuries at birth and other diseases of early infancy accounted for 3,753 or 73 per cent. of all deaths under one year; and of these 3,753 deaths, 3,020 or 80 per cent., occurred less than a week after birth. Among the survivors of the first week, broncho-pneumonia caused the greatest number of deaths attributable to a specific disease. This disease was responsible for 341 deaths, representing 7 per cent. of all deaths under one year, or 1.93 per 1,000 births. Diarrhoea and enteritis caused 177 deaths and other pneumonia 178.

<sup>(</sup>v) Causes of Deaths of Children under one Year. The following table shows for 1946 the ages of all children who died under one year of age from each of twenty-three causes. Corresponding figures for 1945 may be obtained from Demography Bulletin, No. 63. The infantile mortality rates for all births are shown for 1911, 1921, 1931, 1941 and 1946 and for ex-nuptial births for 1925, 1931, 1941 and 1946. Full particulars of the causes of death of all children who died in 1946 under one year and also of those under one month are given for each State and Territory in Demography Bulletin, No. 64. This contains in addition detailed information for Australia as to the age at which children died from each cause of death.

CAUSES OF DEATH OF CHILDREN UNDER ONE YEAR: AUSTRALIA, 1946.

	T	Age at Death.															
Cause of Death.		Under 1 week.	ı week.	2 weeks.	з wеекв.	r month.	2 months.	3 months.	4 months.	5 months.	6 months.	7 months.	8 months.	9 months.	to months.	11 months.	Total under r year.
Cerebro-spinal Meningococcal Meingitis Whooping Cough Diphtheria Erysipelas Respiratory Tuberculosis Tuberculosis of Meninges Tuberculosis, Other Forms Syphilis Measles Meningitis (Non-meningococcal) Convulsions Acute Bronchitis Broncho-pneumonia Pneumonia, Other Other Diseases of the Stomach Diarrhoea and Enteritis Hernia and Intestinal Obstruction Congenital Malformations Congenital Melormations Congenital Melormations Congenital Melormation Congenital Melormation Congenital Melormation Congenital Melormations Congenital Melormations Congenital Melormations Congenital Melormations Congenital Melormations Congenital Melormations Congenital Melormations Congenital Melormations Congenital Melormations Congenital Melormations Congenital Melormations Congenital Melormations Congenital Coulombian Congenital Melormations Congenital Melorma		1  1  3, 4 1 1 566 18 8 341 69 5586 5586 72	1			1   1   5   5   1   1   1   1   1   1	3 9, 2 1 1 28 3 3,	1 5 1	3 5   1  1 3 3 2  11 10 2 29 2 21 1 1 20		1 5 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14  7 4 10 		33  3   1  6 	1 2 2 2 1 5 5 · · · · · · · · · · · · · · · · ·	24 50 17 16 66 11 59 333 18 7 341 178  70 708 1,755 610 571 420
Total	3	,189	293	151	115	248	165	149	131	102	131	113	91	98	51	89	5,116

		Al	l Childre	n.		Ex-nuptial Children.(a)						
-	No. of	Deaths	per 1,000	o Total I	Births.	No.	No. of					
	1911.	1921.	1931.	1941.	1946.	1925.	1931.	1941.	1946.	Deaths 1946.		
Cerebro-spinal Meningococcal Men-												
ingitis		0.03	0.08	0.16	0.14	0.48		0.39	0.26	2		
Whooping Cough	1.57	1.97	1.58	1.27	0.28	2.06	1.71	1.94	0.40	j <u>3</u>		
Diphtheria Erysipelas	0.25	0.59	0.25	0.13	0.10	0.32	υ.34	0.10	0.13	I		
Daniel M. Landelle	0.08	0.24				0.10			0.26	2		
Tuberculosis of Meninges	0.31	0.18	0.22	0.10		0.32	0.34	01.0	0.20	. 2		
Tuberculosis, Other Forms	0.31	0.08	0.04	0.05	0.06		0.34	0.19	::			
Syphilis	0.85	0.56	0.20	0.00	0.03	1.27		0.77	0.26	2		
Measles	0.34	0.15	0.10	0.01		0.16	0.51		0.39	3		
Meningitis (Non-meningococcal)	1.83	1.10		0.30		0.32		0.19	0.40	3		
Convulsions	2.55	1.45		0.17		2.38	0.51					
Acute Bronchitis	2.34	1.50	0.32	0.11	0.04	0.48	0.86		0.13	I		
Broncho-pneumonia	2.86	3.08	2.82	2.96	1.93	8.09	5.31	4.65	4.34	33		
Pneumonia, Other	1.90	2.08	1.62	1.42	1.01	2.38	3.43	2.32	1.18	ğ		
Other Diseases of the Stomach	0.47	0.71	0.13	0.05		1.11	0.34	0.19				
Diarrhoea and Enteritis	16.99	15.01	3.26	2.07		19.18	8.39	4.26	2.50	19		
Hernia and Intestinal Obstruction	0.72	0.57	0.41	0.19			0.17		0.26			
Congenital Malformations	2.99	3.74	4.23	4.63	4.02	3.64	4.28	4.06	2.89			
Congenital Debility $(b)$	22.41	\$ 7.64	2.60	1.98	0.61	9.51	7.19	3.48	1.05	8		
Premature Birth	22.41	15.29	14.04	12.41	9.95	20.93	21.92		13.92	106		
Injury at Birth	4.07	5.53	∫ 2.81	4.27	3.46	1.90	3.08	5.23	3.81			
Other Diseases of Early Infancy			₹3.29		3.24	2.69	3.77	4 · 45	2.37	18		
Other Causes	5.58	4.16	3.29	3.13	2.38	6.98	5.82	7.55	5.12	39		
Total	68.49	65.73	42.14	39.72	29.01	84.83	68.65	58.83	39.67	302		

<sup>(</sup>a) Included in figures for all children.

<sup>(</sup>b) Includes Icterus and Sclerema prior to 1931.

<sup>(</sup>vi) Deaths of Ex-nuptial Children under one Year. The deaths of ex-nuptial children were tabulated by this Bureau for the first time in 1925. The causes of death of these children in 1946 and the rates in respect of 1925, 1931, 1941 and 1946 are shown in the inceding table. Corresponding figures for 1945 may be obtained from Demography

Bulletin, No. 63. Full particulars of the causes of death of ex-nuptial children who died in 1946 aged under one year and also of those under one month are given for each State and Territory in Demography Bulletin, No. 64. This contains in addition detailed information for Australia as to the age at which ex-nuptial children died from each cause of death.

Pre-natal influences, such as congenital malformations, congenital debility and premature birth, together with injuries at birth and other diseases of early infancy accounted for 183 or 61 per cent., broncho-pneumonia for 33 or 11 per cent., and diarrhœa and enteritis for 19, or 6 per cent. of the total deaths of ex-nuptial children under 1 year.

9. Deaths in Age-groups.—A distribution into age-groups has been made of the 364,165 deaths which occurred in Australia during the five years ended 1946, and the results are shown in the following table:—

AGGREGATE DEATHS IN AGE-GROUPS: AUSTRALIA, 1942 TO 1946.

			Nu	mber of Dea	ths.	Percentage of Total.					
Age-gi	roup (Yeai	rs).	Males.	Females.	Persons.	Males.	Females.	Persons.			
							%	%			
Under 1			14,502	10,950	25,452	7.26	6.66	6.99			
1-4			3,731	3,083	6,814	1.87	1.87	1.87			
5-19			5,447	3,600	9,047	2.73	2.19	2.48			
20~39			10,578	11,480	22,058	5.30	6.98	6.06			
.40-59			41,212	28,981	70,193	20.64	17.62	19.28			
60-64			20,338	13,014	33,352	10.18	7.91	9.16			
-65 and ov	ver		103,830	93,373	197,203	52.00	56.77	54.15			
Age unsp	ecified		41	5	46	0.02	• • •	0.01			
To	tal		199,679	164,486	364,165	100 00	100.00	100.00			

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

DEATHS IN AGE-GROUPS: PERCENTAGES, AUSTRALIA.

				Age-	group (Ye	ars).			
Period.	Under 1.	I-4.	5-19.	20-39.	40-59.	60-64.	65 and Over.	Unspeci- fied.	Total.
				Male	s.				
1901-10 %	19.80	5 84	5.84	13 85	19.70	5.71	29.08	0.18	100.00
1911-20 %	16.44	5.65	5.18	13 44	22.16	6 83	30.11	0.19	100.0
1921-30 %	13.18	4.35	4 86	00.11	21.76	9 01	35.71	0.13	100.0
1931-40 %	7.53	2.49	4 02	8 79	21.67	8 95	46.50	0.05	100.00
				FEMAL	ES.				
1901-10 %	21.47	7.28	7.08	16.54	15.67	4.77	27.15	0.04	100.0
1911-20 %	16.95	6.69	5.92	15.79	17.85	5.31	31.44	0.05	100.0
1921-30 %	12.98	4 72	4.85	13.59	18.96	7.27	37.61	0.02	100.0
1931-40 %	7.22	2.66	3 58	10.10	19.11	7.60	49.72	10 0	100.0
				Perso	NS.				
1901-10 %	20.51	6.45	6.37	14.99	17.99	5.31	28.26	0.12	100.0
1911-20 %	16.66	6.09	5.49	14.44	20.32	6.19	30.68	0.13	100.0
1921-30 %	13.10	4.51	4.85	12.12	20.55	8.26	36.53	0.08	100.0
1931-40 %	7.40	2.56	3.83	9.36	20.54	8.36	47.92	0.03	100.0

10. Deaths at Single Ages and in Age-Groups.—(i) General. The deaths registered in Australia in 1945 and 1946 will be found tabulated in groups of five years for each State and Territory and in single ages for Australia in Demography Bulletin, Nos. 63-64, respectively. The deaths during the first fifteen years of life have been tabulated there in single ages and for the first year of life in shorter periods. A summary for Australia for 1946 is given in the following table:—

DEATHS AT SINGLE AGES AND IN AGE-GROUPS: AUSTRALIA, 1946.

Age at Death.	Males.	Males. Fe- males. Person			ge at Death.	Males.	Fe- males.	Persons.	
Under i week	1,841	1,348	3,189	Total	5- 9 years		254	209	463
1 week and under 2	151	142	293	. ,,	10-14 ,,		217	149	366
2 weeks and under 3	8o	71	151	,,	15-19 ,,		456	250	706
3 weeks and under I		, -		,,	20-24 ,,	'	486	383	869
month	69	46	115	,,	25-29 ,,		482	485	967
		<u></u>		,,	30-34 ,,		623	559	1,182
Total under 1 month	2,141	1,607	3,748	,,	35-39 ,,		767	662	1,429
10001 411401 1 11011011	-,	1,007	3,740	,,	40-44 .,	!	1,018	763	1,781
			II	,,	45-49 ,,		1,622	1,189	2,811
month and under 3	ٔ میم		1	12	50-54 ,,	!	2,324	1,712	4,036
month and under 3	240 204	173 178	413 382	,,	55-59 ,,		3,477	2,111	5,588
6 months and under 12				,,	60-64 ,,		4,205	2,689	6,894
o moneus and under 12	337	236	573	,,	65-69 ,,		4,880	3,251	8,131
mi . 4 . 1		_		٠,,	70-74 ,,		4,907	4,058	8,965
Total under 1 year.	2,922	2,194	5,116	٠,,	75-79 ,,		5,138	4,590	9,728
			1 1	١,,	80-84 ,,		3,984	4,061	8,045
			1	,,	85-89 ,,		2,158	2,547	4,705
ı year	264	247	511	,,	90-94 ,,		636	803	1,439
2 years	155	122	277	,,	95-99 ,,		89	160	249
3 ,	115	89	204	١,,	100 and over		9	15	24
4 ,	85	79	164	Age ui	nspecified	• •	10	1	11
Total under 5 years	3,541	2,731	6,272	T	otal all ages		41,283	33,378	74,661

<sup>(</sup>ii) Rates. The following table gives the average annual death-rates in age-groups per 1,000 living for the period 1932 to 1934, i.e., the Census year 1933 and the years immediately preceding and following. Deaths in the Northern Territory and the Australian Capital Territory are included in the total for Australia but not in any of the States. Similar details for the years 1920 to 1922 are given in Official Year Book No. 22, p. 975.

AVERAGE ANNUAL DEATH-RATES: AGE-GROUPS, 1932-34.

Age-gr (Yea	roup rs).	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
		•		Male	s.	•	•	
0- 4		12.51	12.65	12.21	9 91	12.81	12.77	12.33
5- 9		1.41	1.72	1.56	1.21	1.56	2.08	1.53
10-14		1.23	1.38	1.08	1.04	1.40	1.27	1.24
15-19		1.69	1.76	1.93	1.71	1.76	2.05	1.76
20-24		2.28	2.31	2.81	2.31	2.52	2.73	2.41
25-29		2.21	2.58	2 93	2.50	2.85	2.98	2.52
30-34		2.81	2.82	3 50	2.53	3.10	3.78	2 96
35-39		3.76	3.85	4 61	3.26	4 01	4.71	3 92
40-44		5 · 34	4 93	6 04	4.71	5 69	4 85	5 28
45-49		7.91	7.61	7 98	6 80	8.81	6 90	7.76
50-54		11.62	11.25	11.82	981	13.48	9 96	11 45
55-59		17.70	18 68	17 58	15.15	21.43	14 47	17 89
60-64		25 74	26 66	26 92	25 08	28.26	23 92	26 27
65-69		39 99	41.17	39 94	36.14	42.40	35.11	40 03
70-74		62.28	63 96	58 90	57.29	63.40	59 22	61 85
75-79		95 52	98.12	94 59	92 66	105.14	94 23	96 26
80-84		156.44	157.81	168 61	146 83	176.82	160 80	158 70
85-89		231.04	233 33	218 42	239 45	264 96	204 45	230 75
90 and	over	313.38	348 76	314.86	303.07	380.77	401.97	327 55

AVERAGE ANNUAL DEATH-RATES: AGE-GROUPS, 1932-34-continued.

Age-gr	roup rs).	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia
				FEMAI	es.			
0- 4.	!	10.05	7.04	10.72	8.30	8.64	10.42	10.00
5- 9	i	1.17	1.30	1.03	1.03	1.27	1.54	1.19
0-14	•• '	0.83	0.97	0 93	0 90	0.99	0.91	0.90
5-19	,	1.36	1.39	1.50	1.23	1.26	2.22	1.39
0-24		2.03	2.00	2.77	2.35	1.94	2.58	2.1
5-29	٠٠,	2.44	2 50	2.81	2.74	2.75	3.74	2.6
0-34		2.88	2.87	3 44	2 64	3.13	3.63	29
5-39		3 · 75	3 37	4 05	3 88	4.24	4 43	3 7
0-44		4.24	4 32	4 89	4.10	5.79	4.88	4 3
5⁻49		6 02	6.11	6.14	5 78	6.35	5 · 44	6 0
io-54	• • •	8.27	8 81	8 61	8 0.7	9.08	10.08	8.5
5-59		11.62	12 49	12 02	11 26	16.69	11.62	15 5
0-64		17 27	18 73	17 19	17 78	17 32	16 87	17.7
5-69		29 55	29 91	27 01	27.13	29 81	30 46	29 2
70-74	;	45 95	48 18	49 03	42 31	44.10	48 31	46 7
75-79		74 78	81 13	76 29	75 65	74 42	83 58	77 4
80-84		125 55	127 91	126 63	120 74	120 99	125 15	125 6
85–89 no and		119 40	<sup>204</sup> 57	208 · 19	207 40	192.39	195 28	199 9
yo and	Over	292.10	327.19	370 23	233 58	397.20	363 63	306.2
	'			Perso	NS.	<del></del>	·	
							1 .	
<b>o</b> ~ 4		11.31	11 37	11 48	9 12	11.35	11.62	. 11.19
5- 9		1.29	1 51	1 30	1 12	1.1.41	1.81	1.30
10–14		1.03	1.18	1 01	0 97	1.20	1.09	1.0
15-19		1.52	I 57	1 72	I 47	1.51	2.14	1.5
20-24	• • •	2.16	2.16	2 60	2 35	2.24	2 66	2 2
25-29		2 32	2 54	2 87	2 61	2.80	3 35	2 5
0-34	• • •	2 85	2 85	3 47	2 59	3.12	3 71	2 9
35-39		3 76	3 61	4 34	3 57	4.12	4 56 4 86	3 8
10-44 15-49		4 79 6 99	4 62 6 84	5 50	4 40 6 29	5.15	4 86 6.19	4 8 6 9
15-49 50-54	::	10 00	10 00	7 I4 10 37	8 93	7.67	10 02	10 0
55-59	1	14 70	15 46	14 86	13.19	11.47	13 09	14 8
00-64		21 56	22 46	22 41	21 35	23.44	20 52	22 0
55–69		34 90	35 29	34 06	31 39	37.0I	32 87	34 6
70 <del>-</del> 74		54 3I	55 68	54 55	49 43	55.28	53 89	54 3
5-79		85.18	89 06	86 33	83 92	91 08	88 97	86 8
30–84		140 43	140 48	148 56	132 56	149 72	142 64	141.1
35-89		209 89	215 56	213 10	220 66	222 90	199 07	214.1
o and		301.13	334 60	341.25	253 61	389.21	376.36	314.4
		5 5	1 224 '	- J - J		J-2	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 2-1.1

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

<sup>12.</sup> Length of Residence in Australia of Persons who Died.—The length of residence in Australia of all persons whose deaths were registered in 1940 is shown in the following table. Tabulations for subsequent years were discontinued but will be revived for 1947

Length of Resi	dence.		Female Deaths.	Total Deaths.	Length of Residence.	Male Deaths.	Female Deaths.	Total Deaths.
			-					
Born in Australia	ı	28,139	23,178	51,317	Resident 25 to 29 years	1,090	712	1,802
Resident under 1	year	54	25		,. 30 to 34 ,,	796	371	1,167
,, ı year		31	28		,, 35 to 39 ,,	320	159	479
,, 2 years		26	16	42	., 40 to 44 ,,	538	232	770
,, 3 ,,		21	20	41	., 45 to 49 ,,	393	213	606
,, 4 ,,		. 13	12	25	., 50 to 54 ,,	1,321	793	2,114
,, 5 ,,		16	14	30	., 55 to 59 ,,	1,100	761	1,861
,, 6 ,,		25	5	30	., 60 to 64 ,,	871	644	1,515
,, 7 ,,		11	9	20	,, 65 yrs. and over	1,112	1,275	2,387
,, 8 .,		18	9	27	Length of residence not	!	'	
., 9 ,,		11	5	16	stated	1,491	472	1,963
,, 10 to 14	years	386	247	633	İ	į.	ļ.,	1
,, 15 to 19	٠,,	530	301	831	1	i		
20 to 24	•	205	275	570	Total	. 38,608	29,776	68,384

## LENGTH OF RESIDENCE IN AUSTRALIA OF PERSONS WHO DIED IN 1940.

- 13. Birthplace of Persons who Died.—A table giving a summary of birthplaces of persons whose deaths were registered in 1911 and 1940 will be found in Official Year Book No. 34, p. 337. More detailed information will be found in Demography Bulletin, No. 58. Tabulations were discontinued for the years 1941 to 1945 inclusive but were revived for 1946, details of which appear in Demography Bulletin, No. 64.
- 14. Occupation of Males who Died.—A table showing occupations of males who died during 1946 appears in Demography Bulletin, No. 64.
- 15. Causes of Deaths.—(i) General. The classification adopted by this Bureau is that of the International Institute of Statistics, as amended by the Committees of Revision which met in Paris in 1909, 1929, 1929 and 1938.
- (ii) Mortality Statistics for 1907 and Subsequent Years. The statistics relating to causes of death in Australia from 1907 onward have been tabulated in this Bureau in accordance with the above-mentioned classification, and the system is employed also in the State statistical offices. Particulars from 1940 onward have been tabulated on the 1938 revision of the International List.
- (iii) Classification of Causes of Death, according to the Intermediate and the Abridged International Classifications. An abridged classification, which enumerates forty-three diseases and groups of diseases according to the revised classification, has been in use in many European countries and American States until recently, and a table has been given in past issues of the Official Year Book showing the causes of death according to the abridged classification, so that the results may be compared with those of other countries which used the abridged index.

As the result of an international treaty signed in London in 1934, the intermediate classification of causes of death, or the "minimum nomenclature" covering 87 main causes or groups of causes, has now been adopted in most countries for the purpose of making international comparisons. This classification appears in the pages following and shows the number of deaths during 1946 in Australia for each cause enumerated. To preserve continuity with former statistics, particulars for 1946 have been compiled in the abridged form and are shown on p. 787 in conjunction with those for the previous four years, and averages over five-yearly periods to 1941–45 are shown in the same form on p. 788.

The compilations for the years 1942 to 1946 will be found in full detail in *Demography Bulletins*, Nos. 60 to 64. In the following tables in which the intermediate classification has been employed, tables A, B and C show deaths of males, females and persons, respectively, for 1946. Table D shows in the abridged form, on the basis of the 1938 revision of the International List, the number of persons who died in each of the years 1942 to 1946 and gives the rate per million of population for the last-named year.

Since death-rates are subject to continual fluctuation, it is unsafe to base deductions on the figures relating to a single year. In order, therefore, to furnish a valid basis for comparison, three five-yearly periods have been shown in table E giving the number of deaths and the rates per million persons. While the absolute number of deaths has increased, the death-rate has shown a very satisfactory decrease, which is reflected in the great majority of the causes specified in the table.

## A.-CAUSES OF DEATH: MALES, 1946.

#### INTERMEDIATE CLASSIFICATION.

Intermediate Classification.   General Classification.   W.S.W.   Vic.   Q'land.   S. Aust.   W. Aus.   Tas.   N.T.   A.   A.   Aust.   W. Aus.   Tas.   N.T.   C.   Aust.   W. Aus.   Tas.   N.T.   C.   Aust.   W. Aus.   Tas.   N.T.   C.   Aust.   W. Aus.   Tas.   N.T.   C.   Aust.   W. Aus.   Tas.   N.T.   C.   Aust.   W. Aus.   Tas.   N.T.   C.   Aust.   W. Aus.   Tas.   N.T.   C.   Aust.   W. Aus.   Tas.   N.T.   C.   Aust.   W. Aus.   Tas.   N.T.   C.   Aust.   Tas.   Aust.   Tas.   N.T.   C.   Aust.   Tas.	1-9-						·		,		
Pewers (1)	Intermediate Classification.	Classifi- cation	N.S.W.	Vic.	Q'lund.	S. Aust.	W. Aus.	Tas.	N.T.	C.	Aust.
Pewers (1)	1. Typhoid and Paratyphoid										
3. Searlet Fever (3)	Fevers (1)	1,2	2	· I	1		3				7
4. Whooping Cough (4)	2. Plague (2)	3		• •			1 1				٠.,
5. Diphtheria (5) 6. Tuberculosis of the Respiratory System (6) 6. Tuberculosis of the Respiratory System (6) 7. Tuberculosis (7b) 7. T	3. Scarlet Fever (3)										
6. Tuberculosis of the Respiratory System (6) miles (7a)   Septicemia, Purulent Infection (Non-puerperal) (1a)   Septicemia, Purulent Infection (Non-puerper	4. Whooping Cough (4)		1							i i	64
System (6)	6 Tuberculosis of the Respiratory	10	33		1.4	_	*				
70. Therecular Meningitis (7a)	System (6)	13	549	404	215	109	116	57	1	1	1,452
culosis (7b) S. Septitemina, Purulent Infection (Non-puerperal) (14) Description of the content	7a. Tubercular Meningitis (7a)				4			3		1	27
8. Septicamia, Purulent Infection (Non-pureprent) (4)						_		c			
(Non-puerperal) (14)	Cultosis (70)	14 (0)-22	21	22	9	7	6	0			71
9. Dysentery (r4)	(Non-nuerperal) (14)	7.4		6	! .	7	, ,	2	1	ا ا	24
10. Malaria (8)	o. Dysentery (14)				1				•		
11. Syphilis (9)	10. Malaria (8)	28	5						1	'	8
120. Influenza—Cheri (10b)   33 (b)   20   19   20   2   2   2   2   2   2   0   05	11. Sypbilis (9)		103		40		23				
13. Small-pox (11)	120. Influenza—Pneumonic (100)	33 (a)								1	
14. Measles (12)	12b. Innuenza—Other (10b)	33 (0)	. 23		14	2	3				57
15. Typhus Fever (13)							18				50
16. Diseases clused by Helminths (14)   40-42   5   15   1   2   3   1     27   17. Other Infectious and Parasitic   *   113   67   38   18   15   12     263   18. Cancer of the Buccal Cavity and Pharynx (15)     45     45     46   958   757   354   230     169   88   1   3   2,560   19. Cancer of the Diseastive Organs and Peritoneum (15)     47     164     141     62     41     3     1     7   23. Cancer of the Breast (15)     50   1   2     3     1     7   24. Non-malignant Tumours or Tumours of Tumours of Tumours of Unspecified Autre (16)     56, 57   97   49   29   19   15   4     1   1,271   25. Acate Rheumatic Fever (20)     58   25   4   13   5   5   5     60   26. Chronic Rheumatism and Chronic Rheumatism and Parathyroid Glands (20)     56     59, 60   13   20   6   10   2   7   1     59   58   27. Disabetes Melliture (18)     61   194   142   55   56   25   16     488   28. Diseases of the Thyreid and Parathyroid Glands (20)     63     67-71       28   29. Other General Diseases (20)     63   .	15. Typhus Fever (13)				ı				1 1		7
17. Other Infectious and Parasitic Diseases (14)   .	16. Diseases caused by Helminths (14):		1	15	ĭ	2	3	1			27
18. Cancer of the Buccal Cavity and Pharpynx (15) 19. Cancer of the Digestive Organs and Peritoneum (15) 20. Cancer of the Respiratory System (15) 21. Cancer of the Breast (15) 22. Cancer of the Breast (15) 23. Cancer of Other or Unspecified Organs (15) 24. Non-malignant Tumours or Tumours of Tumours of Unspecified Nature (16) 25. Acute Rheumatic Fever (20) 26. Chronic Rheumatism and Gout (17) 27. Diabetes Mellitus (18) 28. Diseases of the Thyroid and Parathyroid Glands (20) 29. Other General Diseases (20) 20. Other General Diseases (20) 20. Avitamhoses (20) 21. Austhanhoses (20) 22. Louremias. Pseudoleucæmias, and other Diseases of the Blood and Rood-making Organs (2) 23. Louremias. Pseudoleucæmias, and other Diseases of the Blood and Rood-making Organs (2) 25. Meningtils (Non-meningococal) (27) 26. Diseases of the Spinal Cord (21) 27. Meningtils (Non-meningococal) (22) 28. Mental Diseases of the Spinal Cord (21) 29. Other Diseases of the Spinal Cord (21) 20. Spicases of the Spinal Cord (21) 20. Spicases of the Spinal Cord (21) 21. Spicases of the Spinal Cord (21) 22. Spicases of the Spinal Cord (21) 23. Meningtils (Non-meningococal) (23) 24. Diseases of the Spinal Cord (21) 25. Spicases of the Spinal Cord (21) 26. Epilepsy (23) 27. Avitamingus (23) 28. Mental Diseases (23) 29. Certain Spinal Cord (21) 29. Spicases of the Spinal Cord (21) 29. Spicases of the Spinal Cord (21) 20. Spicases of the Spinal Cord (21) 20. Spicases of the Spinal Cord (21) 20. Spicases of the Spinal Cord (21) 20. Spicases of the Spinal Cord (21) 20. Spicases of the Spinal Cord (22) 20. Spicases of the Spinal Cord (22) 21. Spicases of the Spinal Cord (22) 22. Spicases of the Spinal Cord (22) 23. Spicases of the Spinal Cord (23) 24. Equivalent Diseases of the Spinal Cord (23) 25. Spicases of the Spinal Cord (23) 26. Spicases of the Spinal Cord (23) 27. Spicases of the Spinal Cord (23) 28. Spicases of the Spinal Cord (23) 29. Spicases of the Spinal Cord (23) 20. Spicases of the Spinal Cord (23) 20. Spicases of the Spinal Cord (23) 20. Spi	17. Other Infectious and Parasitic	ł									
Pharynx (15) Q. Gancer of the Digestive Organs and Peritoneum (15) Q. Cancer of the Respiratory System (15) Q. Cancer of the Breast (15) Q. Cancer of the Breast (15) Q. Cancer of Other or Unspecified Organs (15) Q. Cancer of Other or Unspecified Organs (15) Q. Cancer of Other or Unspecified Organs (15) Q. Cancer of Other or Unspecified Organs (15) Q. Cancer of Other or Unspecified Organs (15) Q. Cancer of Other or Unspecified Organs (15) Q. Cancer of Other or Unspecified Organs (15) Q. Cancer of Other or Unspecified Organs (15) Q. Cancer of Other or Unspecified Organs (15) Q. Cancer of Other or Unspecified Organs (15) Q. Cancer of Other or Unspecified Organs (15) Q. Cancer of Other or Unspecified Organs (15) Q. Cancer of Other or Unspecified Organs (15) Q. Cancer of Other Organs (15) Q. Cancer of Other Organs (15) Q. Cancer of Other or Unspecified Organs (15) Q. Cancer of Other Organs (	Diseases (14)	•	113	67	38	18	15	12		• • •	203
and Peritoneum (15)	Physips (15)	۱		60		20	26	7	l . i		278
20. Cancer of the Respiratory System (15) 46 958 757 354 230 169 88 1 3 2,560 20. Cancer of the Brenst (15) 50 1 2 3 1 464 27 47 4	10. Cancer of the Digestive Organs	43	114	09	4.	1		,			-,-
20. Cancer of the Respiratory System (15)	and Peritoneum (15)	46	958	757	354	230	169	88	1	3	2,560
22. Cancer of the Breast (15)	20. Cancer of the Respiratory System										
23. Cancer of Other or Unspecified Organs (15)	(15)								1		404
Organs (15)	22. Cancer of Other or linenseifed	50	1			3		1		• •	· /
24. Non-malignant Tumours of Tumours of Tumours of Unspecified Nature (16)	Organs (15)	40. 51-55	182	372	188	123	64	41	١ ا	1	1,271
25. Acute Rheumatic Fever (20) 26. Chronic Rheumatism and Gout (17) 27. Diabetes Mellitus (18) 28. Diseases of the Thyroid and Parathyroid Glands (20) 29. Other General Diseases (20) 30. Avitaminoses (20) 31. Anæmias (20) 32. Leuwæmias, Pseudoleuwæmias, and other Diseases of the Blood and Blood-making Organs (20) 33. Aleonolism (neute or chronic) (19) 34. Other Chronic Poisonings (20) 35. Meningtiis (Non-meningococcal) (21) 36. Diseases of the Spinal Cord (21) 37. Meningtiis (Non-meningococcal) (21) 38. Mental Diseases and Deficiency (23) 39. Epilepsy (23) 30. Epilepsy (23) 30. Other Diseases of the Nervous System (23) 31. Chronic Affections of the Nervous System (23) 32. Chronic Affections of the Nervous System (23) 33. Other Diseases of the Nervous System (23) 34. Diseases of the Mervous System (23) 35. Mental Diseases of the Nervous System (23) 36. Other Diseases of the Nervous System (23) 37. Diseases of the Spinal Cord (21) 38. System (23) 39. Epilepsy (23) 30. Chronic Affections of the Valves and Endocardium (24) 41. Diseases of the Myocardium (24) 42. Diseases of the Myocardium (24) 43. Diseases of the Coronary Arteries and Auguina Parathyrious System (24) 45. Diseases of the Coronary Arteries and Auguina Parathyrious System (24) 46. Diseases of the Coronary Arteries and Auguina Parathyrious System (24) 47. Diseases of the Coronary Arteries and Auguina Parathyrious System (24) 48. Diseases of the Coronary Arteries and Auguina Parathyrious System (24) 48. Diseases of the Coronary Arteries and Auguina Parathyrious System (24) 49. Liseases of the Coronary Arteries and Auguina Parathyrious System (24) 49. Liseases of the Coronary Arteries and Auguina Parathyrious System (24) 40. Other Diseases of the Coronary Arteries and Auguina Parathyrious System (24) 41. Diseases of the Coronary Arteries and Auguina Parathyrious System (24) 42. Diseases of the Coronary Arteries and Auguina Parathyrious System (24) 43. Diseases of the Coronary Arteries and Auguina Parathyrious System (24) 44. Diseases Of the Coronary A	24 Non-malignant Tumours or	79.5- 55	. "	37		1	, ,				
25. Acute Rheumatic Fever (20) . 26. Chronic Rheumatism and Gout (17)	Tumours of Unspecified Nature				İ	1					
26. Chronic Rheumatism and Goth (17)	(16)	56.57									
Count (17)   Cou		50	25	-4	13	3	°	3			00
27. Diabetes Mellitus (18) 28. Diseases of the Thyroid and Parathyroid Glands (20) 29. Other General Diseases (20) 30. Avitaminoses (20) 31. Anæmias (20) 32. Leucemias 32. Buecemias 33. Alcoholism (acute or chronic) (19) 34. Other Diseases of the Blood and Blood-making Organs (20) 33. Alcoholism (acute or chronic) (19) 34. Other Chronic Poisonings (20) 35. Meningtitis (Non-meningaceceal) (21) 36. Diseases of the Spinal Cord (21) 37. Intra-cranial Lesions of Vascular Oricin (22) 38. Mental Diseases and Deficiency (23) 39. Epilepsy (23) 40. Other Diseases of the Nervous System (23) 41. Diseases of the Eye, Ear and their Annexa (23) 42. Perfeardilist (24) 43. Diseases of the Myocardium (24) 44. Diseases of the Myocardium (24) 45. Diseases of the Myocardium (24) 45. Diseases of the Coronary Arteries and Augina Parathyroid and 61	(lont (17)	50 60	7.2	20	6	10	2	7	1		50
Parathyroid Glands (20)	27. Diabetes Mellitus (18)	61		142							488
29. Other General Diseases (20)	28. Diseases of the Thyroid and	1			i		}				
30. Avitaminases (20)	Parathyroid Glands (20)	63						• •			
31. Anæmias (20) 32. Leuremias, Pseudoleuremias, and other Diseases of the Blood and Blood-making Organs (20) 33. Aleoholism (neute or chronic) (19) 34. Other Chronic Poisonings (20) 35. Meningitis (Non-meningeoccal) (21) 36. Diseases of the Spinal Cord (21) 37. Intra-cranial Lesions of Vascular Origin (22) 38. Mental Diseases and Deficiency (23) 39. Epilepsy (23) 40. Other Diseases of the Nervous System (23) 41. Diseases of the Eye, Ear and their Annexa (23) 42. Perfectficities (24) 43. Chronic Affections of the Valves and Endecardium (24) 44. Diseases of the Myocardium (24) 45. Diseases of the Coronary Arteries and Augina Pertoris (24) 45. Diseases of the Coronary Arteries and Augina Pertoris (24) 47. Diseases of the Coronary Arteries and Augina Pertoris (24) 47. Diseases of the Coronary Arteries and Augina Pertoris (24) 48. Diseases of the Coronary Arteries and Augina Pertoris (24) 49. In the coronary Arteries and Augina Pertoris (24) 49. In the coronary Arteries and Augina Pertoris (24) 40. Diseases of the Coronary Arteries and Augina Pertoris (24) 41. Diseases of the Coronary Arteries and Augina Pertoris (24) 42. Diseases of the Coronary Arteries and Augina Pertoris (24) 43. Diseases of the Coronary Arteries and Augina Pertoris (24) 44. Diseases of the Coronary Arteries and Augina Pertoris (24) 45. Diseases of the Coronary Arteries and Augina Pertoris (24) 46. Diseases Of the Coronary Arteries and Augina Pertoris (24) 47. Diseases Of the Coronary Arteries and Augina Pertoris (24) 48. Disease Of the Coronary Arteries and Augina Pertoris (24) 49. In the Coronary Arteries and Augina Pertoris (24) 49. In the Coronary Arteries and Augina Pertoris (24) 49. In the Coronary Arteries and Augina Pertoris (24) 49. In the Coronary Arteries and Augina Pertoris (24) 49. In the Coronary Arteries and Augina Pertoris (24) 49. In the Coronary Arteries and Augina Pertoris (24) 49. In the Coronary Arteries and Augina Pertoris (24) 49. In the Coronary Arteries and Augina Pertoris (24) 40. Disease Of the Coronary Arteries and A		62, 64-66	14	10	11	10					54
32. Leuræmias. Pseudoleuræmias, and other Diseases of the Blood and Rlood-naking Organs (20)  33. Alcoholism (acute or chronic) (19)  34. Other Chronic Poisonings (20)  35. Meningitis (Non-meningococcal) (21)  36. Diseases of the Spinal Cord (21)  37. Intra-cranial Lesions of Vascular Orgin (22)  38. Mental Diseases and Deficiency (23)  40. Other Diseases and Deficiency (23)  41. Diseases of the Eye, Ear and their Annexa (23)  42. Perfearditist (24)  43. Chronic Affections of the Valves and Endocardium (24)  44. Diseases of the Myocardium (24)  45. Diseases of the Coronary Arteries and Augina Pertoris (24)  46. Diseases of the Coronary Arteries and Augina Pertoris (24)  47. Diseases of the Coronary Arteries and Augina Pertoris (24)  48. Diseases of the Coronary Arteries and Augina Pertoris (24)  49. Indicate the Spinal Cord (21)  40. Other Diseases of the Myocardium (24)  41. Diseases of the Coronary Arteries and Augina Pertoris (24)  42. Perfearditist (24)  43. Other Diseases of the Myocardium (24)  44. Diseases of the Coronary Arteries and Augina Pertoris (24)  45. Diseases of the Coronary Arteries and Augina Pertoris (24)  46. Diseases of the Coronary Arteries and Augina Pertoris (24)  47. Diseases of the Coronary Arteries and Augina Pertoris (24)  48. Diseases of the Coronary Arteries and Augina Pertoris (24)  49. 1,949  1,278  71. 03. 12. 29  11. 2 6  12. 05  12. 06  12. 07. 07  13. 16. 6  11. 15  14. 16. 06  11. 15  11. 16. 07  11. 16. 07  11. 16. 07  11. 16. 07  11. 16. 07  11. 16. 07  11. 16. 07  11. 16. 07  11. 16. 07  11. 17  12. 11. 18  13. 3. 3. 202  14. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	30. Avitammoses (20)					8					
and other Diseases of the Blood and Blood-making Organs (20) 72, 74-76 63 35 31 29 12 6	32. Leucamias. Pseudoleucamias.	/3	37	2,5	1~		, ,	7		• • •	\
33. Alcoholism (neute or chronic) (19) 34. Other Chronic Poisonings (20) 35. Meningitis (Non-meninacoccal) (21) 36. Discusses of the Spinal Cord (21) 37. Intra-cranial Lesions of Vascular Origin (22) 38. Mental Diseases and Deficiency (23) 39. Mental Diseases and Deficiency (23) 40. Other Diseases of the Nervous System (23) 41. Diseases of the Eye, Ear and their Annexa (23) 42. Perfectfilise (24) 43. Chronic Affections of the Valves and Endocardium (24) 44. Diseases of the Myocardium (24) 45. Diseases of the Coronary Arteries and Augina Pertoris (24) 94. 1,949 1,949 1,278 712 411 266 135 1 9 4,761	and other Diseases of the Blood				1	İ					Į
34. Other Chronic Poisonings (20) . 78, 79		72, 74-76		35			12	6	1 1		
35. Meningitis (Non-meningococcal) (21)		77				5					
(21) 36. Diseases of the Spinal Cord (21)	34. Other Chronic Poisonings (20)	78, 79	3	5	2		[	• •	••	• • •	10
36. Diseases of the Spinal Cord (21)	35. Meninguas (Non-meningococcai)	81	2.7	7	16	6	1 11	5			27
37. Intra-cranial Lesions of Vascular Origin (22)	36. Diseases of the Spinal Cord (21)					,			, ,		
Origin (22)	37. Intra-cranial Lesions of Vascular		, ,	·		1					l
(23) 30. Epilepsy (23) 40. Other Diseases of the Nervous System (23) 41. Diseases of the Eye, Ear and their Annexa (23) 42. Perfearditist (24) 43. Chronic Affections of the Valves and Endocardium (24) 44. Diseases of the Myocardium (24) 45. Diseases of the Coronary Arteries and Aurina Perctoris (24)  90	Origin (22)	83	1.314	842	130	307	192	111	3	3	3,202
30. Epilepsy (23) 40. Other Diseases of the Nervous System (23) 41. Diseases of the Eye, Ear and their Annexa (23) 42. Pericarditis (24) 43. Chronic Affections of the Valves and Endocardium (24) 44. Diseases of the Mycoardium (24) 45. Diseases of the Coronary Arteries and Augina Pectoris (24) 46. Diseases of the Coronary Arteries and Augina Pectoris (24) 47. Diseases of the Coronary Arteries and Augina Pectoris (24) 48. Diseases of the Coronary Arteries and Augina Pectoris (24) 49. The Coronary Arteries and Augina Pectoris (24) 40. Diseases of the Coronary Arteries and Augina Pectoris (24) 41. Diseases of the Coronary Arteries and Augina Pectoris (24) 42. Particular (24) 43. Diseases of the Mycoardium (24) 44. Diseases of the Coronary Arteries and Augina Pectoris (24) 45. Diseases of the Coronary Arteries and Augina Pectoris (24) 46. Diseases of the Coronary Arteries and Augina Pectoris (24) 47. Diseases of the Coronary Arteries and Augina Pectoris (24) 48. Diseases of the Coronary Arteries and Augina Pectoris (24) 49. The Coronary Arteries and Augina Pectoris (24) 49. The Coronary Arteries and Augina Pectoris (24) 40. The Coronary Arteries and Augina Pectoris (24) 41. Diseases of the Coronary Arteries and Augina Pectoris (24) 41. Diseases of the Coronary Arteries and Augina Pectoris (24) 41. Diseases of the Coronary Arteries and Augina Pectoris (24) 41. Diseases of the Coronary Arteries and Coronary Arteri		۱ .				1 ,	,	•			65
40. Other Diseases of the Nervous System (23)  41. Diseases of the Eye, Ear and their Annexa (23)  42. Perfearditist (24)  43. Chronic Affections of the Valves and Endocardium (24)  44. Diseases of the Myocardium (24)  45. Diseases of the Coronary Arteries and Aurina Pertoris (24)  46. Diseases of the Oronary Arteries and Aurina Pertoris (24)  47. Other Diseases of the Society Ear and Endocardium (24)  48. Biseases of the Myocardium (24)  49. Coronary Arteries and Aurina Pertoris (24)  41. Diseases of the Myocardium (24)  42. Diseases of the Oronary Arteries and Aurina Pertoris (24)  43. Diseases of the Oronary Arteries and Aurina Pertoris (24)  44. Diseases Ofthe Coronary Arteries and Aurina Pertoris (24)  45. Diseases Ofthe Oronary Arteries and Aurina Pertoris (24)  46. Diseases Ofthe Oronary Arteries and Aurina Pertoris (24)  47. Diseases Ofthe Oronary Arteries and Aurina Pertoris (24)  48. Diseases Ofthe Oronary Oron	20 Enilensy (22)						6	6			107
System (23)	40. Other Diseases of the Nervous	",	3,9	•	,		! [				
their Annexa (23) 88, 89	System (23)	80, 86, 87	.97	60	42	29	11	7			246
42. Perfearditis (24)	41. Diseases of the Eye, Ear and	22.0				1					
13. Chronic Affections of the Valves and Endocardium (24) 92 270 196 125 65 45 26	their Annexa (23)					1			1 1		
and Endocardium (24)	22. Chronic Affections of the Valves	1 90	( )	y	ļ .	l	2		1		-/
44. Diseases of the Myocardium (24) 93 3.034 2.076 1.040 546 484 181 2 8 7.371 45. Diseases of the Coronary Arteries and Augina Pectoris (24) 94 1.949 1.278 712 411 266 135 1 9 4.761	and Endocardium (24)	92	270	196	125	65	45	26	l İ		727
45. Diseases of the Coronary Arteries and Augina Pectoris (24) 94 1,949 1,278 712 411 266 135 1 9 4,761	44. Diseases of the Myocardium (24)									8 -	
	45. Diseases of the Coronary Arteries				i .					_	. ~c-
49. Votter Proceeds in the Heart (24) 91, 93 293 299 74 73 33 29 2 749	and Angina Pectoris (24)									9	4,701
	40. South Monada Of the Heart (24)	91, 93	293	209	/4	1 '3	33	4.0			

<sup>\*</sup> No. 17:--4-7, 11, 12, 23, 25, 26, 29, 31, 32, 36-38, 43, 44.

## A.—CAUSES OF DEATH: MALES, 1946-continued.

## INTERMEDIATE CLASSIFICATION.

. : Intermediate Classification.	General Classifi- cation Numbers.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aus.	Tas.	N.T.	A. C. T.	Aust.
						1				
47. Arteriosclerosis and Gangrene (25) 48. Other Diseases of the Circulatory	97, 98	333	254	68	78	101	29		1	867
System (25)	96, 99 103	90	60	50	19	20	12	2		253
49a. Acute Bronchitis (26a) 49b. Chronic Bronchitis (26b) 50. Pneumonia and Broncho-	106 (a)(c):	109	23 75	20 48	5 24	23 '	2 1 <b>T</b>	.:		81 290
pneumonia (27)	107-109 110	690	632 22	314 4	160 9	. 9	99 4	2	2	2,081 67
System (except Tuberculosis) (28)	104, 105, 111-114	150	136	83	.4 r	56	21			487
53. Ulcer of the Stomach and Duodenum (32b)	117	148	134	40	40	24	18	1		405
2 years of age) (29a) 55. Diarrhœa and Enteritis (2 years	119	34	43	. 27	14	5 .	I		••	12.4
and over) (29b) 56. Appendicitis (30) 57. Hernia, Intestinal Obstruction	120 121	49 85	18 50	16 39	12 14	7 13	3 5			105 206
(32a) 58. Cirrhosis of the Liver (31a) 59. Other Diseases of the Liver and	122 124	133 62	78 62	69 37	27 19	28 13	11 4	2	1	347 199
Biliary Passages, including Biliary Calculi (31b)	125-127	46	55	27	9	8 ¦	5			150
60. Other Diseases of the Digestive System (32b)	* 130–132	64   693	52 648	34 287	26 122	21 95	. 8 69			205 1,914
62. Other Diseases of the Kidneys and Ureters (34)	133	37	29	35	8	. 12 '	8		1	130
63. Calculi of the Urinary Passages (34)	134	16	20	17	3	5			ı	62
(34)	135	7	10	7	5	6	4			39
Abscess, etc. (34) 66. Diseases of the Prostate (34)	136 137	191	6 194	8 <b>8</b>	46 46	47	28		ī	596
<ul> <li>67. Diseases of the Genital Organs, not specified as Venereal (34)</li> <li>73. Diseases of the Skin and Cellular</li> </ul>	138, 139	I					• •			ī
Tissue (37) 74. Diseases of the Bones and Organs of Locomotion (except Tuber-	151-153	25	5	, 6	5	· · · ;	1		••	, 42 I
culosis and Rheumatism) (37) 75. Congential Malformations (Still-	154-156	19	8	4	2	2	3			38
births not included) (38) 76. Congenital Debility (38)	157	190 24	106	10	35 6 82	30 3	14 2 46			438 56 987
77. Premature Birth (38) 78. Injury at Birth (38) 79. Other Diseases Peculiar to the	159 160	393	208 92	180	25	73 ; 24	18	2	3	370
First Year of Life (38) 8o. Senility (39)	161	142 518	82 314	187	26 113	20 51	18 18	2		340 1,203
81. Suicide (40)	163, 164	190 24	128 8	96	39	46 4	12 1 45	1 2	···	513 53 975
<ul> <li>83. Automobile Accidents (42)</li> <li>84. Other Violent or Accidental Deaths (43)</li> </ul>	' 170   169, 171–	343	278 367	363	1 135	93 128	73	3	\ \ 3	1,754
85. Deaths due to Operations of War	. 195 196, 197									
86. Legal Executions (43) 87. Ill-defined or Unspecified (44)	198	55	29	28	35	1 -1	. 1	3		150
Total Males		16,038	11,280	6,206	3,483	.2,791	1,395	46	44	41,283

<sup>\*</sup> No. 60:--115, 116, 118, 123, 128, 129.

## B .- CAUSES OF DEATH: FEMALES, 1946.

## INTERMEDIATE CLASSIFICATION.

Intermediate Classification.	General Classifi- cation Numbers.	n.s.w.	Víc.	Q'land.	S. Aust.	W. Aus.	Tas.	N.T.	A. C. T.	Aust.
I, Typhoid and Paratyphoid	-			!	i	_	-			
Fevers (1)	I, 2		I		!					2
2, Plague (2)	3 8	• •								
3. Scarlet Fever (3)		1	1 6	.:.	2	(	• •			1
4. Whooping Cough (4)	9 10	33	9	10	6	,	٠٠.			51
6. Tuberculosis of the Respiratory	.0	-4	, ,	Ů	, ,	'	3			55
System (6)	13	269	246	88	57	47	40		1	748
7a. Tubercular Meningitis (7a)	14 (a)	19	8	I	1	1	8			33
7b. Other Forms of Tuberculosis (7b)	14(b)-22	2 I	21	2	8	2	8		,	62
8. Septicæmia, Purulent Infection (Non-puerperal) (14)	7.	8	9	1			1		1	22
9. Dysentery (14)	24	4	6	4	3	3		::	::	17
10. Malaria (8)	28			i	1					I
11. Syphilis (9)	30		29	10	4	9	1			75
12a. Influenza—Pneumonic (8a)	33 (a)	17	15	16	I	4	1		1	55
12b. Influenza—Other (8b)	33 (b)	8	7	8	3	6	2			34
13. Small-pox (11)	34 35	24		6	6	12			::	59
15. Typhus Fever (13)	39			1				::		1
16. Diseases caused by Helminths (14)	40-42	4	8	2	2		4			20
17. Other Infectious and Parasitic								1		_
Diseases (14)	1	63	40	25	9	. 17	8		• •	162
Pharynx (15)	45	23	14	! 5	5	3	2			52
19. Cancer of the Digestive Organs	l						_	٠٠.		, ,,
and Peritoneum (15)	46	74 I	668	233	156	96	60		2	1,956
20. Cancer of the Respiratory System			47	10	10	11				0
21. Cancer of the Uterus (15)	47 48	55 244	179	87	58	37	5 24	••		138 630
22. Cancer of the Breast (15)	50	316	326	115	97	50	26	::		930
23. Cancer of Other or Unspecified	}	ı	ł		1			1 '' 1		
Organs (15)	49, 51-55	314	. 263	95	77	55	26	1	I	832
24. Non-malignant Tumours or Tumours of Unspecified Nature	ļ	1	•		į			1		
(16)	56, 57	85	67	48	18	22		1		244
25. Acute Rheumatic Fever (20)	58	35	4	18	7	3	6	::	i	64
26. Chronic Rheumatism and Gout	-			1		1		1		
(17)	59, 60	29	50	17	14	8	5			123
27. Diabetes Mellitus (18)	61	335	290	117	94	50.	21	I		908
Parathyroid Glands (20)	63	56	45	21	13	10	11			156
29. Other General Diseases (20)	62, 64-66	15	18	6	8	4	5			56
30. Avitaminoses (20)	67-71	i	i							
31. Anæmias (20)	73	62	51	1 19	14	8	11	1	I	166
32. Leucæmias, Pseudoleucæmias, and other Diseases of the Blood	į	İ	1	İ	j				ĺ	
and Blood-making Organs (20)	72, 74-76	67	42	28	14	11	4			166
33. Alcoholism (acute or chronic) (19)	77	4	3	6	3	2				18
34. Other Chronic Poisonings (20)	78, 79		1	2						3
35. Meningitis (Non-meningococcal)	8r	14	14	11	1 .	_	1	1	1	
36. Diseases of the Spinal Cord (21)	82	32	18	9	11	7	1	::	::	51 75
37. Intra-cranial Lesions of Vascular	1	]		, ,	1	1 7	-			/3
Origin (22)	83	1,634	1,296	496	444	205	134	2	6	4,217
38. Mental Diseases and Deficiency			8	8				1	1	
(23)	84 85	17	16	111	5	3	I	1		41 78
40. Other Diseases of the Nervous	03	43	1	**	,	1	2		• • •	/"
System (23)	80, 86, 87	84	54	1 24	21	6	7	1	1	197
41. Diseases of the Eye, Ear and their		İ	1	1	1 -			Ì		
Annexa (23)	88, 89	9	5 6	3	6	I	• • • _			24
42. Pericarditis (24) 43. Chronic Affections of the Valves	90	1	, ,	2			I			10
and Endocardium (24)	92	243	207	82	72	28	27		1	660
44. Diseases of the Myocardium (24)	93	2,426	1,855	829	495	307	133	::	6	6,051
45. Diseases of the Coronary Arteries		06.	201	1				}	l	
and Angina Pectoris (24) 46. Other Diseases of the Heart (24)	94	865 172	686 167	259 58	217	111	76 22			2,214 485
47. Arteriosclerosis and Gangrene (25)	91, 95 97, 98	224	266	54	65	71	38	::		718
48. Other Diseases of the Circulatory		1	(	Į		, ,	1			1 /
Sv*tem (25)	96, 99-103	81	62	46	15	35	18			257
			·				·	·	·	<del></del>

<sup>\*</sup> No. 17:-4-7, 11, 12, 23, 25, 26, 29, 31, 32, 36-38, 43, 44.

# B.—CAUSES OF DEATH: FEMALES, 1946—continued.

## Intermediate Classification.

(Figures in parenthesis indicate the abringed classification number in each instance.)												
Intermediate Classification.	General Classifi- cation Numbers.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aus.	Tas.	N.T.	A. C. T.	Aust.		
49a. Acute Bronchitis (26a)	106 (a) (c)	25	. 8	12	2	3	ſ	i l		61		
49b. Chronic Bronchitis (26b)	106 (b) (d)	35 53	65	31	20	6	10	::		185		
50. Pneumonia and Broncho-Pneu-	100 (0) (0)	33	-5	, ,,		- 1		ĺ				
monia (27)	107-109	564	614	206	128	139	67	}	I	1,719		
51. Pleurisy (28)	110	18	. 8	8	2	3 ,		2.		39		
52. Other Diseases of the Respiratory	j				i							
System (except Tuberculosis)		1			!							
(28)	104, 105,	124	96	66	61	23	21	1		392		
*** - :	111-114	]		İ	}	· •		] }				
53. Uleer of the Stomach and		48	1 22	17	6	01	2	[		116		
Duodenum (32b) 54. Diarrhœa and Enteritis (under	117	40	33	1 1/		1 1	~		• •			
2 years of age) (29a)	119	32	29	18	ا 6	4	1	i		9C		
55. Diarrhœa and Enteritis (2 years	1	, ,,	-,							,		
and over) (29b)	120	31	28	16	10	12	7			104		
56. Appendicitis (30)	121	53	36	23	' 9	10	1			132		
57. Hernia, Intestinal Obstruction		ĺ	1					l i		0		
(32a)	122	133	101	33	27	20	14		• •	328		
58. Cirrhosis of the Liver (31a)	124	32	32	8	i 6	٠ ، ١	5		• • •	89		
59. Other Diseases of the Liver and Biliary Passagn including	İ	1	!	!	!	.						
Biliary Passago including Biliary Calculi (31b)	125-127	99	97	43	17	22	12	۱ ا		290		
60. Other Diseases of the Digestive	125-127	99	, 97	1 73	, -,	,		''		-3-		
Systems (32b)	•	50	47	29	14	111	14	١ ١		165		
61. Nephritis (33)	130-132	542	653	228	86	75	63	!	2	1,640		
62. Other Diseases of the Kidneys		1	,	;		. !						
and Ureters (34)	133	32	31	23	. 6	10	5	••	2	109		
63. Calculi of the Urinary Pas-			i _	11	]	2				30		
sages (34)	134	10	, 7	! 11	1	- 1	• •		• • •	30		
64. Diseases of the Urinary Bladder (34)	135	1	. 7	6	١	: r !	1	l l	r	17		
65. Diseases of the Urethra, Urinary	-33		,		1			'		,		
Abscess, &c. (34)	136					}						
67. Diseases of the Genital Organs not specified as Venereal or	-	1		ı	į.	. i		1				
not specified as Venereal or				!	!	i '						
connected with Pregnancy, &c.			1	۱ .				li		83		
(34)	138, 139	33	21	7	14	5	3	• • •	••	0,5		
68. Diseases and Accidents of Pregnancy (36)	142-145	28	17	24	6	١٩	6			90		
69. Abortion, without mention of	144 143	••	-/		1	1		1 1		,		
Infection (36)	141	5	5		2	2	I			15		
70. Abortion, with mention of				1		i						
Infection (35a)	140	11	13	7	4	3 1	3		• •	41		
71. Infection during Child-birth and	ì '	١			6		1	1		56		
the Puerperium (35b)	147	19	18	9	1	3	•		• •	30		
72. Other Accidents and Diseases of	146,		[									
Child-birth and the Puerperium (36)	148-150	48	19	21	19	9	7		2	125		
73. Diseases of the Skin and	140 130	, ,,	7		-7	· '	•					
Cellular Tissue (37)	151-153	23	3	2	7	2	5		• •	42		
74. Diseases of the Bones and		_				!		ĺĺ	ĺ			
Organs of Locomotion (except					1	1		1				
Tuberculosis and Rheumatism)	ا میں بہتا		_	٠.	_	1	2					
(37) (Still	154-156	16	5	4	3	*	2			31		
75. Congenital Malformations (Still-	T57	163	99	62	25	38	11			398		
births not included) (38) 76. Congenital Debility (38)	157	19	16	5	-6	6	ī					
77. Premature Birth (38)	159	286	183	133	68	61 l	35		2	53 768		
78. Injury at Birth (38)	160	88	69	39	19	12	II	T.	τ	240		
79. Other threases pecunar we the		_				_	_					
First Year of Life (38)	161	80	73	37	25	9	7	•••		231		
80. Senility (39)	162	539	392	164	148	71	38		3	1,355		
81. Suicide (40)	163, 164	89	57	31 13	19	12	11	::		219 37		
82. Homicide (41) 83. Automobile Accidents (42)	165-168 170	13 99	69	33	9	13		::		231		
84. Other Violent or Accidental	1 2,0	99	,	33		_						
Deaths (43)	169,	357	179	160	90	68	35	3		852		
	171-195					1		! !	- 1			
85. Deaths due to Operations of War					. 1	i						
(43)	196, 197	• • •	• • •		• • •	· · · i	• • •			• •		
86. Legal Executions (43)	198	25	16	23	12				· ·	78		
87. Ill-defined or Unspecified (44)	199, 200						1					
Total Females	!	12,541	10,254	4,442	2,978	1,962	1,154	9	38	33,378		
2000 2000000									لــــــــــــــــــــــــــــــــــــــ			

<sup>\*</sup> No. 60 :—115, 116, 118, 123, 128, 129.

#### C .- CAUSES OF DEATH: PERSONS, 1946.

Intermediate Classification. (Figures in parenthesis indicate the abridged classification number in each instance.) General Classifi-Intermediate Classification. N.S.W. Vic. Q'land. S. Aust. W. Aus. Aust. cation Numbers. r. Typhoid Fevers (1) and Paratyphoid Plague (2) Plague (2)
Scarlet Pever (3)
Whooping Cough (4)
Diphtheria (5)
Tuberculosis of the Respiratory
System (6)
Tubercular Meningitis (7a) ٠. 57 8 ٠. ιó 2,200 14 (a) бо 7b. Other Forms of Tuberculosis (7b)
8. Septicæmia, Purulent Infection
(Non-puerperal) (14) 14(0)-22 ٠. 2.4 6 9. Dysentery (14) 10. Malaria (8) . . ... 28 i Q 11. Syphilis (9) ... 12a. Influenza (Pneumonic) (8a) 12b. Influenza (Other) (8b) 33 (a) 33 (b) 18 6 ٠. Small-pox (11) 13. . . 14. Measles (12)
15. Typhus Fever (13)
16. Diseases caused by Helminths (14)
17. Diseases caused by Helminths (14)
18. Diseases caused by Helminths (14)
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19. Diseases (1 ٠. ż -42 . . Other Infectious and Parasitic 17. Other Intercools and Parasitic
Diseases (14)
Cancer of the Buccal Cavity
and Pharynx (15)
Cancer of the Digestive Organs
and Peritoneum (15) Q 1,699 1,425 4,516 Cancer of the Respiratory System (15)87 Cancer of the Uterus (15) Cancer of the Breast (15) 22. 23. Cancer of other or unspecified
Organs (15)
24. Non-malignant Tumours or 49, 51-55 I 2,103 Tumours of Unspecified Nature (16) 56, 5**7** 58 21 . . Acute Rheumatic Fever (20) 26. Chronic Rheumatism and Gout 59, 60 I Diabetes Mellitus (18) 27. Diabetes Mellitus (18)
28. Diseases of the Thyroid and Parathyroid Glands (20) бı 1,396 28 Other General Diseases (20) 162, 64-66 30. Avitaminoses (20) 67-71 73 Anæmias (20) Leucæmias, . . Pseudoleucæmias. 32. and other Diseases of the Blood and Blood-making Organs (20)
33. Alcoholism (acute or chronic) (19)
34. Other Chronic Poisonings (20)
35. Meningitis (Non-meningococcal) 72, 74-76 16 8 2 . . 78, 79 . . (21) 36. Diseases of the Spinal Cord (21)... 37. Intra-cranial Lesions of Vascular Origin (22) 2,948 2,138 7,419 38. Mental Diseases and Deficiency (23) Epilepsy (23).
Other Diseases of the Nervous . . 80, 86, 87 18 t 66 . Diseases of the Eye, Ear and their Annexa (23)
 Pericarditis (24)
 Chronic Affections of the Valves and Endocardium (24)
 Diseases of the Myocardium (24)
 Diseases of the Coronary Arteries and Angina Pectoris (24)
 Other Diseases of the Heart (24)
 Atteriosclerosis and Gangrene (24)
 Atteriosclerosis and Gangrene (24) 88, 89 ഹ . . . . 1,387 1,869 5.460 3,931 I.04I 79 I 13,422 1,964 2,814 6,975 91, 95 97, 98 67 1,201 Arteriosclerosis and Gangrene (25) 1,585 48. Other Diseases of the Circulatory

 96, 99–103

106 (a)(c)

System (25)

49a. Acute Bronchitis (26a)

<sup>•</sup> No. 17:-4-7, 11, 12, 23, 25, 26, 29, 31, 32, 36-38, 43, 44.

## C .- CAUSES OF DEATH: PERSONS, 1946-continued. '

#### INTERMEDIATE CLASSIFICATION.

Intermediate Classification.	General Classifi- cation Numbers	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aus.	Tas.	N.T.	A. C. T.	Aust,
49b. ('hronic Bronchitis (26b) 50. Pneumonia and Broncho-Pneu-	106 (b) (d)	162	140	79	44	29	21		• • • • • • • • • • • • • • • • • • • •	475
monia (27)	107-109	1,254	1,246	520	288	321	166	2	3	3,800
51. Pleurisy (28)	. 110	37	30	12	i II	::	4		٠.٠	106
52. Other Diseases of the Respiratory System (except Tuberculosis) (28)	104, 105,	274	232	149	102	79	42	1		870
53. Ulcer of the Stomach and Duodenum (32b)	117	196	167	57	46	34	42	1		879 521
54. Diarrhœa and Enteritis (under 2 years of age) (29a)	119	66	72	45	20	9	2			214
55. Diarrhœa and Enteritis (2 years and over) (29b)	120	, 80	46	32	22	10	10		·· ··	209
56. Appendicitis (30)	121	138	86	62	23	23	6		• • • • • • • • • • • • • • • • • • • •	338
(32a)	122	266	179	102	54	48	25		1	675
58. Cirrhosis of the Liver (31a) 59. Other Diseases of the Liver and	124	94	94	45	25	19	9	2	• •	288
Biliary Passages including Biliary Calculi (31b) 60. Other Diseases of the Digestive	125-127	145	152	70	26	30	17		••	440
System (32b) 61. Nephritis (33)	* 130-132	114 1,235	99 1,301	63 515	40 208	32 170	22 132	::		370 3,563
62. Other Diseases of the Kidneys and Ureters (34)	133	69	60	58	14	22	13		3	239
63. Calculi of the Urinary Passages	134	26	27	28	3	7			I	92
<ul> <li>64. Diseases of the Urinary Bladder</li> <li>(34)</li> <li>65. Diseases of the Urethra, Urinary</li> </ul>	135	8	17	13	5	7	5		ı	56
Abscess, etc. (34)	136	8	6	4	2	1		ا ا		21
66. Diseases of the Prostate (34) 67. Diseases of the Genital Organs not	137	191	194	88	46	47	28	I	ī	596
* specified as Venereal or con- nected with Pregnancy, etc. (34) 68. Diseases and Accidents of	138, 139	34	21	7	14	5	3			84
Pregnancy (36)	142-145	28	17	24	6	. 9	6	•	••	90
Infection (36)	141	5	5	•••	2	2	I		• •	15
71. Infection during Child-birth and	140		13	7	4	3	3		• •	41
the Puerperium (35) 72. Other Accidents and Diseases of	147	19	18	9	6	3	I		••	56
Child-birth and the Puerperium (36)	146, 148–150	48	19	21	19	9	7		2	125
Tissue (37)	151-153	48	8	8	12	2	6			84
of Locomotion (except Tuber- culosis and Rheumatism) (37)	154-156	. 35	13	8	5	3	5			69
75. Congenital Malformations (Still- births not included) (38)	157	353	205	123	60	68	25	1	1	836
76. Congenital Debility (38)	158	43	27	15	12	9	3			109
77. Premature Birth (38)	159	679	391	313	150	134	81	2	5	1,755
78. Injury at Birth (38) 79. Other Diseases peculiar to the	160	245	161	93 88	44 51	36   29	29	1	I	610
First Year of Life (38) 80. Senility (39)	162	1,057	706	351	261	122	25 56	2	3	2,558
81. Sulcide (40)	163, 164	279	185	127	58	58	23	2		732
82. Homicide (41)	165-168	37	12	23	.8	8	1	1	• •	90
83. Automobile Accidents (42) 84. Other Violent or Accidental	170	442	347	170	84	106	53	3	1	1,206
Deaths (43)	169. 171–195	1,031	506	523	225	196	108	14	3	2,606
85. Deaths due to Operations of War (43)	196-197									
86. Legal Executions (43)	198	8o	45	51	47	:: 1	I	3	· ·	228
87. Ill-defined or Unspecified (44)	199, 200	1						<del></del> -		

<sup>\*</sup> No. 60 :-- 115, 116, 118, 123, 128, 129.

### MORTALITY.

#### D.—CAUSES OF DEATH: PERSONS, AUSTRALIA.

#### ABRIDGED CLASSIFICATION.

Abridged Classification.	General Classifi- cation Numbers.	1942.	1943.	1944.	1945.	1946.	Rate per 1,000,000 Population
1. Typhoid and Paratyphoid Fevers	I, 2	26	46	18	11	9	1
2. Plague	3	**			• •		
3. Scarlet Fever	8	22 187	52	27 61	11	7	1 10
4. Whooping Cough	10	240	203 277	181	84 183	74 119	16
6. Tuberculosis of the Respiratory System	13	2,564	2,272	2,165	2,186	2,200	295
7a. Tubercular Meningitis	14 (a)	76	82	64	65	60	8
7b. Other Tuberculous Diseases	146-22	178	186	158	162	133	18
8. Malaria	28	14	21	8	10	9	1
g. Syphilis	30 33 (a)	400 355	444 249	398	334	344 120	46 16
rob. Influenza—Other	33 (b)	201	192	108	93 60	91	10
ri. Small-pox	34						**
36	35	245	107	11	25	109	15
	39	6	12	11	14	8	1
14. Other Infective and Parasitic Diseases	1	892	742	544	484	552	74
15. Cancer and other Malignant Tumours 16. Non-malignant Tumours or Tumours of Un-	45-55	8,491	8,870	8,571	8,937	9,118	1,221
determined Nature	56, 57	39 <i>7</i>	456	461	421	457	61
7. Chronic Rheumatism and Gout	50, 60	188	163	143	162	182	24
8. Diabetes Mellitus	61	1,444	1,504	1,294	1,306	1,396	187
rg. Chronic or Acute Alcoholism	77	88	67	75	65	109	15
20. Other General Diseases	• {	1,054	1,065	1,047	1,035	1,030	138
21. Non-meningococcal Meningitis and diseases of the Spinal Cord	81, 82	438	421	275	225	272	
22. Intra-cranial Lesions of Vascular Origin	83	6,750	6,721	375 6,755	335 7,071	313 7,419	42 993
3. Other Diseases of the Nervous System and	۱ ،	0,730	0,,,,,	9,733	/,0/1	7,4-9	993
Sense Organs	80, 84-89	862	914	807	813	794	106
4. Diseases of the Heart	90-95	21,002	21,237	20,411	21,441	23.022	3,082
25. Other Diseases of the Circulatory System	96-103	2,022	1,974	1,958	1,907	2,095	281
	106 (a)(r)	216 556	178 545	150 464	147 474	142 475	19 64
7. Pneumonia and Broncho-pneumonia	107-109	4,473	4,270	3,596	3,381	3,800	509
8. Other Diseases of the Respiratory System	*	1,069	950	966	951	985	132
29a. Diarrhea and Enteritis (under two years	i	, ,					
, of age)	119	44 I	395	292	234	214	29
egb. Diarrhœa and Enteritis (two years and over)	120	250		251	266	200	28
over)	120	359 448	370 384	380	315	338	45
ia. Cirrhosis of the Liver	124	298	297	256	233	288	39
nb. Other Diseases of the Liver and Biliary			- 1		-33		33
Calculi	125~127	447	483	433	462	440	59
22a. Hernia, Intestinal Obstruction	122	645	641	706	648	675	90
- 371-midda	T20-T22	1,035	1,019	959	865	108	119
33. Nephrons 34. Other Diseases of the Genito-urinary System	130-132 133-139	3,893 1,351	3,913 1,269	3,495 1,143	3,450 1,059	3,563 1,088	477 146
35a. Post-abortive Sepsis	140	99	1,200	1,143	52	1,000	146
35b. Puerperal Infection	147	9ó	94	68	50	56	2
6. Other Diseases of Pregnancy, Child-birth and	_	-			_	_	
the Puerperium	141-146,	302	289	288	244	230	31
37. Diseases of the Skin, Bones, etc	148-150	247	242	229	,,,	***	20
88. Congenital Debility, Malformations, Prema-	131-120	241	247	229	154	153	20
ture Birth, etc.	157-161	3,604	3,732	3,564	3,587	3,881	520
gg. Senility	162	2,899	2,888	2,493	2,546	2,558	342
o. Suicide	163, 164	594	516	540	567	732	98
11. Homicide	165-168	95	75	106	77	90	12
- O41 4 1 d 4 - 1 171 -1 4 13 - 41	170	961	763	751	754	1,206 2,608	161
3. Other Accidental or Violent Deaths	169,	2,651	2,522	2,438	2,296	2,000	349
4. Unstated or Ill-defined Causes	199, 200	282	255	224	195	228	32
Total		.75,191	74,486	69,596	70,231	74,661	9,997

<sup>•</sup> No. 14:—4-7, 11, 12, 23-27, 29, 31, 32, 36-38, 40-44; No. 20:—58, 62-76, 78, 79; No. 28:—104, 105, 110-114; No. 32b:—115-118, 123, 128, 129.

NOTE.—All causes of death have been classified in accordance with the 1938 revision of the International List.

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

#### ABRIDGED CLASSIFICATION.

Abridged Classification.	General Classifi- cation	Num	ber of De	aths.	ths. Average Rate per 1,000,000 of Population.			
	Numbers.	1931-35.	1936-40.	194145.	1931–35.	1936–40.	1941-45	
. Typhoid and Paratyphoid Fevers	1, 2	379	231	116	12	7	- 3	
. Plague	3	• •						
Scarlet Fever	8	331	180 927	137 766	36	5 27	21	
. Whooping Cough	9	2,083	1,605	1,186	63	47	33	
. Diphtheria . Tuberculosis of the Respiratory System	13	13,221	12,194		400	354	323	
a. Tubercular Meningitis	14 (a)	618	453	351	19	13	10	
b. Other Tuberculous Diseases	14 (b)-22	1,016	883	864	31	26	24	
. Malaria	28	97	58	58	3 48	2 53	2	
Syphilis	30	1,600 2,859	1,828	2,006	86	53 55	55 27	
b. Influenza—Pneumonic	33 (a) 33 (b)	1,326	819	717	40	24	20	
6. Influenza—Other	34	1,325	1	1 , 7 ,				
. Measics	35	391	390	407	12	11	11	
. Typhus Fever	39	15	30	50	1 0-	1	1	
. Other Infective and Parasitic Diseases ,		2,649	2,577	3,387	80	75	94 1,198	
. Cancer and other Malignant Tumours	45-55	34,825	39,477	43,347	1,053	1,145	1,190	
Non-malignant Tumours or Tumours of Undetermined Nature	56, 57	1,817	2,188	2,152	55	63	59	
. Chronic Rheumatism and Gout	59, 60	847	835	814	26	24	23	
Diabetes Mellitus	61	5,095	5,953	6,934	154	173	192	
. Chronic or Acute Alcoholism	77	235	331	390	7	10	11	
Other General Diseases	*	5,437	5,792	5,313	164	168	147	
. Non-meningococcal Meningitis and Diseases	0- 0-			1,958	42	51	5.4	
of the Spinal Cord	81, 82 83	1,371	26 128	33.574	676	758	928	
Other Diseases of the Nervous System and	03	22,395	20,230	33,374	-,	,,,,	,-	
Sense Organs	80, 84-89	4,600	4,127	4,195	139	120	116	
. Diseases of the Heart	90-95	60,227	78,670	103,176	1,817	2,282	2,852	
. Other Diseases of the Circulatory System	96-103	7,380	10,182	9,643	223	295	267	
a. Acute Bronchitis	106 (a) (c)	1,078	921		33	27	25 21	
b. Chronic Bronchitis	106 (b) (d)	2,966	2,662	060	90 608	77 613	549	
. Pneumonia and Broncho-pneumonia	107-109	20,157 5,045	5,021	5,004	152	146	138	
a. Diarrhea and Enteritis (under two years		!	:	3,004	-5-			
of age)	119	2,043	1,855	1,752	62	54	`48	
b. Diarrhea and Enteritis (two years and	-	1 7				_		
over)	120	1,922	1,598		58 81	46	42	
Appendicitis	121	2,680	2,641	1.974	40	77 44	55 39	
a. Cirrhosis of the Liver	124	1,321	1,501	1,415	40	44	37	
b. Other Diseases of the Liver and Biliary Calculi	125-127	2,326	2,388	2,275	70	69	63	
a. Hernia, Intestinal Obstruction	122	2,792	2,911	3,241	84	84	90	
b. Other Diseases of the Digestive System	•	4,404	4,896	4,955	133	142	137	
Nephritis	130-132	17,754	19,206	18,634	536	557	515	
. Other Diseases of the Genito-urinary System	133-139	5,388	6,056	6,055	163	176	167	
a. Post-abortive Sepsis	140	761	753	452	23 I4	11	11	
b. Puerperal Infection Other Diseases of Pregnancy, Child-birth and	147	466	393	393				
the Puerperium	141-146,	1,833	1,671	1,416	56	48	30	
via a dorph rittin	148-150	-,-,5	!		i	_		
Diseases of the Skin, Bones, etc	151-156	1,696	1,669	1,144	51	48	32	
Congenital Debility. Malformation, Prema-	_	!	.60	79 000		470	505	
ture Birth, etc	157–161 162	15,909	16,498	18,290	481 424	478 300	368	
Sensity	162 163, 164	3.988	3,780	2,841	121	110	79	
Homicide	165-168	530	459	413	16	13	11	
. Automobile Accidents	170	4,372	6,862	4,384	132	199	121	
. Other Accidental or Violent Deaths	169,	11,267	12,998	12,475	340	377	345	
	171-198	1					33	
. Unstated or Ill-defined Causes	199, 200	1,542	1,224	1,184	46	35	33	
•	<del>-</del>					9,641	ļ·	
			332,410	360,680	9,011		9,970	

<sup>•</sup> No. 14:-4-7, 11, 12, 23-27, 29, 31, 32, 36-38, 40-44; No. 20:-58, 62-76, 78, 79; No. 28:-104, 105, 110-114. No. 32b:-115-118, 123, 128, 129.

NOTE.—All causes of death have been classified in accordance with the 1938 revision of the International List.

- 16. Deaths from Principal Specific Causes.—(i) General. In the preceding tables particulars have been given for each of the causes of death comprising the Intermediate and the Abridged Classifications. The more important of these causes are treated in detail hereunder. The Intermediate Classification number is indicated in parenthesis for each cause or group of causes.
- (ii) All Forms of Tuberculosis (6, 7).—(a) General. The total number of deaths in 1946 was 2,393, consisting of 1,550 males and 843 females.
- (b) Age at Death. The following table shows the age-groups of males, females and persons who died from this disease in 1946, together with comparable figures for 1921, 1931 and 1941.

				!	1931.		: 	1941.		,	1946.		
Age-grou (Years).		Males.	Fe- males.	Per- sons.	Males.	Fe- males.	Per- sons.	Males.	Fe- males.	Per-	Males.	Fe- males.	Per- sons.
Under 5		90	76	166	57	47	104	42	28	70	32 8	37	69
5-9	٠.	30	28	58	14	14	28	12	10	22		6	14
10-14		23	24	47	19	20	39	9	16	25	8	5	13
15-19	• •	72	100	172	45	105	150	30	52	82	22	39	61
20-24		173	194	367	113	183	296	69	791	160	46	81	127
25-29		232	246	478	136	164	335	63	1'32	195	44	116	160
30-34	• •	237	195	432	191		355	125	129	254	93	110	203
35-39		247	178	425		156 102	343	144	111	255	103	90	193
40-44	• •	234	141	375	207	83	309 280	159	79	238		67	195
45-49	• •	223	69	325	197	62		. 216	76	256 280	155	64	219
50-54	••	179	65	248	164	57	247	210	64 52	262		59	246
55-59 60-64		118		237 160	128	50	178	187		245	199	37	236
65-69	• •	79	4 <sup>2</sup> 3 <sup>2</sup>	111	110	38	148	137	59 39	176	151	41	239
70-74		35	10	45	52	31	83	74	39 41	115		42 20	193
75-79	••	18	7	25	27	16	43	48	18	66	93 54	14	68
80 and over	••	6	7	13	4	4	43	20	12	32	20	15	44
Unspecified	•••	3	, ,	3	,	1 ' 4				_	1 1	- 1	
Ousperincu	••	3	• • •	3	• • •	٠٠.	• •			• • •		• • •	••
Total		2,171	1,516	3,687	1,836	1,331	3,167	1,725	1,009	2,734	1,550	843	2,393

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

- (c) Occupation at Death, Males. A summary of the main groups of occupations of males who died from tuberculosis during 1946 is given in Demography Bulletin, No. 64.
- (d) Length of Residence in Australia. The length of residence in Australia of persons who died from tuberculosis in 1946 is given in the next table. Corresponding figures for 1945 may be obtained from Demography Bulletin, No. 63.

LENGTH OF RESIDENCE IN AUSTRALIA OF PERSONS WHO DIED FROM TUBERCULOSIS (ALL FORMS), 1946.

	Residence stralia.	in	Male.	Fem.	Total.	Length of Residence in Australia.	Male.	Fem.	Total.
Born in Austr Resident und ,, 1 ye ,, 2 ye	er i year ear		1,216 1 	760  	1,976 1	Resident 10-14 years ,, 15-19 ,, ,, 20 years & over Length of residence not stated	6 17 232 70	3 15 50 13	9 32 282 83
	years	::	2 4	2	6	Total Deaths	1,550	843	2,393

(e) Death-rates. In order to show the relative incidence of tuberculosis in each State and Territory and the improvement which has taken place in recent years the death-rates from tubercular diseases for 1931, 1941 and 1946 are given in the following table. Corresponding figures for 1945 may be obtained from Demography Bulletin, No.63.

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

		1931.			1941.			1946.	
State or Territory.	Males.	Females.	Persons.	Males.	Females.	Persons.	Males.	Females.	Persons
New South Wales	53	37	45	47	24	36	40	21	31
Victoria Queensland	59	51 28	55	54 40	37 20	45 30	44 41	27	35 30
South Australia	45 58	56	37 57	40	34	37	37	17 21	29
Western Australia	74	40	58	60	25	44	48	21	35
Tasmania	61	51	56	48	44	46	53	42	48
Northern Territory	69		44	27	35	29	25		19
Australian Capital Territory	21	25	23		15	7	28	13	21
Australia	55	42	49	48	29	38	42	23	33

<sup>(</sup>a) Number of deaths from tuberculosis per 100,000 of mean population.

(f) Proportion of Total Deaths. The following table shows the number of deaths from tuberculosis per 10,000 deaths from all causes in each State and Territory during 1911-20, 1921-30, 1931-40 and 1946. Corresponding figures for 1945 may be obtained from Demography Bulletin, No. 63.

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

	:	911-20		:	1921–30		1	1931-40		1946.		
State or Territory.	Males.	Fe- males.	Per-	Males.	Fe- males.	Per-	Males.	Fe- males.	Per- sons.	Males.	Fe- males.	Per- sons.
N.S. Wales Victoria Queensland South Australia Western Australia Tasmania Northern Terr- tory Australian Capital Territory	670 718 559 757 895 646 1,441	625 754 480 889 728 757 745	651 735 529 816 835 697 1,357	599 695 516 713 869 640 1,170	536 663 406 758 643 749 685	572 680 472 733 786 691 1,115	476 485 413 498 598 537 272 217	378 448 323 482 401 548 541	434 468 377 491 523 542 314	361 387 367 333 438 473 217	246 268 205 222 250 451	311 330 300 282 360 463 182 366
Australia	691	684	688	644	594	622	482	410	450	375	253	320

(g) Death-rates, Various Countries. The following table shows the death-rates from tuberculosis for Australia and each State in comparison with the rates for various other countries. Figures for years later than 1939 are not given as they are based on population estimates whose comparability is open to doubt because of the abnormal distribution of population during war-time. The table indicates that Australia occupies a very favourable position as regards the death-rate from this disease.

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

Country.	Year.	Respiratory System.	All Forms	Country.		Year.	Respir- atory System.	All Forms.
Union of South Africa (Europeans) Australia (b) Queensland (b) New South Wales (b) South Australia (b) Western Australia b Victoria (b) Tasmania (b) New Zealand (c) U.S. of America Denmark Netherlands Canada Egypt Ceylon Great Britain and Northern Ireland England Wales	1939	27 35 29 34 35 39 40 43 37 36 44 45 55 53	33 39 30 37 38 41 45 53 40 47 47 50 53 56 (d)	Belgium		1936 1935 1938 1939 1937, 1939 1935 1936 1936 1936 1937 1937	56 62 59 73	72 73 80 95 98 103 107 113 126 128 129 142 144 152 153 210
Scotland Northern Ireland	1939	54 66	70 84		•			

<sup>(</sup>a) Number of deaths per 100,000 of mean population. (b) Excluding full-blood aboriginals. (c) Excluding Maoris. (d) Not available. (e) In towns with over 100,000 inhabitants.

- (iii) Cancer and other Malignant Tumours (18 to 23).—(a) General. The number of deaths from cancer increased continuously to 6,256 in 1929, declined slightly to 6,120 in 1930, but rose again progressively to 9,118 in 1946.
- (b) Type and Seat of Disease. Tables showing the type and seat of disease, in conjunction with age and with conjugal condition of the persons dying from cancer in 1945 and 1946, will be found in Demography Bulletin, Nos. 63 to 64. A summary regarding type and seat of disease for 1946 is given below. It may be pointed out that the significance of the number of deaths shown for the various types of cancer enumerated hereunder is doubtful, owing to the fact that, in the absence of a post-mortem, it is impracticable for the certifying doctor in the majority of cases to make an accurate diagnosis as to type in the detail required for the following classification.

DEATHS FROM CANCER: TYPE AND SEAT OF DISEASE, AUSTRALIA, 1946.

Type of Disease.	Males.	Fe- males.	Per- sons.	Seat of Discase.	Males.	Fe- males.	Persons.
Cancer Carcinoma— Carcinoma— Carcinoma Simplex Epithelioma Scirrhus Rodent Ulcer Adeno-Carcinoma Colloid Carcinoma Sarcoma— Sarcoma Myeloid Sarcoma Myeloma Glioma Adeno-Sarcoma Chloroma Endothelioma Melanoma— Melanoma Melanotic Sarcoma Melano-Carcinoma Embryonic Tumours— Hypernephroma Teratoma Malignant Disease Malignant Tumour	120 3 30 25  150  7 14 2 1	55 25 39  133 1  2  4  20  133 	543 7,513 175 28 39 64 283 I 9 29 3 I 6 45 21 I 37 2 2c9 109	Buccal Cavity and Pharynx Digestive Organs and Peritoneum— Stomach and Duodenum Rectum and Anus Colon Other Respiratory System Uterus Other Female Genital Organs Breast Breast Breast Brain and Nervous System Other or Unspecified Organs	1,128 303 360 769 464  7 489 263 180 38 301	52 691 196 403 666 138 630 278 930  134 95 30 295	330 1,819 499 763 1,435 602 630 278 937 489 397 275 68 596
Total Deaths	4,580	4,538	9,118	Total Deaths	4,580	4,538	9,118

(c) Age at Death. The ages of persons who died from cancer in 1921, 1931, 1941 and 1946 are given below. Inferences drawn from the great increase in the number of deaths from cancer in 1946 compared with 1921, need qualification in view of the altered age constitution of the population since the earlier year. The number of people reaching the older ages at which cancer risks are greatest has more than doubled in the last twenty years, and it is only in the extreme old age-groups from 75 onwards that the rate of mortality has definitely increased. For groups up to age 75 there has been no increase in mortality rates since 1921. In the higher age-groups the increase in the rate for females has been relatively greater than that in the rate for males. It is also probable that a proportion of the increased number of deaths from cancer recorded in recent years has been due to more correct diagnosis and certification on the part of medical practitioners rather than to any actual increase in the disease itself.

			1921.		[	1931.			1941.			1946.	
Age-grou (Years).		Males.	Fe- males.	Per- sons.	Males.	Fe- males.	Per- sons.	Males.	Fe- males.	Per-	Males.	Fe- males.	Per-
Under 15		26	23	49	25	23	48	21	25	46	25	19	44
15-19	• • •	8	11	19	1 12	11	23	10	10	20	1 12	10	22
20-24		6	7	13	12	14	26	15	13	28	13	17	30
25-29		15	19	34	19	13	32	24	22	46	25	23	48
30-34		26	45	71	26	55	81	28	45	73	30	57	87
35-39		56	81	137	59	98	157	56	106	162	55	113	z 68
40-44		81	140	221	111	173	284	92	193	285	92	150	242
45-49		147	207	354	149	261	410	149	282	431	200	273	473
50-54		240	263	503	261	287	548	316	403	719	310	430	740
55-59		358	308	666	349.	344	693	425	435	86o	491	526	1,017
60-64		442	349	791	519	400	919	558	491	1,049	628	584	1,212
6569		380	285	665	662	478	1,140	670	558	1,228	726	599	1,325
70-74		312	234	546	609	410	1,019	753	623	1,376	738	614	1,352
75-79		212	215	427	397	294	691	676	512	1,188	667	557	1,224
80-84		83	89	172	187	152	339	331	330	661	371	356	727
85 and over		45	52	97	87	92	179	131	175	306	197	210	407
Unspecified	• •	3	• •	3	••		• • •	•••	••	• •	• •	• •	••
Total		2 440	2 228	4.768	3 484	2 105	6 580	4 255	1 223	8 478	4 580	4.538	0.778

CANCER: DEATHS IN AGE-GROUPS, AUSTRALIA.

CANCER: DEATH-RATES. (a)

		1931.			1941.			1946.	
State or Territory.	Males.	Females.	Persons.	Males.	Females.	Persons.	Males.	Females.	Persons
					!				
New South Wales	99	95	97	116	107	ľ12	119	117	118
Victoria	111	106	109	132	145	138	135	147	141
Queensland	105	77	92	100	97	99	116	104	110
South Australia.	112	124	118	112	140	126	134	127	130
Western Australia	110	81	97	135	110	123	117	107	112
Tasmania	100	001	100	125	127	126	124	116	120
Northern Territory	69	119	87	54	35	49	50	85	58
Australian Capital			1				•	-	1
Territory	21	51	35	25	61	41	56	54	55
			_						
Australia	105	97	101	119	120	119	124	123	124

<sup>(</sup>a) Number of deaths from cancer per 100,000 of mean population.

<sup>(</sup>d) Occupation at Death, Males. A table showing main groups of occupations of males who died from cancer during 1946 appears in Demography Bulletin, No. 64.

<sup>(</sup>e) Death-rates. The following table shows the death-rates per 100,000 of mean population from cancer in each State for 1931, 1941 and 1946. The substantial increase in the death-rate since 1931 is reflected in both sexes and in all States. Corresponding figures for 1945 may be obtained from Demography Bulletin, No. 63.

<sup>(</sup>f) Proportion of Total Deaths. While the death-rate from all causes has diminished substantially in recent years, the rate from cancer has risen almost continuously, the result being that out of 10,000 deaths from all causes, 1,221 were due to cancer in 1946 compared with 735 per 10,000 total deaths during the period 1911-20. The following table shows the proportions recorded in each State and Territory for 1911-20, 1921-30, 1931-40 and 1946. Corresponding figures for 1945 may be obtained from Demography Bulletin, No. 63.

CANCER: PROPORTION PER 10,000 TOTAL DEATHS.

State or	1	1911-20	•	]	921-30	•	1	1931-40	•	1946.			
Territory.	Males.	Fe- males.	Per- sons.	Males.	Fe- males.	Per- sons.	Males.	Fe- males.	Per- sons.	Males.	Fe- males.	Poj. sons.	
N.S. Wales Victoria Queensland South Australia Western Australia Tasmania Northern Territory Australian Capital Territory	674 681 611 736 612 664 335 806	806 870 741 876 802 836 426	729 767 661 800 680 743 346	900 943 866 1,021 873 842 621 233	1,070 1,145 1,009 1,137 1,112 1,014 137	973 1,037 922 1,074 961 922 565	1,060 1,115 1,066 1,207 1,098 1,040 645	1,271 1,353 1,138 1,441 1,241 1,252 811 898	1,152 1,226 1,095 1,315 1,152 1,136 671 677	1,072 1,189 1,041 1,197 1,064 1,104 435 909	1,350 1,460 1,227 1,353 1,285 1,239 1,111	1,194 1,318 1,118 1,269 1,155 1,165 545	
Australia	667	826	735	912	1,091	990	1,089	1,292	1,178	1,109	1,359	1,221	

<sup>(</sup>g) Death-rates, Various Countries. The following table shows the death-rates from cancer for Australia and each State in comparison with the rates for various other countries. Figures for years later than 1939 are not given as they are based on population estimates whose comparability is open to doubt because of the abnormal distribution of population during war-time.

CANCER: DEATH-RATES (a). VARIOUS COUNTRIES.

Country.	Year.	Rate.	Country.	Year.	Rate.
Ceylon	1937	10	Australia—continued.		
Egypt	1936	26	Tasmania(c)	1939	114
Portugal	1939	47	South Australia(c)	1939	118
Japan	1936	48	Victoria(c)	1939	133
Greece	1936	50	New Zealand $(d)$	1939	118
Spain	1935	68	U.S. of America	1939	122
Italy	1938	86	Czechoslovakia	1936	126
France	1934	96	Eire	1939	127
Hungary	1939	96	Norway	1937	131
Finland	1936	100	Netherlands	1936	131
Poland (b)	1936	104	Sweden	1937	133
Union of South Africa			Denmark	1939	143
(Europeans)	1939	105	Germany	1935	145
Belgium	1936	110	Switzerland	1939	157
Canada	1939	110	Great Britain and	-	
Australia(c)	1939	116	Northern Ireland	1939	161
Queensland(c)	1939	100	Northern Ireland	1939	133
Western Australia(c)	1939	105	Scotland	1939	161
New South Wales(c)	1939	113	England and Wales	1939	162
	:	i	1		1

<sup>(</sup>a) Number of deaths per 100,000 of mean population. (b) In towns with over 100,000 inhabitants. (c) Excluding full-blood aboriginals. (d) Excluding Maoris.

<sup>(</sup>h) Comparison with Tuberculosis. In recent years the death-rate from tuberculosis has shown a tendency to decrease, while that from cancer has displayed an almost continuous increase. The table hereunder shows that for each of the periods under review the decline in the death-rate from tuberculosis has been accompanied by an almost equal increase in the rate for cancer. Thus in the forty-five years comprised in the five-yearly averages shown below the death-rate for tuberculosis declined by 57 while the rate of cancer increased by 57 per 100,000 persons. This equal but opposite tendency may be demonstrated by stating that the death-rate from tuberculosis and cancer combined remained almost constant in each period, the figures being:—1901-05, 152 deaths per 100,000 persons; 1906-10, 145; 1911-15, 152; 1916-20, 154; 1921-25, 153; 1926-30, 152; 1931-35, 150; 1936-40, 154; 1941-45, 152; and 1946, 157.

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

	!	Death-	rate from Tube	rculosis.	Death-rate from Cancer.				
Period.		Males.	Females.	Persons.	Males.	Females.	Persons.		
				j					
1901-05		100	77	89	64	61	63		
1906-10		81	69	75	71	70	70'		
1911-15		84	69	. 77	75 86	74	75		
1916-20	]	84	59	71	86	80	75 83		
1921-25		71	52	62	93	88	91		
1926-30		64	49	57	97	94	95		
1931-35	·	52	37	45	108	102	105		
1936-40		47	31	39	116	113	115		
1941-45	••	45	26	36	118	131	120		
1946		42	23	33	124	123	124		

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

(iv) Diseases of the Heart (42 to 46). The number of deaths in 1946 was 23,022, namely, 13,602 males and 9,420 females. Details for each individual disease of the heart may be obtained from Demography Bulletin, No. 64. The sex and territorial distribution of the deaths will be found in the table below. This class is the largest among causes of death, the death-rate having grown from 1,019 per million in 1911-15 to 2,705 in 1939-43 and 3,083 in 1946. The increase in the number of deaths recorded from heart diseases has been particularly pronounced during the past sixteen years. The rapid increase in mortality is partly a reflection of the ageing of the population, but the figures have been influenced mainly by improved diagnosis and certification by medical practitioners. Many deaths of elderly people, formerly attributed to senility or other indefinite causes, are believed to be now more frequently certified as associated with some form of heart disease, usually myocardial degeneration. The improvement in diagnosis has been particularly evident in the case of diseases of the coronary arteries. As a result of a change of classification adopted in 1931, all forms of this disease have been included since that year among heart diseases. Although deaths recorded from diseases of the coronary arteries were not numerically important in 1931, this type of disease has since become prominent in medical science, and in 1946 the number of deaths assigned to this cause was 6,609, an increase of 6,045, or over 970 per cent., since 1931. The number of deaths, death-rates and proportions per 10,000 deaths in 1946 are given in the following table. Corresponding figures for 1945 may be obtained from Demography Bulletin, No. 63.

DISEASES OF THE HEART: DEATHS, DEATH-RATES AND PROPORTION PER 10,000 TOTAL DEATHS, 1946.

State or Territory.	Num	ber of Dea	ths.	De	ath-rates.	(a)	Proportion per 10,000 Total Deaths.		
State of Territory.	Males.	Females.	Persons.	Males.	Females	ersons.	Males.	Females.	Persons.
New South Wales Victoria Queensland South Australia Western Australia Tasmania Northern Territory Australian Capital Territory	5,555 3,768 1,957 1,997 833 370 5		1,925 1,300 629 5	380 353 353 328	235 261	320 333 296 306 265 254 96	3,340 3,153 3,150 2,984 2,652	2,549 2,769 2,780 2,380 2,244	2,979
Australia	13,602	9,420	23,022	368	256	312	3,295	2,822	 3,083

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

ō

(v) Diarrhæa and Enteritis (Children under two years of age) (54). The number of deaths due to these causes was 214 in 1946, which is a substantial decrease on the eaverage of 350 for the previous five years. During 1946, 5,627 children died before reaching their second birthday, and of these 3.8 per cent., died from diarrhæa and enteritis. The ages of children dying from these diseases during the first year of life will be found on page 776.

The number of deaths under 2 years of age due to diarrhea and enteritis, the death-rates, and proportions per 10,000 deaths for 1911-15, 1921-25, 1931-35, 1936-40, 1941-45 and 1946 are given in the following table. Corresponding figures for 1945 may be obtained from *Demography Bulletin*, No. 63. Reference to the last five lines of the table will reveal the very satisfactory decrease in the number of deaths due to these diseases. In view of changed birth-rates, however, the death-rates per 100,000 of mean population are not true measures of changes in the force of mortality. A better measure would be the estimated number of children in every 1,000 born who died from these diseases before reaching their second birthday. The numbers are estimated to be as follows:—

Period-	1911-15	Males,	24.6	Females,	20.9	Total	, 22.8
**	1921-25	**	16.5	:>	13.3	,,	14.9
"	1931 <i>–</i> 35	,,	3.7	,,	2.8	,,	3.3
••	1936-40	,,	3.4	**	2.7	,,	3.0
,,	1941-45	**	2.7	,,	2.I	,,	2.4

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

St. s. on Mounitons	Number of Deaths.			De	ath-rates.	(a)	Proportion per 10,000 Total Deaths.		
State or Territory.	Males.	Females.	Total.	Malcs.	Females.	Total.	Males.	Females.	Total.
New South Wales Victoria Queensland South Australia Western Australia Tasmania Northern Territory Australian Capital Territory	34 43 27 14 5	32 29 18 6 4 1	66 72 45 20 9 2		2 3 3 2 2 1	2 4 4 1 4 3 2 I	21 38 43 40 18 7	26 28 40 20 20 9	23 33 42 31 19 8
Australia 1946	124	ļ	214	3	3	3	30	27	29
Annual Average—  1911–15 1921–25 1931–35 1936–40 1941–45	1,687 1,114, 234 212 200	175	3,041 1,973 409 371 350		59 31 5 5 4	64 35 6	569 362 70 57 51	627 366 68 54 46	593 364 69 56

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

(vi) Puerperal Causes (68 to 72). The 327 deaths in 1946 from puerperal causes correspond to a death-rate of 9.0 per 100,000 females. The rate is also equivalent to 1.85 deaths per 1,000 live births. The death-rate may be expressed in other terms by stating that 1 of every 533 women giving birth to a live child in 1946 died from puerperal causes; the corresponding ratios for married women were 1 of every 551, and for single women 1 in every 315. More detailed information will be found in a series of tables in Demography Bulletin, No. 64.

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

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

Sweden	<del></del>	<del></del>		Rates pe	r 1,000 Live Birt	hs from—
Australia (a)         1946         0.41         1.44         1.8           Victoria (a)         1946         0.47         1.07         1.5           New South Wales (a)         1946         0.31         1.34         1.6           Western Australia (a)         1946         0.25         1.90         2.1           Queensland (a)         1946         0.59         1.67         2.2           South Australia (a)         1946         0.51         1.83         2.3           Tasmania (a)         1946         0.51         1.83         2.3           Tasmania (a)         1946         0.51         1.83         2.3           Tasmania (a)         1946         0.44         2.19         2.6           Great Britain and Northern         1945         0.55         1.44         1.99           England and Wales         1945         0.50         1.35         1.8           Northern Ireland         1945         0.66         2.03         2.6           Scolland         1945         0.92         1.94         2.86           Denmark         1945         0.51         1.56         2.0           New Zealand (b)         1943         1.05	Countr	y.	Year.			All Puerperal Causes.
Victoria (a)         1946         0.47         1.07         1.5           New South Wales (a)         1946         0.31         1.34         1.6           Western Australia (a)         1946         0.25         1.90         2.1           Queensland (a)         1946         0.59         1.67         2.2           South Australia (a)         1946         0.51         1.83         2.3           Tasmania (a)         1946         0.44         2.19         2.6           Great Britain and Northern         1945         0.55         1.44         1.96           England and Wales         1945         0.50         1.35         1.8           Northern Ireland         1945         0.50         1.35         1.8           Northern Ireland         1945         0.92         1.94         2.8           Denmark         1945         0.92         1.94         2.8           Denmark         1945         0.51         1.56         2.0           New Zealand (b)         1943         1.05         1.16         2.2           Switzerland         1945         0.46         1.81         2.2           United States of America         1944         0.81						1.56
New South Wales (a)         1946         0.31         1.34         1.6           Western Australia (a)         1946         0.25         1.90         2.1           Queensland (a)         1946         0.59         1.67         2.2           South Australia (a)         1946         0.51         1.83         2.3           Tasmania (a)         1946         0.51         1.83         2.3           Tasmania (a)         1946         0.51         1.83         2.3           Great Britain and Northern         1945         0.55         1.44         1.99           England and Wales         1945         0.50         1.35         1.8           Northern Ireland         1945         0.66         2.03         2.6           Scolland         1945         0.51         1.56         2.0           New Zealand (b)         1945         0.51         1.56         2.0           New Zealand (b)         1943         1.05         1.16         2.2           Switzerland         1945         0.40         1.81         2.2           Canada         1945         0.80         1.49         2.2           Japan         1936         0.64         1.67 <th></th> <th></th> <th></th> <th></th> <th>1.44</th> <th>1.85</th>					1.44	1.85
Western Australia (a)         1946         0.25         1.90         2.1           Queensland (a)         1946         0.59         1.67         2.2           South Australia (a)         1946         0.51         1.83         2.3           Tasmania (a)         1946         0.44         2.19         2.6           Great Britain and Northern         1945         0.55         1.44         1.96           England and Wales         1945         0.50         1.35         1.8           Northern Ireland         1945         0.66         2.03         2.6           Scolland         1945         0.92         1.94         2.8           Denmark         1945         0.92         1.94         2.8           Denmark         1945         0.51         1.56         2.0           New Zealand (b)         1943         1.05         1.16         2.2           Switzerland         1945         0.46         1.81         2.2           United States of America         1944         0.81         1.47         2.2           Japan         1936         0.64         1.67         2.3           Italy         1938         0.83         1.60				0.47	1.07	1.54
Queensland (a)         1946         0.59         1.67         2.22           South Australia (a)         1946         0.51         1.83         2.3           Tasmania (a)         1946         0.44         2.19         2.6           Great Britain and Northern         1945         0.55         1.44         1.99           England and Wales         1945         0.50         1.35         1.8           Northern Ireland         1945         0.66         2.03         2.6           Scotland         1945         0.92         1.94         2.8           Denmark         1945         0.51         1.56         2.0           New Zealand (b)         1943         1.05         1.16         2.2           Switzerland         1945         0.46         1.81         2.2           United States of America         1944         0.81         1.47         2.2           Ganada         1945         0.64         1.67         2.3           Italy         1938         0.83         1.60         2.4           United States of America         1944         0.81         1.47         2.2           Japan         1936         0.64         1.67	New South Wale	s (a)	1946	0.31	1.34	1.65
South Australia (a)         1946         0.51         1.83         2.3           Tasmania (a)         1946         0.44         2.19         2.6           Great Britain and Northern         1945         0.44         2.19         2.6           Great Britain and Northern         1945         0.55         1.44         1.96           England and Wales         1945         0.50         1.35         1.8           Northern Ireland         1945         0.66         2.03         2.6           Scotland         1945         0.92         1.94         2.8           Denmark         1945         0.51         1.56         2.0           New Zealand (b)         1943         1.05         1.16         2.2           Switzerland         1945         0.46         1.81         2.2           United States of America         1944         0.81         1.47         2.2           Canada         1945         0.80         1.49         2.2           Japan         1936         0.64         1.67         2.3           Italy         1938         0.83         1.60         2.4           Union of South Africa (Europeans)         1941         0.84	Western Australi	ia (a)	1946	0.25	1.90	2.15
Tasmania (a)         1946         0.44         2.19         2.6           Great Britain and Northern         1945         0.55         1.44         1.9           Ireland.         1945         0.50         1.35         1.8           Northern Ireland         1945         0.66         2.03         2.6           Scotland         1945         0.92         1.94         2.8           Denmark         1945         0.51         1.56         2.0           New Zealand (b)         1943         1.05         1.16         2.2           Switzerland         1945         0.46         1.81         2.2           United States of America         1944         0.81         1.47         2.2           Canada         1945         0.80         1.49         2.2           Japan         1936         0.64         1.67         2.3           Italy         1938         0.83         1.60         2.4           France         1934         1.00         1.50         2.5           Norway         1937         1.18         1.65         2.3           Spain         1936         0.99         2.04         3.0           Spa	Queensland (a)		1946	0.59	1.67	2.26
Great Britain and Northern Ireland         1945         0.55         1.44         1.99           England and Wales         1945         0.50         1.35         1.8           Northern Ireland         1945         0.66         2.03         2.6           Scotland         1945         0.92         1.94         2.80           Denmark         1945         0.51         1.56         2.0           New Zealand (b)         1943         1.05         1.16         2.2           Switzerland         1945         0.46         1.81         2.2           Canada         1945         0.80         1.49         2.23           Japan         1936         0.64         1.67         2.3           Italy         1938         0.83         1.60         2.4           United States of America         1941         0.84         1.67         2.3           Italy         1938         0.83         1.60         2.4           United States of America         1941         0.84         1.65         2.4           United States of America         1936         0.64         1.67         2.3           Italy         1.00         1.50         2.5	South Australia	(a)	1946	0.51	1.83	2.34
Ireland	Tasmania (a)	•••	1946	0.44	2.19	2.63
England and Wales         1945         0.50         1.35         1.8           Northern Ireland         1945         0.66         2.03         2.6           Scotland         1945         0.92         1.94         2.86           Denmark         1945         0.51         1.56         2.0           New Zealand (b)         1945         0.46         1.81         2.2           Switzerland         1945         0.46         1.81         2.2           United States of America         1944         0.81         1.47         2.2           Canada         1945         0.80         1.49         2.2           Japan         1936         0.64         1.67         2.3           Italy         1938         0.83         1.60         2.4           Union of South Africa (Europeans)         1941         0.84         1.65         2.4           France         1934         1.00         1.50         2.5           Norway         1937         1.18         1.65         2.8           Belgium         1946         1.60         3.00         2.8           Netherlands         1935         2.00         1.40         3.4 <t< th=""><th></th><th>Northern</th><th>- '</th><th></th><th>1</th><th>_</th></t<>		Northern	- '		1	_
England and Wales         1945         0.50         1.35         1.8           Northern Ireland         1945         0.66         2.03         2.6           Scolland         1945         0.92         1.94         2.86           Denmark         1945         0.51         1.56         2.0           New Zealand (b)         1943         1.05         1.16         2.2           Switzerland         1945         0.46         1.81         2.2           United States of America         1944         0.81         1.47         2.2           Canada         1945         0.80         1.49         2.2           Japan         1936         0.64         1.67         2.3           Italy         1938         0.83         1.60         2.4           Union of South Africa (Europeans)         1941         0.84         1.65         2.4           France         1934         1.00         1.50         2.5           Norway         1937         1.18         1.65         2.8           Belgium         1946         1.60         3.00         2.8           Netherlands         1935         2.00         1.40         3.4 <t< th=""><th>Ireland</th><th></th><th>1945</th><th>0.55</th><th>1.44</th><th>1.99</th></t<>	Ireland		1945	0.55	1.44	1.99
Northern Ireland         1945         0.66         2.03         2.66           Scolland         1945         0.92         1.94         2.86           Denmark         1945         0.92         1.94         2.86           New Zealand (b)         1945         0.51         1.56         2.00           New Zealand (b)         1943         1.05         1.16         2.22           Switzerland         1945         0.46         1.81         2.22           United States of America         1944         0.81         1.47         2.23           Canada         1945         0.80         1.49         2.22           Japan         1936         0.64         1.67         2.3           Italy         1938         0.83         1.60         2.42           Union of South Africa (Europeans)         1941         0.84         1.65         2.42           France         1934         1.00         1.50         2.56           Norway         1937         1.18         1.65         2.33           Belgium         1946         1.60         3.00         2.89           Netherlands         1936         0.99         2.04         3.03     <	England and	Wales		0.50		1.85
Scolland         1945         0.92         1.94         2.86           Denmark         1945         0.51         1.56         2.0           New Zealand (b)         1943         1.05         1.16         2.2           Switzerland         1945         0.46         1.81         2.2           United States of America         1944         0.81         1.47         2.2           Canada         1945         0.80         1.49         2.2           Japan         1936         0.64         1.67         2.3           Italy         1938         0.83         1.60         2.4           Union of South Africa (Europeans)         1941         0.84         1.65         2.4           France         1934         1.00         1.50         2.56           Norway         1937         1.18         1.65         2.3           Belgium         1946         1.60         3.00         2.8           Netherlands         1936         0.99         2.04         3.0           Spain         1935         2.00         1.40         3.4           Egypt (c)         1943         0.59         2.89         3.4           Hun	Northern Irela	nd	1	0.66		2.69
Denmark         1945         0.51         1.56         2.00           New Zealand (b)         1943         1.05         1.16         2.2           Switzerland         1945         0.46         1.81         2.2           United States of America         1944         0.81         1.47         2.2           Canada         1945         0.80         1.49         2.2           Japan         1936         0.64         1.67         2.3           Italy         1938         0.83         1.60         2.4           Union of South Africa (Europeans)         1941         0.84         1.65         2.4           France         1934         1.00         1.50         2.56           Norway         1937         1.18         1.65         2.3           Belgium         1946         1.60         3.00         2.8           Netherlands         1936         0.99         2.04         3.04           Egypt (c)         1943         0.59         2.89         3.44           Hungary         1939         2.11         1.72         3.8           Eire         1936         2.20         2.00         4.22           Or	Scotland		1	0.92		2.86
New Zealand (b)         1943         1.05         1.16         2.2           Switzerland         1945         0.46         1.81         2.2           United States of America         1944         0.81         1.47         2.2           Canada         1945         0.80         1.49         2.2           Japan         1936         0.64         1.67         2.3           Italy         1938         0.83         1.60         2.4           Union of South Africa (Europeans)         1941         0.84         1.65         2.4           France         1934         1.00         1.50         2.5           Norway         1937         1.18         1.65         2.8           Belgium         1946         1.60         3.00         2.8           Netherlands         1936         0.99         2.04         3.0           Spain         1935         2.00         1.40         3.4           Egypt (c)         1943         0.59         2.89         3.4           Hungary         1938         0.81         3.30         4.12           Greece         1938         0.81         3.30         4.12           Greec	Denmark			0.51		2.07
United States of America 1944 0.81 1.47 2.22 Canada 1945 0.80 1.49 2.22 Japan 1936 0.64 1.67 2.31 Italy 1938 0.83 1.60 2.41 Union of South Africa (Europeans) 1941 0.84 1.65 2.45 France 1934 1.00 1.50 2.56 Norway 1937 1.18 1.65 2.35 Belgium 1946 1.60 3.00 2.80 Notherlands 1936 0.99 2.04 3.00 Spain 1935 2.00 1.40 3.44 Egypt (c) 1943 0.59 2.89 3.44 Hungary 1938 0.81 3.30 4.11 Eire 1936 2.20 2.00 4.22 Portugal 1939 1.95 2.33 4.22	New Zealand (b)			1.05	01.1	2.21
United States of America 1944 0.81 1.47 2.28 Canada 1945 0.80 1.49 2.29 Japan 1936 0.64 1.67 2.31 Italy 1938 0.83 1.60 2.49 Union of South Africa (Europeans) 1941 0.84 1.65 2.49 France 1934 1.00 1.50 2.55 Norway 1937 1.18 1.65 2.83 Belgium 1946 1.60 3.00 2.89 Belgium 1946 1.60 3.00 2.89 Spain 1935 2.00 1.40 3.40 Egypt (c) 1943 0.59 2.89 3.48 Hungary 1938 0.81 3.30 4.11 Eire 1938 0.81 3.30 4.11 Greece 1936 2.20 2.00 4.20 Portugal 1.95 2.33 4.22	Switzerland		1945	0.46	1.81	2.27
Canada         1945         0.80         1.49         2.22           Japan         1936         0.64         1.67         2.3           Italy         1938         0.83         1.60         2.4           Union of South Africa (Europeans)         1941         0.84         1.65         2.4           France         1934         1.00         1.50         2.56           Norway         1937         1.18         1.65         2.3           Belgium         1946         1.60         3.00         2.86           Netherlands         1936         0.99         2.04         3.02           Spain         1935         2.00         1.40         3.46           Egypt (c)         1943         0.59         2.89         3.44           Hungary         1939         2.11         1.72         3.8           Eire         1938         0.81         3.30         4.12           Greece         1936         2.20         2.00         4.22           Portugal         1939         1.95         2.33         4.25	United States of A				1.47	2.28
Japan         1936         0.64         1.67         2.3           Italy         1938         0.83         1.60         2.43           Union of South Africa (Europeans)         1941         0.84         1.65         2.44           France         1934         1.00         1.50         2.55           Norway         1937         1.18         1.65         2.8           Belgium         1946         1.60         3.00         2.8           Netherlands         1936         0.99         2.04         3.05           Spain         1935         2.00         1.40         3.44           Egypt (c)         1943         0.59         2.89         3.44           Hungary         1939         2.11         1.72         3.85           Eire         1938         0.81         3.30         4.12           Greece         1936         2.20         2.00         4.22           Portugal         1939         1.95         2.33         4.22				0.80		2.29
Italy          1938         0.83         1.60         2.4:           Union of South Africa (Europeans)          1941         0.84         1.65         2.4:           France          1934         1.00         1.50         2.5:           Norway          1937         1.18         1.65         2.8:           Belgium          1946         1.60         3.00         2.8:           Netherlands          1936         0.99         2.04         3.03           Spain          1935         2.00         1.40         3.4           Egypt (c)          1943         0.59         2.89         3.4           Hungary          1938         0.81         3.30         4.11           Greece          1936         2.20         2.00         4.22           Portugal          1939         1.95         2.33         4.25	Japan			0.64		
Union of South Africa (Europeans)				0.83		
peans)         1941         0.84         1.65         2.49           France         1934         1.00         1.50         2.55           Norway         1937         1.18         1.65         2.83           Belgium         1946         1.60         3.00         2.89           Netherlands         1936         0.99         2.04         3.03           Spain         1935         2.00         1.40         3.44           Egypt (c)         1943         0.59         2.89         3.48           Hungary         1939         2.11         1.72         3.8           Eire         1938         0.81         3.30         4.11           Greece         1936         2.20         2.00         4.22           Portugal         1939         1.95         2.33         4.25						- 143
France         1934         1.00         1.50         2.50           Norway         1937         1.18         1.65         2.8           Belgium         1946         1.60         3.00         2.8           Netherlands         1935         0.99         2.04         3.05           Spain         1935         2.00         1.40         3.4           Egypt (c)         1943         0.59         2.89         3.4           Hungary         1939         2.11         1.72         3.8           Eire         1938         0.81         3.30         4.11           Greece         1936         2.20         2.00         4.22           Portugal         1939         1.95         2.33         4.25		•	,	0.84	1.65	2.40
Norway         1937         1.18         1.65         2.8           Belgium         1946         1.60         3.00         2.8           Netherlands         1936         0.99         2.04         3.0           Spain         1935         2.00         1.40         3.4           Egypt (c)         1943         0.59         2.89         3.4           Hungary         1939         2.11         1.72         3.8           Eire         1938         0.81         3.30         4.11           Greece         1936         2.20         2.00         4.22           Portugal         1939         1.95         2.33         4.22	n' '			,	, -	
Belgium       1946       1.60       3.00       2.80         Netherlands       1936       0.99       2.04       3.00         Spain       1935       2.00       1.40       3.40         Egypt (c)       1943       0.59       2.89       3.45         Hungary       1939       2.11       1.72       3.85         Eire       1938       0.81       3.30       4.11         Greece       1936       2.20       2.00       4.22         Portugal       1939       1.95       2.33       4.25			,	1.18		
Netherlands         1936         0.99         2.04         3.03           Spain         1935         2.00         1.40         3.46           Egypt (c)         1943         0.59         2.89         3.46           Hungary         1939         2.11         1.72         3.83           Eire         1938         0.81         3.30         4.11           Greece         1936         2.20         2.00         4.22           Portugal         1939         1.95         2.33         4.25						
Spain     1935     2.00     1.40     3.46       Egypt (c)     1943     0.59     2.89     3.48       Hungary     1939     2.11     1.72     3.8       Eire     1938     0.81     3.30     4.11       Greece     1936     2.20     2.00     4.22       Portugal     1939     1.95     2.33     4.25					,	•
Egypt (c)     1943     0.59     2.89     3.46       Hungary     1939     2.11     1.72     3.85       Eire     1938     0.81     3.30     4.11       Greece     1936     2.20     2.00     4.20       Portugal     1939     1.95     2.33     4.25			,	1		
Hungary      1939     2.11     1.72     3.82       Eire      1938     0.81     3.30     4.11       Greece      1936     2.20     2.00     4.20       Portugal      1939     1.95     2.33     4.25	. *			i		
Eire      1938     0.81     3.30     4.11       Greece      1936     2.20     2.00     4.20       Portugal      1939     1.95     2.33     4.28						
Greece	Tat			1		
Portugal	<u>a</u>					•
			1			
						4.85
355						4.91
0200H08101dan	OSCHOSIOVANIA		1 1930	1 2.00	2.03	4.91

<sup>(</sup>a) Excluding full-blood aboriginals. Bureaux.

<sup>(</sup>b) Excluding Maoris.

<sup>(</sup>c) Localities having Health

A tabulation of puerperal causes for Australia according to age at death for married and single women separately will also be found in *Demography Bulletin*, No. 64.

The total number of children left by the 303 married mothers who died from puerperal causes in 1946 was 658, an average of 2.2 children per mother.

Thirteen of the mothers who died had been married less than one year, 38 between one and two years, and 28 between two and three years. The duration of marriage ranged up to 28 years. Tabulations distinguishing the ages at marriage and at death will be found in *Demography Bulletin*, No. 64, which also includes a table showing in combination the duration of marriage and previous issue.

(vii) Congenital Malformation, Debility, Premature Birth, etc. (75 to 79). The deaths under this heading in 1946 numbered 3,881 of which 3,753 were of children under one year of age. Of all deaths of children under one year of age 73 per cent. were due to these causes. The number of deaths for 1946 is given in the following table. Corresponding figures for 1945 may be obtained from Demography Bulletin, No. 63.

DEATHS FROM CONGENITAL MALFORMATION, DEBILITY, ETC., 1946.

State or Territory.	Congenital Malformation.				mature Bi njury at I		Congenital Debility and other Diseases peculiar to the First Year of Life.			
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	
New South Wales	190	163	353	550	374	924	166	99	265	
Victoria	106	99	205	300	252	552	93	89	182	
Queensland	61	62	123	234	172	406	61	42	103	
South Australia	35	25	60	107	87	194	32	31	63	
Western Australia	30	38	68	97	73	170	23	15	38	
Tasmania	14	11	25	64	46	110	20	8	28	
Northern Territory	I		1	2	I	3	'			
Australian Capital Territory	1		I	3	3	6	. I		I	
Australia	438	398	836	1,357	1,008	2,365	396	284	6 <b>8</b> 0	
Number of deaths under one year	379	329	708	1,357	1,008	2,365	396	284	68o	
Number of deaths under one year per 1,000 births	4.21	3.87	4.02	15.08	11.87	13.41	4.40	3.33	3.85	

<sup>(</sup>viii) Suicide (81).—(a) General. Deaths from suicide in 1946 numbered 732, compared with an annual average of 624 during 1911–15, 621 during 1921–25, 798 during 1931–35 and 568 during 1941–45.

(b) Modes Adopted. The modes adopted by persons who committed suicide in 1945 and 1946 were as follows:—

SUICIDE: MODES ADOPTED, AUSTRALIA.

						Pers	ons.
Mode of Death.		1945	1946.	1945.	1946.	1945.	1946.
Poisoning		69	90	60	70	129	160
Poisonous gas		37	42	23	42	60	84
Hanging or strangulation		71	86	20	28	91	114
Drowning · · · ·		23	47	35	36	58	83
Firearms and explosives		112	160	12	14	124	174
Cutting or piercing instruments		52	59	9	11	6i	70
Jumping from high places		14	11	5	8	19	19
Crushing		2	1	Ī		3	1
Other modes		14	17	8	10	22	27
Total	••	394	513	173	219	567	732

<sup>(</sup>c) Death-rates. The death-rates from suicide and the proportion per 10,000 of total deaths are given in the following table for each year 1942 to 1946, corresponding rates for the periods 1911-15, 1921-25, 1931-35 and 1941-45, being shown at the foot of the table:—

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

						-			
State or Territory.	Nun	aber of De	aths.	De	eath-rates.	(a)	h. Proportion per 10,000 Total Deaths.		
Sugge of Territory.	Males.	Females.	Persons.	Males.	Females.	Persons.	Males.	Females.	Persons
New South Wales	190	89	279	13	6	10	119	71	98
Victoria	128	. 57	185	13	6	9	113	55	86
Queensland	96	31	127	17	6	12	155		119
South Australia	39	19	58	13	6	9	112		90
Western Australia	46	12	58	18	5	12	165	. 6 <sub>1</sub>	122
Tasmania	12	11	23	10	9	9	86	95	90
Northern Territory Australian Capital	2		2	50		38	435		364
Territory	• •	; ::		<u>.</u>					
Australia 1946	513	219	732	14	6	10	1 124	66	98
,, 1945	394	173	567	ıi	5	8	103	54	81
,, 1944	362	. 178	540	10	5	.7	96	56	78
1943	376	140	516	. 10	4	7	92	42	69
,, 1942	432	162	594	12	5	8	104	48	79
Annual Average—		-i		'= = :				·	!
1941-45	405	163	568	11	5	8	102	50	79
1931-35	635	163	998	19	5	12	190	62	134
1921-25	509	112	621	: 18	4	11	166	48	114
1911–15	509	115	624	21	5	13	172	53	122
		1	1	4	1	_1	1	1	i

<sup>(</sup>a) Number of deaths from suicide per 100,000 of mean population.

<sup>(</sup>d) Age at Death. From the following table which shows the age of persons who committed suicide in 1945 and 1946 it will be seen that both young and extremely old people took their lives during these years.

(7	07-			1945.			1946.	
Grou	p-age (Ye	ars).	Males.	Females.	Persons.	Males.	Females.	Persons
10-14			2		2	3		3
15-19			10	5	15	12	1	13
20-24			23	! 5	28	19	8	27
25-29			15	12	27	29	9	38
30-34			26	1 19	45	43	18	61
35-39			24	15	39	32	15	47
40-44			34	11	45	42	26	68
45-49		[	52	23	75	44	27	71
50-54			37	22	59	56	23	79
55-59			43	. 21	64	67	29	96
60-64		!	39	22	61	50	20	70
65-69			29	10	39	46	13	59
70-74			25	3	28	32	10	42
75-79			19	3	22	26	10	36
80-84			14	I !	15	9	5	14
85-89		٠	2	ı i	3	2	4	6
90 and 0	ver	[		· :	• • •	I	I	2
Tot	al Daa+l		204	7.72	565	512	310	

AGE OF PERSONS WHO COMMITTED SUICIDE: AUSTRALIA.

<sup>(</sup>f) Death-rates, Various Countries. The following table shows the death-rate from suicide for Australia and each State in comparison with the rates for various other countries. Figures for years later than 1939 are not given as they are based on population estimates whose comparability is open to doubt because of the abnormal distribution of population during war-time. The table indicates that Australia occupies a fairly favourable position as regards the death-rate from suicide.

SHICIDE .	DEATH-RATES	(a). VARIOUS	COUNTRIES

Country.	Year.	Rate.	Country.		Year.	Rate.
Egypt Eire Spain Greece Norway Italy Notherlands Canada Australia (b) Victoria (b) Tasmania (b) South Australia (b) Queensland (b) Western Australia (b) Union of South Africa(c), Great Britain and Northern Ireland Scotland	Year.  1936 1939 1935 1936 1937 1938 1939 1939 1939 1939 1939 1939 1939	Rate.  2.0 2.7 3.9 5.7 6.9 8.1 8.7 11.2 7.7 8.4 10.9 12.0 14.4 15.3 11.3	Country.  New Zealand (d) Portugal U.S. of America Japan Sweden Finland Belgium Denmark France Poland (e) Switzerland Hungary Germany Czechoslovakia		Year.  1939 1939 1936 1937 1935 1935 1934 1936 1939 1939 1939	Rate.  11.7 12.9 14.2 15.1 15.6 16.2 16.8 19.4 21.4 22.0 23.8 26.0 27.5 27.8
England and Wales $_{\parallel}$	1939	12.2		1		-

<sup>(</sup>a) Number of deaths per 100,000 of mean population.
(c) European population only. (d) Excluding Maoris. inhabitants.

<sup>(</sup>e) Occupation at Death, Males. A table showing main groups of occupations of males who committed suicide during 1946 appears in Demography Bulletin, No. 64.

<sup>(</sup>b) Excluding full-blood aboriginals.
(c) In towns with over 100,000

<sup>(</sup>ix) Homicide (82). Deaths from homicide in 1946 numbered 90, which was 23 more than the previous year and 7 more than the average for the five years 1941 to 1945, namely, 83. See par. (xvi).

(x) Accidental or Violent Deaths (including Suicide and Homicide). The following table shows the various kinds of violent deaths, including suicides and homicides, recorded in Australia for 1946. Corresponding figures for 1945 may be obtained from Demography Bulletin, No. 63.

DEATHS FROM EXTERNAL VIOLENCE: AUSTRALIA, 1946.

Cause of	Death.			Males.	Females.	Persons
Suicide (see par. (viii))				513	219	732
Infanticide (murder of infan	ts under	year)		2	5	7
Homicide by firearms		•		18	10	28
Homicide by cutting or pier	cing instr	uments		11	9	20
Homicide by other or unspe	cified mea	ns		22	13	35
Total Homicide			I			
10tal Hollicide		··		53	37	90
Accidents on railways				164	20	184
Automobile accidents—			1			·
Collisions with trains			]	13	1	14
Collisions with trams				12	5	17
Other automobile acciden				836	207	1,043
Motor cycle accidents (a)				114	18	132
Other road transport accides	nts			•		,
Tramway accidents (on re	ads)			52	14	66
Other road transport accid	dents			60	10	70
				11		11
Air transport accidents			1	19	13	32
Accidents in mines and quar				43	٠,	•
Agricultural and forestry ac				43		43
Accidents from farm macl		l vehicles		35	i	3.5
Injury by animals	iniony with			16	1	35
Other agricultural and for	estry anni	dents	( )	39	* 1	17
Accidents caused by machin			:: [	- 1		39
Food poisoning	егу (п.с.т.	,	i	35	1	36
Accidental absorption of poi				3	2	5
				17	5	22
Other acute accidental poiso		by gas,	٠٠ ا	24	21	45
Conflagration		٠. ٠		15	5	20
Accidental burns (conflagrat		tea)		70	73	143
Accidental mechanical suffor		• •		44	22	66
Accidental drowning	• •		• •	291	73	364
Accidental injury by firearm	18	• • • • • • • • • • • • • • • • • • • •	:	66	7	73
Accidental injury by cutting	or piercii	ng instrui	nents	11	1	12
Accidental injury by fall, or	ushing, la	ndslide, (	etc.—	1	_	
Fall, not otherwise specific	ed	• •		437	485	922
Other crushings			٠. ا	22	2	24
Injuries by animals (n.e.i.)				7	2	9
Hunger or thirst				2		2
Excessive cold , .				2		2
Excessive heat				30	22	52
Lightning				1	!	1
Electricity (lightning except			,	41	4	45
Attack by venomous animal	s		1	• •	`	1.5
Snakebite			!	4 :	. 1	5
Other			1	i '	[	ĭ
Other accidents—				1	1	
Vaccinia and other sequel	e of vacci	nation			1	1
Other accidents due to m			inter.			
vention		• • •	1	14 .	15	29
Lack of care of the new-b	orn		!	6	3	9
Other and unspecified acc			!	172	49 1	221
Legal executions				2 1	49	2
External Violence, excludin		and Hon	nicide	2,731	1,083	3,814
		· · · <del></del>				
Total Deaths from Ex				3,297	1,339	4,636
(a) Other	than callied					

<sup>(</sup>a) Other than collisions with trains, trams or motor-cars.

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

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

Period.	ì.	Dea	th-rates(a Homicide		Ext	th-rates(a ternal Vio ding Suic Homicide	lence, de and	Dea all E	All External Violence Pro- portion per 10,000 Deaths.		
		Males.	Females.	Persons.	Males.	Females.	Persons.	Males.	Females.	Persons.	Persons.
911-15	·	21	16	19	948	268	621	1,170	330	770	718
921-25		17	13	15	753	211	487	950	260 i	610	643
926-30		19	15	17	843	240	549	1,070	300	690	746
931-35		21	11	16	714	223	472	923	284	609	676
936-40		18	9	13	862	283	576	1,069	342	699	725
941-45	٠.	14	9	. 11	670	261	466	795	315	557	558
941		8	9	8	782	262	525	919	317	621	619
942		17	10	13	735	269	504	872	324	600	572
943		14	7	10	647	260	454	764	306	536	520
944		17	12	15	613	258	436	729	319	525	551
945	• •	14	7	11	571	255	413	692	309	501	526
946		14	10	12	728	289	510	881	359	621	621

<sup>(</sup>a) Number of deaths per 1,000,000 of mean population.

(xi) "Other Diseases". The intermediate and the abridged classifications of causes of death used in Tables A to E in the preceding pages differ from those used in issues of the Official Year Book previous to No. 25 in that no residue of "other diseases" is shown at the foot. The items are ranged in classes or groups of classes and each class or group of classes is made complete by the addition of an "other diseases" item for that class or group of classes. These "other diseases" items of the intermediate classification are expanded into their constituent causes in the following table:—

F.-DEATHS FROM "OTHER DISEASES": AUSTRALIA, 1946.

Causes.		General Classifi- cation Number.	Males.	Females	Persons.
17. OTHER INFECTIVE AND PARASITIC DISEAS	SES.				_
Cerebro-spinal meningococcal meningitis		6	42	32	74
Malignant pustule and anthrax		7	1		í
Erysipelas		11	3	3	6
Tetanus		12	3 55	16	71
Leprosy		23	2	2	4
Gonococcal infections		25	2		2
Relapsing fever		3 r	I	į	I
Other diseases due to spirochætes		32	12	10	22
Acute poliomyelitis and polioencephalitis		36	62	37	99
Acute lethargic encephalitis		37a	1		ī
Sequelæ of encephalitis lethargica		37 <i>b</i>	. 5	4	9
Unspecified encephalitis lethargica		37c	6	7	13
Herpes zoster		38c	I	4	5
German measles		38d	3		3
Chicken pox		38e	3	1	4
Other diseases due to viruses		38 <i>f</i>		1	l'
Mycoses		43	7	2	9
Venereal diseases other than syphilis and gonorrh	œa	44a	I	I	2
Pernicious lymphogranulomatosis		446	52	32	84
Mumps		44C	. 4	11	15
Other infective and parasitic diseases		44d		i	
Total			263	162	425

F.—DEATHS FROM "OTHER DISEASES": AUSTRALIA, 1946—continued.

	Causes.		General Classifi- cation Number.	Males.	Females	Persons.		
29. OTHER	GENERA	L DISEAS	es.					
Diseases of the pituitary					62	8	8	16
Diseases of the thymus (	including		mphaticu	ıs)	64	10,	11	21
Diseases of the adrenal g Ostcomalacia	glands	• •	• •	• • •	65 66 <i>a</i>	15	19	34
"Pink" disease	·•			- : :	66 <i>b</i>		2	15
Other general diseases			• •		66c	10	12	22
Oppor Boundar andones	•	• •	• •					
	Total				.,	. 54	56	110
						·		
34. Other	CHRONIC	Poisoni	NG.					
Lead poisoning—								
(a) Specified as occup			•		78a	2		2
(b) Not specified as of				• •	78b	3	2	5
Chronic poisoning by ot								
(a) Occupational pois	_	• •	• •	• •	79a	٠٠		٠٠,
(b) Other poisoning	• •	• •	• •	• •	796	5	· I	6
	Total					10	3	13
Encephalitis (non-epider Intra-cranial abscess			,		80a	12		25
Other forms		• •			80 <i>b</i>	26	31	25 57
Convulsions in children			age		86	15	10	25
	rvous svs	item—	-			Į.	1	-3
Other diseases of the ne Chorea	rvous sys	item—			87a	2		1
Other diseases of the ne Chorea Neuritis		 			87a 87b	2 5	2	4
Other diseases of the ne Chorea Neuritis					87 <i>b</i> 87 <i>c</i>	2 5 105	2	1
Other diseases of the ne Chorea			••		87b 87c 87d	5 105 49	2	4 5
Other diseases of the ne Chorea Neuritis		••			87 <i>b</i> 87 <i>c</i>	5 105	2 82	4 5 187
Other diseases of the ne Chorea		••	••		87b 87c 87d	5 105 49	8 <sub>2</sub> 33	4 5 187 82
Other diseases of the ne Chorea		••	••		87b 87c 87d	5 105 49	8 <sub>2</sub> 33	4 5 187 82
Other diseases of the ne Chorea	Total				87b 87c 87d 87e	5 105 49 32	2  82 33 26	4 5 187 82 58
Other diseases of the ne Chorea Neuritis Paralysis agitans Disseminate sclerosis Others  48. Other Diseases	Total	    Circulat		  	87b 87c 87d 87e	5 105 49 32 246	82 33 26	4 5 187 82 58 443
Other diseases of the ne Chorea Neuritis Paralysis agitans Disseminate sclerosis Others  48. Other Diseases Aneurysm (other than h	Total  OF THE	CIRCULAT	ORY SYS	    TEM.	87b 87c 87d 87e	5 105 49 32 246	2  82 33 26  197	4 5 187 82 58 443
Other diseases of the ne Chorea Neuritis Paralysis agitans Disseminate sclerosis Others  48. OTHER DISEASES Aneurysm (other than h Other diseases of the ar Varices	Total  OF THE	CIRCULAT	ORY SYS	   TEM.	87b 87c 87d 87e	5 105 49 32 246	82 33 26 197 49 38	4 5 187 82 58 443
Other diseases of the ne Chorea	Total  OF THE neart and teries	Circulat	ORY SYS	TEM.	87b 87c 87d 87e  96 99	5 105 49 32 246	197 49 38 6	4 5 187 82 58 443
Other diseases of the ne Chorea	Total  OF THE neart and teries	Circulat	ORY SYS	TEM.	87b 87c 87d 87e  96 99 100a 100b	549 32 246 54 51 1	197 197 49 38 6 15	4 5 187 82 58 443 103 89 7 24
Other diseases of the ne Chorea Neuritis Paralysis agitans Disseminate sclerosis Others  48. Other Diseases Aneurysm (other than hother diseases of the ar Varices Other diseases of the ve Diseases of the lymphat High blood pressure (idi	Total  OF THE neart and teries ins	CIRCULAT  aorta)	ORY SYS	TEM.	87b 87c 87d 87e  96 99	549 32 246 54 51 1 9	197 49 38 6 15 4	44 55 187 82 58 443 443 89 7 24
Other diseases of the ne Chorea Neuritis Paralysis agitans Disseminate sclerosis Others  48. OTHER DISEASES Aneurysm (other than hother diseases of the ar Varices Other diseases of the ve Diseases of the lymphat	Total  OF THE neart and teries ins	CIRCULAT  aorta)	ORY SYS	TEM.	87b 87c 87d 87e  96 99 100a 100b	549 32 246 54 51 1	197 197 49 38 6 15	4 5 187 82 58 443 103 89 7 24
Other diseases of the ne Chorea Neuritis Paralysis agitans Disseminate sclerosis Others  48. Other Diseases Aneurysm (other than hother diseases of the ar Varices Other diseases of the ve Diseases of the lymphat High blood pressure (idi	Total  OF THE neart and teries ins	CIRCULAT  aorta)	ory Sys	TEM.	87b 87c 87d 87e  96 99 100a 100b 101	549 32 246 54 51 1 9 3 129	197 49 38 6 15 4 143 2	4 5 187 82 58 443 103 89 7 24 272

F.-DEATHS FROM "OTHER DISEASES": AUSTRALIA, 1946-continued.

					-, -,		
Causes.				General Classifi- cation Number.	Males.	Females	Persons
52. OTHER DISEASES OF THE (EXCEPT TUBERO			STEM				 
Diseases of the nasal fossæ and ar	nnexa			104	8	8	16
Diseases of the larynx				105	18	15	33
Congestion, œdema, embolism,		agic infa	rction				33
and thrombosis of the lungs		٠		111	216	272	488
Asthma				112	80	69	149
Pulmonary emphysema				113	19	2	21
Other diseases of the respiratory culosis)—						; ;	
Silicosis and other occupation	ıaı respir	atory disc	eases	114a	69	I	70
Gangrene of the lung	• •	• •	• • •	1146	8	6	01
Abscess of the lung Chronic interstitial pneumo	nia oth	or than		1140	20	0	26
pational	лиа ош	ei man	occu-	114d	20	3	22
Other diseases of the respirate	orv syste	m not sne	cified	1140	20	3	23
as occupational				114e	29	14	43
Total					487	392	879
Oo. OTHER DISEASES OF THE Diseases of the buccal cavity and Diseases of pharynx and tonsils Other diseases Diseases of the œsophagus . Other diseases of the stomach (car Other diseases of the intestines Diseases of the pancreas Peritonitis without stated cause	annexa,	etc.—	EM.	115a 115b 116 118 123 128	34 9 9 32 50 37 34	22 4 10 21 48 35 25	56 13 19 53 98 72 59
Total		••			205	165	370
72. OTHER ACCIDENTS AND I BIRTH AND THE PU Hæmorrhage of child-birth and th	ERPERIU	M.	.D-	146			
Puerperal toxæmias—	io puoi p			- 1		41	4 I
Puerperal eclampsia Puerperal albuminuria and nepl	hritis			148a   148b		22	22
Acute yellow atrophy of the live		oartum)		148c		9	9
Other puerperal toxemias	/f.000-l			1486		3	3 11
Laceration, rupture or other traum	na of pel	vic organ	s and	1400		**	1.1
tissue			!	149a	'	5	5
Other accidents of child-birth			1	1496	!	24	24
Other or unspecified diseases o	f child-b	oirth and	the		ŀ	. 1	- 7
puerperium—			1	1	i		
Puerperal diseases of the brea	st	• •		150a	;		
Other diseases	• •			150b	;	10	10
Total		••				125	125
					- · · <u>-</u>		

<sup>17.</sup> Causes of Deaths in Classes.—The figures in the preceding sub-sections relate to specific causes of death, and are of greater value in medical statistics than a mere grouping under general headings. The classification under eighteen general headings adopted by the compilers of the International Nomenclature is, however, shown in the

following table for 1946, together with the death-rates and proportions of total deaths pertaining to those classes. A further table furnishes the death-rates for the five-year periods 1921-25, 1931-35 and 1941-45. Figures for 1945 corresponding to the first table may be obtained from *Demography Bulletin*, No. 63.

DEATHS, DEATH-RATES, ETC., IN CLASSES: AUSTRALIA, 1946.

Class.	Tot	al Dear	ths.	Dea	th-rates	s.(a)		67 392 268 64 99 86 64 99 86 64 99 86 631 1,403 1,142 66 3,114 3,364 68 3,114 3,364 69 566 623 98 44 10 13 11 9 9 9	
	M.	F.	Total.	M.	F.	Total.	М.	F.	Total.
Infective and Parasitic Diseases     Cancer and Other Tumours     Rheumatism, Diseases of Nutrition and of the Endocrine	2,437 4,793		3,835, 9,575	65 128		51 128	590 1,161		514 1,282
Glands, Other General Diseases and Vitamin-deficiency Diseases Diseases of the Blood and Blood-	691	1,307	1,998	19	35	27	167	392	268
forming Organs 5. Chronic Poisoning and Intoxi-	265			7	9	8	64		80
6. Diseases of the Nervous System and Sense Organs	3,843	4,683	8,526	103	j	114	931		-
7. Diseases of the Circulatory System 8. Diseases of the Respiratory System	14,722 3,006	2,396	5,402	393 80	279 64	337 72	3,566 728	3,114 718	3,364 723
9. Diseases of the Digestive System 10. Diseases of the Genito-urinary System	2,763	1,888	3,055 4,651	46 74	35 51	41 62	422 609		409 623
11. Diseases of Pregnancy, Child- birth and Puerperal State		327	327		9	5		98	44
Tissue 13. Diseases of the Bones and Organs	42		84	I	1	1	10	13	11
of Movement  14. Congenital Malformations  15. Diseases Peculiar to the First	38 438	31 398	69 836	I I 2	11	11	9 106		112
Year of Life	1,753 1,203	1,355	2,558	47 32	35 36	41 34	425 292	387 406	408 343
17. Violent or Accidental Deaths 18. Ill-defined Causes of Death	3,297 150			88	36 2	62 3	799 36	401 23	621 31
Total	41,283	33,378	74,661	1,103	896	1,000	10,000	10,000	10,000

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

#### DEATH-RATES(a) IN CLASSES: AUSTRALIA.

	(2)	1	921-25		1	931-35		1941-45.		
	Class.	М.	F.	Total.	M.	F.	Total.	M.	F.	Total.
2. C	nfective and Parasitic Diseases Cancer and Other Tumours Cheumatism, Diseases of Nutrition and of the Endocrine				92	70 108	110	77 123	48 128	63 126
ı. 1	Glands, Other General Diseases and Vitamin-deficiency Diseases	248	. 222	236	18	33	25	19	37	28
•	forming Organs				9	9	9	7	8	8
5. C	Chronic Polsoning and Intoxication				1					_
6. I	diseases of the Nervous System	را		. i	( 2	••	1	2	1	1
	and Sense Organs	93			66	67	67	98	122	110
	Diseases of the Circulatory System	150			249	200		354	260	312
8. I	Diseases of the Respiratory System	121	88	105	101	75	88	89	68	78
	Diseases of the Digestive System	97	81	89	60	46	53	55	40	47
ιό. Γ	Diseases of the Genito-urinary			- 1	1				7-	} ~~
	System	72	49	60	8 r	59	70	81	55	68
11. E	Diseases of Pregnancy, Child-	1			;					
	birth and Puerperal State	٠	1 25	12	'	19	Q.		13	6
12. I	Diseases of the Skin and Cellular	1	-	,			1		- 5	}
	Tissue	6	4	5	3	3	3	2	2	2
13. L	diseases of the Bones and Organs	i	``	_	_	Ξ.	Ĭ			1
-	of Movement	1 3	2	2	. 3	1	2	2	1	1 .
	Congenital Malformations	12	ΙO	11	11	8	10	11	10	11
15. T	diseases Peculiar to the First	ļ	!							
	Year of Life	73			44	34	39	46	34	40
	Senility, Old-age	76				42		38	36	
	iolent or Accidental Deaths	95		61	92	28	61	79	31	56
19. I	ll-defined Causes of Death	15	9	12	7	2	5	5	2	3
	Total	1,061	841	952	993	804	900	1,088	905	997

<sup>(</sup>a) Number of deaths per 100,000 of mean population.

18. Age at Denth of Married Males and Females, and Issue.—Demography Bulletin, No. 64, contains a number of tables showing, in combination with the issue, the age at marriage, age at death and occupation of married persons who died in Australia in 1946. Deaths of married males in 1946 numbered 28,937, and of married females, 25,193. The tabulations which follow deal, however, with only 28,530 males and 24,989 females, the information regarding issue in the remaining 615 cases being incomplete. The total number of children in the families of the 28,530 males was 104,566, and of the 24,989 females, 98,911. The average number of children is shown for various age-groups in the following table:—

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

•	Average Issue.										
Age-group (Years).			Males.		Females.						
	1911.	1921.	1931.	1941.	1946.	1911.	1921.	1931.	1941.	1946.	
Under 20 20-24 25-29 30-34 35-39 40-44 45-49 55-59 60-64 65-69 70-74 75-79 80-84 85-89 90-94 95-99 100 and over	0.33 1.25 2.05 2.80 3.47 4.09 4.75 5.44 5.95 6.23 6.41 6.68 6.67 6.03 7.30 9.33	 0.84 1.29 2.06 2.58 3.23 3.48 3.76 4.41 4.98 5.50 6.66 6.66 6.89 7.18 7.21 6.97 9.20	0.75 0.81 1.33 1.79 2.13 2.77 3.10 3.46 3.69 4.02 4.41 5.06 5.65 6.17 6.59 6.69 6.69 7.00	 0.73 1.12 1.76 2.11 2.49 2.68 2.96 3.28 3.55 3.73 4.17 4.93 5.70 6.57 7.04 8.69	1.00 0.68 1.23 1.76 2.08 2.39 2.49 3.10 3.24 3.55 3.85 3.55 3.55 3.55 3.57 4.61 5.17 5.92 5.33	0.94 1.27 1.82 2.74 3.64 4.09 4.535 5.86 5.99 6.38 6.38 6.72 6.22 5.97 5.695 5.17	0.77 1.22 1.86 2.45 3.29 3.66 3.76 4.23 4.69 5.39 5.39 6.30 6.56 6.76 6.93 6.53 6.55 5.11	0.66 1.13 1.81 2.34 2.89 3.29 3.55 4.01 4.21 4.82 5.41 6.26 6.57 6.73 7.10 8.20	0.79 0.95 1.45 1.91 2.30 2.77 2.93 3.29 3.55 3.79 4.01 4.85 5.39 5.85 6.11 6.73	0.44 0.83 1.43 1.91 2.13 2.57 2.77 3.04 3.30 3.64 4.76 5.48 5.79 5.21	
Age not stated	4.33	5.36	5.00		• • •	4.60	5.80	5.00			
All Ages	5.42	4.97	4 · 44	3.91	3.67	5.35	5.05	4.72	4.22	3.96	

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

ISSUE OF DECEASED MARRIED MALES AND FEMALES: AUSTRALIA, 1946.

Issue of Married Males.		Females. Total.		Issue of Married Females.		Males.	Females.	Total.
Living Dead	44,429 9,406	44,031 6,700	88,460 16,106	Living Dead		39,353 11,280	39,970 8,808	79,32 <b>3</b> 19,588
Total	53,835	50,731	104,566	Total		50,633	48,278	98,911

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

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

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

,	Average Issue.										
Age-group (Years).			Males.		Females.						
	1911.	1921.	1931.	1941.	1946.	1911.	1921.	1931.	1941.	1946.	
Under 15 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65 and over Age unspecified	6.97 6.34 5.70 4.92 4.05 3.43 2.59 2.45 1.66 2.00	6.32 6.05 5.17 4.45 3.90 2.67 2.20 1.70 0.33 0.25 4.93	6.15 5.56 4.70 3.96 3.14 2.36 1.60 0.95 0.63 0.18 3.64	 5,40 4.89 4.21 3.41 2.80 2.01 1.52 0.79 0.29 0.01 2.95	5.20 4.65 3.87 3.22 2.66 1.96 1.16 0.75 0.66 0.90 2.76	9.71 7.10 5.77 4.27 3.04 1 68 0.72 0.26	7.60 6.97 5.50 4.09 2.66 1.61 0.62 0.03	6.36 6.79 5.23 3.79 2.42 1.40 0.39 0.12	7.80 6.10 4.80 3.51 2.35 1.26 0.35 0.01	5.50 5.88 4.53 3.30 2.25 1.22 0.49 0.17	
All Ages	5.42	4.97	4 · 44	3.91	3.67	5.35	5.05	4.72	4.22	3.96	

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

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

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

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

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

<sup>21.</sup> Occupation of Deceased Married Males and Issue.—A summary of the main groups of occupations of married males who died during 1946 appears in Demography Bulletin, No. 64.