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CHAPTER 8

VITAL STATISTICS

The tables in this chapter are confined to the principal characteristics of vital statistics for Australia and relate, in the main, to the year 1973 for marriages and divorces and 1972 for births, deaths, and infant deaths. Comparisons have been restricted, in general, to the individual years 1969 to 1973 and the five year periods 1946-50 to 1966-70, while age data have been shown in five-year groups. Comparisons over longer periods, together with more detailed figures such as single age particulars and cross-classifications of various characteristics, are published in the annual bulletins, Demography (4.9) and Causes of Death (4.7). Current information is published in the Monthly Review of Business Statistics (1.4), the Quarterly Summary of Australian Statistics (1.3), the mimeograph bulletins Births (4.4), Deaths (4.8), Marriages (4.10), Divorce (13.1) (annual) and Vital and Population Statistics (quarterly) (4.11).

In most tables the statistics of births, deaths and marriages exclude particulars of full-blood Aborigines for years before 1966. Differences between the statistics now published and those formerly published which implied exclusion of Aboriginal vital events cannot be taken as reliable statistics of births, deaths, or marriages among full-blood Aborigines, because in many areas no satisfactory administrative or other basis existed for distinguishing vital events of full-blood Aborigines from those of part-Aborigines of the rest of the population.

Statistics of divorce have been shown in the chapter on Law, Order and Public Safety in previous issues of this publication.

Birth, death and marriage rates for certain countries of the world are set out in International Vital Statistics at the end of this chapter.

Provisions for registration and compilation of statistics

In Australia, statistics of births, deaths and marriages are compiled from information supplied for the registration of the event. Each State and Territory has an independent system of registration. Provisions for the civil registration of births, deaths, and marriages have been in force in Tasmania from 1839, in Western Australia from 1841, in South Australia from 1842, in Victoria from 1853, and in New South Wales and Queensland (then part of New South Wales) from 1856. Registration in the Territories is administered by the Australian Government, registration having been taken over from South Australia in 1911 in respect of the Northern Territory and from New South Wales in 1930 in respect of the Australian Capital Territory. The authority responsible for the registration of births, deaths, and marriages occurring within his particular State or Territory is the Registrar-General (the Government Statist in Victoria) or the Principal Registrar.

The statistics of births, deaths and marriages in this chapter refer to events registered by the State and Territorial registrars during the year shown. There is usually an interval of at least several days between the occurrence and the registration of an event. As a result of the delay in registration some events occurring in one year are not registered until the following year. Events which are registered more than ten years after date of occurrence are excluded from the statistics.

For tables showing statistics of births, deaths and marriages for the States and Territories, figures are compiled from registrations of events which took place in each State and Territory. Some events take place in States other than the State in which the persons concerned (e.g. mother, deceased, bride/groom) usually resided. The effect of such interstate registrations on State totals however is slight. See page 179.

Statistics of divorce are compiled from petitions filed with and decrees granted by the Supreme Court of a State or Territory.

Marriages

The Marriage Act 1961–1966 came into operation on 1 September 1963, placing the marriage laws of all States, the mainland Territories and Norfolk Island on a uniform basis. Provision is made for the celebration of marriage by ministers of religion registered with the Registrar of Ministers of Religion appointed in each State and Territory by the Attorney-General, and by certain civil officers, in most cases district registrars. In each State or Territory the authorised celebrant is required to register particulars of the parties married with the appropriate registering authority as soon as practicable and in any case not later than fourteen days after the marriage.

The minimum marriageable age at which a person is legally free to marry is 18 years for males and 16 years for females. The marriage of a female between 16 and 18 years of age is not permissible without the consent of her parents or guardians or, where this is not obtainable of a magistrate or other prescribed authority. A judge or magistrate may, in exceptional circumstances, make an order authorising a male who has attained 16 years or a female who has attained 14 years to marry a person of marriageable age.

Numbers of marriages and crude marriage rates

MARRIAGES(a)

Period 		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
Annual aver	rage	_								
1946-50		30,162	20,453	10,666	6,581	5,205	2,529	114	181	75,891
1951-55		28,483	20,007	10,171	6,290	5,232	2,539	146	234	73,102
1956-60		28,432	20,422	10,254	6,517	5,145	2,573	190	321	73,854
1961–65		31,788	23,262	11,437	7,514	5,768	2,700	248	533	83,250
1966–70		39,216	29,481	14,717	9,920	8,147	3,330	394	983	106,188
Annual tota	1									
1969		41,286	30,860	15,669	10,599	8,993	3,532	413	1,118	112,470
1970		42,928	31,729	16,082	10,864	9,227	3,535	501	1,200	116,066
1971		43,038	32,386	16,538	10,833	9,382	3,578	485	1,397	117,637
197 2		41,520	31,206	16,066	10,829	9,120	3,426	490	1,372	114,029
1973		40,722	30,203	16,490	10,806	9,102	3,395	513	1,469	112,700

⁽a) Excludes particulars of full-blood Aborigines before 1966.

CRUDE MARRIAGE RATES(a)

Period				N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
Average a	annua	l rate	_									
1946-5	0.			9.90	9.72	9.41	9.87	10.01	9.56	9.39	9.36	9.77
1951-5	5.			8.41	8.34	7.91	8.11	8.44	8.35	9.13	8.20	8.29
19566	0.			7.70	7.50	7.14	7.26	7.36	7.69	8.63	7.51	7.50
1961–6	5.			7.86	7.64	7.27	7.42	7.43	7.49	8.09	7.26	7.63
1966–7	0.			8.96	8.84	8.49	8.82	8.87	8.76	5.81	8.68	8.81
Annual r	ate—											
1969				9.29	9.11	8.88	9.30	9.41	9.17	5.65	9.19	9.16
1970				9.48	9.20	8.96	9.38	9.28	9.11	6.32	9.10	9.26
1971				9.33	9.23	9.03	9.21	9.09	9.15	5.60	9.68	9.20
1972				8.89	8.78	8.58	9.10	8.63	8.71	5.26	8.67	8.78
1973				8.64	8.40	8.59	8.99	8.49	8.55	5.35	8.69	8.56

⁽a) Number of marriages per 1,000 of mean population, Excludes particulars of full-blood Aborigines before 1966.

MARRIAGES 173

Previous marital status

In most years about ninety per cent of grooms and brides are single at marriage, seven per cent divorced and three per cent widowed.

PREVIOUS MARITAL STATUS OF BRIDEGROOMS AND BRIDES: AUSTRALIA, 1973

Previous marital statu	us of		Previous marital st	marital status of brides							
bridegrooms	s oj		Spinsters	Widows	Divorced	bride- grooms					
Bachelors		_	94,274	1,085	4,382	99,741					
Widowers			827	1,746	1,041	3,614					
Divorced.			4,849	1,075	3,421	9,345					
Total	brides		99,950	3,906	8,844	112,700					

Age and previous marital status at marriage

There were 17,898 males under 21 years of age married during 1973, while the corresponding number of females was 50,433.

AGE AND PREVIOUS MARITAL STATUS OF BRIDEGROOMS AND BRIDES AUSTRALIA, 1973

Age at	Bridegroo	ms			Brides			
marriage (years)	Bachelors	Widowers	Divorced	Total	Spinsters	Widows	Divorced	Total
Under 20	 8,382	1		8,383	34,665	7	7	34,679
20-24 .	59,142	24	247	59,413	50,848	107	839	51,794
25-29 .	22,902	89	1,809	24,800	10,083	231	2,402	12,716
30-34 .	5,334	111	1,983	7,428	2,418	240	1,735	4,393
35-39 .	1,821	136	1,418	3,375	832	267	1,139	2,238
40-44 .	954	245	1,174	2,373	403	379	961	1,743
45–49 .	563	385	1,082	2,030	249	582	822	1,653
50-54 .	297	501	745	1,543	197	528	520	1,245
55-59 .	132	554	455	1,141	113	514	246	873
60–64 .	110	555	235	900	66	477	100	643
65 and over	104	1,013	197	1,314	76	574	73	723
Total	99,741	3,614	9,345	112,700	99,950	3,906	8,844	112,700

RELATIVE AGES OF BRIDEGROOMS AND BRIDES: AUSTRALIA, 1973

		Age of bride (years)											
Age of bride- groom (years		Under 15	15–19	20-24	25-29	30–34	35–39	40–44	45 and over	Total bride- grooms			
Under 20		3	6,976	1,343	55	5	1			8,383			
20-24 .		3	23,292	33,413	2,396	254	38	13	4	59,413			
25-29 .		2	3,860	13,774	5,801	1,087	209	44	23	24,800			
30-34 .			432	2,460	2,715	1,226	385	148	62	7,428			
35-39 .			71	539	995	867	526	227	150	3,375			
40-44 .			25	160	451	520	475	407	335	2,373			
45-49 .			8	77	201	253	347	423	721	2,030			
50-54 .			3	17	59	126	154	270	914	1,543			
55-59 .			1	4	32	37	65	135	867	1,141			
60-64 .			3	5	6	9	26	56	795	900			
65 and over			••	2	5	9	12	20	1,266	1,314			
Total bride	s	8	34,671	51,794	12,716	4,393	2,238	1,743	5,137	112,700			

The median age at marriage of brides and bridegrooms has declined during recent years. The median ages, in years, of brides for each of the five years to 1973 were: 1969, 21.54; 1970, 21.46; 1971, 21.39; 1972, 21.41 and 1973, 21.41. The median ages, in years, of bridegrooms were: 1969, 23.78; 1970, 23.74; 1971, 23.78; 1972, 23.80 and 1973, 23.85. The difference in the median age at marriage between brides and bridegrooms is generally about two years, the difference in 1973 being 2.44 years. The median age is the age at which half of the bridegrooms or brides were younger and half were older than that age. It gives a better indication of the most common age at marriage than the average age (mean).

Countries of birth of persons marrying

RELATIVE COUNTRIES OF BIRTH OF BRIDEGROOMS AND BRIDES: AUSTRALIA, 1973

	Country of birth of bride													
Country of birth of bridegroom	Australia	New Zea- land	United King- dom and Ireland	Ger- many	Greece	Italy	Malta	Nether- lands	Yugo- slavia	Other Euro- pean	Other and un- specified	Total bride- grooms		
Australia .	. 75,090	470	4,998	577	83	289	210	632	104	506	1,333	84,292		
New Zealand	974	119	120	15		5	- 3	14	2	11	54	1,317		
United Kingdor					• • •	•	_		_		٠.	-,		
and Ireland	7,032	127	2,223	117	10	44	52	107	25	114	325	10,176		
Germany .	. 1,117	23	133	157	- 6	ġ	5	23	20	74	75	1,642		
Greece .	. 309	-3	23	é	1,293	10	5	- 5	15	11	98	1,781		
Italy .	1,296	8	119	31	14	1,438	31	16	20	48	85	3,106		
Malta .	. 372	3	52	- 5		-,9	283	6	2	3	8	743		
Netherlands	1,120	- Ģ	136	19		7	6	151		25 59	44	1.517		
Yugoslavia	. 340	7	42	21	16	25 21	11	9	1,291	59	27	1,848		
Other European	971	27	130	100	16 9	21	7	15	40	628	135	2,083		
Other and un-					_							•		
specified	1,887	42	295	42	69	38	12	37	26	101	1,646	4,195		
Total bride	90,508	838	8,271	1,093	1,500	1,895	625	1,015	1,545	1,580	3,830	112,700		

Celebration of marriages

Marriages may be celebrated by a minister of religion registered as an authorised celebrant, by a district registrar or by other suitable persons authorised by the Attorney-General. Notice of the intended marriage must be given to the celebrant at least seven days before the marriage. Most of the marriages are celebrated by ministers of religion although the proportion of civil marriages has been increasing. The registered ministers in 1973 belonged to more than fifty different religious denominations.

MARRIAGES BY AUTHORISED CELEBRANTS: 1973

									lustralia	
Category of authorised celebrant	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	No.	Pro- portion of total
Registered ministers of recog- nised religious denomina- tions-										
Roman Catholic Church of England .	11,152 11,207	8,775 6,197	4,288 3,784	2,089 1,867	2,268 2,435	696 1,265	115 65	441 316	29,824 27,136	24.1
Methodist	4,352	2,740	2,419	2,347	973	466	46	58	13,401	11.9
Presbyterian	3,480	4,212	2,081	309	490	148	46 25	114 25	10,880	9.7
Orthodox Baptist	988 737	1,146 566	101 337	169 236	105 138	6 89	3	15	2,565 2,121	2.3 1.9
Lutheran	160	275	419	5 96	42	5	13	16	1,526	1.4
Churches of Christ .	206	589	187	316	171	19	12	15	1,505	1.3
Congregational	334	378	114	290	115	53	14	- 3	1,301	1.2
Salvation Army	191	179	107	73	58	35	2	11	656	0.6
Other	745	1,013	387	192	246	104	8	12	2,707	2.4
Other authorised celebrants—		•							•	
Ministers of religion	211	206	59	55	34	2		9	576	
Civil officers	6,959	3,927	2,207	2,267	2,027	507	174	434	18,502	16.4
Grand Total	40,722	30,203	16,490	10,806	9,102	3,395	513	1,469	112,700	100.0
Proportion of total (per cent)-										
Ministers of religion	82.91	87.00	86.62	79.02	77.73	85.07	66.08	70.46	83.58	
Civil officers	17.09	13.00	13.38	20.98	22.27	14.93	33.92	29.54	16.42	

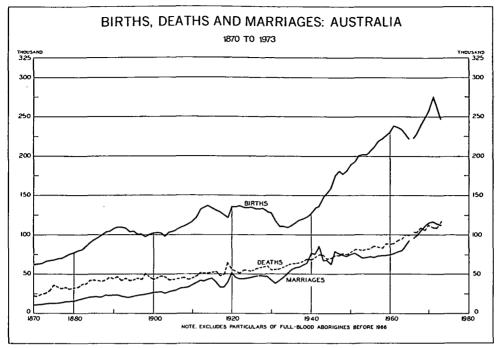


PLATE 25

Divorce and other matrimonial causes

The Matrimonial Causes Act 1959 came into operation on 1 February 1959, placing the divorce laws of all States and Territories on a uniform basis. Under this legislation a court may grant decrees of dissolution of marriage (divorce), nullity of marriage, judicial separation, restitution of conjugal rights, and jactitation of marriage (i.e., that a person should refrain from making a false claim that a marriage has taken place between him and another person). Orders may be made for maintenance, the custody and welfare of children, and settlement of property, and damages for adultery. The following statistics refer only to petitions for, and decrees of, dissolution, nullity, and judicial separation. A description of legislation governing divorce and other matrimonial causes in Australia is contained in Year Book No. 55, page 580.

Petitions filed

Statistics of petitions exclude cross-petitions contained in answers by respondents. The following table shows the number of petitions for dissolution of marriage, nullity of marriage, and judicial separation filed in each State and Territory during 1973.

PETITIONS FILED FOR DISSOLUTION, NULLITY, AND JUDICIAL SEPARATION, 1973

Petition for—				N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
Dissolution— By husband By wife	:	:	•	2,902 5,505	2,091 3,067	939 1,497	809 1,326	816 1,059	281 352	64 56	153 282	8,055 13,144
Total				8,407	5,158	2,436	2,135	1,875	633	120	435	21,199
Nullity— By husband By wife	:	:		7 18	6 9	1 6	2 5	2 	'i	'n	·i	18 41
Total				25	15	7	7	2	I	1	1	59
Dissolution or By husband By wife	nul	ity		2 2	1 5	1	2 3		••	••	••	6 10
Total				4	6	1	5					16
Judicial separa By husband By wife	tion	- :	:	iö	·i	· '	iż	1 2	·i			33
Total				10	1	7	12	3	1			34
All petitions— By husband By wife Grand to		per per	No. cent No. cent	2,911 34 5,535 66 8,446	2,098 41 3,082 59 5,180	941 38 1,510 62 2,451	813 38 1,346 62 2,159	819 44 1,061 56 1,88 0	281 44 354 56 635	64 53 57 47	153 35 283 65 436	8,080 38 13,228 62 21,308

Decrees granted

Statistics of decrees granted refer to decrees nisi made absolute except for the following cases, where no decree nisi is granted.

- (i) Decrees of judicial separation, which do not dissolve the marriage and may be discharged on resumption of cohabitation.
- (ii) Decrees of nullity of void marriage, as distinct from nullity of voidable marriage. A void marriage is invalid because of failure to meet a legal requirement, and the original decree of nullity is final. A valid marriage is voidable on proof of one or more of the grounds set out in Section 21 of the Matrimonial Causes Act 1959-1966, e.g. that either party is incapable of consummating the marriage.

The following tables show the number of dissolutions of marriage, nullities of marriage, and judicial separations granted in each State and Territory during 1973 classified according to petitioner, and the grounds on which decrees were granted during the years 1969 to 1973.

DECREES FOR DISSOLUTION, NULLITY, AND JUDICIAL SEPARATION, 1973

Decree of—			N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
Dissolution— To husband . To wife . To both .	:	:	2,606 4,770 20	1,200 1,991 9	665 1,029	585 997	630 794	186 257	48 38	91 179	6,011 10,055 29
Total .			7,396	3,200	1,694	1,582	1,424	443	86	270	16,095
Nullity— To husband . To wife			10 24	1 10	·;	2 4	2 2	'i	::	2 1	17 46
Total .			34	11	4	6	4	1		3	63
Judicial separation To husband . To wife	on		·.;	'i	·;			•••		••	· 7
Total .			4	1	2						7
All decrees— To husband .		No.	2,616 35	1,201 37	665 39	587 37	632 44	186 42	48 56	93 34	6,028 37
To wife	٠.	No.	4,798 65	2,002 62	1,035 61	1,001 63	796 56	258 58	38 44	180 66	10,108 63
To both . Grand tota	al.	No.	20 7,434	9 3,212	1,700	1,588	1,428	 444	86	273	29 16,165

DECREES FOR DISSOLUTION, NULLITY, AND JUDICIAL SEPARATION, GROUNDS: AUSTRALIA

Ground	1969	1970	1971	1972	197.
	DISSOL	UTION			
Single grounds—					
Desertion	4,730	5,098	5,076	5,814	5,89
Adultery	2,916	3,419	3,977	5,088	5,490
Separation	1,758	2,023	2,243	2,442	2,180
Cruelty Drunkenness	750 136	942 142	983 165	1,368 203	1,660 224
Intoxication by drugs	4	5	4	203 5	224
Non-compliance with resti-	•	,	•	,	•
tution decree	5	2	1	3	
Refusal to consummate .	32	42	29	39	41
Insanity	7	6	3	1	4
Frequent convictions	18	25	15	19	14
Imprisonment	3	3	8	7	
Other single grounds	15	15	20	19	16
Dual grounds-			0.5		
Desertion and adultery .	102	90	87	80	80
Desertion and separation . Desertion and cruelty	145 77	96 59	79 49	106 68	8: 7:
Desertion and drunkenness.	8	14	10	10	14
Desertion and failure to pay		17	10	10	1-
maintenance	5	3	6	2	3
Desertion and other	4	7	5	3	-
Adultery and separation .	3	4	3	7	
Adultery and cruelty	16	17	14	26	22
Adultery and other	2	2	1	3	3
Separation and other	2	3	.;;	3	1
Cruelty and drunkenness .	143	160	146	237	226
Cruelty and other Other dual grounds	7	5 1	1 8	3 6	3
Three grounds or more	39	15	14	22	27
Total	10,930	12,198	12,947	15,584	16,095
	NULI	LITY	 .		
Diagnu	14	15		9	. 15
Bigamy	14 1	15	23 1	3	1
Incapacity to consummate .	28	29	15	34	44
Other grounds	3	1	4	3	3
Total	46	45	43	49	63
шп	ICIAL SE	PARATIO	N		· •
Desertion	•:	٠:	1	• :	4
Adultery	1 5	3	2 5	2 1	2
Cruelty	2	3	4		i
_					
Total		<u></u>		3	
	ALL DE	CREES	·		
Grand total	10,984	12,249	13,002	15,636	16,155

Divorced persons at each census, 1921 to 1971

The following table shows the number and proportion of divorced persons in Australia as recorded from returns supplied at each census from 1921 to 1971. A classification of divorced persons by ages for the censuses from 1891 to 1947 appeared in earlier issues of the Year Book (see No. 39, page 269). The number of divorced persons at the 1911 Census is shown in Year Book No. 58, page 453. Before 1911 no record was made of divorced persons in South Australia, so comparisons cannot be made prior to that date.

DIVORCED PERSONS AT CENSUS DATES: AUSTRALIA, 1921 TO 1971

	Numbe	r					oer per of age			es or fe	r females 15						
Sex	1921	1933	1947	1954	1961	1966	1971	1921	1933	1947	1954	1961	1966	1971			
Males . Females .	4,233 4,304	10,298 10,888	25,052 27,516	32,389 36,650	38,640 43,339	42,908 51,174		23 24	42 46	89 96	100 115	105 119	105 125	136 157			

Births and fertility

Information concerning a birth is required to be supplied to the registration authority within 28 days in the Australian Capital Territory and the Northern Territory, and 60 days in the States.

Information is required in all States and Territories concerning what have been commonly known as 'stillbirths'. These are excluded from all the tables of births and deaths in this chapter and are included only in the special tables on stillbirths shown on pages 188-9.

Number of live births

Plate 25. page 175, compares the annual number of births, deaths and marriages. During the 1940s 1950s and 1960s annual births increased rapidly as fertility rose following the low birthrates of the depression years. The fall from 1961 to 1966 resulted from a steep decline in fertility. From 1966 to 1971 annual births rose as increasing numbers of young women reached marriageable age, but in 1972 and 1973 the numbers fell with a further decline in fertility.

LIVE BIRTHS(a)

Period	N.	S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust
Annual avera	age									
1946-50	. 6	8,856	47,372	28,003	16,270	13,130	7,064	289	734	181,718
1951-55	. 7	3,737	53,770	30,983	18,045	15,724	7,774	468	922	201,423
1956-60	. 7	9,613	61,279	34,171	19,977	16,922	8,517	694	1,286	222,459
1961-65	. 8	2,896	65,193	35,357	21,377	16,861	8,439	897	1,932	232,952
1966–70	. 8	2,560	68,755	35,378	21,310	19,426	7,979	2,134	2,783	240,325
Annual total										
1969	. 8	6,036	71,035	36,576	21,977	20,754	8,445	2,274	3,079	250,176
1970	. 8	8,448	73,019	37,530	22,617	21,618	8,185	2,624	3,475	257,516
1971	. 9	8,466	75,498	39,970	22,996	24,239	8,321	2,832	4,040	276,362
1972	. 9	5,278	71,807	39,251	21,844	22,177	7,824	2,722	4,066	264,969
1973	. 8	7,332	67,123	38,067	20,407	20,510	7,326	2,809	4,096	247,670

(a) Excludes particulars of full-blood Aborigines before 1966.

Masculinity of live births

There is a universal tendency for the number of male births to exceed female births usually by between 5 to 6 per cent. The masculinity of live births, is the number of males born for every 100 female births. When the number of births for which masculinity is being calculated is small (for example, totals for smaller States) considerable variation is shown. The following table shows the figures for Australia for each five year period from 1946 to 1970 and for each of the years 1969 to 1973.

MASCULINITY(a) OF LIVE BIRTHS REGISTERED: AUSTRALIA 1946-1973

	1946-50	1951–55	1956–60	1961–65	1966–70	1969	1970	9171	1972	1973
Total births .	105.60	105.19	105.65	105.83	105.41	105.22	105.12	104.34	105.47	105.19
Ex-nuptial births	104.46	103.36	104.49	106.88	105.11	103.95	106.96	106.05	106.38	104.69

⁽a) Number of males born for every 100 female births. Excludes particulars of full-blood Aborigines before 1966.

Crude birth rates

The simplest method of measuring fertility is to relate the number of births to the mean population, which gives 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. Other methods of measuring fertility are shown on pages 181-3. The difference between the crude birth rate and the crude death rate is the rate of natural increase (the hatched area in plate 26, page 180). In the past 100 years the crude birth rate has shown a general downward trend. From 1967 to 1971 there was a small upward movement, as a consequence of the increasing number of young women from the postwar baby boom reaching maturity. There was again a decline after 1971.

CRUDE BIRTH RATES(a	S(a)	ATE	RA	BIRTH	CRUDE
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Period		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust
Average										
annual rates	;									
1946-50		22.60	22.51	24.69	24.41	25.24	26.71	23.77	37.92	23.39
1951-55		21.78	22.42	24.11	23.25	25.37	25.58	29.37	32.22	22.86
1956-60		21.55	22.52	23.80	22.27	24.20	25.45	31.49	30.10	22.59
1961–65		20.49	21.42	22.49	21.11	21.71	23.41	29.30	26.31	21.34
1966-70		18.87	20.63	20.41	18.94	21.14	21.00	31.49	24.60	19.95
Annual rate	s									
1969		19.35	20.96	20.73	19.28	21.72	21.93	31.09	25.31	20.38
1970	-	19.52	21.16	20.90	19.52	21.74	21.09	33.09	26.36	20.55
1971		21.35	21.51	21.84	19.55	23.50	21.27	32.69	28.00	21.62
1972		20.39	20.20	20.95	18.37	20.99	19.90	29.23	25.68	20.39
1973	•	18.52	18.66	19.83	16.97	19.12	18.46	29.30	24.24	18.81

⁽a) Number of births per 1,000 of mean population. Excludes particulars of full-blood Aborigines before 1966.

The birth rates in the table above are based on live births registered in the respective States and Territories. Some confinements, however, take place in States other than the State in which the mother usually resides, particularly in areas near State borders. The variations thus caused in the birth rates for the States and Territories by referring the birth registrations to the mother's usual residence are shown by the following corrected rates for 1972—New South Wales, 20.46; Victoria, 20.17; Queensland, 20.84; South Australia, 18.29; Western Australia, 21.02; Tasmania, 20.00; Northern Territory, 30.16 and Australian Capital Territory, 25.23.

Fertility rates

Changes in the crude birth rate are in general indicative of changes in fertility. However they may result from changes in the proportion of women of childbearing age in the population. Changes in the proportion of such women who are married may also affect fertility and the crude birth rate.

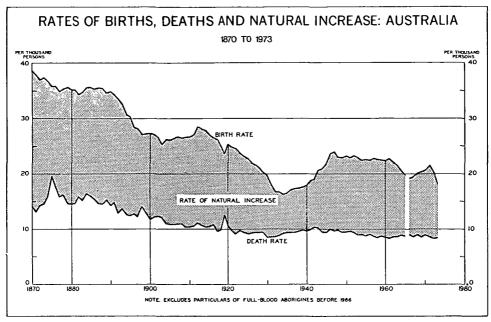


PLATE 26

The fertility rates in the following table are for the census years 1881 to 1971. The births for the three years around the census are related to women of childbearing age as enumerated at each census. Although the childbearing age has been taken to be 15-44 years, births to younger and older women are included in the computations. Nuptial births are related to married women aged 15-44 years to give married fertility rates.

Although married fertility fell by 58 per cent between 1880-82 and 1970-72, total fertility and the crude birth rate fell by only 41 per cent. The effect of a decline in the fertility of married women on total fertility and the crude birthrate is partly offset by an increase in the proportion of such women in the population. In 1881 only 51 per cent of females aged 15-44 were married but in 1966, 68 per cent were married. Also during this time births to unmarried women increased from 14 to 29 per thousand for single, widowed and divorced females aged 15-44.

CRUDE BIRTH RATES AND FERTILITY RATES: AUSTRALIA, 1880-82 TO 1970-72(a)

			Average annu	al rates		Index Nos (B	Base: 1880–82=	= 100)
				Fertility rate	5		Fertility rate	?5
Period			Crude birth rate(b)	Births per 1,000 women aged 15–44 years	Nuptial births per 1,000 married women aged 15-44 years	Crude birth rate(b)	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
189092			34.5	159	332	98	94	103
1900-02			27.2	117	235	7 7	69	. 73
1910-12			27.2	117	236	77	69	74
1920-22			25.0	107	197	71	63	61
1932-34			16.7	71	131	47	42	41
1946-48			23.6	104	160	67	61	50
1953-55			22.7	109	149	64	64	46
1960–62	•	•	22.5	112	154	64	66	48
1965-67			19.5	95	132	55	56	41
1970–72	•	•	20.8	100	134	59	59	42

⁽a) Excludes particulars of full-blood Aborigines before 1965-67. (b) Number of births per 1,000 of mean population,

Age-specific birth rates

Fertility within the childbearing group varies considerably, as may be seen from the five-year age-specific rates in the following table. These rates were obtained by dividing births according to age of mother by the estimated number of women in the corresponding five-year age group.

Total fertility is obtained by summing single age specific rates or by summing five-year age-specific rates and multiplying by 5. This total, divided by 1000, represents the hypothetical number of children a woman would bear during her lifetime if she experienced the rates of the year shown.

Since 1946, the fertility of younger women has increased, largely as a result of younger marriage, whereas fertility in the thirty and forty age groups has declined. Total fertility rose to a peak in 1961, of 3.4 children per woman, declined to 2.8 in 1967 and to 2.7 in 1972.

AGE-SPECIFIC BIRTH RATES(a): AUSTRALIA

		Age gro	up (years)						
Period		15-19	20-24	25–29	30-34	35–39	40-44	45-49	Total fertility
1946-50(b)	•	33.05	164.22	183.29	126.56	72.33	22.71	1.76	3.020
1951-55(b)		39.54	192.81	192.97	123.51	65.05	20.50	1.53	3.180
1956-60(b)		44.20	216.42	211.47	126.06	63.91	18.96	1.45	3.412
1961–65(b)	•	46.50	203.95	207.15	122.38	59.18	17.54	1.19	3.289
1966–70(<i>b</i>)		49.32	172.65	187.64	103.00	46.85	12.86	0.99	2.867
1968 .		48.99	173.65	189.94	103.01	46.43	12.87	1.05	2.880
1969 .		49.16	173.88	190.99	103.13	45.19	12.10	1.01	2.877
1970 .		51.13	171.99	188.63	101.24	44.29	11.69	0.78	2.849
1971 .		55.50	181.87	193.50	101.78	44.15	11.31	0.78	2.944
1972 .		54.44	168.66	181.65	94.03	38.87	10.01	0.74	2.742

⁽a) Number of births per 1,000 women in each age group. Excludes particulars of full-blood Aborigines before 1966. (b) Average annual rates.

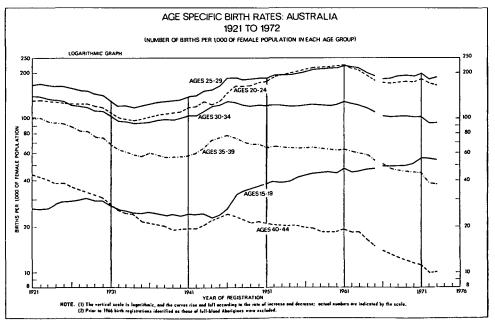


PLATE 27

Gross and net reproduction rates

The gross reproduction rate is derived from total fertility and the ratio of female to total births. It indicates the number of female children who would be born on average to women supposing the rates from which it was calculated were to apply throughout the reproductive period. It is an indication of the extent to which the population is reproducing itself except that it does not allow for females who failed to survive to the end of the childbearing period. The net reproduction rate allows for such mortality. It is obtained by multiplying the age-specific rates by the survivor proportions in the corresponding age group of the stationary or life table population. Mortality in childhood and young adulthood is now so low that there is little difference between current gross and net reproduction rates.

GROSS AND NET REPRODUCTION RATES(a): AUSTRALIA

Net reproduction rate	Gross production rate	rep		 Year	Net reproduction rate	Gross production rate	rep			Year
(e)1.359	1.402			1968	(b)1.416	1.494				1947
(e)1.359	1.402			1969	(c)1.499	1.559		. •		1954
(e)1.347	1.389			1970	(d)1.672	1.728				1961
(e)1.397	1.441			1971	(e)1.357	1.401				1966
(e)1.294	1.334			1972	(e)1.342	1.385				1967

⁽a) Excludes particulars of full-blood Aborigines before 1966. (b) 1946-1948 mortality experience used. (c) 1953-1955 mortality experience used. (d) 1960-1962 mortality experience used. (e) 1965-1967 mortality experience used.

In the following table a comparison is given of the gross and net reproduction rates recorded recently for various countries. The registration of vital events has not been fully established in many countries and consequently details for the calculation of reproduction rates for those countries are not available.

GROSS AND NET REPRODUCTION RATES: VARIOUS COUNTRIES
(Source: Population Index, April-June 1973, Office of Population Research, Princetown University)

		•			Reproduc rate	ctio n				Reproduc rate	tion
Country				Period	Gross	Net	Country		Period	Gross	Net
Panama	,			1970	2.49	2.25	England and Wales		1971	1.16	1.13
Mauritius	٠.	•	•	1968	2.24	1.98	United States of		10/0	1 20	1 10
Taiwan	•	•	٠	1970	1.94	1.84	America	٠	1968	1.20	1.16
Ireland	٠	•	•	1969	1.93	1.85	Italy	٠	1967	1.19	1.14
Israel .				1968	1.85	1.78	Yugoslavia		1969	1.17	1.09
Romania				1968	1.70	1.60	Canada		1971	1.05	1.03
Chile .				1967	1.89	1.66	Germany, Dem. Rep.		1967	1.14	1.10
Iceland				1967	1.59	1.55	Belgium		1969	1.09	1.06
New Zealan	ď	•	•	1970	1.49	1.45	Greece		1969	1.13	1.07
Australia	-	•	•	1971	1.44	1.40	Japan		1967	1.08	1.05
Scotland	•	•	•	1968	1.35	1.30	Germany, Fed. Rep.	•	1969	1.07	1.03
	•	•	•	1968	1.32	1.29	Czechoslovakia .	•	1970	1.01	0.97
Netherlands	•	•	•					•			
Norway	•	•	٠	1971	1.22	1.19	Denmark	•	1970	0.95	0.93
Portugal		•		1967	1.39	1.25	Hungary		1969	0.98	0.93
France				1969	1.23	1.20	Sweden		1970	0.94	0.92
Austria				1971	1.08	1.04	Finland		1969	0.90	0.86

Fertility of marriages

Estimates of the fertility of marriages may be made by relating nuptial births in each year to the marriages from which they could have resulted. Births to women of a certain number of years duration of marriage are related to the number of marriages taking place that number of years previously and the resulting rates are added to give a total for all durations, namely, the index of current marriage fertility.

The figure for a particular year gives the estimated number of children which a thousand marriages would produce according to the fertility conditions of that year.

Births are omitted from the calculation if the marriage did not take place in Australia. Births which occur overseas to Australian marriages cannot be included and hence some understatement is present.

The following table gives an analysis of the index, shown in the total column, according to duration of marriage, expressing the results as births per thousand marriages.

DURATION-SPECIFIC FERTILITY RATES(a): AUSTRALIA

			Duration	of marri	age (year	s)							
Births occurring	in-	_	Under I	1	2	3	4	Total under 5	5-9	10-14	15-19	20 and over	Total
1962	:	:	 382 403 389 384 368 341	322 332 318 307 288 275	317 328 324 318 296 287	288 290 290 288 275 261	249 254 247 241 231 222	1,558 1,607 1,568 1,538 1,458 1,386	772 789 781 756 712 662	302 314 308 302 283 260	100 106 101 105 99 90	25 26 22 24 21 19	2,757 2,842 2,780 2,725 2,573 2,417
1967			 324 308 308 290 278 282 257	258 251 247 246 236 240 220	282 273 280 279 275 279 260	260 268 267 270 262 270 258	215 222 235 231 231 235 225	1,339 1,322 1,337 1,316 1,282 1,306 1,220	633 648 668 688 675 694 638	238 239 234 233 230 231 203	84 80 79 75 75 75 64	19 18 17 17 16 15	2,318 2,307 2,335 2,329 2,278 2,321 2,140

(a) Number of births per thousand marriages. From 1966 includes births of Aborigines where parents were legally married and excludes births of tribal marriages.

The summation of duration-specific rates for a particular year without reference to changing patterns in age at marriage or age of parents contributes to the hypothetical nature of the index. It is more satisfactory, therefore, to express the rates in cohort form by following the experience of marriages of a particular year cumulated over successive durations of marriage.

Since the fertile period of a marriage has a duration of up to some thirty years, completed fertility can only be determined with certainty for marriages occurring before 1940. Fortunately, because of the concentration of births in the early years of marriage the ultimate level of fertility and the size of family can be assessed with a fair degree of precision by the end of the fifteenth year. The most recent cohort to reach this duration was that of 1957-58.

To determine the relevant marriage cohorts from which births can have derived, a system of quarterly weights is applied. Births in 1969 to marriages in their third year, for example, could have arisen from marriages in any one of the eight quarters of 1966 and 1967. Proportions of the marriages in each of these quarters, namely $\frac{1}{8}$, $\frac{3}{8}$, $\frac{7}{8}$, and $\frac{1}{8}$ respectively, are summed to arrive at the total marriages in the 1966–67 cohort. This method is applied to all marriages of completed durations three or more years. The first two years of marriage are weighted on a monthly basis.

CUMULATED DURATION-SPECIFIC FERTILITY RATES, MARRIAGE COHORTS(a), AUSTRALIA

36			Complet	ted duration	of marriage	(years)			
Marriage: year	s oj		1	2	3	4	5	10	15
1955-56	•	•	352	674	983	1,262	1,511	2,262	2,497
1956-57			367	685	1,001	1,289	1,543	2,262	2,495
1957-58			365	684	1,001	1,291	1,538	2,219	2,441
1958-59			379	701	1,029	1,319	1,560	2,216	
1959-60			382	714	1,038	1,326	1,557	2,210	
1960-61			403	721	1,039	1,314	1,536	2,194	
1961-62			389	696	992	1,253	1,468	2,125	
1962-63			384	672	959	1,219	1,441	2,109	
1963-64			368	643	925	1,193	1,428	·	
1964-65			341	599	872	1,139	1,370		
1965-66			324	575	855	1,125	1,356		
1966-67			308	555	834	1,096	1,331		
1967-68			308	554	829	1,099	1,324		
1968-69			290	526	805	1,063	·		
1969-70			278	518	778				
1970-71			282	502					
1971-72	•	•	257	• •		••		• •	

⁽a) Cumulated number of births per thousand marriages. From 1966 includes births of Aborigines where parents were legally married and excludes births of tribal marriages.

A more detailed analysis of the figures in the above table and of earlier cohorts has been made by tabulating the number of births within each duration of marriage which were first, second, third or subsequent births to the marriages under consideration. Details then derived of relative family size at each duration of marriage have enabled the computation of duration-parity-specific fertility rates.

Ex-nuptial live births

A birth is registered as ex-nuptial if the parents were not married to one another at the time of the confinement. Births to tribally-married Aborigines are classified as nuptial. Ex-nuptial births have been increasing and in 1972 they comprised 9.68 per cent of all births. The variations in the proportions of ex-nuptial live births as between the individual States and Territories for 1972 and for Australia at intervals from 1946 to 1972 are shown in the following tables. The high ex-nuptial birth rate for the Northern Territory is due in part to difficulties in identifying births where parents were tribally married. It is suspected that a substantial number of ex-nuptial births for the Northern Territory are in fact births to women adhering to tribal marriage systems.

EX-NUPTIAL LIVE BIRTHS: NUMBER AND PROPORTION, 1972

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
Number Proportion of	9,766	5,001	5,185	1,803	2,632	695	356	221	25,659
total births	10.25	6.96	13.21	8.25	11.87	8.88	13.08	5.44	9.68

EX-NUPTIAL LIVE BIRTHS: NUMBERS, PROPORTION AND RATES(a): AUSTRALIA

	Annual a	verage								
	1946-50	1951-55	1956-60	1961-65	1966-70	1968	1969	1970	1971	1972
Number Rates(b) Proportion of total	7,349 0.95	7,999 0.91	10,027 1.02	13,798 1.25	18,937 1.57	19,171 1.60	19,585 1.60	21,367 1.71	25,629 2.01	25,659 1.97
births%	4.04	3.97	4.51	5.92	7.88	7.96	7.83	8.30	9.27	9.68

⁽a) Excludes particulars of full-blood Aborigines before 1966. (b) Number of ex-nuptial births per 1,000 of mean population.

A further measure of ex-nuptiality is obtained by calculating the number of ex-nuptial births per thousand of the single, widowed and divorced female population aged from 15 to 44 years. On this basis, the number of ex-nuptial births per 1,000 unmarried women of ages 15 to 44 is as follows: 1946-48, 11.45; 1953-55, 14.45; 1960-62, 18.49; 1965-67, 20.96; and 1970-72, 28.59. Ex-nuptial births to married women, which are not recorded separately, are included in these figures and it is not possible to determine to what extent they influence the trend shown.

Legitimations

Under the provisions of the Commonwealth Marriage Act 1961-1966, which came into operation on 1 September 1963, a child whose parents were not married to each other at the time of its birth becomes legitimised on the subsequent marriage of its parents. The legitimation takes place whether or not there was a legal impediment to the marriage of the parents at the time of the child's birth and whether or not the child was still living at the time of the marriage, or in the case of a child born before 1 September 1963, at that date. Prior to the introduction of this Act, legitimations took place under Acts passed in the several States to legitimise 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 came within the scope of their purposes, born before or after the passing thereof, was deemed to be legitimate from birth by the post-natal union of its parents and entitled to the status of offspring born in wedlock. The number of children legitimised in Australia during 1972 was 3,800.

Multiple births

Because the current Australian birth statistics are based only on those confinements which resulted in a live-born child, the number of confinements for multiple births for Australia is understated—firstly, because in cases where all children of a multiple birth are stillborn the confinement is excluded, and secondly, because some cases of multiple births in which only one child was live-born are registered as single births.

Number of confinements

The following table shows the number of single and multiple confinements and the number of live births. The table includes only those confinements resulting in at least one live birth.

LIVE	SHTGIG	AND	CONFINEMENTS	1072

	N	.s.w.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
				LI	E BIRT	HS				
Single births Twins . Other	•	93,358 1,891	70,258 1,535	38,547 689	21,459 382	21,763 411	7,667 154	2,686 33	3,981 82	259,719 5,177
multiple		29	14	15	3	3	3	3	3	73
Total		95,278	71,807	39,251	21,844	22,177	7,824	2,722	4,066	264,969
Of which— Males Females	•	48,928 46,350	36,842 34,965	20,128 19,123	11,299 10,545	11,337	3,935 3,889	1,433 1,289	2,107 1,959	136,009 128,960
STI	LLB	IRTHS	ASSOCIA	TED WI	TH MUL	TIPLE B	IRTHS IN	CLUDED	ABOVE	
Twins . Other	•	29	7	15	• •	9	2	3	2	67
multiple		2	1	••					••	3
	C	ONFI	NEMENTS	RESULT	ING IN	BIRTHS	SHOWN	ABOVE		
Nuptial		84,669	66,087	33,766	19,860	19,359	7,058	2,352	3,804	236,955
Ex-nuptial		9,659	4,947	5,138	1,791	2,615	688	353	220	25,411
Total		94,328	71,034	38,904	21,651	21,974	7,746	2,705	4,024	262,366

Note. Owing to the registration procedure adopted in some States, it is possible that in some cases where one child only of a multiple pregnancy was liveborn, the confinement has been treated as a single birth. However, the numbers of multiple births are not significantly affected. See also page 187.

Multiple births recorded during 1972 comprised 2,622 cases of twins, 24 cases of triplets, and one case of other multiple births the resulting number of live-born and stillborn children respectively 5,177 and 67 for twins, 70 and 2 for triplets, 3 and 1 for other multiple births. This represents an average of 9.99 recorded cases of twins and 0.09 recorded cases of triplets per 1,000 confinements or, alternatively, mothers of twins represented 1 in every 100 mothers and mothers of triplets 1 in every 10,932. Total cases of multiple births represented 10.09 per 1,000 confinements or 1 in every 99 mothers.

Confinements-relative ages of parents

The relative ages of the parents of children whose births were registered in 1972 have been tabulated separately for total nuptial and ex-nuptial confinements and for nuptial multiple confinements in *Births*, 1972 (4.4).

CONFINEMENTS, BY RELATIVE AGES OF PARENTS: AUSTRALIA, 1972

						Age of	mother (years)							
Age of	fathe	r (y	ears)			Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 and over	Not stated	Total
Under	20 .					6	3,771	580	14	2				1	4,374
20-24						7	12,901	33.847	3,537	191	21	4	1		50,509
25-29						3	2,479	38,590	42,979	3,195	254	24	4	1	87,529
30-34			-			3	387	7,216	28,827	16,655	1,423	94	3	1	54,609
35-39							87	1,294	6.199	10,845	5,460	431	11		21,327
40-44							14	302	1,347	3,352	4,163	1,561	41	2	10,782
45-49			-	-		2	16	95	337	727	1,212	981	130		3,500
50-54					-	ī	4	30	93	185	247	242	38		840
55-59			•				4	12	33	62	74	48	18		251
60-64							4	ĩ	15	17	19	18	5		79
65 and	over	(a)			Ċ	5	29	44	15	24	14	14	4	6	155
	Total	nup	tial			27	19,696	82,011	83,396	35,255	12,887	3,417	255	11	236,955
	Total	ex-	nupti	al.		146	10,366	7,908	3,846	1,858	958	288	28	13	25,411
	Total	1				173	30,062	89,919	87,242	37,113	13,845	3,705	283	24	262,366

Confinements—relative countries of birth of parents

The following table shows the relative countries of birth of parents of children whose births from nuptial confinements were registered during 1972.

NUPTIAL CONFINEMENTS, BY RELATIVE COUNTRIES OF BIRTH OF PARENTS AUSTRALIA, 1972

	Country	of birth o	of mother									
Country of birth of father	Aus- tralia	New Zea- land	United King- dom and Ireland	Ger- many	Greece	Italy	Malta	Nether- lands	Yugo- slavia	Other Euro- pean	Other and un- speci- fied	Total fathers
Australia	151,169	858	8,223	1,480	140	526	389	1,478	134	739	1,745	166,881
New Zealand	1,052	590	127	19		3	4	21	2	19	46	1,883
United Kingdom and												
Ireland	10,554	201	8,996	215	17	56	98	204	13	181	498	21,033
Germany	1,957	20	279	693	6	30	27	62	26	153	110	3,363
Greece	465	6	40	19	6,474	24	6	5	26 23	37	182	7,281
Italy	2,239	20	237	95	39	7,760	70	64	43	109	156	10,832
Malta	684	4	111	25	2	13	1,560	24	4	7	30	2,464
Netherlands	2,172	24	259	73	4	14	22	954	8	49	94	3,673
Yugoslavia	649	5	83	118	68	98	17	30	4,373	123	47	5,611
Other European .	1,706	45	298	259	50	49	19		72	1.884	183	4,636
Other and unspecified	2,438	76	455	96	163	69	27	91	24	143	5,716	9,298
Total mothers	175,085	1,849	19,108	3,092	6,963	8,642	2,239	3,004	4,722	3,444	8,807	236,955

Confinements—age, duration of marriage and issue of mothers

The total number of nuptial confinements resulting in live births in 1972 was 236,955, comprising 234,563 single births, 2,370 cases of twins, 21 cases of triplets, one case of other multiple births. The following tables relating to previous issue exclude the issue of former marriages and stillborn children. On the other hand, they include in some States children by the same father who were born to the mother prior to the marriage. Children born at the present confinement are included in the calculation of average issue shown.

The following table shows that in 1972 the average size of family increased fairly uniformly with the duration of the marriage. However, the average issue relates only to those women who gave birth in 1972. The table should not be interpreted to mean that, for example, *all* women who have been married for over ten years have an average of more than four children or those married twenty years, six children. The average issue of all married mothers who bore children in 1972 was 2.17 compared with 2.22 in 1971, 2.27 in 1970, 2.30 in 1969, and 2.34 in 1968.

NUPTIAL CONFINEMENTS BY DURATION OF MARRIAGE, AND AVERAGE ISSUE OF MOTHERS AUSTRALIA, 1972

Duration of n	narria	ge			otal nuptial onfinements	Average issue of mother
Under 1 year					30,696	1.03
1 year .					27,537	1.23
2 years .					31,655	1.54
					30,337	1.79
3 ,, . 4 ,, . 5 ,, . 6 ,, . 7 ,, .					25,021	2.05
5 ,, .					19,966	2.32
6 ,, .					16,285	2.60
7 ,,	·				12,413	2.88
8 ,, .	•	•	·		9,353	3.16
0	•	·	•	•	7,055	3.40
,, . 10-14 years	•	•	•	•	18,553	4.00
15-19 ,,	•	:	•	•	5,999	5.11
20-24 ,,	•	•	•	•	1,368	6.45
25 years and	over	•	•		101	7.68
Not stated		·	:	:	616	3.41
Total					236,955	2.17

NUPTIAL CONFINEMENTS, BY AGE OF MOTHER AND PREVIOUS ISSUE AUSTRALIA, 1972

					Age of	mother (years)		•				
Pr	Previous issue		e		Under 20	20–24	25-29	30-34	35–39	40-44	45 and over	Not stated	Total married mothers
0					16,246	43,163	24,936	5,407	1.567	330	29	5	91,683
1					3,219	29,015	31,517	8,686	2,096	441	20	2	74,996
2					242	7,715	17,963	9,901	2,712	537	21	1	39,092
3					14	1,689	6,194	6,222	2,500	528	30		17,177
4					2	347	1,887	2,853	1,567	435	29	2	7,122
5						67	618	1,200	1,025	365	27	••	3,302
6						14	185	539	651	252	26		1,667
7						1	80	249	342	192	29		893
8							15	121	202	131	11		480
9	and	over					1	77	225	206	33	1	543
		Total mo	marr thers	ied	19,723	82,011	83,396	35,255	12,887	3,417	255	11	236,955

Multiple births-previous issue of mothers

Of married mothers of twins in 1972, 732 had no previous issue either living or dead, 767 had one child previously, 438 had two previous issue, 230 three, 100 four, 51 five, 26 six, 12 seven, 5 eight, and 9 had previous issue of nine or more. Of the 21 cases of nuptial triplets, and one case of other multiple births registered during 1972, 8 mothers had no previous issue, 6 had one, 1 had two, 4 had three and 3 had six previous issue.

Nuptial first births

A nuptial first birth is defined as the first birth to the existing marriage. About two-thirds of first births occur to women aged under 25, and over half occur within the first two years of marriage (in 1972, 35 per cent in the first and 24 per cent in the second year).

The following table shows the number of nuptial first births classified by grouped ages of mothers and grouped durations of marriage of mothers.

NUPTIAL FIRST BIRTHS, BY AGE OF MOTHER AND DURATION OF MARRIAGE AUSTRALIA, 1972

	Age of	mother (ye	ars)						
Duration of marriage	Under 20	20-24	25-29	30-34	35-39	40–44	45 and over	Not stated	Total
Under 8 months	11,807	7,649	1,322	422	126	35	4	1	21,366
8 months	338	831	273	101	39	2	• •		1,584
9 "	523	1,339	463	176	42	11	2	• •	2,556
10 ,	443	1,252	434	135	58	7	• •		2,329
11 ,,	383	1,167	395	146	50	11	1	• •	2,153
Total under 1 year .	13,494	12,238	2,887	980	315	66	7	1	29,988
1 year and under 2 years .	2,230	13,408	4,417	1,151	391	79	5		21,681
2 years ,, ,, 3 ,, .	358	9,909	4,753	779	195	44	3		16,041
3,, ,, ,, 4,, .	48	5,166	4,651	580	140	28	3		10,616
4 ,, ,, ,, 5 ,, .	6	1,746	3,583	394	77	18	1		5,825
5 ,, ,, ,, 10 ,, .	1	656	4,563	1,158	225	35	4	1	6,643
10 ,, ,, 15 ,,		1	69	339	126	23	2		560
15 years and over				14	90	33	2	• •	139
Not stated	109	39	13	12	8	4	2	3	190
Total	16,246	43,163	24,936	5,407	1,567	330	29	5	91,683

The following table shows for nuptial confinements, a comparison between the numbers of mothers having their first confinement and those having a subsequent confinement.

NUPTIAL FIRST BIRTHS AND SUBSEQUENT CONFINEMENTS(a)
AUSTRALIA

				Nuptial co	Proportion of first to total nuptial confinements		
Period			First	Other	Total	(per cent)	
Annual av	erag	e—					
1946-50				63,413	109,044	172,457	36.77
1951-55				63,062	128,176	191,238	32.98
1956-60	٠.			65,695	144,352	210,047	31.28
1961–65	•	•	•	69,280	147,549	216,829	31.95
1966-70				81,103	138,000	219,103	37.02
Annual to	tal—	-					
1968				81,341	138,124	219,465	37.06
1969			•	85,650	142,539	228,189	37.53
1970				88,412	145,227	233,639	37.84
1971				95,418	152,820	248,238	38.44
1972				91,683	145,272	236,955	38.69

(a) Excludes particulars of full-blood Aborigines before 1966.

Stillbirths

For 1972, statistics of stillbirths have been compiled on the basis of amended legislation which provides for all foetal deaths of at least twenty weeks gestation (or 400 grammes weight) to be registered. The dates on which the legislation came into effect for each State are as follows: New South Wales, January 1969; Victoria, May 1971; Queensland, October 1967; South Australia, January 1968; Western Australia, January 1968; Tasmania, March 1967; Northern Territory, September 1964; Australian Capital Territory, September 1969. Comparisons of the figures and rates prior to 1972 are affected by the differences in the definitions adopted by the various states.

STILLBIRTHS(a)

Period				N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust
Annual a	verag	е—										
1946-50	0.			1,405	949	626	368	274	161	n.a.	12	(b)3,795
1951-5	5.			1,239	849	581	290	271	139	8	16	3,393
1956-6	0.			1,253	839	558	274	235	109	6	19	3,293
1961-6	5.	•	•	1,104	794	468	264	194	87	17	18	2,946
1966–7	0.	•		876	767	341	215	192	86	(c)39	27	2,543
Annual to	otal—	-										
1968				806	734	318	217	183	79	(c)39	26	2,402
1969				857	761	295	208	203	79	(c)35	26	2,464
1970				888	782	312	200	211	80	(c)30	29	2,532
1971				893	760	329	199	206	67	(c)24	41	2,519
1972				1,151	842	429	229	258	88	(c)44	48	3,089

⁽a) Excludes particulars of full-blood Aborigines before 1966. (b) Excludes Northern Territory. (c) Figures from 1966 include foetal deaths occurring in remote localities for which the period of gestation was not known. The numbers of such cases were: 1968, 13; 1969, 13; 1970, 14; 1971, 3; 1972, 11. The Registration Ordinance requires registration of any foetal death of at least twenty weeks gestation.

PROPORTION OF STILLBIRTHS(a)

Period			N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
Average	annua	l rate	 								
1946-5	0.		20.0	19.6	21.9	22.1	20.5	22.3	n.a.	16.3	(b)20.5
1951-5	5.		16.5	15.5	18.4	15.8	17.0	17.5	17.2	17.1	16.6
1956-6	0.		15.5	13.5	16.1	13.5	13.7	12.6	8.6	14.3	14.6
1961–6	5.	•	13.1	12.0	13.1	12.2	11.4	10.2	18.4	9.3	12.5
1966–7	0.		10.5	11.0	9.5	10.0	9.8	10.7	18.3	9.7	10.5
Annual r	ate—										
1968			9.8	10.3	9.0	10.1	9.3	9.4	18.4	9.7	9.9
1969			9.9	10.6	8.0	9.4	9.7	9.3	15.2	8.4	9.8
1970			9.9	10.6	8.2	8.8	9.7	9.7	11.3	8.3	9.7
1971		•	9.0	10.0	8.2	8.6	8.4	7.9	8.4	10.0	9.0
1972			11.9	11.6	10.8	10.4	11.5	11.1	15.9	11.7	11.5

⁽a) Number of stillbirths per 1,000 of all births (live and still). Excludes particulars of full-blood Aborigines before 1966. (b) Excludes Northern Territory.

Note. Because of the smallness of the numbers of stillbirths occurring in the Australian Capital Territory and the Northern Territory the rates for these Territories are subject to considerable fluctuation.

Mortality

This section contains statistics of general mortality and infant mortality. Statistics of foetal deaths (stillbirths) are shown separately in the preceding section. For the registration of a death the period allowed is 8 days in Tasmania, 14 days in South Australia, Western Australia, Australian Capital Territory, and Northern Territory, 21 days in Victoria, and 30 days in New South Wales and Queensland.

Number of deaths

The following table shows the number of deaths registered in each State and Territory. Stillbirths, although registered as both births and deaths in some States are excluded from the death statistics.

THS	

Period		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust
Annual average										
1946-50(b)		29,552	21,827	10,357	6,507	4,802	2,459	76	103	75,683
1951-55 .		32,135	22,900	11,187	7,182	5,263	2,576	109	131	81,483
1956-60 .		34,002	24,254	12,008	7,732	5,523	2,668	117	184	86,488
1961–65 .	•	37,514	26,569	13,570	8,388	6,043	2,939	152	290	95.465
1966–70 .	•	41,249	29,265	15,711	9,562	7,208	3,231	540	497	107,263
Annual total—										
1969 .		40,665	28,976	15,786	9,337	7,350	3,309	485	588	106,496
1970 .		43,601	30,335	17,055	10,138	7,543	3,174	608	594	113,048
1971 .		41,691	30,598	16,339	9,686	7,806	3,295	637	598	110,650
1972 .		41,652	29,856	16,598	9,764	7,441	3,227	553	669	109,760
1973			•	•	•	•	,			•
Males .		22,663	16,562	9,633	5,501	4,586	1,894	375	374	61,588
Females		18,459	14,134	7,099	4,334	3,259	1,453	205	291	49,234
Persons		41,122	30,696	16,732	9,835	7,845	3,347	580	665	110,882

⁽a) Excludes particulars of full-blood Aborigines before 1966. (b) Excludes deaths of defence personnel and of internees and prisoners of war from overseas for the period September 1939 to June 1947.

Note. Annual averages for each five-year period from 1861 to 1950 were published in Year Book No. 39, page 597.

Crude death rates

The simplest method of measuring mortality is to relate the number of deaths for a given period to the mean population for that period, which gives the crude death rate. This rate for a given period measures the number per thousand of population by which the population is depleted through deaths during that period.

CRUDE DEATH RATES(a)

Period				N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
Average a	nnual	rate	_									
1946-5	O(b)			9.70	10.37	9.13	9.76	9.23	9.30	6.27	5.31	9.74
1951-5	5 .			9.49	9.55	8.71	9.25	8.49	8.48	6.86	4.58	9.25
19566	ο.			9.20	8.91	8.36	8.62	7.90	7.97	5.32	4.31	8.78
1961-6	5.	•	•	9.27	8.73	8.63	8.28	7.78	8.15	4.95	3.94	8.75
1966-7	0.			9.43	8.78	9.07	8.50	7.84	8.50	7.97	4.40	8.90
Annual r	ate—											
1969				9.15	8.55	8.95	8.19	7.69	8.59	6.63	4.83	8.68
1970				9.62	8.79	9.50	8.75	7.59	8.18	7.67	4.51	9.02
1971				9.04	8.72	8.93	8.23	7.57	8.42	7.37	4.15	8.66
1972			•	8.91	8.39	8.86	8.21	7.04	8.21	6.04	4.26	8.45
1973—												
Males				9.60	9.22	9.96	9.18	8.36	9.51	7.20	4.32	9.32
Female	s.		•	7.84	7.85	7.46	7.18	6.22	7.35	4.68	3.53	7.51
Pe	rsons	•		8.72	8.53	8.72	8.18	7.31	8.43	6.05	3.93	8.42

⁽a) Number of deaths per 1,000 of mean population. Excludes particulars of full-blood Aborigines before 1966. (b) Excludes deaths of defence personnel, etc., from September 1939 to June 1947.

A graph showing the crude death rate for each year from 1870 to 1973 is shown on plate 26 page 180.

The crude death rate is affected by the particular sex and age composition of the population. While it is an element in the rate of natural increase of the population it cannot validly be used to compare the relative incidence of mortality in different populations. The crude death rate will tend to be low if the community contains a large proportion of young people and high if the population is elderly. Age specific death rates and true death rates are a guide to comparative mortality.

True death rates

A composite measure of mortality unaffected by the age structure of the population can be obtained from life tables. The basic life table functions include expectation of life remaining at each year of age. The reciprocal of the expectation of life at birth is known as the true death rate, since, if the expectation of life of a person at birth is say, fifty years, then each person will on the average die fifty years after birth, so that in a stationary population one person in fifty or twenty 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 mortality from each year of age to the next. The next table sets out true death rates for the periods covered by Australian life tables.

TRUE DEATH RATES: AUSTRALIA

			True death	rate(a)
Period		_	Males(b)	Females(c)
1946-48			15.14	14.16
1953-55			14.89	13.75
1960-62			14.72	13.48
1965–67			14.79	13.49
1968 .	•		 14.82	13.48
1969 .			14.81	13.40
1970 .			14.84	13.49
1971 .			14.72	13.42
1972 .			14.66	13.34

(a) Excludes particulars of full-blood Aborigines before 1965-67. (b) Number of deaths per 1,000 males in stationary population. (c) Number of deaths per 1,000 females in stationary population.

The crude death rates and the true death rates of Australia and the more populous countries of the world for the latest available year are shown in the table in International Vital Statistics at the end of this chapter.

Australian Life Tables

It has been the practice at each census from 1911 onwards to prepare complete life tables representative of the mortality experience of Australia. The mortality of the Australian population for the thirty years from 1881 to 1910 inclusive was investigated in 1911 by the Commonwealth Statistician. Tables were compiled for each State and for Australia as a whole in respect of each sex for each of the decennial periods 1881–90, 1891–1900 and 1901–10. These compilations furnished a comprehensive view of Australian mortality in respect of sex, time, and geographical distribution, and practically superseded all life tables prepared in Australia prior to 1911. For subsequent censuses the official life tables have been prepared only for Australia as a whole. They have been based upon recorded census population and the deaths of the three years around the census. The 1965–67 life tables included particulars of Aborigines for the first time. The 1920–22 life tables were prepared by the Commonwealth Statistician, those of 1932–34, 1946–48, 1953–55, 1960–62 and 1965–67 by the Commonwealth Actuary. Full particulars of the data used and the methods of construction are to be found in the reports of the Commonwealth Actuary.

COMPLETE EXPECTATION OF LIFE (ex) AT SELECTED AGES

		Males				Females			
Age ((x)	1901–10	1953–55	1960-62 19	065-67(a)	1901-10	1953-55	1960-62	965-67(a)
0		55.20	67.14	67.92	67.63	58.84	72.75	74.18	74.15
10		53.53	59.53	59.93	59.50	56.38	64.78	65.92	65.75
20		44.74	50.10	50.40	49.98	47.52	55.06	56.16	56.00
30		36.52	40.90	41.12	40.72	39.33	45.43	46.49	46.34
40		28.56	31.65	31.84	31.44	31.47	35.99	36.99	36.85
50		21.16	22.92	23.13	22.76	23.69	27.03	27.92	27.83
60		14.35	15.47	15.60	15.27	16.20	18.78	19.51	19.52
70		8.67	9.59	9.77	9.52	9.96	11.62	12.19	12.23
80		4.96	5.47	5.57	5.51	5.73	6.30	6.68	6.72

(a) Includes particulars of full-blood Aborigines.

Note. $e_x = \text{complete expectation of life at specified ages.}$

The progress towards lower mortality rates evident over the past sixty years or more, did not continue in the 1960s. Expectation of life at birth was slightly less in 1965-67 than in 1960-62 for both males and females. The detailed 1965-67 life tables show that lower mortality rates were experienced only at ages 0-14, 28-32 and over 88 for males and at ages 0-13 and over 72 for females.

Age distribution at death

Age at death is recorded for statistical purposes in days for the first week of life, in weeks for the first four weeks, in months for the first year and in completed years of life thereafter. These ages are usually combined in groups for publication, the most common being weeks for the first four weeks, months or groups of months for the first year, single years of age for the first five years, and thereafter the five-year groups 5-9 years, 10-14 years, etc. A summary in this form is given for Australia in the following table.

DEATHS, BY AGE AT DEATH AND SEX: AUSTRALIA, 1972

Age at death	Males	Fe- males	Per- sons	Age at death	Males	Fe- males	Per- sons
Under 1 week	1,704	1,174	2,878	5- 9 years .	272	192	464
1 week and under 2 weeks	66	75	141	10–14 ,,	261	158	419
2 weeks and under 3 weeks .	46	43	89	15–19 "	860	305	1,165
3 weeks and under 4 weeks .	33	34	67	20–24 ,,	968	315	1,283
				25-29 ,,	646	299	945
Total under 4 weeks	1,849	1,326	3,175	30–34 ,,	613	348	961
				35–39 ,,	834	465	1,299
			'	40–44 ,,	1,396	810	2,206
4 weeks and under 3 months .	269	187	456	45–49 ,,	2,436	1,353	3,789
3 months and under 6 months .	267	183	450	50-54 ,,	3,333	1,860	5,193
6 months and under 12 months.	192	157	349	55–59 ,,	4,927	2,568	7,495
				60-64 ,,	6,734	3,343	10,077
Total under 1 year	2,577	1,853	4,430	65–69 ,,	7,694	4,256	11,950
•				70–74 ,,	8,233	5,859	14,092
1 year	198	165	363	75–79 ,,	7,524	7,433	14,957
2 years	129	87	216	80-84 ,, .	6,272	7,962	14,234
3,	104	60	164	85 years and over	5,022	8,885	13,907
4 ,,	74	66	140	Age not stated .	9	2	11
Total under 5 years	3,082	2,231	5,313	Total all ages .	61,116	48,644	109,760

There are different mortality rates at various stages of life, and the actual number of deaths in any period is related to the numbers living at the respective stages. Changes in the number of deaths from one period to another are associated with changes in the rate of mortality in the various age groups and by the changed proportions of persons living in the different groups. The combined effect of various influences, i.e. the decline in the rate of mortality, the long term decline in the birthrate, and the effects of past and present migration on the age distribution of the population, is shown in the following table, which shows the proportion of deaths in various age groups in five-year periods and for the latest available year.

PROPORTION OF DEATHS IN EACH AGE GROUP: AUSTRALIA
(Per cent)

4							1972		
Age at death (years)		 1946–50	1951–55	1956-60	1961-65	1966-70	Males	Females	Persons
Under 1 year		6.48	5.77	5.41	4.74	4.06	4.22	3.81	4.04
1- 4 years		1.46	1.48	1.19	0.96	0.81	0.83	0.78	0.80
5-19 ,,		1.89	1.85	1.76	1.76	1.83	2.28	1.35	1.87
20-39 ,,		5.69	5.18	4.64	4.26	4.12	5.01	2.93	4.09
40-59 ,,		18.72	17.54	17.02	17.28	17.37	19.79	13.55	17.02
60-64 ,,		9.61	9.63	8.75	8.74	8.87	11.02	6.87	9.18
65 and over		56.12	58.52	61.20	62.24	62.92	56.85	70.71	62.99
Age not state	đ.	0.03	0.03	0.03	0.02	0.02	0.01	0.00	0.01
Total		100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

(a) Excludes particulars of full-blood Aborigines before 1966.

A table showing these proportions for males and females separately for the period 1901 to 1950 was published in Year Book No. 39, page 614.

Age-specific death rates

In previous issues of the Year Book, average annual age-specific death rates, i.e. the average number of deaths per 1,000 of population in each age group, were given for each State and Australia for the periods 1932–1934, 1946–1948, 1953–1955, 1960–1962 and 1965–1967 (see Year Books, No. 37, pp. 778–9, No. 39, pp. 615–6, No. 44, pp. 640–1, No. 52, p. 253, and No. 55, p. 189). These rates were based on the age distribution of the population at the relevant censuses.

AGE-SPECIFIC DEATH RATES(a): 1972

Age group (ye	ars))		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.(b
					М	ALES	-			
Under 1(c)				20.10	15.98	19.80	18.72	17.61	20.29	18.9
1-4.				0.94	0.95	1.07	1.07	0.95	1.05	0.9
5-9.	-		-	0.46	0.42	0.43	0.44	0.45	0.40	0.4
10-14		-		0.37	0.41	0.49	0.45	0.44	0.28	0.4
15–19 .	·	·	•	1.37	1.32	1.88	1.34	1.49	2.36	1.4
20-24 .	•	•	•	1.65	1.61	2.14	1.43	1.70	1.88	î.7
25-29 .	•	•	•	1.34	1.03	1.51	1.17	1.31	1.74	1.2
30–34 .	•	•	•	1.41	1.19	1.73	1.26	1.65	2.47	1.4
35-39 .	•	•	•	2.23	2.11	2.59	1.77	2.15	1.58	2.1
40-44 .	•	•	•	3.47	3.41	3.97	3.34	2.72	2.96	3.4
45–49 .	•	•	•	6.69	5.87	6.19	5.63	5.17	4.42	6.1
50-54 .	•	•	•	10.06	9.29	10.90	9.47	7.72	9.06	9.7
55-59 .	•	•	•							
	-	•	•	17.01	16.15	16.89	15.65	14.52	15.26	16.3
60-64 .	•	•	•	29.06	25.67	27.23	25.22	24.59	26.44	27.0
65-69 .	•	•	•	41.91	41.40	39.54	42.03	37.75	43.14	41.1
70-74 .	•	•	•	67.98	66.34	59.63	59.91	61.83	65.12	64.9
7579 .	٠	•	•	105.69	103.11	90.22	97.90	93.78	90.74	100.2
80–84 .		•	•	150.97	152.32	135.45	141.03	145.20	143.29	147.1
85 and over	•	•		246.26	249.00	211.11	238.34	252.34	204.91	239.0
					FEI	MALES				
Under 1(c)				14.66	12.72	15.36	14.47	12.66	11.69	14.3
1-4.				0.70	0.59	0.93	0.60	1.09	1.16	0.1
5-9.			-	0.30	0.34	0.41	0.35	0.28	0.37	0.
10–14 .	·	-		0.26	0.20	0.37	0.33	0.25	0.20	0.
15-19	Ī	Ţ.	•	0.57	0.56	0.61	0.57	0.49	0.38	Õ.
20-24 .	•	·	•	0.54	0.62	0.80	0.33	0.56	0.52	Ö.
25-29	•	•	•	0.58	0.64	0.68	0.56	0.43	1.04	0.
30-34 .	•	•	•	0.90	0.79	1.05	0.86	0.81	0.61	Ö.
35–39 .	•	•	•	1.42	1.00	1.42	0.98	1.45	1.54	1.
10-44 .	•	•	•	2.34	2.04	2.51	1.66	1.43	2.69	2.
15-49 .	•	•	•	3.79	3.25	4.12	3.01	3.12	3.28	3.
	•	•	•							
50-54 .	٠	•	•	5.97	5.21	5.59	4.38	4.83	4.87	5
55-59 .	•	•	•	8.54	8.38	8.65	8.25	6.99	8.64	8.4
50-64 .	٠	•	•	13.11	12.99	12.38	11.43	11.57	12.36	12.
65–69 .	•	•	•	21.41	20.73	19.42	18.45	18.34	19.48	20.1
70–74 .	٠	•		36.07	35.01	33.18	30.70	30.93	39.38	34.
				62.19	60.26	55.90	54.68	58.63	57.31	59.0
75–79 .	•	•	•				_			
75-79 . 80-84 . 85 and over	:	:	•	103.35 190.27	106.06 194.10	99.40 184.83	94.68 178.92	95.75 181.42	106.76 200.75	102.3 188.3

⁽a) Number of deaths per 1,000 of population in each age group. (b) Includes the Australian Capital Territory and he Northern Territory. (c) Infant deaths per 1,000 live births registered.

AGE-SPECIFIC DEATH RATES(a)(b): AUSTRALIA

Age group (years)	1946–48 (c)	1953–55 (c)	1960–62 (c)	1965–67 (c)	1970-72 (c)	1969	1970	1971	1972
		-		MALE	S				
									
Under $I(d)$.	31.71	25.18	22.36	20.85	19.50	20.14	20.60	19.02	18.93
1-4.	2.09	1.69	1.15	1.08	1.00	0.95	1.07	0.94	0.99
5-9.	0.92	0.67	0.52	0.45	0.46	0.48	0.47	0.47	0.44
10–14 .	0.77	0.63	0.48	0.46	0.42	0.48	0.40	0.46	0.41
15–19 .	1.41	1.51	1.23	1.33	1.54	1.33	1.52	1.58	1.47
20-24 .	1.73	1.82	1.62	1.67	1.83	1.70	1.88	1.88	1.72
25–29 .	1.69	1.68	1.49	1.48	1.39	1.48	1.43	1.47	1.26
30–34	2.02	1.79	1.69	1.64	1.52	1.65	1.56	1.59	1.44
35-39 .	2.66	2.40	2.26	2.45	2.29	2.35	2.37	2.34	2.19
40-44 .	4.12	3.64	3.67	3.82	3.49	3.75	3.65	3.37	3.46
45–49 .	6.86	6.01	5.96	6.14	6.08	6.43	6.19	6.12	6.14
50-54 .	11.39	10.44	10.01	10.45	10.05	10.31	10.60	10.02	9.70
55-59 .	17.58	17.03	16.57	16.96	16.80	17.08	17.39	16.81	16.36
60-64 .	27.43	26.58	26.44	27.59	27.13	27.33	27.94	26.44	27.08
65–69 .	42.42	41.28	41.68	43.66	42.72	43.69	45.52	41.98	41.11
70–74 .	63.69	64.53	63.04	66.84	65.21	65.18	67.67	64.76	64.94
75–79 .	99.65	98.77	94.43	99.77	102.26	101.97	107.13	100.60	100.29
80-84 .	149.31	145.88	141.83	146.95	148.51	139.85	153.27	147.97	147.14
85 and over	253.48	248.14	243.69	241.98	239.96	239.80	244.46	240.49	239.04
				FEMAL	.ES				
Under 1(d).	24.96	19.88	17.57	16.35	14.96	15.57	15.02	15.48	14.38
1-4	1.72	1.35	1.08	1.14	0.79	0.87	0.80	0.79	0.77
5-9.	0.64	0.50	0.38	0.34	0.33	0.36	0.34	0.32	0.33
10-14	0.52	0.37	0.29	0.27	0.27	0.25	0.33	0.22	0.26
15-19	0.70	0.58	0.50	0.54	0.61	0.58	0.58	0.68	0.55
20-24 .	1.08	0.67	0.60	0.63	0.59	0.54	0.56	0.65	0.59
25-29	1.50	0.83	0.71	0.72	0.66	0.68	0.69	0.67	0.62
30-34	1.77	1.11	0.95	0.98	0.91	0.79	0.92	0.95	0.87
35-39 .	2.42	1.74	1.47	1.54	1.43	1.37	1.66	1.38	1.29
40-44 .	3.31	2.55	2.26	2.31	2.23	2.23	2.31	2.26	2.16
45-49 .	4.92	4.19	3.65	3.86	3.64	3.52	3.63	3.79	3.56
50-54	7.63	6.43	5.55	5.87	5.59	5.91	5.85	5.54	5.47
55–59	10.46	9.25	8.14	8.67	8.51	8.39	8.77	8.47	8.40
60–64	16.52	14.75	13.31	13.56	13.15	13.19	13.96	13.04	12.68
65–69	26.17	23.89	21.99	21.94	21.29	21.99	22.39	20.50	20.34
70-74	45.84	40.93	37.14	37.47	36.12	35.59	35.76	36.65	34.65
75–79	75.14	69.72	63.18	62.37	62.35	62.69	64.78	62.62	59.64
80–84	123.46	117.36	105.10	107.93	103.78	99.20	108.01	103.65	102.28
85 and over	222.12	213.69	210.20	119.73	194.37	191.75	198.59	197.22	188.82
	222.12	213.07	210.20	117.13	174.31	171.13	170.07		100.02

⁽a) Number of deaths per 1,000 of population of the same age group and sex. The populations used in the calculation of these rates are based on census populations at 30 June 1947, 1954, 1961, 1966 and 1971. (b) Excludes particulars of full-blood Aborigines prior to 1965. (c) Average annual rate per 1,000 of census population, based on deaths in the three year period, i.e. census year and the years preceding and following it. (d) Infant deaths per 1,000 live births registered.

MORTALITY 195

Infant deaths and death rates-States and Territories

The next table shows for each State and Territory the number of deaths under one year of age and the rates of infant mortality under one year. Rates for Australia and the more populous countries of the world for the latest available year are shown in the table International Vital Statistics at the end of this Chapter.

INFANT MORTALITY UNDER ONE YEAR(a)

Period				N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust
Annual av	erage	<u>-</u>										
1946-50				1,990	1,129	770	431	370	187	11	14	4,902
1951-55			·	1,852	1,113	730	407	384	184	17	14	4,701
1956-60				1,770	1,205	717	410	362	176	25	18	4,683
1961-65				1,685	1,168	696	408	350	156	28	34	4,524
1966–70	٠.			1,567	1,071	669	354	393	127	117	51	4,349
Annual to	tal—											
1969				1,625	1,066	691	347	453	139	103	58	4,482
1970				1,743	1,060	672	367	459	116	126	61	4,604
1971				1,710	1,107	766	366	464	114	170	80	4,777
1972				1,663	1,048	697	367	348	127	113	67	4,430
1973				1,491	958	666	276	394	137	100	63	4,085
Annual av	erage	e rate	(b)—									
194650	٠, ١			28.91	23.82	27.49	26.50	28.15	26.53	37.37	19.89	. 26.98
1951-55	i .			25.11	20.70	23.58	22.55	24.41	23.67	36.28	15.40	23.34
1956-60	١.			22.24	19.67	20.99	20.50	21.42	20.62	36.00	13.68	21.05
1961-65		•		20.32	17.92	19.69	19.07	20.73	18.46	30.76	17.80	19.42
1966-70	٠.			18.99	15.57	18.90	16.60	20.25	15.94	54.91	18.25	18.10
Annual ra	te(<i>b</i>)-	_										
1969				18.89	15.01	18.89	15.79	21.83	16.46	45.29	18.84	17.92
1970				19.71	14.52	17.91	16.23	21.23	14.17	48.02	17.55	17.88
1971				17.37	14.66	19.16	15.92	19.14	13.70	60.03	19.80	17.29
1972				17.45	14.59	17.76	16.80	15.69	16.23	41.51	16.48	16.72
1973				17.07	14.27	17.50	13.52	19.21	18.70	35.60	15.83	16.49
17/3	•	•	•	17.07	14.21	17.30	13.32	17.21	10.70	33.00	13.63	1

⁽a) Excludes particulars of full-blood Aborigines before 1966. (b) Number of deaths of children aged under one year per 1,000 live births registered.

Because of the smallness of the numbers of these deaths occurring in the Australian Capital Territory and the Northern Territory, the rates for these Territories (i.e. number of such deaths per thousand live births) are subject to considerable fluctuation.

Infant deaths and death rates-Australia

The fact that out of 660,993 male infants born from 1968 to 1972, 13,015 (19.69 per 1,000) died during the first year of life, while of 628,936 female infants only 9,561 (15.20 per 1,000) died during the first year, accords with 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. Stillbirths, for which masculinity is also higher, are not included in any of the tables relating to deaths.

As shown by the following table, the disparity is greater during the first four weeks of life, termed the neonatal period, than during the remainder of the first year of life, or the post-neonatal period.

VITAL STATISTICS

INFANT DEATHS AND MORTALITY RATES(a): AUSTRALIA

			Age at	death										Total		
			Days		Total under	Week	s		Total	Mont	hs				one year	
Period			Under 1	1-6	one week	1	2	3	under four weeks	1-2 (h)	3–5	6-8	9-11	Males	Fe- males	Per- sons
Annual ave	rage—															
1946-50 1951-55 1956-60 1961-65		:	1,717 1,631 1,737 1,709	1,297 1,250 1,195 1,187	3,014 2,881 2,932 2,896	259 237 221 191	138 109 116 102	103 86 84 71	3,514 3,313 3,353 3,260	404 396 398 426	415 431 457 417	318 316 271 245	251 245 204 176	2,808 2,683 2,662 2,596	2,094 2,018 2,021 1,928	4,902 4,701 4,683 4,524
1966-70			1,696	1,125	2,821	160	88	72	3,141	407	420	226	155	2,515	1,834	4,349
Annual tota 1968 . 1969 . 1970 . 1971 . 1972 .	i— : :	:	1,768 1,755 1,857 1,907 1,924	1,050 1,151 1,150 1,121 954	2,818 2,906 3,007 3,028 2,878	146 155 160 177 141	70 110 90 85 89	72 69 71 74 67	3,106 3,240 3,328 3,364 3,175	408 407 459 488 456	394 432 454 494 450	221 241 215 250 223	154 162 148 181 126	2,452 2,584 2,718 2,684 2,577	1,831 1,898 1,886 2,093 1,853	4,283 4,482 4,604 4,777 4,430
Annual averate(c)- 1946-50 1951-55 1956-60 1961-65		:	9.45 8.09 7.81 7.34	7.14 6.20 5.37 5.09	16.59 14.29 13.18 12.43	1.43 1.18 0.99 0.82	0.76 0 54 0.52 0.44	0.56 0.43 0.38 0.30	19.34 16.44 15.07 13.99	2.22 1.97 1.79 1.83	2.29 2.14 2.06 1.79	1.75 1.57 1.22 1.05	1.38 1.22 0.92 0.76	30.08 25.99 23.29 21.67	23.70 20.56 18.69 17.03	26.98 23.34 21.05 19.42
1966-70			7.06	4.68	11.74	0.66	0.37	0.30	13.07	1.69	1.75	0.94	0.65	20.40	15.67	18.10
Annual rate 1968 . 1969 . 1970 . 1971 . 1972 .	(c)— : : :	:	7.34 7.02 7.21 6.90 7.26	4.36 4.60 4.47 4.06 3.60	11.70 11.62 11.68 10.96 10.86	0.60 0.61 0.62 0.64 0.53	0.29 0.44 0.35 0.31 0.34	0.30 0.28 0.27 0.27 0.25	12.89 12.95 12.92 12.17 11.98	1.69 1.63 1.78 1.77 1.72	1.64 1.73 1.76 1.78 1.70	0.92 0.96 0.84 0.90 0.84	0.64 0.65 0.58 0.65 0.48	19.83 20.14 20.60 19.02 18.95	15.61 15.57 15.02 15.48 14.37	17.78 17.92 17.88 17.29 16.72

⁽a) Excludes particulars of full-blood Aborigines before 1966. (b) Age four weeks and under three months. (c) Number of deaths of children aged under one year per 1,000 live births registered.

Plate 28 below, shows infant mortality rates for each year from 1910 to 1972.

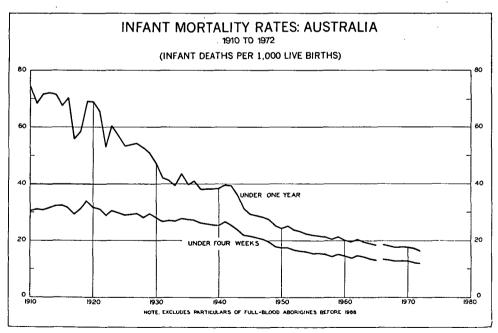


PLATE 28

Causes of death

Causes of death in Australia are classified according to the International Classification of Diseases (I.C.D.) produced by the World Health Organization. The classification is periodically revised and in Australia the Eighth Revision was adopted for use from 1968. Hence, cause of death figures for 1968 and subsequent years are not strictly comparable, for some causes with those for 1967 and earlier years.

The following two tables show the number of deaths in 1972 according to the Abbreviated List of 50 causes for tabulation of mortality recommended by W.H.O. with some large categories sub-divided to show further details. Table A shows the total number of males and females who died, the death rates per million of mean population, and the percentage of total deaths. Table B shows deaths for males and females, classified by age groups. More detailed data on causes of death will be found in the bulletin *Causes of Death* (4.7), No. 9.

A. CAUSES OF DEATH: NUMBERS, PROPORTIONS AND CRUDE RATES(a), MALES AND FEMALES, AUSTRALIA, 1972

ABBREVIATED LIST OF 50 CAUSES WITH CERTAIN SUB-DIVISIONS

		Males			Females		
Cause of death	IC D numbers	Number of deaths	Percentage of total	Crude rates(a)	Number of deaths	Percentage of total	Crud rates(a
B 1 Cholera	000						
B 2 Typhoid fever B 3 Bacillary dysentery and amoebi-	001	••	• •	• • •	••	•••	• •
asis . B 4 Enteritis and other diarrhoeal	004, 006	6	(b)	1	4	(b)	1
diseases	008, 009	139	0.2	21	141	0.3	22
B 5 Tuberculosis of respiratory system	010-012	70	0.1	11	30	0.1	
B 6 Other tuberculosis, including late effects	013-019	33	. 0.1	5	17	(b)	3
B 7 Plague	020	·i	(b)	/3	• •		
B 8 Diphtheria	032 033	i	(b)	(c) (c)	· ;	(b)	(c
B10 Streptococcal sore throat and scarlet fever	034				. 1	(b)	(c)
B11 Meningococcal infection	036	i <i>5</i>	(b)	2	8	(b)	`i
B12 Acute poliomyelitis B13 Smallpox	040-043 050	• • •	••	• •	••	••	• •
B14 Measles	055	4	(b)	i	2	(b)	(c)
B15 Typhus and other rickettsioses B16 Malaria	080-083 084		• •		• •	::	
B17 Syphilis and its sequelae. B18 All other infective and parasitic	090-097	16	(b)	2	10	(b)	• 2
diseases	Remainder						
B19 Malignant neoplasms-	of 000-136	151	0.2	23	153	0.3	24
(i) Digestive organs	150-159	3,276	5.4	502	2,891	5.9	447
(ii) Lung (iii) Skin	162 172, 173	2,970 298	4.9 0.5	455 46	504 198	1.0 0.4	78 31
(iv) Breast	174	12	(b)	2	1,543	3.2	239
(v) Genital organs	180-187	1,043	1 7	160	1,175	2.4	182
(vi) Urinary organs(vii) Leukaemia and aleukaemia	188, 189 204–207	562 432	0.9 0.7	86 66	266 342	0.5 0.7	41 53
(viii) Other malignant and lymph-							
atic neoplasms	Remainder of 140-209	1,916	3.1	294	1,358	2 8	210
Total, B19		10,509	17.2	1,610	8,277	17.0	1,280
B20 Benign neoplasms and neo-							
plasms of unspecified nature B21 Diabetes mellitus	210–239 250	83 821	0.1 1.3	13 126	107 1,019	0.2 2.1	17 158
B22 Avitaminoses and other nutri-					-		
tional deficiency	260-269 280-285	51 97	0.1 0.2	8 15	42 118	0.1 0.2	18
B24 Meningitis	320	43	0.1	7	30	1.0	5
B25 Active rheumatic fever	390-392	6 378	(b) 0.6	1 58	4 492	(b) 1.0	1 76
B26 Chronic rheumatic heart disease B27 Hypertensive disease	393-398 400-404	672	1.1	103	825	1.0	128
B28 Ischaemic heart disease	410-414	19.963	32.7	3,059	13,193	27.1	2,041
B29 Other forms of heart disease .	420-429	2,000	3.3	306	2,441	5.0	378
B30 Cerebrovascular disease	430-438	6,621	10.8	1,014	9,148	18.8	1,415
B31 Influenza	470–474 480–486	74 1,420	0.1 2.3	11 218	117 1,127	0.2 2.3	18 174
B33 Bronchitis, emphysema and		1,720			•	2.3	
asthma	490-493	3,278	5.4	502	800 208	1.6	124
B34 Peptic ulcer	531-533 540-543	365 32	0.6 0.1	56 5	208 19	0.4 (b)	32 3
B36 Intestinal obstruction and hernia		172	0.3	26	196	0.4	30
B37 Cirrhosis of liver	571	573	0.9	88	232	0.5	36
B38 Nephritis and nephrosis .	580-584	375	0.6	57	362	0.7	56
B39 Hyperplasia of prostate B40 Abortion	600 640-645	177	0.3	27		(b)	'i
DTO ADDITION	U+U-U43	• •	•••	•••			

For footnotes see end of table next page.

A. CAUSES OF DEATH: NUMBERS, PROPORTIONS AND CRUDE RATES(a), MALES AND FEMALES, AUSTRALIA, 1972—continued

ABBREVIATED LIST OF 50 CAUSES WITH CERTAIN SUB-DIVISIONS—continued

			Males			Females		
Caus	e of death	ICD numbers	Number of deaths	Percentage of total	Crude rates(a)	Number of deaths	Percentage of total	Crude rates(a)
B41	Other complications of preg- nancy, childbirth and the puerperium. Delivery without mention of complication	630-639, 650-678				27	0.1	. 4
B42 B43	Congenital anomalies Birth injury, difficult labour and other anoxic and hypoxic conditions	740–759 764–768.	692	ı.i	106	630	ï.3	97
B44	Other causes of perinatal	772, 776	442	0.7	63	260	0.5	40
	mortality	Remainder of 760-779	977	1.6	150	702	1.4	109
B45 B46	Symptoms and ill-defined conditions (i) Arteriosclerosis (ii) Other diseases of circulatory	780–796 440	356 898	0.6 1.5	55 138	321 1,311	0.7 2.7	50 203
	system	441-448, 450-458 460-466, 500-508.	1,039	1.7	159	743	1.5	115
	(iv) All other diseases	510-519 Remainder	534	0.9	82	351	0.7	54
		of 240-738	2,096	3.4	321	2,434	5.0	376
	Total, B46		4,567	7.5	700	4,839	9.9	7.18
	Motor vehicle accidents	E810-E823 E800-E807		4.3	401	954	2.0	148
	Suicide and self-inflicted injuries All other external causes	E825-E949 E950-E959 E960-E999	1,951 1,085 283	3.2 1.8 0.5	299 166 43	1,117 540 122	2.3 1.1 0.3	173 84 19
	All causes		61,116	100.0	9,364	48,644	100.0	7,524

⁽a) Number of deaths per million of estimated mean population.

(b) Less than 0.05.

(c) Less than 0.5.

B CAUSES OF DEATH: MALES AND FEMALES IN AGE GROUPS, AUSTRALIA, 1972
ABBREVIATED LIST OF 50 CAUSES (BASED ON THE EIGHTH REVISION OF THE INTERNATIONAL LIST)

			Number	of dear	hs in ag	e group:	s (years)							
Caus	re of death(a)	Sex	Under 1	1–4	5-14	15-24	25 -34	35–44	45-54	55-64	65-74	75 and over	Not stated	Tota
B 3	Bacillary dysentery and amoe- biasis	M F	3	·i	2 2					·i		1		
В 4	Enteritis and other diarrhoeal	M F	46 45	19 21	9 2	2 2	4	3 2	 5 8	12 8	14 14	25 39		13 ⁴
B 5	Tuberculosis of respiratory	M F	ĩ		::		; 3	2	. 11	13	23 6	17	::	7
3 6	Other tuberculosis, including late effects	M F	• • • • • • • • • • • • • • • • • • • •	::	į	i	î	ĩ	8	5	1 Ĭ 4	5	::	3
3 8	Diphtheria	M M	i	::	i			::						•
310	Streptococcal sore throat and	F	2	1										
311	scarlet fever	F M.	· ;	· <u>.</u>	· <u>·</u> ż				i	'n	1			1
314	Measles	F M			4				• •					
317	Syphilis and its sequelae .	F M	2 1	• •	• •	• • • • • • • • • • • • • • • • • • • •	• •		· <u>;</u>	4	6	·	• •	1
18	All other infective and para-	F M	38 27	14	3	1 5 4	iò	6	1 14	18	3 18	2 25 30		15
119	sitic diseases	F M		13	7	6	9	12 116	19 350	18 844	14	888	• • •	15
	(ii) Lung	F M		1	3 1	5	22 24 10	74 54	273 364	536 884	1,043 756 1,113	1,221 544		3,27 2,89 2,97
	(iii) Skin	F		i	.:	 . ,	3 19	14 33	92 60	139	153	102	::	50 29
	(iv) Breast	F M	· ·	• • • • • • • • • • • • • • • • • • • •	::	6	19	21	38	32	37 4	45	::	19 1
	(v) Genital organs	F		i	• • •	13	25 17	114 11	318 20	396 95	323 332	365 554		1,54 1.04
	(vi) Urinary organs	F M	• • •	i	3	ii	31	63 12	213 42	293 132	302 190	· 180		1,17
	(vii) Leukaemia and aleukae-	F M	ż	1 25	1 50	1 19	3 18	3 24	22 42	48 66	87 100	100 86		26 43
	(viii) Other malignant and lymphatic neoplasms	F M F	3 6 2	20 22 14	37 43 26	20 60 22	21 60 28	20 106 74	27 292 168	52 463 276	528 344	82 335 404	·i	34 1,91 1,35
	Total, B19	M F	8	52 37	101 68	105 67	147 154	356 383	1,173 1,151	2,561 1,772	3,363 2,062	2,641 2,578	2	10,50 8,27

For footnote see end of table next page.

B. CAUSES OF DEATH: MALES AND FEMALES IN AGE GROUPS, AUSTRALIA, 1972—continued Abbreviated List of 50 Causes (Based on the Eighth Revision of the International List)

			Number	of dear	hs in ag	e groups	(years)							
Cause	of death(a)	Sex	Under I	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75 and over	Not stated	Total
B20	Benign neoplasms and neo- plasms of unspecified nature	M F	2 3	1 2	4	5 4	3 4	4 16	10- 19	18 20	19 20	17 18		83 107
B21	Diabetes mellitus	M	2	Ž	į	4	8	22	83 40	177	249	272 491		821
B22	Avitaminoses and other nutri-	M	2	2	i		12	14	5	143	314 9	27	i	1,019 51
B23	tional deficiency Anaemias	F M	2 1	3 1	· ;	1 2	· i	2	6 1	4 12	4 24	20 49	• •	42 97
B24	Meningitis	F M	15 15	10	3 5	1	1 1			13 8	22 3	69 1	• •	118 43
B25	Active rheumatic fever	F M	11	1	5 1	• •	• • •	1	1	1 2	4		••	30 6
B26	Chronic rheumatic heart	F M			1	1	iż	20	65	104	103	69		378
B27	disease	F M	• • •	'n		5 1	10	20 14	48 64	106 122	145 199	156 266	• •	492 672
B28	Ischaemic heart disease .	F M	• • •	: <i>:</i>		· .	73	29 551	39 2,164	4,951	186 6,137	508 6,082	• •	825 19,963
B29	Other forms of heart disease .	F M		4	1 8	2 17	16 15	121 45	523 92	1,618 219	3,485 402	7,427 1,192	• •	13,193 2,000
B30	Cerebrovascular disease .	F M	11 6	3	4	11 22	22 22	28 124	54 372	111 959	337 1,872	1,859 3,237	::	2,441 6,621
B31	Influenza	F M	1	• • •	3 1	12 2	37 2	142	368 4	748 12	1,877 14	5,960 36	• •	9,148 74
B32	Pneumonia	F M	187	26	iż	13 13	20 20	6 39	9 81	16 151	16 244	59 647	• •	117 1,420
B33	Bronchitis, emphysema and	F M	112 6	27 5	9 12	9 15	15 19	22 35	36 146	77 556	114 1,228	706 1,256	• • •	1,127 3,278
B34	asthma	F M			10 2	17	11 3	14 13	90 51	149 64	196 110	301 122	• •	800 365
B35	Appendicitis	F M	1	i	·i	.;	1 2	8	13 4	38 7	40 5	107 6	• •	208 32
B36	Intestinal obstruction and	F M		'i	2 1	2 1		3 1	· ;	3 18	1 40	7 82		19 172
B37	hernia	F M	21 2	·i	2 1	. 6		5 67	7 169	27 179	32 107	98 33	::	196 573
B38	Nephritis and nephrosis .	F M	2	·i	· ;	1 9	3 6	22 17	65 49	75 83	46 91	18 115	• • •	232 375
B39	Hyperplasia of prostate .	F M						16	57 2	82 7	70 31	122 137		362 177
B40 B41	Abortion Other complications of preg- nancy, childbirth and the puerperium. Delivery with- out mention of complication	F F				1	11	`ż						27
B42	Congenital anomalies	M F	472 434	66 58	37 34	5 25 23	21 16	18 13	12 16	28 20	9	4	•••	692 630
B43	Birth injury, difficult labour and other anoxic and hypoxic conditions	M F	439 258		1	2						••	••	442 260
B44	Other causes of perinatal mortality.	M F	976 699	Ī 2	i	::	::		::	::	::	• • •	::	977 792
B45	Symptoms and ill-defined con- ditions	M F	84 35	9 7	5 2	22 8	 8 9	20 11	30 16	23 12	45 30	109 191	'i	356 321
B46	(i) Arteriosclerosis	M						1	8	44	167 121	678	::	898 1311
	(ii) Other diseases of cir-	M	2	ż	· <u>;</u>	· <u>6</u>	4	16	59	21 201	381	364	::	1,039
	culatory system (iii) Other diseases of respira-	F M	106	18	1 10	7	7	20 11	44 27	75 62	153 113	432 178	::	743 534
	tory system (iv) All other diseases	F M	58 46	14 36	4 32	4 64	11 49	13 126	20 257	32 403	43 440	152 643	• • • • • • • • • • • • • • • • • • • •	351 2,096
	Total, B46	F M	38 <i>154</i>	25 57	33 <i>45</i>	53 74	60 58	103 <i>154</i>	240 <i>351</i>	398 710	485 1,101	998 1.863	1	2,434 4,567
		F	100	39	38	64	78	137	309	526	802	2,745	'n	4,839
	Motor vehicle accidents .	M F	16 12	86 56	136 94	1,011	378 89	218 71	278 105	221 89	168 92	105 97		2,617 954
	All other accidents	M F	76 50	126 74	117 47	266 33	214 36	219 24	225 49	227 67	169 116	309 621	3	1,951 1,117
	Suicide and self-inflicted injuries	M F			4	164 64	179 77	209 115	228 134	150 85	96 41	54 22	1	1,085 540
BE50	All other external causes .	M F	 5 4	11	3 7	42 18	36 20	63 20	59 17	36 10	16 12	11 5	1	283 122
	All causes	M F	2,577 1,853	505 378	533 350	1,828 620	1,259 647	2,230 1,275	5,769 3,213	11,661 5,911	15,927 10,115	18,818 24,280	9	61,116 48,644

⁽a) Categories of the Abbreviated List for which no deaths were recorded in 1972 have been omitted from this table. For details of such categories see Table A, pages 197-8.

Causes of death-children under one year

Causes of death of children under one year of age should be considered in relation to age at death because the emphasis on various causes changes rapidly as age at death varies, the majority of deaths in the first week of life being due to conditions arising during pregnancy and birth. A summary for 1972, of deaths of children under one year of age, classified according to principal causes of death and age at death, is given in the following table.

DEATHS OF CHILDREN UNDER ONE YEAR OF AGE, BY CAUSE OF DEATH AUSTRALIA, 1972

Inter-		Age at death										
national Classifi- cation of	•	Days		Total under	Wee			Total	Months			Total under
Diseases	Course of the d	Under		one				four	1-2			one
number	Cause of death		1-6	week				weeks	(a)	3-3	6-11	year
760	Chronic circulatory and genito-											
	urinary diseases in mother .	12	12	24				24	1			25
761	Other maternal conditions un-								-		• • •	
	related to pregnancy	85	26	111	5	1	1	118	2	1		121
762	Toxaemias of pregency	72	56	128	5 3	ī	ĩ	133				133
763	Maternal ante and intrapartum				-	•	-		• • •			
,	infection	45	9	54	3			57	٠.			57
764-768	Difficult labour	135	58	193		ž		195	'n			196
769	Other complications of pregnancy					_	• • •	.,,	•	• • •	• • •	
	and childbirth	480	149	629	9	5	2	645	2			647
770	Conditions of placenta	217	88	305	1	2	ī	309	2	• • •		311
771	Conditions of umbilical cord .	37	13	50		ī		51				51
772, 773	Birth injury without mention of	•				-			• • •	••	• • •	
,	cause	21	16	37	2	3		42	1	1		44
774, 775	Haemolytic disease of newborn.	40	20	60	ī	ī		62				62
776	Anoxic and hypoxic conditions			•	-	-			• • •	• • •	• • •	-
	not elsewhere classified	259	183	442	8		4	454	2	1		457
777	Immaturity unqualified	181	38	219	ĭ			220	ī			221
778, 779	Other conditions of newborn .	23	17	40	5	'n	i	47			• • •	47
740 .759	Congenital anomalies	270	205	475	74	43	21	613	115	96	82	906
000-136	Infections	- 3	11	14		8	- <u>-</u>	36	39	41	61	177
480-486	Pneumonia	7	17	. 24	8	Š.	6	46	109	89	55	299
(b)	Other diseases	33	35	68	15	11	16	110	134	164	105	513
È911–E913	Inhalation or ingestion of food or other object causing obstruction					••	••					
	or suffocation, and accidental mechanical suffocation					•	•		22	40	10	0.5
(a)	Other external causes	4	'n		1	ļ	2	4	32 15	40	19	95 68
(c)	Omer external causes	4	1	3	• •	1	3	y	13	17	27	08
	All causes	1,924	954	2,878	141	89	67	3,175	456	450	349	4,430

⁽a) Age four weeks and under 3 months.

Deaths from certain important causes

As can be seen from the preceding tables, infective and parasitic diseases (Nos B1-B18) no longer cause many deaths in Australia, being responsible for only 0.7 per cent of total deaths. Of far greater importance are diseases of the circulatory system causing 54.0 per cent, malignant neoplasms causing 17.1 per cent and accidents, poisonings and violence causing 7.8 per cent of all deaths in 1972.

Malignant neoplasms, including neoplasms of lymphatic and haematopoietic tissues (B19). Deaths classified under this heading according to the Sixth, Seventh and Eighth Revisions of the International List (used in Australia for deaths registered since 1950) are not directly comparable in total with those on the Fifth Revision basis (see Year Book No. 39, p. 623).

The most common sites of malignant neoplasms causing death in 1972 are identified in Table B (pages 198-9). Malignant neoplasms are predominantly diseases of advanced age, but leukaemia and aleukaemia frequently cause death at early ages.

Deaths in age groups and age-specific death rates for males and females who died from malignant neoplasms are given in the table on the following page.

⁽b) 140-474, 490-738, 780-796.

⁽c) E800-E910, E914-E999.

DEATHS AND DEATH RATES FROM MALIGNANT NEOPLASMS(a), BY AGE GROUP AND SEX AUSTRALIA (b)

					1950				1960				1972				
				•	Number			Rate(c)		Number		Rate(c)		Number		Rate(c)	
Age group (years)		M		F	M	F	M	F	M	F	M	<i>F</i>	M	F			
Under	15				92	53	.8	5	141	110	9	7	161	110	. 8	6	
15-29 30-44	•	•	:	•	95 249	75 413	10 27	8 47	112 361	75 517	10 32	49	175 433	135 469	11 36	9 41	
45-54		:		·	552	669	118	148	852	831	138	143	1,173	1,151	158	160	
55–64 65 and	ove	r	• :	:	1,294 3,072	1,171 2,694	347 1,014	299 748	1,671 4,067	1,186 3,373	401 1,075	276 679	2,561 6,004	1,772 4,640	466 1,327	311 739	
,	Tota	ı	•	•	5,355 (d)	5,075	130	125	7,207 (e)	6,092	139	120	10,509 (f)	8,277	161	128	

(a) Includes neoplasms of lymphatic and haematopoietic tissues. (b) Excludes particulars of full-blood Aborigines prior to 1967. (c) Number of deaths per 100,000 of population at risk. For the individual age groups, the population at risk is that estimated at 30 June. For the total of all ages, the population at risk is the calendar year mean population. (d) Includes 1 male, age not stated. (e) Includes 3 males, age not stated. (f) Includes 2 males, age not stated.

Death rates from malignant neoplasms per 100,000 of mean population for Australia and for various other countries for the latest available year are as follows: Israel, 116; Japan, 116; South Africa (white population), 135; Poland, 138; Canada, 141; Australia, 145; United States of America, 162; Italy, 174; Uruguay, 190; Netherlands, 195; France, 206; England and Wales, 236; Scotland, 242.

Diseases of the circulatory system (B25-B30, part B46). This class is the largest among causes of death, representing 54 per cent of total deaths in 1972. The following table shows the number of deaths and death rates per 100,000 of mean population from diseases of the circulatory system for the years 1950-72. Comparability of the figures is not significantly affected by the various revisions of the International Classification of Diseases.

DEATHS AND DEATH RATES FROM DISEASES OF THE CIRCULATORY SYSTEM BY SEX: AUSTRALIA (a)

	Cerebrov	ascular d	Heart disease				Other diseases of circulatory system				Totai					
	Number		Rate(b)		Number		Rate(b)		Number		Rate(b)		Number		Rate(b)	
Year	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
1950 . 1955 . 1960 . 1965 .	4,035 4,811 5,183 5,809	5,351 6,224 6,659 7,835	98 103 100 101	132 137 131 139	14,687 16,382 18,654 21,843	10,256 11,303 13,173 15,546	356 352 359 381	253 249 259 275	1,736 1,843 2,068 2,029	1,802 1,886 1,970 2,071	42 40 40 35	44 42 39 37	20,458 23,036 25,905 29,681	17,409 19,413 21,802 25,452	496 495 499 517	429 427 429 450
1970 . 1971 . 1972 .	6,508 6,497 6,621	9,178 9,234 9,148	103 101 101	148 145 142	23,639 22,980 22,769	17,269 17,176 16,673	376 358 349	278 270 258	2,266 2,271 2,187	2,516 2,454 2,336	36 35 34	40 39 36	32,413 31,748 31,577	28,963 28,864 28,157	515 494 484	466 454 436

(a) Excludes particulars of full-blood Aborigines prior to 1967. (b) Per 100,000 of mean population.

As can be seen from Table B (page 199), these conditions predominantly affect people of advanced age, only 9.1 per cent of deaths being at ages under 55 years in 1972.

Accidents, poisonings and violence (BE47 to BE50). Deaths in this class are classified according to external cause and not according to nature of injury. The classification provides sub-groups for accidents, including adverse reactions to prophylactic inoculations, therapeutic misadventures and late effects of accidental injury; suicide; homicide and injuries purposely inflicted by other persons; injuries undetermined whether accidentally or purposely inflicted; and injury resulting from operations of war, including delayed effects.

While not as numerically important as the above two groups in total this class of causes of death has a much greater influence at the younger ages, being responsible for 75 per cent of all deaths at ages 15-24 years in 1972.

The following table, showing the death rates in the main sub-groups per 100,000 of mean population, indicates that the death rate from violence is between two and three times as great for males as for females. The low level of the rates and proportions for the years 1941–45 is due largely to the exclusion of deaths of defence personnel from accidents, suicide and homicide, though the rates have been based on total mean population (including defence personnel). A further contributing factor is the decrease during this period in the number of automobile accidents. From July 1947 deaths of defence personnel from accidents, etc., have again been included.

ACCIDENTS, POISONINGS, AND VIOLENCE: DEATH RATES(a), BY SEX AUSTRALIA (b)

		Death											
		Motor	vehicle its	Suicide		Homicide(c)		Other violence(d)		Total violence		All violence, percentage of . total deaths	
Period		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1941 45 1946-50 1951-55 1956-60 1961 -65	:	19 30 38 37 38	5 6 9 11 13	11 14 15 17	5 5 5 6 9	1 1 2 2 2	1 1 1 1	48 46 44 38 34	21 21 22 20 19	79 91 99 93	31 33 37 39 42	7.30 8.44 9.64 9.57 9.54	3.48 3.83 4.53 4.95 5.50
1966–70		43	15	17	9	2	1	33	20	95	45	9.61	5.71
1967 . 1968 . 1969 . 1970 . 1971 .	:	42 43 44 46 45 40	14 14 16 17 15	19 17 17 17 18 17	11 8 8 8 9 8	2 2 2 2 2 2 2	1 1 1 1 1	35 34 30 32 . 31 32	20 21 18 19 18 18	98 95 92 97 96 91	47 45 43 45 44 42	10.08 9.43 9.54 9.67 10.09 9.71	6.11 5.51 5.65 5.58 5.61 5.62

⁽a) Number of deaths per 100,000 of mean population. (b) Excludes particulars of full-blood Aborigines before 1967. (c) Includes deaths from injury purposely inflicted by other persons (not in war) and legal intervention. (d) Includes deaths from injury undetermined whether accidentally or purposely inflicted.

In 1972 the total number of deaths from accidental causes (BE47, BE48) was 6,639 (4,568 males and 2,071 females). Over half of the accidental deaths were the result of transport accidents. Of these, the numbers attributable to the major causes, and the percentages of the total accidental deaths in each case, were as follows: Motor vehicle traffic accidents, 3,450 (51.97 per cent); motor vehicle non-traffic accidents, 121 (1.82 per cent); other road vehicle accidents, 33 (0.50 per cent); railway accidents, 81 (1.22 per cent); water transport accidents, 111 (1.67 per cent); aircraft accidents, 54 (0.81 per cent); a total of 3,850 (57.99 per cent). Other important causes were accidental falls, 1,264 (19.04 per cent); accidental drowning (not in transport), 409 (6.16 per cent); accidents caused by fires and flames, 208 (3.13 per cent); and accidental poisonings, 128 (1.93 per cent).

Deaths from suicide (BE49) in 1972 numbered 1,625 (males, 1,085; females, 540). Poisoning, other than by gases, occurred in 653 cases (40.18 per cent of total deaths by suicide). Other important modes adopted, together with the numbers and relevant percentages, were as follows; firearms and explosives, 381 (23.45 per cent); poisoning by gases, 241 (14.83 per cent); hanging or strangulation 185 (11.38 per cent); submersion (drowning), 62 (3.82 per cent); other and unspecified modes, 103 (6.34 per cent). Of the 1,085 males who committed suicide, 354 (32.63 per cent) used firearms or explosives. For females the most common mode was poisoning (other than by gases). This was used in 374 cases (69.26 per cent).

Of the 405 deaths assigned in 1972 to all other external causes (*BE50*), there were 219 deaths from homicide and injury purposely inflicted by other persons, 2 deaths from legal intervention by firearms, 178 deaths from injury undetermined whether accidentally or purposely inflicted (of which 75 were due to poisoning other than by gases) and 6 deaths from late effects of injury due to operations of war.

Vital statistics of External Territories

The following table shows, for the year 1972, the number of marriages, births and deaths registered in the External Territories under the control of Australia. More detailed information will be found in *Demography*, Bulletin No. 86.

EXTERNAL TERRITORIES: VITAL STATISTICS, 1972

Territory		 Marriages	Births	Deaths	
Christmas Island(a) .			11	34	8
Cocos (Keeling) Islands(a)			8	18	4
Norfolk Island(a)			15	21	9
Papua New Guinea(b) .			347	1,359	118

(a) Total population.

(b) Non-indigenous population only.

International vital statistics

Vital statistics rates for selected countries with relatively complete civil registration data are shown in the following table. The source of this information is the United Nations Demographic Yearbook. The yearbook contains rates for most countries and identifies the qualifications of the data applicable to different countries. The crude marriage, birth and death rates shown represent the number of 'events' per 1,000 of the population. Infant mortality rates are the number of deaths which occurred under one year of age per 1,000 live births. An explanation of the meaning of 'expectation of life at birth' is shown on page 191.

VITAL STATISTICS RATES: CERTAIN COUNTRIES—LATEST AVAILABLE YEAR (Source: United Nations Demographic Yearbook 1972)

Expectation of life at birth Rates(a) Infant Rirth Year Marriage Death mortality Year 1972 1972 1965 67 1969 1970 1971 1971 1972 1972 1972 1971 1966-68 1960-62

Male Country Female Australia 20.4 16.5 16.5 11.4 15.9 14.7 16.3 19.2 16.1 22.6 17.4 19.6 19.4 29.9 68.2 68.8 66.2 68.6 67.6 67.5 66.3 67.9 69.1 71.0 68.4 66.9 65.5 67.3 61.9 75.0 75.2 73.2 76.1 73.6 70.7 72.1 73.4 74.3 76.7 73.8 72.8 69.8 71.9 61.4 8 5 7.3 11.5 10.6 11.8 8.3 11.4 9.6 6.6 8.5 8.5 8.5 9.5 8.2 7.6 8.8 9.0 8.1 6.7 8.3 9.4 7.7 10.5 8.8 9.3 7.6 6.7 16.7 17.6 21.6 13.3 23.3 26.9 32.7 28.3 12.4 11.4 16.5 42.4 18.5 50.3 Czechoslovakia Germany, Federal Republic of Greece 1970 1964-67 1968 1972 1972 Hungary Italy Japan 1972 1971 1972 1971 Netherlands New Zealand 1971 1960-62 1965-66 1968 Poland Romania 1960 1962 Spain Sri Lanka (Ceylon) Union of Soviet Republics 1971 Socialist 18.0 14.9 15.6 18.2 1972 1972 1972 1972 9.4 8.3 10.9 9.0 8.5 11.9 9.4 9.1 1968-69 1969-71 1971 1968-70 65.0 68.8 24.3 17.9 74.0 75.1 United Kingdom . United States of America 18.5 43.2 64.8 69 2 Yugoslavia .