



Deaths
Western Australia
1993

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INQUIRIES

- *For further information about statistics in this publication and the availability of related unpublished statistics, contact Mike Joske on Perth (09) 360 5276.*
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SUMMARY OF FINDINGS

GENERAL

In 1993 there were 10,316 deaths where the State of usual residence was Western Australia, an increase of 4.2 per cent on 1992. This is the highest number of deaths recorded and reflects a rise in the number of older people in the population, and slight increases in death rates in some of the older age groups. Over 80 per cent of deaths were of persons over the age of 60. This age group accounted for 76.4 per cent of male deaths and 86.2 per cent of female deaths.

For 1993 male deaths (5,632) increased by 5.2 per cent compared with 1992, and female deaths (4,684) increased 3.0 per cent.

In 1993 the crude death rate for persons was 6.2 per 1,000 of population compared to 6.0 in 1992. For males the rate increased from 6.4 to 6.7 and for females the rate increased from 5.5 to 5.6.

The sex ratio of male deaths per 100 female deaths increased slightly from 118 in 1992 to 120 in 1993.

Male life expectancy increased from 69.4 years in 1975 to 75.1 years in 1993. For the same period female life expectancy increased from 77.0 years to 81.2 years.

The median age at death for males increased from 72.5 in 1992 to 72.6 years in 1993, while the median age for females increased from 79.0 to 79.8 years.

In 1993 the infant mortality rate was 5.9 deaths per 1,000 live births, with the rate for males being 7.2 and the rate for females being 4.4.

The percentage of infant deaths under 1 year of age was much higher among Aboriginal people (6.5 per cent) than for the total population (1.4 per cent).

CAUSE OF DEATH

For *heart disease* (all types) and *cerebrovascular disease* the standardised death rates for Western Australia of 197.3 and 62.1 deaths per 100,000 of population respectively, were lower than the corresponding rates for Australia of 201.8 and 65.1.

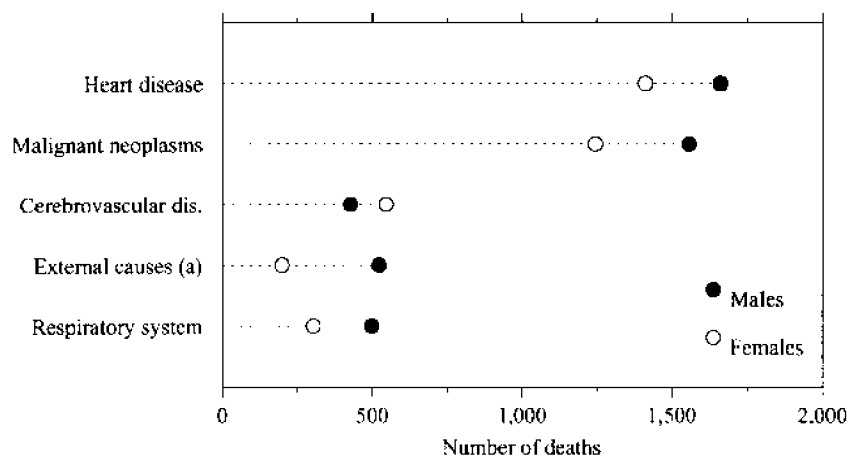
For *malignant neoplasms*, *respiratory system diseases* and *motor vehicle traffic accidents* the standardised death rates for Western Australia of 181.2, 51.7 and 12.8 respectively were higher than the corresponding death rates for Australia of 180.1, 50.3 and 11.1.

Four causes accounted for nearly three quarters (74.1 per cent) of all deaths in Western Australia in 1993. Over half (57.0 per cent) of all deaths were due to *heart disease* (all types) or *malignant neoplasms* (cancer). A further 17.2 per cent of deaths were due to *cerebrovascular disease* (stroke) or *respiratory diseases*.

Heart disease

Heart disease (all types) continues to be the leading cause of death in Western Australia. There were 3,072 deaths due to *heart disease* in 1993, an increase of 7.0 per cent on 1992. Of these deaths, 2,599 or 84.6 per cent were of persons aged 65 or more.

DEATHS BY CAUSE AND SEX
WESTERN AUSTRALIA, 1993



(a) External causes include accidents, poisonings and violence (e.g. suicide, homicide).

The crude death rate for *heart disease* increased from 173.3 per 100,000 mean estimated resident population in 1992 to 183.2 in 1993. For the same period the rate for males increased from 186.9 to 197.1, and for females the rate increased from 159.5 to 169.1.

In 1993 the number of deaths due to *heart disease* increased 6.7 per cent to 1,661 for males and rose 7.3 per cent to 1,411 for females. Persons under the age of 65 accounted for 22.5 per cent of male deaths due to *heart disease* and 7.0 per cent of female deaths.

Cancer

There were 2,803 deaths due to *malignant neoplasms* (cancer) in 1993 an increase of 6.1 per cent on 1992. There was little change in the proportion of deaths by sex with male deaths being 55.7 per cent of deaths in 1992 and 55.6 per cent in 1993. The crude death rate increased from 159.4 deaths per 100,000 population in 1992 to 167.1 in 1993. The crude death rate for males in 1993 was 184.9 and for females the rate was 149.2.

There were 1,558 male deaths due to *malignant neoplasms* in 1993, an increase of 5.8 per cent on 1992. *Malignant neoplasms* accounted for 27.7 per cent of all male deaths in 1993 compared with 27.5 per cent in 1992. Males under the age of 65 accounted for 31.0 per cent of male deaths due to *malignant neoplasms*.

There were 1,245 female deaths due to *malignant neoplasms* in 1993, an increase of 6.4 per cent on 1992. *Malignant neoplasms* accounted for 26.6 per cent of all female deaths in 1993 compared with 25.7 per cent in 1992. Females under the age of 65 accounted for 31.4 per cent of female deaths due to *malignant neoplasms*.

Trachea, bronchus and lung

The number of deaths due to *malignant neoplasm* of the *trachea, bronchus* or *lung* has been erratic in recent years with the 1993 figure of 577 (34.4 deaths per 100,000 population) up 13.6 per cent compared with 1992 but up only 2.1 per cent compared with 1991. Analysis of unpublished data shows that in 1993 67.8 per cent of deaths due to *malignant neoplasm* of the *trachea, bronchus* or *lung*, were of males, with 32.2 per cent of male deaths being in males under the age of 65. Females aged under 65 accounted for 25.8 per cent of female deaths.

Colon

In 1993 there were 274 deaths from *malignant neoplasm* of the *colon* a 10.5 per cent increase on 1992. Over the last 5 years 609 males and 622 females have died from *malignant neoplasm* of the *colon*. The crude death rate for *malignant neoplasm* of the *colon* for 1993 was 16.3 per 100,000 population.

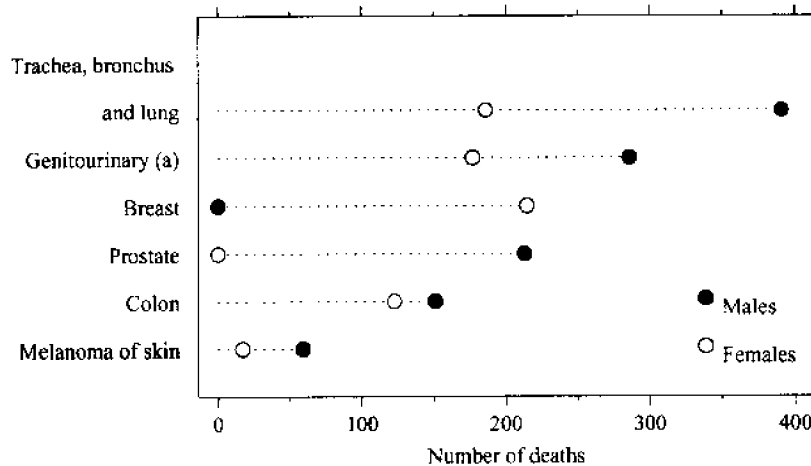
Breast

There were 215 female deaths due to *malignant neoplasm* of the *breast* in 1993 accounting for 17.3 per cent of all female deaths due to *malignant neoplasms*. There were 25.8 female deaths from *malignant neoplasm* of the *breast* for every 100,000 females. Analysis of unpublished data shows that *malignant neoplasm* of the *breast* caused 30.4 per cent of deaths of females aged 30 to 59 who died from *malignant neoplasms* and 15.4 of all deaths of females aged 30 to 59.

Prostate

Malignant neoplasms where the primary site was the *prostate* caused the deaths of 213 males in 1993, an increase of 10.9 per cent on 1992. There were 25.3 male deaths from *malignant neoplasm* of the *prostate* for every 100,000 males. Males under the age of 65 accounted for 8.5 per cent of deaths due to *malignant neoplasm* of the *prostate*.

**DEATHS FROM MALIGNANT NEOPLASMS: SELECTED SITES BY SEX
WESTERN AUSTRALIA, 1993**



(a) Including malignant neoplasms of bladder, kidney and other unspecified genitourinary organs including the prostate.

- Genitourinary organs** Between 1991 and 1992 female deaths due to *malignant neoplasm* of the *genitourinary organs* dropped 19.5 per cent. In 1993 there were 177 female deaths due to *malignant neoplasm* of the *genitourinary organs* an increase of 7.9 per cent compared with 1991. Analysis of unpublished 1993 data shows that the site of the *malignant neoplasm* for 68 of the deaths was the *ovary or other uterine adnexa* and for 37 deaths the site was the *cervix uteri*.
- Melanoma of skin** In recent years the number of deaths due to *malignant melanoma* of the *skin* has fluctuated. In 1993 it caused 76 deaths in Western Australia and over the last 5 years it has caused the deaths of 214 males and 134 females.
- Cerebrovascular disease** There were 973 deaths from *cerebrovascular disease* (stroke) in 1993 an increase of 1.5 per cent on 1992. The crude death rate for persons increased marginally from 57.9 deaths per 100,000 of population to 58.0. The rate increased for males from 48.4 to 50.7 but dropped for females from 67.4 deaths per 100,000 of population to 65.4. Female deaths accounted for 56.1 per cent of all deaths due to *cerebrovascular disease*. Of female deaths 93.6 per cent were aged 65 or over and 47.3 per cent were aged 85 or over. Of male deaths 88.8 per cent were aged 65 or over and 22.0 per cent were aged 85 or over.
- Respiratory system diseases** There were 801 deaths from *respiratory system diseases* in 1993 an increase of 6.8 per cent on 1992. Male deaths accounted for 62.2 per cent of all deaths due to *respiratory system diseases*. The crude death rate for persons increased from 45.2 deaths per 100,000 of population in 1992 to 47.8 in 1993. For males the 1993 rate was 59.1 and for females it was 36.3.
- OTHER CAUSES**
- Motor vehicle traffic accidents** The number of fatalities due to *motor vehicle traffic accidents* increased 2.4 per cent to 213 in 1993. Pedestrians accounted for 41 or 19.2 per cent of these deaths. The crude death rate due to *motor vehicle traffic accidents* increased from 12.5 per 100,000 of population in 1992 to 12.7 in 1993. There were 18.6 male deaths per 100,000 males and 6.7 female deaths per 100,000 females.
- The number of deaths due to *motor vehicle traffic accidents*, of persons whose usual residence was in the Perth Statistical Division decreased 12.5 per cent to 105. The death rate for the Perth Statistical Division was 0.1 deaths per 1,000 of population, compared with 0.1 for the State and 0.5 for the Kimberley Statistical Division.
- There were 56 females killed in *motor vehicle traffic accidents* in 1993 a drop of 17.6 per cent compared with 1992. Male deaths increased 12.1 per cent to 157. Male deaths accounted for 73.7 per cent of all *motor vehicle traffic accidents* deaths.
- Suicide** In 1993 there were 216 *suicides* 2 more than in 1992. Males accounted for 173 or 80.1 per cent of deaths by *suicide*. The crude death rate for males was 20.5 per 100,000 males and for females the rate was 5.2 per 100,000 females.
- For persons under the age of 40 the number of *suicides* dropped by 1 to 122 in 1993. In the 10 to 19 age group there were 21 *suicides*, all males. In the 20 to 29 year age group the number of male *suicides* dropped by 20 (37.0 per cent) to 34 in 1993. In the 30 to 39 year age group male *suicides* increased by 8 (21.6 per cent) to 45.
- Asthma** There were 58 deaths in 1993 where *asthma* was the underlying cause. Unpublished data shows there were a further 52 deaths where *asthma* was stated as a condition on the medical certificate of cause of death, but not as the underlying cause.
- SIDS** For Australia the number of deaths due to *Sudden Infant Death Syndrome* has decreased steadily from 373 in 1991 to 308 in 1992 and 266 in 1993. There were 35 *SIDS* deaths in Western Australia in 1993, compared with 27 in 1992 and 51 in 1991. Unpublished data shows that in 1993, 8 of the *SIDS* deaths were of Aboriginal infants.
- AIDS** There were 33 *AIDS* (*Acquired Immune Deficiency Syndrome*) related deaths in Western Australia in 1993, a slight decrease compared with 35 in 1992 and 34 in 1991. In contrast the number of deaths for Australia increased from 588 in 1991 to 643 in 1992 and 718 in 1993.
- Industrial disease** Unpublished data shows that in 1993 there were 20 deaths where exposure to asbestos (*industrial disease*) was either a contributing factor or the underlying cause of death as determined by a Coroner's inquiry. All but 2 of the deaths were of persons aged 60 or more and all but one of the deaths were males.

TABLE 1 - DEATHS: SUMMARY, WESTERN AUSTRALIA (a)

Particulars	1976	1981	1986	1991	1992	1993
Deaths -						
Males	4,475	4,658	5,250	5,226	5,352	5,632
Females	3,253	3,337	4,057	4,302	4,546	4,684
Persons	7,728	7,995	9,307	9,528	9,898	10,316
Sex ratio (male deaths per 100 female deaths)	138	140	129	121	118	120
Median age at death (years) -						
Males	68.2	69.8	71.7	72.2	72.5	72.6
Females	75.2	76.2	77.3	78.4	79.0	79.8
Crude death rate (b) -						
Males	7.5	7.1	7.2	6.3	6.4	6.7
Females	5.6	5.2	5.7	5.3	5.5	5.6
Persons	6.6	6.1	6.5	5.8	6.0	6.2
Infant deaths (c)	273	194	214	181	175	147
Infant mortality rate (d)	13.2	8.9	8.8	7.1	7.0	5.9

(a) Figures based on state of usual residence. (b) Number of deaths per 1,000 of mean estimated resident population. (c) Deaths of children aged under one year, excluding fetal deaths. (d) Number of infant deaths per 1,000 live births.

TABLE 2 - DEATHS: AGE AT DEATH BY SEX, NUMBERS, RATES AND PROPORTIONS, WESTERN AUSTRALIA

Age at death (years)	Number			Rate (a)			Proportion per cent
	1991	1992	1993	1991 r	1992 r	1993	1993
Males							
Under 1	102	98	93	7.9	7.8	7.4	1.7
1 - 4	18	27	20	0.3	0.5	0.4	0.4
5 - 9	8	14	9	0.1	0.2	0.1	0.2
10 - 14	6	10	18	0.1	0.2	0.3	0.3
15 - 19	61	61	61	0.9	0.9	0.9	1.1
20 - 24	103	89	87	1.5	1.3	1.2	1.5
25 - 29	88	87	86	1.3	1.3	1.3	1.5
30 - 34	71	85	99	1.0	1.2	1.4	1.8
35 - 39	96	87	121	1.5	1.3	1.8	2.1
40 - 44	107	91	105	1.6	1.4	1.6	1.9
45 - 49	142	141	144	2.8	2.6	2.5	2.6
50 - 54	214	203	201	5.3	4.8	4.6	3.6
55 - 59	276	250	287	8.4	7.4	8.1	5.1
60 - 64	433	410	431	13.8	13.0	13.7	7.7
65 - 69	605	631	627	22.9	23.2	22.5	11.1
70 - 74	653	733	770	36.0	38.2	37.6	13.7
75 - 79	823	821	847	62.5	61.2	63.8	15.0
80 - 84	728	770	807	98.8	101.1	101.3	14.3
85 and over	691	744	819	171.6	170.6	173.6	14.5
Total	5,226	5,352	5,632	6.3	6.4	6.7	100.0
Females							
Under 1	81	77	54	6.6	6.4	4.5	1.2
1 - 4	18	21	14	0.4	0.4	0.3	0.3
5 - 9	7	9	14	0.1	0.1	0.2	0.3
10 - 14	7	7	5	0.1	0.1	0.1	0.1
15 - 19	23	25	16	0.4	0.4	0.3	0.3
20 - 24	27	35	28	0.4	0.5	0.4	0.6
25 - 29	27	37	23	0.4	0.6	0.4	0.5
30 - 34	28	46	38	0.4	0.7	0.5	0.8
35 - 39	51	50	55	0.8	0.7	0.8	1.2
40 - 44	47	74	60	0.8	1.2	0.9	1.3
45 - 49	93	81	94	2.0	1.6	1.8	2.0
50 - 54	92	106	103	2.4	2.7	2.6	2.2
55 - 59	159	156	142	5.0	4.8	4.2	3.0
60 - 64	233	221	228	7.5	7.2	7.4	4.9
65 - 69	340	344	334	12.2	12.1	11.5	7.1
70 - 74	479	484	495	21.7	20.8	20.4	10.6
75 - 79	634	635	676	34.2	34.1	36.4	14.4
80 - 84	710	760	837	58.7	59.9	63.8	17.9
85 and over	1,246	1,378	1,468	139.2	145.1	144.4	31.3
Total	4,302	4,546	4,684	5.3	5.5	5.6	100.0

(a) Deaths per 1,000 mid-year population for each age group; deaths per 1,000 mean population for total all ages.

TABLE 3 - DEATHS; MONTH AND YEAR OF OCCURRENCE (a), WESTERN AUSTRALIA, 1988 to 1993

Month of occurrence	Year of occurrence					
	1988	1989	1990	1991	1992	1993
January	691	718	701	756	735	763
February	652	650	652	637	731	687
March	721	734	728	749	775	766
April	674	708	768	768	775	747
May	822	795	750	770	813	874
June	883	871	800	775	930	870
July	996	1,020	923	818	1,003	1,028
August	842	948	838	886	837	1,002
September	848	902	889	850	920	935
October	738	800	830	838	892	948
November	785	751	778	773	786	808
December	749	749	762	681	784	846
Total	9,401	9,646	9,419	9,301	9,981	10,274

(a) Figures in this table relate to deaths that occur in each month of the above 6 years and were registered up to 30 June 1994. They are subject to minor revision due to registrations after that date.

TABLE 4 - EXPECTATION OF LIFE, WESTERN AUSTRALIA

Expectation of life at exact age (years) (a)	1975	1980	1991	1992	1993
MALES					
0	69.43	71.52	75.07	75.24	75.05
1	69.47	71.51	74.67	74.81	74.60
10	60.92	62.81	65.81	66.04	65.76
20	51.42	53.25	56.10	56.37	56.12
30	42.12	43.88	46.82	47.05	46.78
40	32.84	34.51	37.34	37.58	37.42
50	24.05	25.63	28.09	28.22	28.12
60	16.24	17.53	19.64	19.65	19.62
65	12.92	13.93	15.87	15.80	15.78
70	10.06	10.84	12.46	12.43	12.38
80	5.70	6.14	7.04	7.10	7.04
FEMALES					
0	77.02	78.41	80.98	80.90	81.15
1	76.94	78.17	80.51	80.41	80.51
10	68.24	69.46	71.67	71.60	71.68
20	58.48	59.68	61.82	61.78	61.81
30	48.78	49.92	52.06	52.09	52.03
40	39.15	40.28	42.32	42.42	42.33
50	29.80	30.90	32.82	32.95	32.83
60	21.14	22.11	23.85	23.97	23.79
65	17.18	18.05	19.68	19.75	19.58
70	13.60	14.24	15.78	15.83	15.60
80	7.64	7.83	9.11	9.11	8.82

(a) Based on annual life tables calculated by the Australian Statistician. Because of the method of calculation, these figures are subject to annual fluctuations which may not be indicative of a long-term trend.

**TABLE 5 - DEATHS: STATE OR TERRITORY OF USUAL RESIDENCE
AND STATE OR TERRITORY OF REGISTRATION, 1993**

<i>State or Territory of usual residence</i>	<i>State or Territory of Registration</i>							<i>Australia</i>	
	<i>NSW</i>	<i>Vic.</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas.</i>	<i>NT</i>		<i>ACT</i>
New South Wales	42,387	194	261	36	12	2	7	170	43,069
Victoria	229	30,781	84	50	21	13	10	9	31,197
Queensland	258	28	19,658	5	5	1	9	8	19,972
South Australia	30	28	11	11,439	8	-	10	2	11,528
Western Australia	7	20	10	4	10,258	3	14	-	10,316
Tasmania	6	20	9	-	2	3,599	1	-	3,637
Northern Territory	6	3	12	38	7	-	699	-	765
Australian Capital Territory	53	4	3	4	3	-	2	1,041	1,110
Other Territories	2	-	-	-	2	-	-	1	5
Australia	42,978	31,078	20,048	11,576	10,318	3,618	752	1,231	121,599

**TABLE 6 - DEATHS: NUMBERS BY STATISTICAL LOCAL AREA OF USUAL RESIDENCE,
WESTERN AUSTRALIA, 1993**

<i>Statistical Division</i>					
<i>Subdivision</i>					
<i>Statistical Local Area</i>	<i>Males</i>	<i>Females</i>	<i>Persons</i>	<i>Aboriginal deaths</i>	<i>Rates(a)</i>
Perth	3,983	3,556	7,539	65	6.2
<i>Central Metropolitan</i>	<i>764</i>	<i>867</i>	<i>1,631</i>	<i>11</i>	<i>11.6</i>
Claremont (T)	51	68	119	-	12.9
Cottesloe (T)	35	38	73	1	9.7
Mosman Park (T)	50	39	89	1	11.6
Nedlands (C)	135	139	274	3	13.2
Peppermint Grove (S)	-	-	-	-	-
Perth(C) - Inner	-	-	-	-	-
Perth(C) - North	81	104	185	-	9.2
Perth(C) - Outer	83	68	151	1	12.9
Perth(C) - South	173	176	349	5	13.8
Perth(C) - Wembley Coastal	87	114	201	-	9.6
Subiaco (C)	69	121	190	-	12.6
<i>East Metropolitan</i>	<i>587</i>	<i>468</i>	<i>1,055</i>	<i>17</i>	<i>5.2</i>
Bassendean (T)	60	46	106	-	7.7
Bayswater (C)	158	134	292	3	6.3
Kalamunda (S)	106	86	192	1	4.0
Mundaring (S)	88	58	146	2	4.6
Swan (S)	175	144	319	11	5.2
<i>North Metropolitan</i>	<i>987</i>	<i>829</i>	<i>1,816</i>	<i>16</i>	<i>4.9</i>
Stirling (C) - Central	347	285	632	10	6.1
Stirling (C) - West	189	162	351	-	6.4
Stirling (C) - South-Eastern	161	167	328	2	16.1
Wanneroo(C)	290	215	505	4	2.6
<i>South West Metropolitan</i>	<i>815</i>	<i>666</i>	<i>1,481</i>	<i>6</i>	<i>6.0</i>
Cockburn (C)	163	146	309	2	5.8
East Fremantle (T)	28	31	59	-	9.2
Fremantle(C) - Inner	1	-	1	-	0.9
Fremantle(C) - Remainder	86	65	151	-	6.6
Kwinana (T)	52	37	89	2	4.7
Melville (C)	288	274	562	-	6.1
Rockingham (C)	197	113	310	2	6.0
<i>South East Metropolitan</i>	<i>830</i>	<i>726</i>	<i>1,556</i>	<i>15</i>	<i>5.9</i>
Armadale (C)	153	110	263	4	5.2
Belmont (C)	123	80	203	3	7.6
Canning (C)	230	202	432	3	6.2
Gosnells (C)	138	96	234	4	3.2
Serpentine-					
Jarrahdale (S)	20	6	26	-	2.9
South Perth (C)	166	232	398	1	11.4

TABLE 6 - DEATHS: NUMBERS BY STATISTICAL LOCAL AREA OF USUAL RESIDENCE,
WESTERN AUSTRALIA, 1993

<i>Statistical Division</i>					
<i>Subdivision</i>					
<i>Statistical Local Area</i>	<i>Males</i>	<i>Females</i>	<i>Persons</i>	<i>Aboriginal deaths</i>	<i>Rates(a)</i>
South West	575	428	1,003	11	6.5
<i>Dale</i>	190	143	333	1	7.1
Mandurah (T)	151	119	270	1	7.9
Murray (S)	28	15	43	-	4.7
Waroona (S)	11	9	20	-	6.3
<i>Preston</i>	231	182	413	8	6.1
Bunbury (C)	105	107	212	5	7.6
Capel (S)	28	10	38	-	6.5
Collie (S)	38	25	63	2	6.6
Dardanup (S)	12	12	24	-	4.0
Donnybrook-Balingup (S)	18	7	25	-	5.9
Harvey (S)	30	21	51	1	3.6
<i>Vasse</i>	97	67	164	-	7.3
Augusta-Margaret River (S)	22	18	40	-	5.7
Busselton (S)	75	49	124	-	7.9
<i>Blackwood</i>	57	36	93	2	5.4
Boyup Brook (S)	7	7	14	2	7.8
Bridgetown-Greenbushes (S)	10	4	14	-	3.4
Manjimup (S)	32	22	54	-	5.3
Nannup (S)	8	3	11	-	9.7
Lower Great Southern	207	145	352	8	7.1
<i>Pallinup</i>	38	29	67	4	5.2
Broomehill (S)	2	1	3	-	5.7
Gnowangerup (S)	6	2	8	-	4.3
Jerramungup (S)	1	1	2	-	1.4
Katanning (S)	19	12	31	3	6.4
Kent (S)	1	-	1	-	1.2
Kojonup (S)	8	10	18	-	7.5
Tambellup (S)	1	2	3	1	4.1
Woodanilling (S)	-	1	1	-	2.5
<i>King</i>	169	116	285	4	7.8
Albany (T)	93	84	177	3	11.3
Albany (S)	42	13	55	-	4.6
Cranbrook (S)	4	2	6	1	5.1
Denmark (S)	11	9	20	-	5.5
Plantagenet (S)	19	8	27	-	6.1
Upper Great Southern	69	49	118	9	5.4
<i>Hoitham</i>	63	43	106	9	6.4
Boddington (S)	4	2	6	-	4.2
Brookton (S)	9	2	11	-	10.8
Cuballing (S)	2	1	3	-	3.7
Dumbleyung (S)	2	-	2	-	2.3
Narrogin (T)	26	24	50	9	10.2
Narrogin (S)	-	-	-	-	-
Pingelly (S)	9	2	11	-	9.2
Wagin (S)	6	6	12	-	6.0
Wandering (S)	-	-	-	-	-
West Arthur (S)	1	2	3	-	2.9
Wickepin (S)	1	2	3	-	3.3
Williams (S)	3	2	5	-	4.7
<i>Lakes</i>	6	6	12	-	2.2
Corrigin (S)	1	4	5	-	3.6
Kondinin (S)	1	-	1	-	0.9
Kulin (S)	2	-	2	-	1.9
Lake Grace (S)	2	2	4	-	2.2
Midlands	198	120	318	19	6.3
<i>Moore</i>	31	20	51	4	4.4
Chittering (S)	3	1	4	-	1.7
Dandaragan (S)	10	3	13	-	5.5
Gingin (S)	7	2	9	-	2.8
Moora (S)	9	12	21	4	7.6
Victoria Plains (S)	2	2	4	-	4.0

TABLE 6 - DEATHS: NUMBERS BY STATISTICAL LOCAL AREA OF USUAL RESIDENCE,
WESTERN AUSTRALIA, 1993

<i>Statistical Division</i> <i>Subdivision</i> <i>Statistical Local Area</i>	<i>Males</i>	<i>Females</i>	<i>Persons</i>	<i>Aboriginal deaths</i>	<i>Rates(a)</i>
<i>Avon</i>	120	75	195	10	7.3
Beverley (S)	10	2	12	-	8.2
Cunderdin (S)	6	5	11	-	7.4
Dalwallinu (S)	11	4	15	-	8.5
Dowerin (S)	3	2	5	-	5.8
Goomalling (S)	8	4	12	1	10.7
Koorda (S)	1	1	2	-	3.2
Northam (T)	35	30	65	5	9.6
Northam (S)	10	1	11	-	3.6
Quairading (S)	5	4	9	2	7.6
Tammin (S)	5	2	7	2	15.0
Toodyay (S)	8	7	15	-	5.3
Wongan-Ballidu (S)	6	1	7	-	4.1
Wyalkatchem (S)	4	5	9	-	14.0
York (S)	8	7	15	-	5.5
<i>Campion</i>	47	25	72	5	5.9
Bruce Rock (S)	2	4	6	-	4.7
Kellerberrin (S)	6	4	10	2	7.6
Merredin (S)	12	10	22	2	5.7
Mount Marshall (S)	3	2	5	-	6.9
Mukinbudin (S)	3	1	4	-	5.8
Narembeen (S)	5	3	8	1	7.9
Nungarin (S)	2	-	2	-	6.4
Trayning (S)	5	-	5	-	9.8
Westonia (S)	-	-	-	-	-
Yilgarn (S)	9	1	10	-	4.6
South Eastern	195	114	309	42	6.0
<i>Lefroy</i>	145	85	230	39	6.2
Coolgardie (S)	15	5	20	2	3.6
Kalgoorlie-Boulder (C)	122	71	193	29	7.1
Laverton (S)	1	4	5	3	3.0
Leonora (S)	5	4	9	4	3.6
Menzies (S)	2	1	3	1	12.6
<i>Johnston</i>	50	29	79	3	5.4
Dundas (S)	13	2	15	2	9.3
Esperance (S)	31	26	57	1	5.0
Ravensthorpe (S)	6	1	7	-	5.0
Central	187	145	332	52	5.5
<i>Gascoyne</i>	27	18	45	11	4.4
Carnarvon (S)	21	16	37	11	5.6
Exmouth (S)	3	-	3	-	1.3
Shark Bay (S)	3	2	5	-	5.8
Upper Gascoyne (S)	-	-	-	-	-
<i>Carnegie</i>	22	11	33	21	5.5
Cue (S)	1	1	2	2	3.3
Meekatharra (S)	4	2	6	3	3.2
Mt Magnet (S)	3	3	6	2	5.3
Murchison (S)	-	-	-	-	-
Sandstone (S)	1	1	2	-	7.8
Wiluna (S)	11	3	14	13	8.7
Yalgoo (S)	2	1	3	1	7.2
<i>Greenough River</i>	138	116	254	20	5.8
Carnamah (S)	1	1	2	1	1.9
Chapman Valley (S)	-	-	-	-	-
Coorow (S)	-	1	1	-	0.6
Geraldton (C)	88	82	170	11	8.0
Greenough (S)	19	10	29	1	3.1
Irwin (S)	4	6	10	1	4.2
Mingenew (S)	-	1	1	-	1.6
Morawa (S)	5	1	6	1	5.8
Mullewa (S)	6	2	8	5	5.9
Northampton (S)	8	9	17	-	5.8
Perenjori (S)	2	1	3	-	4.0
Three Springs (S)	5	2	7	-	8.0
Pilbara	83	54	137	63	3.1
<i>De Grey</i>	37	33	70	46	3.3
East Pilbara (S)	17	19	36	29	3.8
Port Hedland (T)	20	14	34	17	2.8
<i>Fortescue</i>	46	21	67	17	3.0
Ashburton (S)	17	12	29	3	4.0
Roebourne (S)	29	9	38	14	2.6

TABLE 6 - DEATHS: NUMBERS BY STATISTICAL LOCAL AREA OF USUAL RESIDENCE, WESTERN AUSTRALIA, 1993

<i>Statistical Division</i>					
<i>Subdivision</i>					
<i>Statistical Local Area</i>	<i>Males</i>	<i>Females</i>	<i>Persons</i>	<i>Aboriginal deaths</i>	<i>Rates(a)</i>
Kimberley	109	55	164	117	7.0
<i>Ord</i>	44	27	71	55	8.4
Halls Creek (S)	24	9	33	30	12.6
Wyndham-East Kimberley (S)	20	18	38	25	6.5
<i>Fitzroy</i>	65	28	93	62	6.2
Broome (S)	29	12	41	20	5.0
Derby-West Kimberley (S)	36	16	52	42	7.5
Other (b)	26	18	44	-	-
Total Western Australia	5,632	4,684	10,316	386	6.2

(a) The 1993 crude death rates are based on the number of deaths per 1,000 of estimated resident population of the statistical local areas of Western Australia, published in Estimated Resident Population by Age and Sex in Statistical Local Areas, Western Australia, June 30 1993 (catalogue No 3203.5) and Deaths, Western Australia, 1993 (catalogue No 3312.5). The crude death rates do not take account of the differing age and sex distributions that exist in various areas. For example, areas with a high proportion of aged persons are likely to show high crude death rates while areas with a relatively younger population will probably show low death rates. (b) includes Western Australia undefined, offshore areas and migratory, Christmas and Cocos Keeling Islands.

TABLE 7 - DEATHS: LEADING CAUSES (a) BY STATISTICAL DIVISION OF USUAL RESIDENCE, NUMBERS, PROPORTIONS AND RATES, WESTERN AUSTRALIA, 1993

<i>Statistical division</i>	<i>Heart disease</i>	<i>Malignant neoplasms (cancer)</i>	<i>Cerebro-vascular disease (incl. stroke)</i>	<i>Respiratory system diseases</i>	<i>Motor vehicle traffic accidents</i>	<i>Suicide</i>	<i>All causes</i>
NUMBERS							
Perth	2,280	2,118	766	548	105	164	7,539
South West	295	286	73	98	19	14	1,003
Lower Great Southern	128	87	31	28	10	6	352
Upper Great Southern	29	27	14	11	9	2	118
Midlands	96	70	25	18	20	8	318
South Eastern	78	70	18	27	10	8	309
Central	90	86	21	30	15	4	332
Pilbara	30	31	12	14	9	4	137
Kimberley	26	24	9	22	12	6	164
Western Australia	3,072	2,803	973	801	213	216	10,316
PROPORTIONS (PER CENT)							
Perth	30.2	28.1	10.2	7.3	1.4	2.2	100.0
South West	29.4	28.5	7.3	9.8	1.9	1.4	100.0
Lower Great Southern	36.4	24.7	8.8	8.0	2.8	1.7	100.0
Upper Great Southern	24.6	22.9	11.9	9.3	7.6	1.7	100.0
Midlands	30.2	22.0	7.9	5.7	6.3	2.5	100.0
South Eastern	25.2	22.7	5.8	8.7	3.2	2.6	100.0
Central	27.1	25.9	6.3	9.0	4.5	1.2	100.0
Pilbara	21.9	22.6	8.8	10.2	6.6	2.9	100.0
Kimberley	15.9	14.6	5.5	13.4	7.3	3.7	100.0
Western Australia	29.8	27.2	9.4	7.8	2.1	2.1	100.0
RATES (b)							
Perth	1.9	1.7	0.6	0.4	0.1	0.1	6.2
South West	1.9	1.9	0.5	0.6	0.1	0.1	6.5
Lower Great Southern	2.6	1.7	0.6	0.6	0.2	0.1	7.1
Upper Great Southern	1.3	1.2	0.6	0.5	0.4	0.1	5.4
Midlands	1.9	1.4	0.5	0.4	0.4	0.2	6.3
South Eastern	1.5	1.4	0.3	0.5	0.2	0.2	6.0
Central	1.5	1.4	0.3	0.5	0.2	0.1	5.5
Pilbara	0.7	0.7	0.3	0.3	0.2	0.1	3.1
Kimberley	1.1	1.0	0.4	0.9	0.5	0.3	7.0
Western Australia	1.8	1.7	0.6	0.5	0.1	0.1	6.1

(a) Comprising the following: heart disease (ICD codes 393-398,402,404,410-416,420-429); malignant neoplasms (cancer) (ICD codes 140-208); cerebrovascular disease (ICD codes 430-438); respiratory system diseases (ICD codes 460-519); motor vehicle traffic accidents (ICD codes E810-819) and suicide (ICD codes E950-959). (b) Preliminary. Numbers of deaths per 1,000 mid-year population. These crude death rates do not take account of the differing age and sex distributions that exist in various areas. For example, areas with a high proportion of aged persons are likely to show higher crude death rates while areas with a relatively younger population will usually show lower death rates.

TABLE 8 — DEATHS: NUMBERS, PROPORTIONS AND RATES FOR LEADING CAUSES (a), BY SEX, WESTERN AUSTRALIA, 1993

<i>Particulars</i>	<i>Heart disease</i>	<i>Malignant neoplasms (cancer)</i>	<i>Cerebro-vascular disease (incl. stroke)</i>	<i>Respiratory system diseases</i>	<i>Motor vehicle traffic accidents</i>	<i>Suicide</i>	<i>All causes</i>
Numbers							
Males	1,661	1,558	427	498	157	173	5,632
Females	1,411	1,245	546	303	56	43	4,684
Persons	3,072	2,803	973	801	213	216	10,316
Proportions by sex (%)							
Males	54.1	55.6	43.9	62.2	73.7	80.1	54.6
Females	45.9	44.4	56.1	37.8	26.3	19.9	45.4
Persons	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Proportions by cause of death (%)							
Males	29.5	27.7	7.6	8.8	2.8	3.1	100.0
Females	30.1	26.6	11.7	6.5	1.2	0.9	100.0
Persons	29.8	27.2	9.4	7.8	2.1	2.1	100.0
Crude death rates (b)							
Males	197.1	184.9	50.7	59.1	18.6	20.5	668.3
Females	169.1	149.2	65.4	36.3	6.7	5.2	561.4
Persons	183.2	167.1	58.0	47.8	12.7	12.9	615.1
Standardised death rates (c)							
Western Australia	197.3	181.2	62.1	51.7	12.8	13.0	659.3
Australia	201.8	180.1	65.1	50.3	11.1	11.7	663.4

(a) Comprising the following: heart disease (ICD codes 393-398,402,404,410-416, 420-429); malignant neoplasms (cancer) (ICD codes 140-208); cerebrovascular disease (ICD codes 430-438); respiratory system diseases (ICD codes 460-519); motor vehicle traffic accidents (ICD codes E810-E819) and suicide (ICD codes E950-E959). (b) Number of deaths per 100,000 mean population. (c) Deaths per 100,000 population, standardised for age and sex using the 1991 Australian population as the standard population.

**DEATHS FROM MOTOR VEHICLE TRAFFIC ACCIDENTS
BY AGE AND SEX, WESTERN AUSTRALIA, 1993**

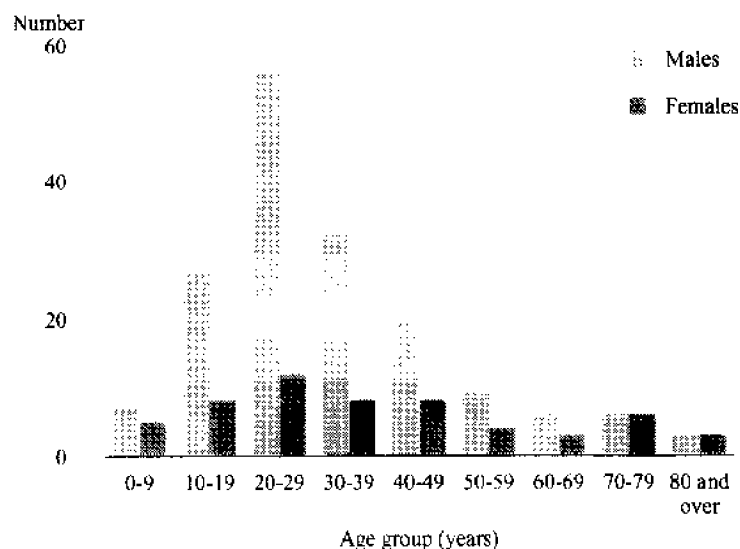


TABLE 9—DEATHS: CAUSE BY SEX, WESTERN AUSTRALIA

Cause of death and ICD code (Classes and selected categories)		1991		1992		1993	
		Males	Females	Males	Females	Males	Females
<i>Class I</i>	<i>Infectious and parasitic diseases (001-139)</i>	40	46	43	22	38	40
<i>Class II</i>	<i>Neoplasms (140-239)</i>	1,429	1,130	1,489	1,183	1,578	1,263
	Malignant neoplasms (cancer) (140-208)	1,415	1,124	1,472	1,170	1,558	1,245
	Lip, oral cavity and pharynx (140-149)	22	20	48	13	43	21
	Stomach (151)	73	35	88	47	60	38
	Colon (153)	125	125	112	136	151	123
	Pancreas (157)	50	59	53	55	60	59
	Other digestive organs and peritoneum (150, 152, 154-156, 158, 159)	150	113	154	103	145	102
	Respiratory and intrathoracic organs (160-165)	434	173	394	162	456	196
	Melanoma of skin (172)	36	24	35	38	59	17
	Breast (174, 175)	3	192	1	209	—	215
	Genitourinary organs (179-189)	236	164	263	132	286	177
	Other and unspecified sites (170-171, 173, 190-199)	145	112	181	158	175	160
	Lymphatic and haematopoietic tissue (200-208)	141	107	143	117	123	137
<i>Class III</i>	<i>Endocrine, nutritional and metabolic diseases and immunity disorders (240-279)</i>	152	118	158	135	156	152
	Diabetes mellitus (250)	85	88	107	107	110	126
<i>Class IV</i>	<i>Diseases of blood and blood-forming organs (280-289)</i>	17	13	19	14	12	10
<i>Class V</i>	<i>Mental disorders (290-319)</i>	69	64	69	125	78	112
<i>Class VI</i>	<i>Diseases of the nervous system and sense organs (320-389)</i>	111	113	133	149	148	151
<i>Class VII</i>	<i>Diseases of the circulatory system (390-459)</i>	2,095	2,005	2,108	2,027	2,246	2,111
	All heart disease (393-398, 402, 404, 410-416, 420-429)	1,578	1,338	1,557	1,315	1,661	1,411
	Acute myocardial infarction (410)	818	656	828	634	839	654
	Other ischaemic heart disease (411-414)	521	397	514	383	545	456
	Cerebrovascular disease (incl. stroke) (430-438)	348	510	403	556	427	546
<i>Class VIII</i>	<i>Diseases of the respiratory system (460-519)</i>	448	254	459	291	498	303
	Pneumonia and influenza (480-487)	97	75	101	81	94	77
	Chronic obstructive pulmonary disease and allied conditions (490-496)	297	138	308	175	330	188
<i>Class IX</i>	<i>Diseases of the digestive system (520-579)</i>	162	156	170	182	158	153
	Ulcer of stomach and duodenum (531-533)	35	38	25	38	28	31
	Chronic liver disease and cirrhosis (571)	57	23	65	27	58	18
<i>Class X</i>	<i>Diseases of the genitourinary system (580-629)</i>	70	75	70	67	79	67
	Nephritis, nephrotic syndrome and nephrosis (580-589)	51	42	41	46	55	47
<i>Class XI</i>	<i>Complications of pregnancy, childbirth and the puerperium (630-676)</i>	—	—	—	—	—	1
<i>Class XII</i>	<i>Diseases of the skin and subcutaneous tissue (680-709)</i>	3	7	9	8	4	17
<i>Class XIII</i>	<i>Diseases of the musculoskeletal system and connective tissue (710-739)</i>	18	29	15	29	20	38
<i>Class XIV</i>	<i>Congenital anomalies (740-759)</i>	46	42	42	30	33	28
<i>Class XV</i>	<i>Certain conditions originating in the perinatal period (760-779)</i>	32	25	31	40	32	21
<i>Class XVI</i>	<i>Symptoms, signs and ill-defined conditions (780-799)</i>	33	26	57	29	29	18
<i>Class XVII</i>	<i>Accidents, poisonings and violence (external causes) (E800-E999)</i>	501	199	480	215	523	199
	Motor vehicle traffic accidents (E810-E819)	156	52	140	68	157	56
	Accidental drowning and submersion (E910)	22	9	30	9	19	6
	Suicide (E950-E959)	170	42	172	42	173	43
All causes		5,226	4,302	5,352	4,546	5,632	4,684

TABLE 10 — DEATHS: CAUSE BY SEX AND AGE GROUP, WESTERN AUSTRALIA, 1993

Cause of death and ICD code (Classes and selected categories)	Sex	Age group (years)											85 and over	Total
		Under 1	1-14	15-24	25-44	45-54	55-64	65-74	75-79	80-84				
Class I <i>Infectious and parasitic diseases (001-139)</i>	M	5	2	—	1	2	4	11	6	2	5	38		
	F	—	2	—	2	—	1	4	11	7	13	40		
Class II <i>Neoplasms (140-239)</i> Malignant neoplasms (cancer) (140-208) Lip, oral cavity and pharynx (140-149) Stomach (151) Colon (153) Pancreas (157) Other digestive organs and peritoneum (150, 152, 154-156, 158, 159) Respiratory and intrathoracic organs (160-165) Melanoma of skin (172) Breast (174, 175) Genitourinary organs (179-189) Other and unspecified sites (170-171, 173, 190-199) Lymphatic and haematopoietic tissue (200-208)	M	—	7	7	70	107	293	500	264	194	136	1,578		
	F	1	8	7	64	117	198	350	198	150	170	1,263		
	M	—	7	7	70	107	292	493	258	191	133	1,558		
	F	1	8	7	64	117	194	347	193	149	165	1,245		
	M	—	—	—	1	5	16	17	17	1	3	43		
	F	—	—	—	—	1	4	9	9	1	2	4	21	
	M	—	—	—	2	4	6	18	6	14	10	60		
	F	—	—	—	3	4	2	9	4	6	10	38		
	M	—	—	—	7	11	22	46	23	28	14	151		
	F	—	—	1	5	9	12	34	20	16	26	123		
	M	—	—	—	1	3	19	17	14	1	1	5	60	
	F	—	—	—	2	4	5	25	8	8	7	59		
M	—	—	—	5	16	24	24	57	19	7	17	145		
F	—	—	—	4	8	18	18	21	18	11	22	102		
M	—	—	—	13	29	110	165	68	47	24	24	456		
F	—	—	—	2	20	31	72	35	23	13	13	196		
M	—	—	—	9	5	13	14	9	7	2	2	59		
F	—	—	—	4	1	1	7	7	2	1	1	17		
M	—	—	—	—	—	—	—	—	—	—	—	—		
F	—	—	—	21	34	43	43	42	28	26	21	215		
M	—	—	—	2	5	26	26	75	78	53	47	286		
F	—	—	—	9	17	31	31	59	22	18	20	177		
M	—	—	1	15	19	36	36	54	21	16	7	175		
F	—	—	2	7	12	29	29	38	29	19	22	160		
M	—	—	4	15	10	20	20	30	19	15	7	123		
F	1	6	3	7	7	18	18	31	26	19	19	137		
Class III <i>Endocrine, nutritional and metabolic diseases and immunity disorders (240-279)</i> Diabetes mellitus (250)	M	2	1	2	22	18	21	39	19	13	19	156		
	F	—	—	4	2	4	16	38	16	35	37	152		
	M	—	—	2	5	11	18	32	16	11	15	110		
	F	—	—	1	—	4	14	33	11	34	29	126		
Class IV <i>Diseases of blood and blood-forming organs (280-289)</i>	M	—	1	1	—	—	1	2	2	3	2	12		
	F	—	—	1	1	2	1	1	2	1	1	10		
Class V <i>Mental disorders (290-319)</i>	M	—	—	1	7	6	6	13	14	16	15	78		
	F	—	1	—	5	1	2	15	11	20	57	112		
Class VI <i>Diseases of the nervous system and sense organs (320-389)</i>	M	4	4	2	12	6	11	23	17	30	39	148		
	F	2	3	1	4	7	10	17	21	29	57	151		

TABLE 10 — DEATHS: CAUSE BY SEX AND AGE GROUP, WESTERN AUSTRALIA, 1993—continued

Cause of death and ICD code (Classes and selected categories)	Sex	Age group (years)										Total
		Under 1	1-14	15-24	25-44	45-54	55-64	65-74	75-79	80-84	85 and over	
Class VII Diseases of the circulatory system (390-459) All heart disease (393-398, 402, 404, 410-416, 420-429) Acute myocardial infarction (410) Other ischaemic heart disease (411-414) Cerebrovascular disease (incl. stroke) (430-438)	M	1	2	5	62	107	263	596	374	412	424	2,246
	F	—	1	2	22	30	87	276	312	467	914	2,111
	M	1	2	4	52	93	222	436	281	270	300	1,661
	F	—	1	1	13	19	65	203	215	306	588	1,411
	M	—	—	1	19	42	113	235	167	150	112	839
	F	—	—	—	3	7	26	102	117	156	243	654
	M	—	—	—	18	37	75	143	77	73	122	545
	F	—	—	—	—	7	26	63	66	94	200	456
	M	—	—	—	8	10	30	110	66	109	94	427
	F	—	—	1	9	8	17	53	68	132	258	546
Class VIII Diseases of the respiratory system (460-519) Pneumonia and influenza (480-487) Chronic obstructive pulmonary disease and allied conditions (490-496)	M	5	—	2	18	13	42	130	93	88	107	498
	F	—	2	2	5	7	20	68	55	61	83	303
	M	3	—	1	11	6	9	13	15	10	26	94
	F	—	2	—	2	2	5	9	4	15	38	77
	M	1	—	1	4	6	25	101	64	64	64	330
	F	—	—	1	2	4	12	53	46	38	32	188
	M	2	1	—	12	13	31	40	18	20	21	158
	F	—	—	—	6	4	11	23	19	26	64	153
	M	—	—	—	—	—	5	6	3	9	5	28
	F	—	—	—	—	—	1	4	3	5	18	31
Class IX Diseases of the digestive system (520-579) Ulcer of stomach and duodenum (531-533) Chronic liver disease and cirrhosis (571)	M	—	—	—	8	11	18	16	3	—	2	58
	F	—	—	—	3	2	7	5	—	1	—	18
	M	—	2	—	—	2	2	5	21	21	26	79
	F	—	—	—	—	3	6	10	11	17	20	67
	M	—	—	—	—	2	6	3	14	17	19	55
	F	—	—	—	—	2	6	4	10	15	10	47
	F	—	—	—	1	—	—	—	—	—	—	1
	M	—	—	—	1	1	—	—	—	—	2	4
	F	—	—	—	—	1	2	1	2	2	9	17
	Class XI Complications of pregnancy, childbirth and the puerperium (630-676)	M	20	3	2	1	1	3	3	—	—	—
F		17	5	1	1	—	—	1	—	1	2	28
M		—	1	—	—	2	1	7	3	1	5	20
F		—	—	—	3	—	2	7	7	8	11	38
M		—	—	—	—	—	—	—	—	—	—	—
F		—	—	—	—	—	—	—	—	—	—	—
M		—	—	—	—	—	—	—	—	—	—	—
F		—	—	—	—	—	—	—	—	—	—	—
M		—	—	—	—	—	—	—	—	—	—	—
F		—	—	—	—	—	—	—	—	—	—	—

TABLE 10 — DEATHS: CAUSE BY SEX AND AGE GROUP, WESTERN AUSTRALIA, 1993—continued

Cause of death and ICD code (Classes and selected categories)	Sex	Age group (years)										Total		
		Under 1	1-14	15-24	25-44	45-54	55-64	65-74	75-79	80-84	85 and over			
Class XV Certain conditions originating in the perinatal period (760-779)	M	31	1	—	—	—	—	—	—	—	—	—	—	32
	F	21	—	—	—	—	—	—	—	—	—	—	—	21
Class XVI Symptoms, signs and ill-defined conditions (780-799)	M	22	2	—	—	1	—	2	1	—	—	—	—	29
	F	11	—	—	—	2	1	1	1	—	—	—	—	18
Class XVII Accidents, poisonings and violence (external causes) (E800-E999)	M	1	20	126	205	66	40	26	15	7	17	—	—	523
	F	2	11	26	60	19	13	17	10	13	28	—	—	199
	M	1	9	57	54	19	7	4	4	1	1	—	—	157
	F	1	6	14	15	6	3	6	2	3	—	—	—	56
	M	—	1	5	8	3	—	1	1	—	—	—	—	19
	F	—	1	—	—	—	1	2	—	—	—	—	—	6
	M	—	2	37	77	24	18	9	1	3	2	—	—	173
	F	—	—	6	19	5	5	4	2	2	—	—	—	43
	M	93	47	148	411	345	718	1,397	847	807	819	—	—	5,632
	F	54	33	44	176	197	370	829	676	837	1,468	—	—	4,684
All causes														

TABLE 11 — DEATHS: NUMBERS, PROPORTIONS AND RATES FOR AGE GROUPS, BY SELECTED CAUSES AND SEX, WESTERN AUSTRALIA

Age group, cause of death and ICD code.	1993		Rate (a)		
	Number	Proportion (b) per cent	1991 r	1992 r	1993
MALES					
<i>Under 1 year</i>					
All causes	93	100.0	7.9	7.6	7.2
<i>Congenital anomalies (740-759)</i>	20	21.5	2.1	2.6	1.5
<i>Certain conditions originating in the perinatal period (760-779)</i>	31	33.3	2.5	2.4	2.4
<i>Hypoxia, birth asphyxia and other respiratory conditions (768-770)</i>	11	11.8	1.5	0.9	0.9
<i>Symptoms, signs and ill-defined conditions (780-799)</i>	22	23.7	2.2	1.6	1.7
<i>Sudden death, cause unknown (798)</i>	22	23.7	2.2	1.6	1.7
<i>1-14 years</i>					
All causes	47	100.0	17.5	27.8	25.6
<i>Malignant neoplasms (cancer) (140-208)</i>	7	14.9	3.8	2.2	3.8
<i>Diseases of nervous system and sense organs (320-389)</i>	4	8.5	0.5	3.3	2.2
<i>Accidents, poisonings and violence (E800-E999)</i>	20	42.6	9.9	14.7	10.9
<i>Motor vehicle traffic accidents (E810-E819)</i>	9	19.1	3.8	6.5	4.9
<i>Accidents caused by submersion, suffocation and foreign bodies (E910-E915)</i>	2	4.3	3.3	4.9	1.1
<i>15-24 years</i>					
All causes	148	100.0	122.3	111.7	110.0
<i>Accidents, poisonings and violence (E800-E999)</i>	126	85.1	92.5	93.1	93.6
<i>Motor vehicle traffic accidents (E810-E819)</i>	57	38.5	47.0	39.5	42.3
<i>Suicide (E950-E959)</i>	37	25.0	28.3	35.0	27.5
<i>25-44 years</i>					
All causes	411	100.0	134.6	130.1	152.8
<i>Malignant neoplasms (cancer) (140-208)</i>	70	17.0	14.9	18.2	26.0
<i>Diseases of the circulatory system (390-459)</i>	62	15.1	21.2	17.1	23.0
<i>Accidents, poisonings and violence (E800-E999)</i>	205	49.9	72.2	66.9	76.2
<i>Motor vehicle traffic accidents (E810-E819)</i>	54	13.1	17.5	16.7	20.1
<i>Suicide (E950-E959)</i>	77	18.7	28.3	26.0	28.6
<i>45-54 years</i>					
All causes	345	100.0	390.8	356.4	339.9
<i>Malignant neoplasms (cancer) (140-208)</i>	107	31.0	130.6	105.7	105.4
<i>Malignant neoplasms of respiratory and intrathoracic organs (160-165)</i>	29	8.4	45.0	33.2	28.6
<i>Diseases of the circulatory system (390-459)</i>	107	31.0	115.3	119.1	105.4
<i>Acute myocardial infarction (410)</i>	42	12.2	45.0	45.6	41.4
<i>Accidents, poisonings and violence (E800-E999)</i>	66	19.1	65.9	52.8	65.0
<i>55-64 years</i>					
All causes	718	100.0	1,101.3	1,009.5	1,075.3
<i>Malignant neoplasms (cancer) (140-208)</i>	292	40.7	466.0	416.0	437.3
<i>Malignant neoplasms of respiratory and intrathoracic organs (160-165)</i>	110	15.3	174.0	133.1	164.7
<i>Diseases of the circulatory system (390-459)</i>	263	36.6	408.5	362.5	393.9
<i>Acute myocardial infarction (410)</i>	113	15.7	175.5	165.2	169.2
<i>65-74 years</i>					
All causes	1,397	100.0	2,824.2	2,939.1	2,891.8
<i>Malignant neoplasms (cancer) (140-208)</i>	493	35.3	960.8	1,045.1	1,020.5
<i>Malignant neoplasms of respiratory and intrathoracic organs (160-165)</i>	165	11.8	314.3	316.7	341.6
<i>Diseases of the circulatory system (390-459)</i>	596	42.7	1,248.2	1,247.6	1,233.7
<i>Acute myocardial infarction (410)</i>	235	16.8	545.5	543.0	486.5
<i>75 years and over</i>					
All causes	2,473	100.0	9,125.7	9,197.3	9,526.2
<i>Malignant neoplasms (cancer) (140-208)</i>	582	23.5	2,075.9	2,178.2	2,241.9
<i>Diseases of the circulatory system (390-459)</i>	1,210	48.9	4,505.9	4,435.2	4,661.0
<i>Acute myocardial infarction (410)</i>	429	17.3	1,620.0	1,622.8	1,652.5
<i>Other ischaemic heart disease (411-414)</i>	272	11.0	993.2	953.2	1,047.8
<i>Cerebrovascular disease (incl. stroke) (430-438)</i>	269	10.9	932.1	1,063.5	1,036.2
<i>Diseases of the respiratory system (460-519)</i>	288	11.6	1,042.0	1,051.7	1,109.4
<i>Total all ages</i>					
All causes	5,632	100.0	634.8	642.2	668.3
<i>Malignant neoplasms (cancer) (140-208)</i>	1,558	27.7	171.9	176.6	184.9
<i>Malignant neoplasms of respiratory and intrathoracic organs (160-165)</i>	456	8.1	52.7	47.3	54.1
<i>Malignant neoplasms of genitourinary organs (179-189)</i>	286	5.1	28.7	31.6	33.9
<i>Diseases of the circulatory system (390-459)</i>	2,246	39.9	254.5	252.9	266.5
<i>Acute myocardial infarction (410)</i>	839	14.9	99.4	99.3	99.6
<i>Other ischaemic heart disease (411-414)</i>	545	9.7	63.3	61.7	64.7
<i>Cerebrovascular disease (incl. stroke) (430-438)</i>	427	7.6	42.3	48.4	50.7
<i>Diseases of the respiratory system (460-519)</i>	498	8.8	54.4	55.1	59.1
<i>Chronic obstructive pulmonary disease and allied conditions (490-496)</i>	330	5.9	36.1	37.0	39.2
<i>Accidents, poisonings and violence (E800-E999)</i>	523	9.3	60.9	57.6	62.1

See footnotes at end of table.

TABLE 11 — DEATHS: NUMBERS, PROPORTIONS AND RATES FOR AGE GROUPS, BY SELECTED CAUSES AND SEX, WESTERN AUSTRALIA—continued

Age group, cause of death and ICD code.	1993		Rate (a)		
	Number	Proportion(b) per cent	1991 r	1992 r	1993
FEMALES					
<i>Under 1 year</i>					
All causes	54	100.0	6.5	6.3	4.4
<i>Congenital anomalies (740-759)</i>	17	31.5	1.8	1.2	1.4
<i>Certain conditions originating in the perinatal period (760-779)</i>	21	38.9	2.0	3.3	1.7
<i>Disorders relating to short gestation and unspecified low birthweight (765)</i>	8	14.8	1.1	1.2	0.7
<i>Hypoxia, birth asphyxia and other respiratory conditions (768-770)</i>	5	9.3	0.6	0.8	0.4
<i>Symptoms, signs and ill-defined conditions (780-799)</i>	11	20.4	1.7	0.6	0.9
<i>Sudden death, cause unknown (798)</i>	11	20.4	1.6	0.6	0.9
<i>1-14 years</i>					
All causes	33	100.0	18.6	21.4	19.0
<i>Malignant neoplasms (cancer) (140-208)</i>	8	24.2	3.5	1.7	4.6
<i>Diseases of the nervous system and sense organs (320-389)</i>	3	9.1	0.6	2.9	1.7
<i>Congenital anomalies (740-759)</i>	5	15.2	1.7	4.6	2.9
<i>Accidents, poisonings and violence (E800-E999)</i>	11	33.3	7.0	8.1	6.3
<i>Motor vehicle traffic accidents (E810-E819)</i>	6	18.2	2.9	1.7	3.5
<i>15-24 years</i>					
All causes	44	100.0	39.0	46.8	34.3
<i>Malignant neoplasms (cancer) (140-208)</i>	7	15.9	1.6	3.9	5.5
<i>Accidents, poisonings and violence (E800-E999)</i>	26	59.1	25.7	28.9	20.3
<i>Motor vehicle traffic accidents (E810-E819)</i>	14	31.8	10.9	17.9	10.9
<i>Suicide (E950-E959)</i>	6	13.6	7.8	3.9	4.7
<i>25-44 years</i>					
All causes	176	100.0	57.9	77.9	66.0
<i>Malignant neoplasms (cancer) (140-208)</i>	64	36.4	19.7	34.2	24.0
<i>Malignant neoplasms of breast (174)</i>	21	11.9	6.8	12.0	7.9
<i>Diseases of the circulatory system (390-459)</i>	22	12.5	6.1	6.4	8.2
<i>Accidents, poisonings and violence (E800-E999)</i>	60	34.1	21.2	24.1	22.5
<i>Motor vehicle traffic accidents (E810-E819)</i>	15	8.5	6.4	9.0	5.6
<i>Suicide (E950-E959)</i>	19	10.8	6.8	6.4	7.1
<i>45-54 years</i>					
All causes	197	100.0	219.9	209.5	210.2
<i>Malignant neoplasms (cancer) (140-208)</i>	117	59.4	127.2	116.5	124.8
<i>Malignant neoplasms of respiratory and intrathoracic organs (160-165)</i>	20	10.2	17.8	12.3	21.3
<i>Malignant neoplasms of breast (174)</i>	34	17.3	41.6	30.3	36.3
<i>Malignant neoplasms of genitourinary organs (179-189)</i>	17	8.6	17.8	17.9	18.1
<i>Diseases of the circulatory system (390-459)</i>	30	15.2	35.7	37.0	32.0
<i>Acute myocardial infarction (410)</i>	7	3.6	8.3	12.3	7.5
<i>Cerebrovascular disease (incl. stroke) (430-438)</i>	8	4.1	13.1	13.4	8.5
<i>Accidents, poisonings and violence (E800-E999)</i>	19	9.6	23.8	25.8	20.3
<i>55-64 years</i>					
All causes	370	100.0	625.0	593.3	572.9
<i>Malignant neoplasms (cancer) (140-208)</i>	194	52.4	314.1	316.3	300.4
<i>Malignant neoplasms of breast (174)</i>	43	11.6	51.0	75.5	66.6
<i>Diseases of the circulatory system (390-459)</i>	87	23.5	175.4	163.7	134.7
<i>Acute myocardial infarction (410)</i>	26	7.0	70.2	53.5	40.3
<i>65-74 years</i>					
All causes	829	100.0	1,637.1	1,603.1	1,552.9
<i>Malignant neoplasms (cancer) (140-208)</i>	347	41.9	605.7	615.7	650.0
<i>Diseases of the circulatory system (390-459)</i>	276	33.3	689.6	609.9	517.0
<i>Acute myocardial infarction (410)</i>	102	12.3	247.9	230.4	191.1
<i>Cerebrovascular disease (incl. stroke) (430-438)</i>	53	6.4	131.9	127.8	99.3
<i>75 years and over</i>					
All causes	2,981	100.0	6,544.2	6,798.2	7,123.4
<i>Malignant neoplasms (cancer) (140-208)</i>	507	17.0	1,154.7	1,098.3	1,211.5
<i>Diseases of the circulatory system (390-459)</i>	1,693	56.8	3,777.4	3,802.4	4,045.6
<i>Acute myocardial infarction (410)</i>	516	17.3	1,210.3	1,147.3	1,233.0
<i>Other ischaemic heart disease (411-414)</i>	360	12.1	722.6	686.4	860.3
<i>Cerebrovascular disease (incl. stroke) (430-438)</i>	458	15.4	1,023.3	1,105.7	1,094.4
<i>Total all ages</i>					
All causes	4,684	100.0	528.9	551.4	561.4
<i>Malignant neoplasms (cancer) (140-208)</i>	1,245	26.6	138.2	141.9	149.2
<i>Diseases of the circulatory system (390-459)</i>	2,111	45.1	246.5	245.9	253.0
<i>Acute myocardial infarction (410)</i>	654	14.0	80.7	76.9	78.4
<i>Other ischaemic heart disease (411-414)</i>	456	9.7	48.8	46.5	54.7
<i>Cerebrovascular disease (incl. stroke) (430-438)</i>	546	11.7	62.7	67.4	65.4
<i>Diseases of the respiratory system (460-519)</i>	303	6.5	31.2	35.3	36.3

(a) Deaths per 100,000 of the estimated mid-year population for each age-group other than age Under 1 year; deaths per 1,000 live births for age Under 1 year; deaths per 100,000 of mean resident population for Total all ages. (b) Of all deaths of the same age and sex.

TABLE 12 - SELECTED CAUSES OF DEATH: WESTERN AUSTRALIA COMPARED TO AUSTRALIA, 1991-1993

State of usual residence	1991			1992			1993		
	No.	Per cent	Rate(a)	No.	Per cent	Rate(a)	No.	Per cent	Rate(a)
ACCIDENTAL DROWNINGS (910) (b)									
Western Australia	31	0.3	1.9	39	0.4	2.4	25	0.2	1.5
Australia	269	0.2	1.6	291	0.2	1.7	288	0.2	1.6
AIDS (c)									
Western Australia	34	0.4	2.1	35	0.4	2.1	33	0.3	2.0
Australia	588	0.5	3.4	643	0.5	3.7	718	0.6	4.1
ASTHMA (493)									
Western Australia	46	0.5	2.8	57	0.6	3.4	58	0.6	3.5
Australia	750	0.6	4.3	759	0.6	4.3	777	0.6	4.4
FIREARMS (922, 955, 965, 970 and 985) (d)									
Western Australia	43	0.5	2.6	39	0.4	2.4	45	0.4	2.7
Australia	634	0.5	3.7	624	0.5	3.6	526	0.4	3.0
HOMICIDES (960-969)									
Western Australia	27	0.3	1.6	37	0.4	2.2	35	0.3	2.1
Australia	354	0.3	2.0	319	0.3	1.8	326	0.3	1.8
ISCHAEMIC HEART DISEASE (410-414)									
Western Australia	2,392	25.1	146.2	2,359	23.8	142.3	2,494	24.2	148.7
Australia	30,323	25.5	175.4	31,482	25.5	180.0	29,759	24.5	168.5
LEUKEMIAS (200-208)									
Western Australia	248	2.6	15.2	260	2.6	15.7	260	2.5	15.5
Australia	2,965	2.5	17.2	3,092	2.5	17.7	3,221	2.6	18.2
MALIGNANT MELANOMA OF SKIN (172)									
Western Australia	60	0.6	3.7	73	0.7	4.4	76	0.7	4.5
Australia	815	0.7	4.7	871	0.7	5.0	854	0.7	4.8
MALIGNANT MELANOMA OF TRACHEA, BRONCHUS AND LUNG (162)									
Western Australia	565	5.9	34.5	508	5.1	30.6	577	5.6	34.4
Australia	6,282	5.3	36.3	6,400	5.2	36.6	6,380	5.2	36.1
MALIGNANT NEOPLASMS (140-208)									
Western Australia	2,539	26.6	155.1	2,642	26.7	159.4	2,803	27.2	167.1
Australia	31,285	26.3	181.0	32,033	25.9	183.2	32,691	26.9	185.1
MOTOR VEHICLE TRAFFIC ACCIDENTS (810-819)									
Western Australia	208	2.2	12.7	208	2.1	12.5	213	2.1	12.7
Australia	2,221	1.9	12.8	2,066	1.7	11.8	1,956	1.6	11.1
MOTOR VEHICLE TRAFFIC ACCIDENTS - INVOLVING PEDESTRIANS (814)									
Western Australia	37	0.4	2.3	19	0.2	1.1	41	0.4	2.4
Australia	368	0.3	2.1	356	0.3	2.0	331	0.3	1.9
SUDDEN INFANT DEATH SYNDROME (7980)									
Western Australia	51	0.5	3.1	27	0.3	1.6	35	0.3	2.1
Australia	373	0.3	2.2	308	0.2	1.8	266	0.2	1.5
SUICIDES (950-959)									
Western Australia	212	2.2	13.0	214	2.2	12.9	216	2.1	12.9
Australia	2,360	2.0	13.7	2,294	1.9	13.1	2,081	1.7	11.8
TEENAGE SUICIDES (AGE GROUP 10 - 19 YEARS)									
Western Australia	14	0.1	0.9	20	0.2	1.2	21	0.2	1.3
Australia	168	0.1	0.9	163	0.1	0.9	135	0.1	0.8
TOTAL DEATHS									
Western Australia	9,528	100.0	582.0	9,898	100.0	597.1	10,316	100	615.1
Australia	119,146	100.0	689.2	123,660	100.0	707.3	121,594	100	688.4

(a) Rate per 100,000 of mean estimated resident population at 31 December. The rates do not take account of the differing age and sex distributions that exist in different States of Australia. For example, some States may have a higher proportion of aged persons which could show higher death rates while States with a relatively younger population will probably show lower death rates. (b) Includes all drownings in swimming pools, the ocean, lakes, ponds etc., whilst swimming, fishing, surfing etc. (c) Includes deaths where AIDS was an underlying cause of death and where it was mentioned as a condition on the medical cause of death certificate. (d) Deaths from firearms includes deaths in suicides (955), homicides (965), accidents (922), legal (police) intervention (970) and undetermined accidents (985).

TABLE 13 - SUICIDES: WESTERN AUSTRALIA COMPARED TO AUSTRALIA, 1991-1993

Year and State of usual residence	Age group (years)										Total
	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70-79	80+	
1991											
Western Australia-											
Males	-	12	26	23	40	26	22	8	10	3	170
Females	-	2	8	4	7	10	3	3	3	2	42
Persons	-	14	34	27	47	36	25	11	13	5	212
Per cent of Total	-	6.6	16.0	12.7	22.2	17.0	11.8	5.2	6.1	2.4	100.0
Male Rate (a)	-	18.1	38.4	34.1	29.5	22.4	29.9	13.8	31.9	26.3	20.7
Female Rate (a)	-	3.2	12.3	6.0	5.2	9.2	4.3	5.1	7.4	9.5	5.2
Total Rate (a)	-	10.8	25.6	20.1	17.3	16.0	17.4	9.4	18.1	15.4	13.0
Australia-											
Males	6	133	243	206	444	305	203	140	109	58	1,847
Females	2	21	65	56	93	91	71	53	40	21	513
Persons	8	154	308	262	537	396	274	193	149	79	2,360
Per cent of Total	0.3	6.5	13.1	11.1	22.8	16.8	11.6	8.2	6.3	3.3	100.0
Male Rate (a)	0.9	19.0	34.4	29.3	32.2	25.8	25.3	20.4	28.1	45.1	21.4
Female Rate (a)	0.3	3.2	9.4	8.0	6.8	8.0	9.2	7.3	7.9	8.2	5.9
Total Rate (a)	0.6	11.3	22.1	18.7	19.5	17.0	17.4	13.7	16.6	20.6	13.7
1992											
Western Australia-											
Males	-	17	30	24	37	22	17	16	7	2	172
Females	-	3	2	3	7	11	8	5	-	3	42
Persons	-	20	32	27	44	33	25	21	7	5	214
Per cent of Total	-	9.3	15.0	12.6	20.6	15.4	11.7	9.8	3.3	2.3	100.0
Male Rate (a)	-	26.1	43.2	36.1	27.0	18.3	22.2	27.1	21.2	16.2	20.6
Female Rate (a)	-	4.9	3.0	4.6	5.1	9.7	11.1	8.4	-	13.3	5.1
Total Rate (a)	-	15.8	23.5	20.4	16.0	14.1	16.8	17.7	9.3	14.4	12.9
Australia-											
Males	5	125	253	226	386	306	184	173	118	44	1,820
Females	2	31	46	42	103	83	57	48	44	18	474
Persons	7	156	299	268	489	389	241	221	162	62	2,294
Per cent of Total	0.3	6.8	13.0	11.7	21.3	17.0	10.5	9.6	7.0	2.7	100.0
Male Rate (a)	0.8	18.4	34.8	32.6	27.6	25.2	22.4	25.2	29.4	32.5	20.9
Female Rate (a)	0.3	4.8	6.5	6.1	7.4	7.0	7.2	6.7	8.4	6.8	5.4
Total Rate (a)	0.6	11.8	20.9	19.4	17.5	16.2	15.0	15.7	17.5	15.4	13.1
1993 (b)											
Western Australia-											
Males	2	19	18	16	45	31	20	11	6	5	173
Females	-	-	6	6	10	5	5	3	6	2	43
Persons	2	19	24	22	55	36	25	14	12	7	216
Per cent of Total	0.9	8.8	11.1	10.2	25.5	16.7	11.6	6.5	5.6	3.2	100.0
Male Rate (a)	3.1	29.4	25.7	24.5	32.6	25.0	25.4	18.6	17.8	39.4	20.5
Female Rate (a)	-	-	9.0	9.3	7.2	4.2	6.8	5.0	14.0	8.6	5.2
Total Rate (a)	1.6	15.1	17.5	17.0	19.9	14.9	16.4	11.8	15.7	19.5	12.9
Australia-											
Male	4	111	234	200	358	288	177	160	99	56	1,687
Female	1	19	36	38	93	70	47	38	35	17	394
Persons	5	130	270	238	451	358	224	198	134	73	2,081
Per cent of Total	0.2	6.2	13.0	11.4	21.7	17.2	10.8	9.5	6.4	3.5	100.0
Male Rate (a)	0.6	16.7	31.8	29.3	25.4	23.0	21.1	23.3	23.9	38.9	19.2
Female Rate (a)	0.2	3.0	5.0	5.6	6.6	5.7	5.8	5.3	6.5	6.1	4.4
Total Rate (a)	0.4	10.0	18.6	17.5	16.0	14.5	13.6	14.1	14.1	17.3	11.8

(a) Deaths per 100,000 of estimated mid-year population for each age group. (b) 1993 rates are preliminary, as the estimated resident population figures were preliminary at the date of publication.

TABLE 14 - PERINATAL DEATHS: NUMBERS AND RATES BY SEX, WESTERN AUSTRALIA, 1988-1993 (a)

Year	Fetal deaths			Neonatal deaths			Perinatal deaths		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
NUMBER									
1988	104	73	177	77	48	125	181	121	302
1989	78	67	145	72	56	128	150	123	273
1990	108	79	187	66	51	117	174	130	304
1991	101	106	207	52	46	98	153	152	305
1992	82	83	165	62	49	111	144	132	276
1993	96	66	162	47	33	80	143	99	242
RATE (b)									
1988	8.0	5.9	7.0	6.0	3.9	5.0	13.9	9.8	11.9
1989	6.1	5.4	5.8	5.6	4.6	5.1	11.7	10.0	10.8
1990	8.2	6.4	7.3	5.0	4.2	4.6	13.2	10.5	11.9
1991	7.7	8.4	8.1	4.0	3.7	3.9	11.7	12.1	11.9
1992	6.3	6.8	6.5	4.8	4.0	4.4	11.1	10.8	10.9
1993	7.4	5.4	6.4	3.6	2.7	3.2	10.9	8.1	9.6

(a) Figures are based on Western Australian definitions. See explanatory notes (4). (b) Number of fetal deaths or perinatal deaths per 1,000 live births and fetal deaths combined. Number of neonatal deaths per 1,000 live births.

TABLE 15 - PERINATAL DEATHS: FETAL, NEONATAL AND PERINATAL DEATHS, MAIN CAUSE OR CONDITION IN FETUS/INFANT AND MOTHER, WESTERN AUSTRALIA, 1992-1993 (a).

Cause of Death	1993			1992			
	Fetal deaths	Neonatal deaths	Perinatal	Males	Females	Persons	Perinatal deaths
Main condition in fetus/infant							
Slow fetal growth, fetal malnutrition and immaturity (764,765)	14	17	20	11	31	32	
Birth trauma (767)	-	2	2	-	2	9	
Hypoxia, birth asphyxia and other respiratory conditions (768-770)	36	16	21	31	52	68	
Fetal and neonatal haemorrhage (772)	3	2	1	4	5	3	
Other conditions originating in the perinatal period (766, 771, 774-779)	80	12	58	34	92	90	
Congenital anomalies (740-759)	27	25	29	23	52	63	
All other causes (remainder of 001-999)	2	6	6	2	8	11	
Total	162	80	137	105	242	276	
Main condition in mother							
Maternal conditions which may be unrelated to present pregnancy (760)	23	2	14	11	25	23	
Maternal complications of pregnancy (761)	17	25	28	14	42	37	
Complications of placenta, cord and membranes (762)	60	16	46	30	76	82	
Other complications of labour and delivery (763)	7	2	5	4	9	9	
No maternal condition reported	55	35	50	40	90	125	
Total	162	80	143	99	242	276	

(a) Figures are based on Western Australian definitions. See explanatory notes (4).

TABLE 16 - INFANT DEATHS AND DEATH RATES: AGE AT DEATH BY SEX, WESTERN AUSTRALIA, 1993

Age at death	Number (a)			Infant death rate (b)		
	Males	Females	Persons	Males	Females	Persons
Under 1 day	30	20	50	2.3	1.6	2.0
1 day and under 7 days	8	8	16	0.6	0.7	0.6
1 week and under 4 weeks	9	5	14	0.7	0.4	0.6
Total under 4 weeks	47	33	80	3.6	2.7	3.2
4 weeks and under 12 months	45	18	63	3.5	1.5	2.5
Total under 1 year	92	51	143	7.1	4.2	5.7

(a) Deaths of children aged under 1 year, excluding fetal deaths. (b) Number of infant deaths per 1,000 live births.

TABLE 17 - WESTERN AUSTRALIAN INFANT DEATHS 1993: SELECTED DETAILS

Particulars	Fetal deaths	Neonatal deaths	Perinatal deaths		Persons	Postneonatal (a) deaths	Total infant deaths
			Males	Females			
WEIGHT AT BIRTH (GRAMS)							
001 - 499	43	14	34	23	57	-	57
500 - 999	32	27	37	22	59	7	66
1000 - 1999	29	10	22	17	39	5	44
2000 - 2999	29	12	23	18	41	7	48
3000 or more	25	16	25	16	41	30	71
Not known	4	1	2	3	5	14	19
Total	162	80	143	99	242	63	305
PERIOD OF GESTATION (WEEKS)							
19 - 27	70	42	69	43	112		
28 - 36	55	13	38	30	68		
37 - 41	37	20	34	23	57		
42 or more	-	1	-	1	1		
Not known	-	4	2	2	4		
Total	162	80	143	99	242	63	305
AGE GROUP OF MOTHER (YEARS)							
Under 20	19	9	17	11	28	4	32
20 - 24	30	8	24	14	38	21	59
25 - 29	38	23	38	23	61	12	73
30 - 34	50	27	40	37	77	12	89
35 - 39	20	9	18	11	29	4	33
40 or more	3	1	3	1	4	1	5
Not known	2	3	3	2	5	9	14
Total	162	80	143	99	242	63	305

(a) Period of gestation is not applicable for postneonatal deaths.

TABLE 18 - ABORIGINAL DEATHS: AGE AT DEATH, NUMBER AND PROPORTION, WESTERN AUSTRALIA, 1993

Age at death (years)	Aboriginal deaths			Total deaths	
	Number			Proportion (per cent)	Proportion (per cent)
	Males	Females	Persons	Persons	Persons
Under 1	17	8	25	6.5	1.4
1 - 14	9	7	16	4.1	0.8
15 - 24	17	5	22	5.7	1.9
25 - 34	27	6	33	8.5	2.4
35 - 44	33	15	48	12.4	3.3
45 - 54	32	16	48	12.4	5.3
55 - 64	35	34	69	17.9	10.5
65 and over	59	66	125	32.4	74.4
Total	229	157	386	100.0	100.0

TABLE 19 - ABORIGINAL AND TOTAL CAUSES OF DEATH,
WESTERN AUSTRALIA, 1993 (a)

Cause of death	Age group (years)								Total
	0-4	5-19	20-39	40-49	50-59	60-69	70-79	80+	
<i>Heart Disease</i>									
Aboriginal Deaths									
Number	-	-	9	7	21	18	9	6	70
Per cent	-	-	12.9	10.0	30.0	25.7	12.9	8.6	100.0
Total Deaths									
Number	2	3	51	61	178	447	866	1,464	3,072
Per cent	0.1	0.1	1.7	2.0	5.8	14.6	28.2	47.7	100.0
<i>Malignant Neoplasms</i>									
Aboriginal Deaths									
Number	-	2	3	2	7	13	8	5	40
Per cent	-	5.0	7.5	5.0	17.5	32.5	20.0	12.5	100.0
Total Deaths									
Number	3	17	89	140	333	674	909	638	2,803
Per cent	0.1	0.6	3.2	5.0	11.9	24.0	32.4	22.8	100.0
<i>Diabetes Mellitus</i>									
Aboriginal Deaths									
Number	-	-	3	3	6	9	9	3	33
Per cent	-	-	9.1	9.1	18.2	27.3	27.3	9.1	100.0
Total Deaths									
Number	-	1	4	12	17	50	63	89	236
Per cent	-	0.4	1.7	5.1	7.2	21.2	26.7	37.7	100.0
<i>Cerebrovascular Disease</i>									
Aboriginal Deaths									
Number	-	-	-	4	2	4	7	9	26
Per cent	-	-	-	15.4	7.7	15.4	26.9	34.6	100.0
Total Deaths									
Number	-	-	12	15	19	108	226	593	973
Per cent	-	-	1.2	1.5	2.0	11.1	23.2	60.9	100.0
<i>Respiratory System Diseases</i>									
Aboriginal Deaths									
Number	1	1	8	6	10	7	9	8	50
Per cent	2.0	2.0	16.0	12.0	20.0	14.0	18.0	16.0	100.0
Total Deaths									
Number	7	1	12	20	38	124	260	339	801
Per cent	0.9	0.1	1.5	2.5	4.7	15.5	32.5	42.3	100.0
<i>Accidents, Poisonings and Violence</i>									
Aboriginal Deaths									
Number	4	11	37	8	3	2	1	1	67
Per cent	6.0	16.4	55.2	11.9	4.5	3.0	1.5	1.5	100.0
Total Deaths									
Number	12	86	304	103	60	39	53	65	722
Per cent	1.7	11.9	42.1	14.3	8.3	5.4	7.3	9.0	100.0
<i>Other Causes</i>									
Aboriginal Deaths									
Number	29	1	13	12	12	9	14	10	100
Per cent	29.0	1.0	13.0	12.0	12.0	9.0	14.0	10.0	100.0
Total Deaths									
Number	157	15	65	52	88	178	411	743	1,709
Per cent	9.2	0.9	3.8	3.0	5.1	10.4	24.0	43.5	100.0
<i>Total</i>									
Aboriginal Deaths									
Number	34	15	73	42	61	62	57	42	386
Per cent	8.8	3.9	18.9	10.9	15.8	16.1	14.8	10.9	100.0
Total Deaths									
Number	181	123	537	403	733	1,620	2,788	3,931	10,316
Per cent	1.8	1.2	5.2	3.9	7.1	15.7	27.0	38.1	100.0

(a) Comprising the following: heart disease (ICD codes 393-398,402,404,410-416,420-429); malignant neoplasms (cancer) (ICD codes 140-208); diabetes mellitus (ICD code 250); cerebrovascular disease (ICD codes 430-438); respiratory system diseases (ICD codes 460-519); accidents poisonings and violence (ICD codes 800-999). Caution should be used when comparing Aboriginal and Total causes of death because data on Aboriginal death rates were not available for 1993. A comprehensive comparison was last published in the 1991 Deaths publication, table 19.

EXPLANATORY NOTES

Introduction

The statistics in this publication relate to the deaths of usual residents of Western Australia. Publications containing similar information for other Australian States are also available.

2. The registration of deaths is the responsibility of the individual State and Territory Registrars and is based on information supplied by a relative or another person acquainted with the deceased (or by an official of the institution where the death occurred) and on information supplied by a medical practitioner or coroner as to the cause of death. This information is supplied to the ABS, by individual Registrars, for compilation into the aggregate statistics in this publication.

Definitions

3. *General deaths*, i.e. those included in Tables 1 to 13, 18 and 19, comprise the deaths of people of all ages. Fetal deaths are excluded.

The *crude death rate* is the number of deaths registered during the calendar year per 1,000 or 100,000 (as appropriate) of mean estimated resident population for the calendar year.

The *infant mortality rate* is the number of deaths of children under 1 year of age per 1,000 live births.

The *median value*, (*age, duration or interval*), is that value which divides the relevant population into two equal parts, half falling below this value and half exceeding it. Where the value for a particular record has not been stated, that record is excluded from the calculation.

4. *Infant and perinatal deaths*, included in Tables 14 to 17, comprise fetal, neonatal and postneonatal deaths as defined below.

(a) *Fetal death* relates to the delivery of a child which did not, at any time after delivery, breathe or show any other evidence of life such as a heartbeat.

(b) *Neonatal death* relates to any child who is born alive (as defined under live birth) and who dies within 28 days after birth.

(c) *Postneonatal death* relates to the death of a child at an age greater than 28 days but less than 365 days i.e. from 1 month to 1 year.

(d) *Infant deaths* are all deaths of infants under 1 year of age, and is the total of fetal, neonatal and postneonatal deaths.

(e) Due to State legislative requirements, in Western Australia a fetal and Neonatal death relates to the delivery of a child weighing at least 400 grams (Australia 500 grams) at delivery or 20 weeks gestation (Australia 22 weeks). The fetal and neonatal death can still be registered if the birthweight is under 400 grams (Australia 500

grams), provided gestation is 20 weeks (Australia 22 weeks) or more, or if gestation is under 20 weeks (Australia 22 weeks), provided birthweight is 400 grams (Australia 500 grams) or more. Western Australia deletes those records under 400 grams and 20 weeks gestation. This definition of fetal and neonatal deaths is used in Tables 14 to 17.

5. *Live birth* is the delivery of a child who after being born, breathes or shows any other evidence of life such as a heartbeat. For Table 14 (perinatal deaths) the live birth figures used to calculate rates have been adjusted to exclude live births known to have weighed under 400 grams at birth and, (where birthweight was unknown), of less than 20 weeks gestation.

6. *Period of gestation*. For perinatal deaths, period of gestation is measured from the first day of the last normal menstrual period to the date of birth and is expressed in completed weeks.

7. The *standardised death rate* obtained by the direct method may be defined as the overall death rate that would have prevailed in a standard population if it had experienced at each age the death rates of the population being studied. The standardised death rates shown in Table 8 for Western Australia and Australia have been calculated using the direct method, and the 1991 Australian population has been used as the standard.

8. These definitions are based on the recommendations of the ninth (1975) Revision of the World Health Organisation's International Classification of Diseases (ICD).

Year of occurrence and year of registration

9. The statistics in this publication principally refer to deaths registered, not those which actually occurred, in the years shown. Normally about 5 to 6 per cent of deaths occurring in one year are not registered until the following year or even later. Table 3 however shows deaths according to the month and year of occurrence for the latest six years.

State of usual residence and state of registration

10. *General deaths*. Figures shown in this publication represent deaths of usual residents of Western Australia, regardless of where in Australia the death occurred or was registered. Table 5 shows the number of deaths cross classified by State or Territory of usual residence and State or Territory of registration. Deaths of people normally resident in Western Australia which occurred overseas are excluded from this publication. Deaths of people usually resident overseas but which occurred in Western Australia are included in the Western Australian figures.

11. *Perinatal deaths*. The figures have been compiled on a State of usual residence basis, i.e. they represent the deaths of those fetuses and neonates whose mothers were usual residents of Western Australia.

12. Deaths statistics on a State of registration basis can be made available on request.

Cause of death classifications used in this publication

13. The causes of death in this publication are classified according to the Ninth (1975) Revision of the World Health Organisation's International Classification of Diseases (ICD) which was adopted for world wide use from 1979.

14. For general deaths, particulars relate to the *underlying cause of death*, which the World Health Organisation (WHO) has defined as the disease or injury which initiated the train of morbid events leading directly to death. Accidental and violent deaths are classified according to the external cause, i.e. to the circumstance of the accident or violence which produced the fatal injury rather than to the nature of the injury. Deaths of infants aged less than 1 month are classified according to the main condition in the infant which contributed to the deaths.

15. For perinatal deaths, causes of death have been classified to the main *condition in the fetus/infant and also to the main condition in the mother*.

16. The extensive nature of the ICD enables classification of causes of death at fine levels of detail. Only abridged classifications have been used in this publication in order to present an overview of causes of death.

17. All the cause of death tables in this publication show the ICD codes which constitute the causes of death shown, hence the relationships between the various classifications used can be readily ascertained.

Australian Standard Geographical Classification

18. The Australian Standard Geographical Classification (ASGC), Edition 8, is used for tables 6 and 7.

19. *Local Government Areas (LGAs)* are spatial units which represent the geographical areas of incorporated local government councils, such as Cities (C), Towns (T) and Shires (S).

20. *Statistical Local Areas (SLAs)* are the smallest types of spatial units in the ASGC for which data are presented in this publication. Except for the cities of Perth, Fremantle and Stirling each of which is comprised of a number of SLAs, the respective LGAs are the same as the SLAs of the same name. In aggregate, SLAs cover the whole of the State without gaps or overlaps.

21. In 1993 Christmas and Cocos Keeling Islands were assigned SLA codes for the first time. Persons who fall into the categories 'address of usual residence overseas' or 'of no fixed abode' were also allocated SLA codes. In table 6 the above are included in 'other'.

22. *Statistical subdivisions (SSDs)* consist of one or more SLAs.

23. *Statistical divisions*, which are groupings of SLAs, are designed to be relatively homogenous regions characterised by identifiable social and economic units within the region.

Tabulation procedures

24. Most of the classifications presented in the tables have a 'not stated' category to allow for the very small number of cases where the relevant details are not

reported. Such categories have been suppressed throughout this publication but the figures for them have been included with the relevant totals.

25. *Unknown time of cessation of heartbeat*. For some perinatal deaths it is not known whether the time of cessation of heartbeat occurred before or after delivery. Such cases have been included with fetal deaths.

Data quality

26. The registration of deaths is the responsibility of the individual State and Territory Registrars of Births, Deaths and Marriages. As part of the registration process, information as to the cause of death is supplied by the medical practitioner certifying the death or by a coroner. Other information about the deceased is supplied by a relative or other person acquainted with the deceased, or by an official of the institution where the death occurred. This information is provided to the ABS by individual Registrars for compilation into aggregate statistics shown in this publication.

27. In compiling statistics on death, the ABS employs a variety of quality control measures to ensure that the statistics are as reliable as possible. These measures include: contacting Registries to obtain missing information and to query unlikely details; seeking further information where necessary from the certifying doctor or coroner to enable accurate classification of the underlying cause of death; check-coding of cause of death; detailed computer editing of data and checks on the statistical output, at the individual record and aggregate levels.

Related publications

28. Publications for other States containing deaths statistics corresponding to those included in this publication, are available on request. Each State bulletin has a catalogue number of 3312 and a suffixed number appropriate to the State of publication.

29. The population figures used in this publication for the calculation of rates come from the national publication *Estimated Resident Population by Sex and Age, States and Territories of Australia, June 1987 to June 1992*, (Catalogue No.3201.0, cost \$12.20) published July 21, 1993. The 1993 figures in this publication are preliminary.

30. Users may also wish to refer to the following publications, which are available on request.

Australia	Catalogue No.
Deaths	3302.0
Causes of Death	3303.0
Perinatal Deaths	3304.0
Western Australia	
Demography	3311.5
Cause of Death Certification	1205.5

31. Current publications produced by the ABS are listed in the *Catalogue of Publications and Products* (1101.0). The ABS also issues the *Publications Advice* (1105.0) on Tuesdays and Fridays which lists publications to be released in the next few days. Both the Catalogue and the Publications are available from any ABS Office.

Unpublished statistics

32. As well as the statistics included in this and related publications, the ABS may have other relevant unpublished data available.

33. The data items available for tabulations are listed in Appendix A and information on unpublished tabulations routinely produced is given in Appendix B. For further information on these unpublished statistics contact Mike Joske on (09) 360 5276, fax (09) 360 5958, or write to Information Services, Australian Bureau of Statistics, GPO Box K881 Perth WA 6001.

Symbols and other usages

34. The following symbols, where shown in columns of figures or elsewhere in tables mean:

ICD International Classification of Diseases (produced by the World Health Organisation)

M Males

F Females

P Persons

p preliminary figure or series subject to revision

r figures or series revised since previous issue

- nil or rounded to zero (including null cells)

35. Where figures have been rounded, discrepancies may occur between totals and the sums of the component items.

APPENDIX A**DATA ITEMS AVAILABLE****General Deaths**

Month and year of registration of death
Day, month and year of death
State in which death was registered
Sex
Age at death
Occupation (aged 15 to 64 only)
Underlying cause of death
Birthplace
Period of residence in Australia if born overseas
Statistical Local Area of usual residence (confidentiality restraints may apply)
Marital status
Number of children of the deceased
Aboriginality
Age at first marriage
Whether or not certified cause of death was confirmed by post-mortem examination

Perinatal deaths

Particulars relating to death
Month and year of registration
Whether or not certified cause of death was confirmed by post-mortem examination
Particulars relating to mother
Age
Statistical Local Area of usual residence (confidentiality restraints may apply)
Previous issue
Aboriginality
Particulars relating to child
Date of birth
Sex
Plurality
Birthweight
Aboriginality
Age at death, if born alive
Cessation of heartbeat (before or during labour, after delivery etc.)
Time dead in utero, if stillborn
Main disease or condition in fetus or infant
Main maternal disease or condition affecting fetus or infant

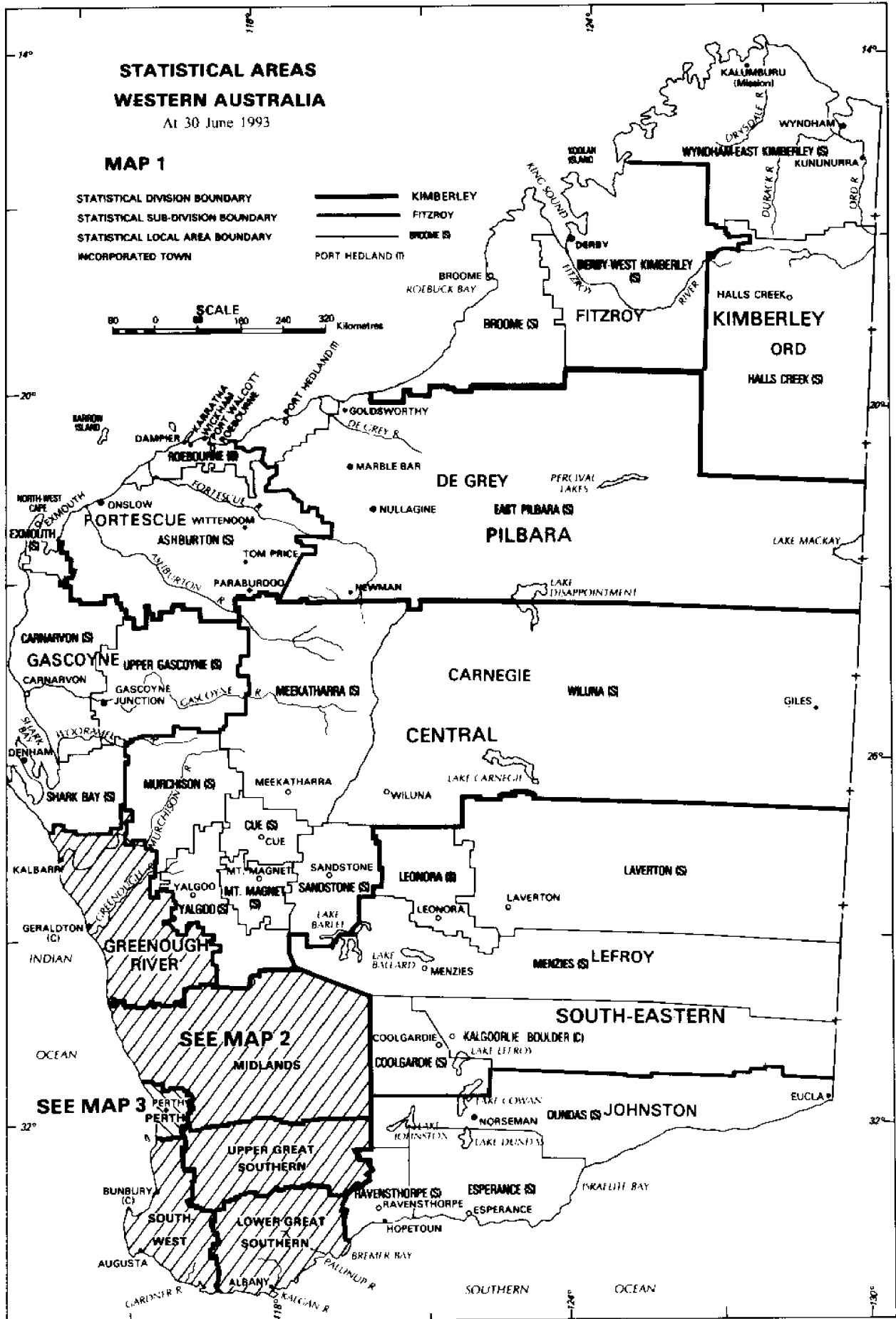
APPENDIX B**Unpublished Tables (subject to confidentiality constraints)****Table number****General deaths (a)**

- 1 Cause of death (60 groups) by age (5-year groups) by sex
- 2 Cause of death (ICD three digit level) by sex
- 3 Cause of death (ICD three digit level) by age (5-year groups) by sex
- 4 Cause of death (ICD four digit level) by sex
- 5 Cause of death (ICD four digit level) by sex (5-year groups) by sex
- 6 Cause of death (ICD three digit level) by usual residence (Capital City/Statistical Division/other) by age (10 year groups) by sex
- 7 Cause of death (ICD three digit level) by Statistical Division of usual residence by age (10 year groups) by sex
- 8 Infant deaths by cause of death (ICD three digit level) by age (days/weeks/months) by sex
- 9 Infant deaths by cause of death (ICD four digit level) by age (days/weeks/months) by sex

Perinatal deaths

- 1 Main condition in fetus/infant by age of mother by sex
- 2 Main condition in fetus/infant by weight at birth by sex
- 3 Main condition in fetus/infant by period of gestation by sex
- 4 Main condition in fetus by time of cessation of heartbeat by sex
- 5 Main condition in infant by age at death by sex
- 6 Main condition in fetus/infant (ICD four digit level) by cessation of heartbeat by sex
- 7 Main condition in fetus/infant by main condition in mother by sex
- 8 Main condition in fetus by State or Territory of usual residence of mother by sex
- 9 Main condition in mother by age of mother by sex
- 10 Main condition in mother by weight at birth by sex
- 11 Main condition in mother by period of gestation by sex
- 12 Main condition in mother by time of cessation of heartbeat by sex
- 13 Main condition in mother by age at death by sex
- 14 Main condition in mother (ICD four digit level) by cessation of heartbeat by sex
- 15 Main condition in mother affecting fetus/infant by State or Territory of usual residence of mother
- 16 Time of cessation of heartbeat by sex by State or Territory of registration

(a) Available for each State and Territory and for Australia. All tables are compiled on the basis of the State or Territory of usual residence of the deceased. However, tables 1 to 5 are also compiled on the basis of the State or Territory of registration of the death.

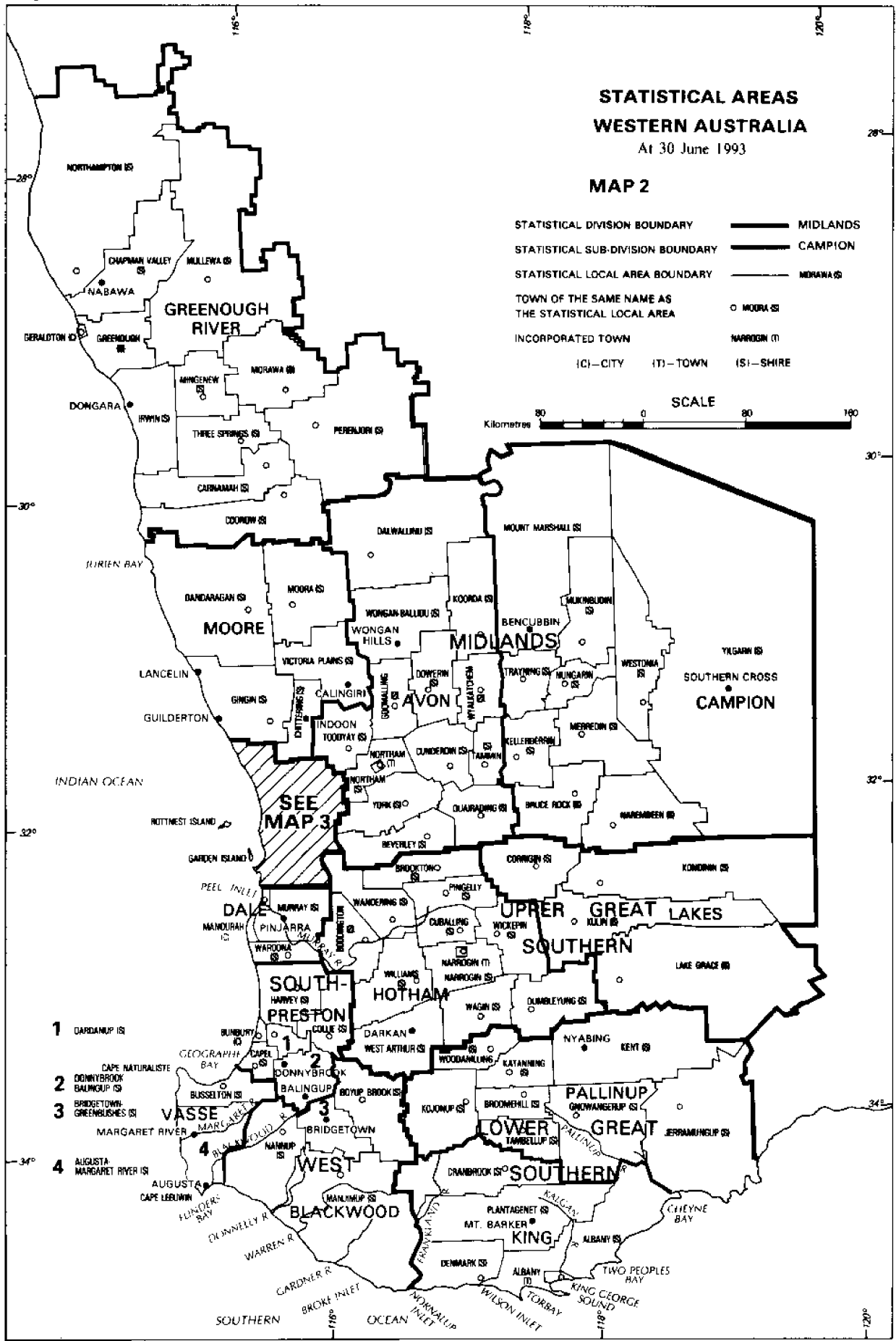
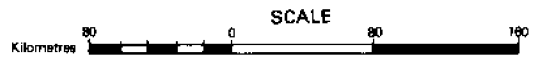


**STATISTICAL AREAS
WESTERN AUSTRALIA**

At 30 June 1993

MAP 2

- | | | |
|--|--|-----------------------------------|
| STATISTICAL DIVISION BOUNDARY | | MIDLANDS |
| STATISTICAL SUB-DIVISION BOUNDARY | | CAMPION |
| STATISTICAL LOCAL AREA BOUNDARY | | MORAWA (S) |
| TOWN OF THE SAME NAME AS
THE STATISTICAL LOCAL AREA | | MOORA (S) |
| INCORPORATED TOWN | | NARROGIN (T) |
| | | (C) - CITY (T) - TOWN (S) - SHIRE |



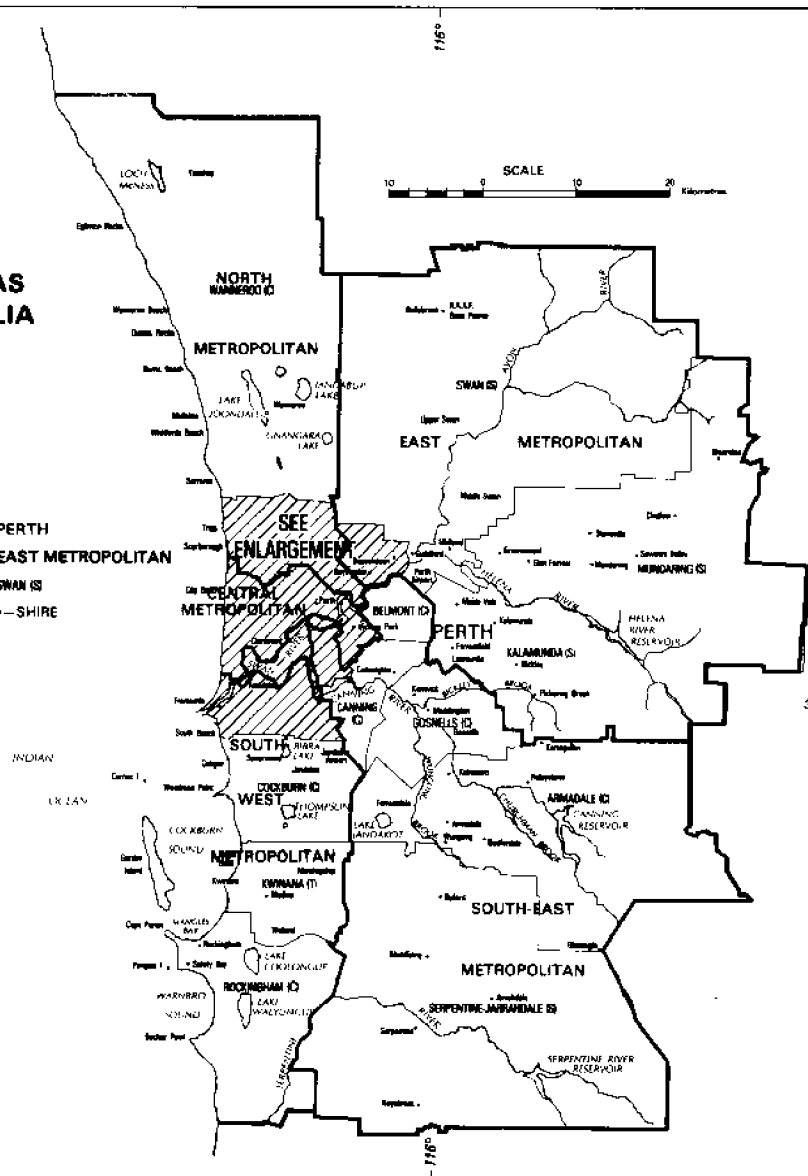
SEE MAP 3

- 1 GARDANUP (S)
- 2 DONNYBROOK (S)
- 3 BRIDGETOWN (S)
- 4 AUGUSTA (S)

**STATISTICAL AREAS
WESTERN AUSTRALIA**
At 30 June 1993

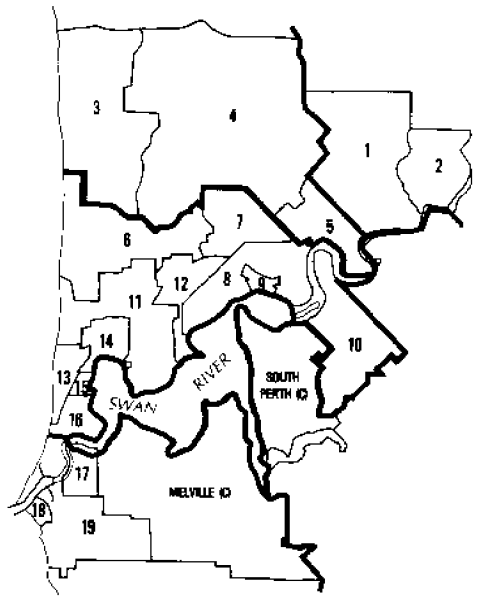
MAP 3

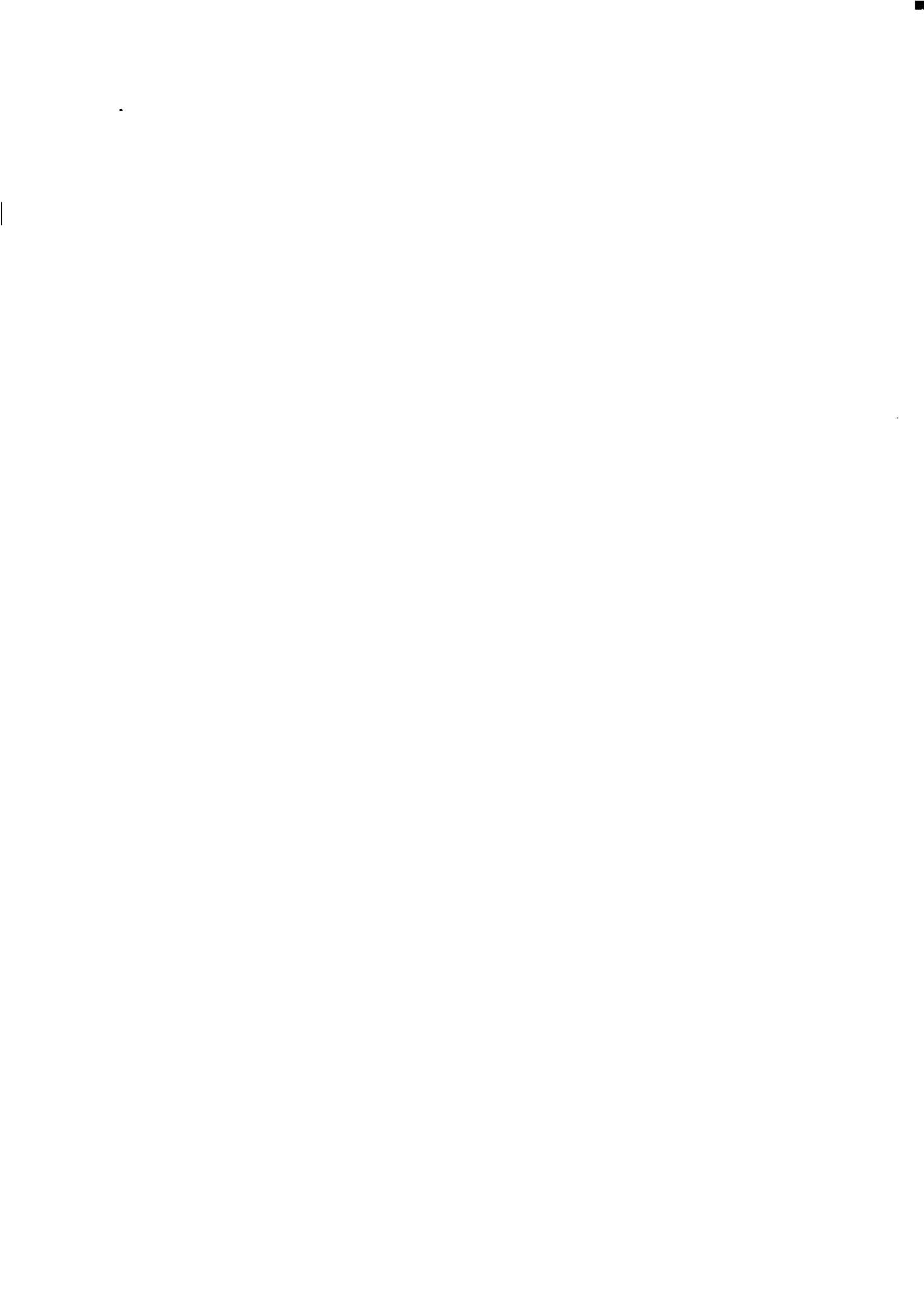
STATISTICAL DIVISION BOUNDARY ——— PERTH
 STATISTICAL SUB-DIVISION BOUNDARY ——— EAST METROPOLITAN
 STATISTICAL LOCAL AREA BOUNDARY ——— SWAN IS
 (C) — CITY (T) — TOWN (S) — SHIRE



ENLARGEMENT

1. BAYSWATER ID
2. BASSENDEN (T)
3. STIRLING ID — WEST
4. STIRLING ID — CENTRAL
5. STIRLING ID — SOUTH-EASTERN
6. PERTH ID — WEMBLEY — COASTAL
7. PERTH ID — NORTH
8. PERTH ID — OUTER
9. PERTH ID — INNER
10. PERTH ID — SOUTH
11. MELBURNS ID
12. SUBACCO ID
13. COTTESLOE (T)
14. CLAREMONT (T)
15. PEPPERMINT GROVE (S)
16. MOSMAN PARK (T)
17. EAST FREMANTLE (T)
18. FREMANTLE ID — INNER
19. FREMANTLE ID — REMAINDER







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