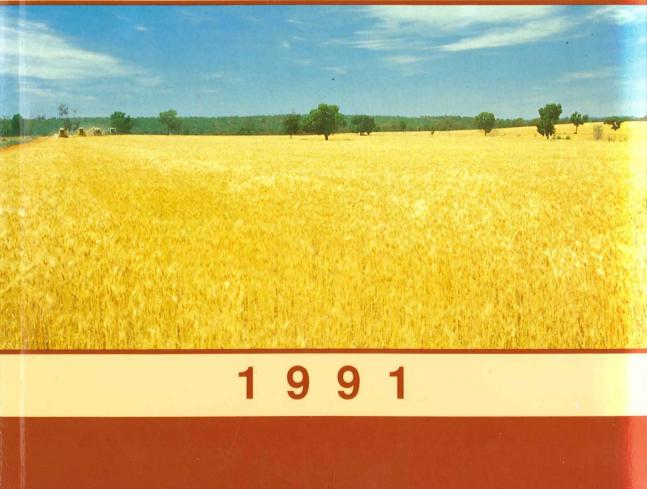


SOUTH AUSTRALIAN YEAR BOOK



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SOUTH AUSTRALIAN YEAR BOOK

1991

Cover: Fields of wheat at the start of harvesting.

South Australian Year Book

No. 25 : 1991

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PREFACE

The South Australian Year Book is the major reference work produced by the South Australian Office of the Australian Bureau of Statistics. It provides the historical and geographical background and a comprehensive statistical profile of the wide range of social and economic data which is available from the Australian Bureau of Statistics. The South Australian Year Book is also illustrative of the wide range of social and economic data which is available from the Australian Bureau of Statistics.

Most of the statistics contained in this volume relate to the years ended December 1989 or June 1990. More detailed, and in most cases more recent, statistics are available in other ABS publications. The more significant of these publications are listed at the end of the relevant chapters of the Year Book, while the ABS *Catalogue of Publications and Products* (1101.0) lists all current publications of the ABS.

This, the twenty–fifth issue contains an article on the South East, the first in a series of articles presenting a detailed study of the various regions of the State.

I am grateful for the efforts of the contributors who gave valuable assistance in updating the text and tables. In particular I would also express my appreciation to Mr R.G. Mableson under whose direction the Year Book was compiled, and to the Editor, Mr M. Kamenjarin, and staff in the Publishing Section.

RUSSELL ROGERS Deputy Commonwealth Statistician and Government Statist

Australian Bureau of Statistics Adelaide May 1991

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GENERAL INFORMATION

Symbols Used

n.a.	not collected
n.e.c.	not elsewhere classified
n.e.i.	not elsewhere included
n.e.s.	not elsewhere specified
n.p.	not available for publication but included in totals where applicable, unless otherwise indicated
n.y.a.	figures not yet available
р	preliminary
••	not applicable
_	nil or less than half the final digit shown
	break in continuity of series (where drawn across a column between two consecutive figures)

Other Forms of Usage

Yearly periods shown as e.g. 1989 refer to the year ended 31 December 1989; those shown as e.g. 1988–89 refer to the year ended 30 June 1989. Other yearly periods are specifically indicated.

In general, statistics in this volume relate to South Australia. A few tables, which are appropriately footnoted, include details for the Northern Territory.

Values are shown in Australian dollars (\$ or \$A) and cents unless another currency is specified.

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

Citation of Acts

Acts of the South Australian Parliament are cited in italics e.g. Lifts and Cranes Act 1960.

Acts of the Commonwealth Parliament are cited in italics immediately followed by jurisdiction (abbreviated) in roman type and in parentheses *e.g. Census and Statistics Act 1905* (Cwlth).

Services Provided by ABS

A comprehensive range of statistics is made available to the clients in published form. Some statistics, including those which are not published, may also be available in the form of microfiche, photocopy, computer printout, clerically–extracted tabulation, floppy disk, magnetic tape and compact disk. A wide range of statistics can also be accessed electronically.

The *Catalogue of Publications and Products* (1101.0), which is available free of charge on request, shows the range of ABS products. These products are available for sale from the ABS bookshop. The library holds copies of ABS publications and is open to the public.

The ABS has a publication subscription service. Readers are encouraged to subscribe to ABS publications to ensure they receive them on a regular and timely basis.

The Information Consultancy Service, which operates on a fee for service basis, has specialist staff to assist and advise clients with their statistical inquiries.

For more information about these services telephone Information Officer on Adelaide (08) 237 7100 or call at the ABS, 41 Currie Street or write to Information Services, ABS, GPO Box 2272, Adelaide 5001.

Chapter 1

NATURAL ENVIRONMENT

1.1 DESCRIPTION

Size and Location

The State of South Australia has the Southern Ocean to the south and is flanked on the other sides by land. It lies south of the 26th parallel of south latitude and has as a western boundary the 129th meridian of east longitude. The eastern boundary, north of the River Murray, corresponds with the 141st meridian, while to the south, between the river and the sea, the boundary lies approximately three kilometres to the west of this meridian.

The State is approximately 1,201 kilometres from east to west at the northern boundary and 1,139 kilometres at the head of the Great Australian Bight; from north to south it varies from 630 kilometres near the western extremity to approximately 1,336 kilometres near the eastern boundary; its coastline, excluding islands, measures approximately 3,700 kilometres. South Australia covers a total area of 984,377 square kilometres (one–eighth of the area of the Australian continent); however, approximately one–third of this area has no significant economic use and over one–half is devoted to extensive pastoral pursuits. Approximately 99 per cent of the population live south of the 32nd parallel.

A comparison of the areas, length of coastline and standard time of the various States and Territories is shown in the following table.

	Estimat	ted area (a)		Standard time		
State or Territory	Total	Percentage of total area	Length of coastline (a)	Meridian selected	Ahead of GMT	
	'000 km ²		km		hours	
New South Wales	802	10.43	1,900	150°E	<i>(b)</i> 10.0	
Victoria	228	2.96	1,800	150°E	<i>(b)</i> 10.0	
Queensland	1,727	22.48	7,400	150°E	10.0	
Western Australia	2,526	32.87	12,500	120°E	8.0	
South Australia	984	12.81	3,700	142°30'E	(b)9.5	
Tasmania	68	0.88	3,200	150°E	(b)10.0	
Northern Territory	1.346	17.52	6,200	142°30'E	9.5	
Australian Capital Territory	2	0.03	35	150°E	<i>(b)</i> 10.0	
Australia	7,682	100.00	36,735		••	

Area, Coastline and Standard Times, Australia

(a) As determined by the Survey and Land Information Group.

(b) Because of 'daylight saving' an hour should be added from late October to early March.

The areas and length of coastline were determined by the Survey and Land Information Group by manually digitising these features from the 1:250,000 map series of Australia. This means that only features of measurable size at this scale were considered. About 60,000 points were digitised at an approximate spacing of 0.5 kilometres. These points were joined by chords as the basis for calculation of areas and coastline lengths by computer.

Method of travel	Canberra	Sydney	Melbourne	Brisbane	Perth	Hobart	Darwin
Road (a)	1,202	1,424	730	2,056	2,716		3,042
Rail	2,007	1,691	774	2,678	2,661		
Sea		1,833	949	2,761	(b)2,509	1,436	(c)5,799
Air	988	1,196	660	1,967	2,216	1,283	2,766

Distances Between Adelaide and Other Capital Cities (Kilometres)

(a) RAA recommended routes. (b) To Fremantle. (c) Via Fremantle.

Standard Time

In terms of the *Standard Time Act 1898* South Australia has used 'the mean time of the meridian of longitude 142.5 degrees east of Greenwich' as standard time since 1 May 1899. This time, known in Australia as Central Standard Time, is nine hours thirty minutes ahead of Greenwich Mean Time, one hour thirty minutes ahead of Western Standard Time used in Western Australia and thirty minutes behind Eastern Standard Time used by States on the east coast of Australia.

The Daylight Saving Act Amendment Act 1972, provided for the observance of daylight saving in the summer of 1972–73, and in each summer since, from October to March.

A special article on the basis of time keeping and the determination of time standards was included on pages 4–5 of the *South Australian Year Book 1984*. An article on the determination of the time of sunrise and sunset was included on pages 6–7 of the same issue.

Physical Features

South Australia is a land of generally low relief, the inland area being largely covered by featureless plains, or sand and gibber deserts. Approximately 50 per cent of the State is less than 150 metres above sea level and over 80 per cent is less than 300 metres. Even the dominant mountains, the Mount Lofty–Flinders Ranges system, nowhere exceed 1,200 metres and have at no point proved difficult barriers to communications.

Kangaroo Island, approximately 480 kilometres in circumference and covering 4,350 square kilometres, is the predominant island off the South Australian coastline. There are, however, approximately 100 islands in all, relatively few of which are utilised.

The most important mountains are the Mount Lofty–Flinders Ranges system. Kangaroo Island structurally belongs to these ranges which, together with parallel subsidiary ranges, extend north from Cape Jervis some 800 kilometres to the northern end of Lake Torrens. In the south the rounded hills of the Mount Lofty Ranges are of comparatively low altitude with Mount Lofty, the highest peak, being 727 metres. The western side of these ranges presents steep scarps to the Adelaide Plains while on the eastern side more gentle slopes merge into the Murray Basin.

To the north the Flinders Ranges are of greater height and sharper outline than their southern counterpart. St Mary Peak of 1,166 metres is the highest point. North of Peterborough there is a divergence from the main range which stretches *via* the Olary Ridges to the Barrier Range and Broken Hill. In the far north the ranges again diverge; one spur circling the northern end of Lake Torrens and the other ending north of Lake Frome. The Flinders Ranges contain some unusual basins of which Wilpena Pound is perhaps the best known.

The western half of the State is largely occupied by a low plateau over which an intermittent series of low ranges, including the Warburton, Stuart, Denison, Peake, and Everard Ranges, stretch from the Flinders to the somewhat higher Musgrave Ranges in the far north–west. Mount Woodroffe (1,435 metres), the highest point in the State, is located in the Musgrave Ranges.

The comparatively low hills of the Gawler Ranges form the northern side of the Eyre Peninsula triangle, and to the west of Whyalla lie the economically important Middleback Ranges. Isolated peaks of volcanic origin are found in the extreme south–east of the State.

The River Murray, which drains approximately one-seventh of Australia, enters the sea in South Australia and is the State's only major river. The fall of the Murray is very slight, dropping less than twenty-two metres over the 642 kilometres between the border and the sea. For the 216 kilometres to Overland Corner the river occupies a wide valley and then passes through a narrower steeper-sided valley to Lakes Alexandrina and Albert at its heavily silted mouth.

Surrounding the northern Flinders Ranges is a series of vast lakes which are in reality lakes only after particularly heavy rainfall, normally appearing as shallow depressions with a salt or clay encrusted surface. Lake Eyre, the largest of these, is fifteen metres below mean sea level and is fed by a series of intermittently flowing rivers, including the Finke, the Diamantina and Cooper Creek, which traverse the plains of the north–east, constituting one of the largest areas of internal drainage in the world. To the south of Lake Eyre are Lakes Gairdner, Frome and Torrens, the last named being 240 kilometres in length.

1.2 CLIMATE AND METEOROLOGY

In the Southern Hemisphere, because of the extensive ocean areas and the absence of a broad land mass connecting the Antarctic with the tropical regions, the southern continents are not subject to the same range of weather extremes that are experienced in northern countries at similar latitudes. The ameliorating effect of this land-sea distribution is particularly noticeable in southern South Australia.

Briefly, the basic features of the South Australian climate are hot, dry summers with relatively mild nights, and cool but not severe winters with most rainfall occurring during the months of May, June, July and August.

RAINFALL

Rainfall Intensity

Long sustained periods of intense rainfall are rare in South Australia. However, occasionally there are very intense falls lasting only a few minutes – for example in Adelaide several falls at a rate of more than 100 millimetres an hour over a five–minute period have been recorded. These were thunderstorm rains, and intense falls can cause considerable damage to crops and to light or freshly worked soils.

The most notable falls of rain which have been recorded by official rainfall observers within a period of 24 hours ending at 9 a.m. were at:

Stansbury (18 February 1946)	222 mm
Stirling (17 April 1889)	208 mm
Ardrossan (18 February 1946)	206 mm
Oodnadatta (9 February 1976)	200 mm
Carpa, 25 km SW of Cowell (18 February 1946)	199 mm
Innamincka Station (28 January 1974)	189 mm

Several other exceptional rainfalls have been recorded by private observers including 228 millimetres in four hours at Dutton (near Truro) on 2 March 1983 (during this storm a fall in excess of 300 millimetres occurred at a nearby property), 226 millimetres in 24 hours at Spring Mount on 26 January 1941 and 191 millimetres near Buckleboo on 26 January 1981.

Average Annual Rainfall

South Australia is by far the driest of the Australian States and Territories with just over four–fifths of the State receiving an average of less than 250 millimetres of rain annually. Over the southern half of South Australia the main source of rain is from showers associated with unstable moist westerly airstreams occurring fairly regularly during winter. The wettest part of the State is in the Mount Lofty Ranges, immediately east of Adelaide in the vicinity of Mount Lofty, where the average annual rainfall is about 1,200 millimetres.

Generally the highest annual average rainfalls occur along the ranges and southern parts of the coast. The rainfall decreases rapidly to less than 250 millimetres within 150 to 250 kilometres inland, and then more gradually to below 150 millimetres in the vicinity of Lake Eyre. This area is the driest part of Australia and there have been several periods when the annual totals were less than 75 millimetres during consecutive years.

Mean monthly rainfalls at selected recording stations are shown in the table below.

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
			ME	AN RA	INFAL	L (a) (m	illimetr	res)					
Adelaide (West Tce) .	20	21	24	44	68	72	67	62	51	45	31	26	531
Ceduna	11	15	18	22	37	36	42	36	27	25	21	19	309
Clare	25	25	25	47	74	79	82	79	72	57	37	29	631
Kingscote	15	17	18	37	60	72	78	65	46	36	23	19	486
Kyancutta	12	17	13	20	35	39	42	41	32	27	22	19	319
Maitland	17	21	21	43	63	67	67	62	50	42	28	23	504
Mount Gambier	25	27	36	58	75	79	101	91	70	64	47	38	711
Oodnadatta	28	29	14	11	15	12	10		10	13	11	14	176
Port Augusta	15	17	17	19	26	27	20	23	22	23	18	16	243
Port Lincoln	13 18	15	20	38	58	74	79	69 35	50 35	35	22 23	18	491
Port Pirie	39	18 37	18 43	29	40	41 183	34			33 99		21 48	345
Stirling Tailem Bend	39 17	21	43 23	96	143		161 39	156	124		61		1,190
	17	21	23 18	29	42 28	39		41	38 26	38	29 22	26	382 273
Whyalla	21	24	18	19 26	20 37	25 40	23 40	24 45	38	26 33	27	20 23	367
Yongala	21		17	20		40	40	45			21	23	
		A	VERA	JE NUI	MBER	OF DAY	S OF F	RAIN (b)				
Adelaide (West Tce) .	4	4	5	9	13	15	16	16	13	11	8	6	120
Ceduna	4	4	4	7	11	11	13	12	10	8	6	5	95
Clare	4	4	5	8	12	14	15	15	13	10	7	5	112
Kingscote	3	3	5	9	13	15	18	17	13	10	6	5	117
Kyancutta	3	3	3	7	11	11	14	14	10	9	6	5	96
Maitland	4	4	5	9	12	14	15	15	12	10	7	5	112
Mount Gambier	9	8	11	15	18	19	22	21	19	17	14	12	185
Oodnadatta	3	2	2	2	3	3	2	3	3	3	3	3	32
Port Augusta	2	2	3	4	6	8	8	8	6	6	4	3	60
Port Lincoln	4	4	5	10	14	16	18	17	13	11	7	6	125
Port Pirie	3	2	3	5	8	10	10	10	8	7	5	4	75
Stirling	6	6	7	12	15	17	18	18	15	14	10	8	146
Tailem Bend	3	4	4	7	11	11	13	13	11	9	7	6	100
Whyalla	3	3	3	5	7	7	8	8	7	6	4	4	65
Yongala	4	3	4	6	10	12	13	13	10	8	6	5	94

Mean Rainfall and Days of Rain : Selected Stations, South Australia

(a) For all years of record to end of 1982 except for Adelaide. (b) Days receiving 0.2 millimetres or more.

TEMPERATURE

Seasonal Temperature Conditions

Air temperature is normally recorded under standard conditions in a Stevenson Screen. Monthly mean maximum and minimum temperatures at seventeen selected recording stations within the State are shown in the following tables. These are based as nearly as possible on a standard period except for the figures for Adelaide (Kent Town) which are estimates based on a comparison of readings taken between 1977 and 1979 at the Kent Town and West Terrace observation sites.

	(Ceisius)												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
Adelaide (Kent Town)	28.8	29.0	26.1	22.4	18.8	16.0	15.0	16.7	18.6	21.8	24.8	27.1	22.1
Berri	32.1	32.1	29.0	24.6	19.3	17.3	16.4	17.7	20.5	24.8	28.0	29.5	24.3
Ceduna	28.5	27.9	26.6	24.0	20.7	18.1	17.2	18.4	21.2	23.6	25.8	27.2	23.3
Clare	30.0	29.5	26.5	22.1	17.1	14.4	13.3	14.5	17.1	21.2	24.5	27.4	21.5
Keith	29.8	30.3	26.8	22.6	18,3	15.6	14.9	16.2	18.3	21.6	24.8	27.6	22.2
Kingscote	24.8	24.4	22.7	20.5	17.9	15.8	14.9	15.4	16.7	19.2	21.1	22.9	19.7
Kyancutta	33.0	32.4	29.3	25.3	20.7	17.9	16.9	18.4	21.1	25.3	28.6	30.5	25.0
Maitland	28.8	28.3	25.7	22.1	18.0	15.4	14.2	15.4	17.6	21.0	24.2	26.3	21.4
Mount Gambier	25.1	24.8	22.9	19.2	15.9	13.8	13.0	14.0	15.7	17.7	20.0	22.6	18.7
Oodnadatta	37.4	36.4	33.7	28.3	23.0	19.8	19.5	21.9	26.1	30.2	33.6	36.3	28.9
Port Augusta	33.1	31.3	29.4	25.5	20.4	18.7	16.2	18.5	21.3	25.9	28.4	29.8	24.9
Port Lincoln	25.4	25.3	23.9	21.9	19.1	17.0	16.1	16.7	18.2	20.3	22.1	23.8	20.8
Port Pirie	31.6	31.5	28.9	24.6	19.9	17.1	16.2	17.7	20.5	24.1	27.1	29.4	24.1
Stirling	26.3	24.5	23.0	19.0	14.3	12.6	10.6	11.9	14.3	17.8	21.0	22.9	18.2
Tailem Bend	30.0	29.1	27.2	23.7	19.2	16.9	15.8	16.9	19.5	23.0	25.0	27.0	22.8
Whyalla	29.0	28.5	26.6	23.9	20.2	17.7	16.9	18.4	20.5	23.4	25.8	27.2	23.2
Yongala	30.8	30.3	27.2	22.2	17.0	14.0	12.8	14.5	17.3	21.8	25.7	28.5	21.8

Mean Maximum Temperatures : Selected Stations, South Australia (°Celsius)

Mean Minimum Temperatures : Selected Stations, South Australia (°Celsius)

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
Adelaide (Kent Town)	16.6	16.7	15.2	12.1	10.3	7.8	7.2	8.3	9.4	11.2	13.8	15.5	12.0
Berri	16.0	15.8	13.7	10.9	8.0	6.1	5.5	6.0	8.1	10.5	12.7	14.6	10.7
Ceduna	14.9	14.8	13.1	10.7	8.5	6.4	5.7	6.1	7.7	9.6	12.1	13.8	10.3
Clare	13.8	13.9	11.6	8.5	5.8	3.8	3.2	3.8	5.1	7.4	9.6	11.9	8.2
Keith	13.1	13.4	11.8	9.6	7.9	5.8	5.5	6.0	7.0	8.2	10.0	12.0	9.2
Kingscote	15.1	15.5	14.4	12.5	10.6	9.2	8.3	8.3	9.0	10.3	12.0	13.7	11.6
Kyancutta	14.4	14.4	12.3	9.5	7.3	5.1	4.6	5.1	6.2	8.2	10.6	12.7	9.2
Maitland	15.3	15.7	14.4	12.4	9.9	7.8	6.9	7.3	8.4	10.0	12.0	13.8	11.2
Mount Gambier	10.8	11.4	10.3	8.6	7.2	5.5	4.9	5.3	6.1	6.9	8.1	9.7	7.9
Oodnadatta	22.5	22.1	19.2	14.2	9.7	6.5	5.7	7.2	11.0	15.0	18.3	21.0	14.4
Port Augusta	19.8	18.9	17.3	14.1	9.9	7.9	6.9	8.1	10.0	13.3	15.3	17.3	13.2
Port Lincoln	15.6	16.0	15.0	13.0	11.0	9,4	8.4	8.5	9.3	10.9	12.6	14.1	12.0
Port Pirie	17.7	17.9	16.1	13.4	10.8	8.4	7.7	8.3	9.7	12.0	14.4	16.3	12.7
Stirling	12,4	12.1	11.1	9.2	7.2	6.0	4.5	4.9	6.1	7.9	9.5	10.7	8.5
Tailem Bend	14.0	13.8	12.4	10.4	8.2	6.1	5.6	6.1	7.2	8.9	10.7	12.2	9.6
Whyalla	18.8	19.0	17.2	14.1	10.8	8.4	7.4	8.2	10.1	12.7	15.1	16.9	13.2
Yongala	13.3	13.3	10.7	7.1	4.2	2.3	1.9	2.4	3.8	6.0	8.8	11.1	7.1

The highest temperature recorded in South Australia was 50.7°C at Oodnadatta on 2 January 1960, and the lowest –8.2°C at Yongala on 20 July 1976.

CLIMATE OF ADELAIDE

The longest continuous series of weather observations in the Southern Hemisphere started in Adelaide in November 1836 when Sir George Kingston commenced rain gauge readings at his property on the corner of Grote Street and West Terrace. Unfortunately, the earliest figures were mislaid and records are available only from the beginning of 1839. No other regular observations were made until Sir Charles Todd arrived to fill the post of Superintendent of Telegraphs and Government Astronomer in 1856.

In May 1860 the Observatory on West Terrace was completed and the instruments were moved to that site. For over 100 years the observation site at Adelaide remained practically unchanged. In February 1977, the Adelaide Regional Office of the Bureau of Meteorology moved from West Terrace to College Road, Kent Town. Although a new observation site was set up at Kent Town, observations continued at West Terrace until February 1979 in order to compare the two sites.

Statistics derived from the long–standing West Terrace site, now demolished, serve as a valuable basis for describing the climate of the City of Adelaide and will continue to be useful guides to the future conditions – figures for West Terrace are therefore shown.

5

6 NATURAL ENVIRONMENT

Temperature records at Adelaide date from 1857, when readings were first taken from a thermometer placed in a screen known as a Greenwich Stand which failed to protect the thermometer fully from reflected radiation. In 1887 a new series of readings using a standard Stevenson Screen was introduced and this showed maximum temperatures during the warmer months to be 1° to 1.5°C lower on average. Other temperatures were not significantly affected. Both screens were in continuous operation until 1947 when use of the Greenwich Stand was discontinued. However, the Greenwich Stand readings remained the official record until 1947, thus there is a slight discontinuity in the temperature records in that year and means are weighted towards the Greenwich Standard method of measurement.

Adelaide is the driest of Australia's capital cities, having less rainfall and a lower relative humidity than any other capital. Summer maximum temperatures are high and the record of 47.6°C in the Greenwich Stand on 12 January 1939 is the highest recorded in any of the capital cities.

Temperature

In the summer months, Adelaide maximum temperatures frequently exceed 30°C and from time to time 'heat waves', with readings at or near 35°C for several consecutive days, are experienced. The outstanding heat wave was in January 1939 when fourteen days out of fifteen exceeded 30°C and of those fourteen days thirteen exceeded 35°C and six exceeded 40°C. During this 'heat wave' the record temperature of 46.8°C recorded on 26 January 1858 was exceeded, first on 10 January 1939 when the temperature reached 47.2°C and then two days later on 12 January when the highest ever temperature of 47.6°C (46.1°C in the Stevenson Screen) was recorded.

July is usually the coldest month, when the mean maximum is 15° C. However, the extreme lowest minimum recorded is -0.4° C on 8 June 1982. August is only slightly warmer than July, but after August steadily rising temperatures are experienced.

			Temperature			Rainfall					
Month	Ma	ximum	Mini	mum			Highest monthly and	Highest in one day	Mean days of rain (a)		
	Mean	Highest recorded	Mean	Lowest recorded	Mean	Mean	yearly total				
Years of record	122	122	122	122	122	140	140	140	140		
	Celsius	Celsius	Celsius	Celsius	Celsius	mm	mm	mm	No.		
January	29.5	47.6	16.4	7.3	23.0	20	84	58	4		
February	29.3	45.3	16.6	7.5	23.0	. 21	155	141	4		
March	26.8	43.6	15.1	6.6	21.0	24	117	89	5		
April	22.7	37.0	12.6	4.2	17.7	44	154	80	9		
May	18.7	31.9	10.3	2.7	14.5	68	197	70	13		
June	15.8	25.6	8.3	0.3	12.1	72	218	54	15		
July	15.0	26.6	7.3	0.0	11.1	66	138	44	16		
August	16.4	29.4	7.8	0.2	12.1	61	157	57	15		
September	18.9	35.1	9.0	0.4	13.9	51	148	40	13		
October	22.0	39.4	10.9	2.3	16.5	44	133	57	11		
November	25.1	45.3	12.9	4.9	19.1	31	113	75	8		
December	27.7	45.9	15.0	6.1	21.3	26	101	61	6		
Year	22.3	47.6	11.9	0.0	17.1	528	786	141	119		

Climatological Data, West Terrace, Adelaide

(1) Temperature and Rainfall based on a composite record of Greenwich Stand and Stevenson Screen observations

Climatological Data, West Terrace, Adelaide (continued)

(2) Other Conditions

Month	Mean daily sunshine	Clear days (b)	Mean amount of cloud (c)	Days of fog	Days of lightning	Amount of evapor- ation (d)	Vapour pressure 9 a.m.	Mean baro- metric pressure (e)
Years of record	95	58	107	77	105	12	108	121
	hours	No.		No.	No.	mm	mb	mb
January	10.0	12.4	3.1	0.0	2.0	254	11.9	1,013.2
February	9.3	10.9	3.3	0.0	1.7	216	12.5	1,014.3
March	7.9	10.9	3.5	0.0	1.7	176	12.0	1,017.2
April	6.0	6.6	4.5	0.0	1.4	120	11.5	1,019.9
May	4.8	4.6	5.1	0.4	1.5	79	10.8	1,020.1
June	4.2	4.0	5.3	1.1	1.5	56	10.0	1,019.9
July	4.3	3.6	5.2	1.3	1.4	60	9.5	1,020.0
August	5.3	4.9	4.9	0.6	1.7	78	9.7	1,019.0
September	6.2	5.7	4.6	0.2	1.7	110	10.0	1,017.7
October	7.2	5.7	4.5	0.0	2.6	164	10.2	1,016.0
November	8.6	6.6	4.2	0.0	3.0	196	10.5	1,015.0
December	9.4	9.0	3.7	0.0	2.2	241	11.3	1,013.3
Year	6.9	85.0	4.3	3.6	22.4	1,751	10.8	1,017.1

(a) Days receiving 0.2 mm or more of rain. (b) With less than two-eighths cloud. (c) Scale 0 (clear) to 8 (overcast) at 9 a.m. and 3 p.m. daily. (d) From Class A Pan (period 1967–1977). (e) Mean of 9 a.m. and 3 p.m. readings corrected to sea level.

Rainfall

Adelaide's summer rainfall is light and unreliable. The average monthly fall of January, February and March is under 25 millimetres and completely rainless months in this period are common. In fact, each of the five months December to April has at some time been recorded as completely dry, and in the period January to March 1893 there were sixty–nine consecutive rainless days. However, heavy rain is occasionally experienced at this time of the year and on 7 February 1925 rainfall was 141 millimetres – a record for one day.

Each month from May to September rainfall averages over 50 millimetres and in this period the rain is fairly reliable. June is the wettest month but the average is still under 75 millimetres for the month. The 140 year annual rainfall average is 528 millimetres, and annual totals have ranged from a low of 257 millimetres in 1967 to a high of 786 millimetres in 1851.

Chapter 2

- **1627** The first recorded sighting of the South Australian coast by Europeans, when Dutch ship *Gulden Zeepaard* examined the coastline from Cape Leeuwin to the islands of St Francis and St Peter in the far west of South Australia.
- 1792 The next recorded sighting of South Australia made by the French explorer Rear Admiral D'Entrecasteaux while searching for the lost French explorer La Perouse. In December he sighted land south of Cape Leeuwin and examined the cliffs of the Great Australian Bight.
- 1800 Lieutenant James Grant was the first British explorer to sail along the South Australian coast. He sighted the extreme easterly shores of South Australia and named Cape Banks, Cape Northumberland, Mount Schank and Mount Gambier.
- **1802** Mathew Flinders in the *Investigator* thoroughly explored the coast of South Australian waters between Nuyts Archipelago and Encounter Bay. He discovered the Gulfs and Central Highlands and reported a very promising country for settlement.
- 1804 A number of further discoveries took place at various parts of South Australian coastline
- **1836** by Captains Dillon (1815–16), Gould (1827–28), Hart (1831–33), and Jones (1833–34).
- **1829** While imprisoned in Newgate Gaol, Edward Gibbon Wakefield produced a number of writings including the now famous *A Letter from Sydney* series which contained his radical ideas for the colonisation of South Australia.
- 1830 Captain Charles Sturt explored the River Murray from New South Wales to its mouth; traversed Lake Alexandrina and located the Goolwa Channel, reaching the western shore of the Murray mouth on 12 February.
- **1833** Charles Sturt's *Two Expeditions into the Interior of Southern Australia* was published. This glowing report of South Australia was welcomed by those in England seeking a suitable site to establish a colony where the Wakefield Plan could be applied without restriction.
- 1834 The South Australian Colonisation Act was assented to on 15 August. The territory allotted under the Act embraced 802,508 square kilometres, with the western boundary the 132nd meridian of east longitude and the other boundaries virtually as they are today. The colony was to be opened to settlement by British subjects, but under no condition were convicts to be admitted, making South Australia the only State to be settled entirely by free persons.

- 1836 First migrants landed at Kangaroo Island on 27 July. First South Australian newspaper published in London. Colony's first school opened on Kangaroo Island. The Surveyor-General, Colonel Light arrived in November and commenced survey of Adelaide. Governor Hindmarsh arrived in HMS *Buffalo* and proclaimed South Australia a Province on 28 December.
- 1837 Colonel Light completed survey of Adelaide and designed the city's present layout. First Adelaide land allotments made. First newspaper published in South Australia. South Australian Supreme Court established. First hospital opened on North Terrace, Adelaide.
- 1838 First overland cattle and sheep drives from New South Wales. First export from South Australia, a small clip of wool, dispatched. First German settlers under the leadership of Pastor Kavel arrived in South Australia. Formation of first police force.
- **1839** Colonel Light died at Thebarton and buried in Light Square. First road in South Australia built between Adelaide and Port Adelaide. Adelaide Chamber of Commerce founded.
- 1840 Eyre started overland journey to Western Australia. The Municipality of Adelaide incorporated, the first in Australia. McLaren Wharf, Port Adelaide, opened by Governor Gawler.
- **1841** First South Australian mine (silver-lead) opened near Glen Osmond. Assisted migration suspended because of depression. Following financial crisis Governor Gawler recalled and succeeded by Governor Grey. Eyre arrived at Albany in Western Australia.
- 1842 Registration of births, deaths and marriages commenced. Portions of South Australia divided for first time into counties. Copper discovered at Kapunda. Legislative Council constituted. The South Australian Board of Colonisation Commissioners abolished by the British Government.
- 1843 Agricultural stripper invented by Ridley. A flour mill built at Hindmarsh.
- 1844 First Colonial Census held, and showed a population of 17,366.
- 1845 Copper discovered at Burra. Sturt explored the north-eastern part of the State. Gold found in South Australia, near Montacute. Assisted migration resumed.
- **1846** First pastoral leases granted.
- 1847 First winery in the Barossa Valley commenced operation. St Peters College established.
- 1848 Opening of The Savings Bank of South Australia. First ferry across the River Murray commenced operations at Wellington.
- 1849 The Central Board of Main Roads established.

- **1850** An Act granting representative government to South Australia passed by the British Parliament.
- **1851** The Central Board of Education established.
- 1852 First overland gold escort arrived in Adelaide.
- **1853** W.R. Randell's *Mary Ann* and Francis Cadell's *Lady Augusta* initiated the navigation of the River Murray.
- **1854** State's first railway (horse-drawn) built from Goolwa to Port Elliot.
- 1855 First South Australian postage stamps issued.
- 1856 First telegraph line opened from Adelaide to Port Adelaide. The new Constitution Act embodying the principle of responsible government proclaimed; it provided for Parliament to consist of two Houses; a Legislative Council and a House of Assembly. First steam railway from Adelaide to Port Adelaide constructed. Population of the State passed 100,000.
- **1857** Railway to Smithfield and Gawler opened.
- **1858** The Real Property Act, which embodied the principles of conveyancing formulated by Torrens, came into operation. First telegraph line to Melbourne opened.
- 1859 A jetty over 350 metres in length constructed at Glenelg. Copper discovered at Wallaroo.
- **1860** Water supplied to the City of Adelaide by means of a main connected with the reservoir at Thorndon Park.
- 1861 Copper discovered at Moonta. Water laid on to houses in Adelaide. John McDouall Stuart set out to cross the continent from south to north. The South Australian boundary shifted west to coincide with the boundary of Western Australia.
- **1862** Stuart reached Chambers Bay on the coast of the Northern Territory.
- **1863** Administration of the Northern Territory taken over by South Australia. Shops of Adelaide lit for the first time with gas.
- **1865** Annual leases of pastoral lands sold by auction for first time. The Bank of Adelaide founded.
- **1866** Camels introduced by Sir Thomas Elder for the purpose of exploration. The Adelaide Town Hall opened.

- **1867** Visit of H.R.H. Prince Alfred, Duke of Edinburgh, who laid the foundation stone of the General Post Office.
- **1869** Foundation stone of St Peters Cathedral laid. Prince Alfred College opened. Adelaide Chamber of Manufacturers founded.
- **1870** Construction of the transcontinental telegraph from Port Darwin commenced. John Forrest and party made first of two journeys of exploration from Perth.
- **1872** Transcontinental telegraph from Port Darwin completed and first direct telegram from London received.
- 1873 Eight-hour working day adopted. First Health Act, establishing a Central Board of Health, passed.
- 1874 The University of Adelaide founded.
- 1875 The State Education Act passed. First Forestry Board established.
- **1876** Telegraph communication with New Zealand established. The Smith brothers invented the 'stump jump' plough. South Australia became first State to give legal recognition to trade unions.
- **1877** Overland telegraph line from Port Augusta to Eucla completed and first telegram from Perth transmitted. The Adelaide Bridge completed.
- 1878 Provisions of the Education Act relating to compulsory school attendance brought into force in the Adelaide school district. First tramway (horse-drawn) in any Australian city commenced carrying passengers to Kensington and North Adelaide. The State's population passed 250,000.
- 1879 Foundation stone of the University of Adelaide laid. First bridge across River Murray in South Australia opened at Murray Bridge.
- **1881** First reclamation of swamp areas of River Murray. Art Gallery opened by H.R.H. Prince Albert Victor. Construction of the weir which created the Torrens Lake completed.
- 1882 Fire Brigades Board established.
- **1883** The Telephone Exchange commenced operations. Roseworthy Agricultural College opened to students.
- **1884** Largs Bay Fort opened. Adelaide Trades and Labor Council, the first delegates society, inaugurated.

- **1885** Broken Hill silver mines opened. Column erected on Mount Lofty summit as a prominent landmark for mariners.
- **1887** Act authorising payment to members of Parliament passed. Renmark Irrigation Colony established. First express trains ran between Adelaide and Melbourne. The Jubilee Exhibition opened. Stock Exchange of Adelaide formed by amalgamation of Adelaide Stock Exchange and Stock Exchange of South Australia.
- 1888 Totalisator legally authorised by an Act of Parliament.
- **1889** The School of Mines and Industries opened. Smelting of silver-lead ore from Broken Hill commenced at Port Pirie.
- 1890 First South Australian built locomotive completed.
- **1892** Education made free to the compulsory age.
- **1894** Act granting the franchise to women passed. Inauguration of industrial arbitration by the establishment of Boards of Conciliation.
- **1896** State Bank of South Australia opened. Women voted for the first time at the general election. Happy Valley Reservoir opened. One of Adelaide's most severe droughts commenced, and continued for several years.
- 1899 Second referendum concerning the establishment of Federation held. In South Australia, 65,990 electors voted for Federation and 17,053 against. First military contingent left South Australia for the Boer War.
- 1900 Adelaide lit for the first time with electric light. The Commonwealth of Australia Constitution Act received Royal Assent and a Proclamation was issued uniting the States as the Commonwealth of Australia from 1 January 1901. Conservatorium of Music opened. First Workmens Compensation Act passed.
- **1901** Early closing of shops introduced. First Commonwealth Parliament elected. The Duke and Duchess of York arrived in the *Ophir*. The Customs Act came into force. The Electric Light Works was opened. Iron Knob connected to Whyalla by railway.
- **1902** Flinders column, at Mount Lofty, dedicated to the public by the Governor, Lord Tennyson.
- **1905** First kindergarten in South Australia opened.
- 1906 Military cadet system inaugurated.
- **1907** High schools were established in a number of country centres. Municipal Tramways Trust incorporated. First Federal basic wage judgment the 'Harvester' award made.

- **1908** Penny savings bank accounts for children established. The Outer Harbor opened. Adelaide High School established.
- **1909** Adelaide electric tramways commenced operations. Payment of age pensions by the Commonwealth Government commenced.
- **1910** Payment of invalid pensions by the Commonwealth Government commenced. First recorded monoplane flight in Australia made by F.C. Custance at Bolivar.
- 1911 'Penny Postage' to all parts of the British Empire introduced. The Federal Defence Act came into operation. Administration of the Northern Territory transferred to the Commonwealth Government.
- **1913** Medical inspection of school children introduced. Commonwealth Bank formally opened. Metropolitan Abattoirs established.
- **1914** First South Australian military expeditionary force embarked at Outer Harbor. South Australia experienced its most severe drought.
- 1915 Prices of commodities fixed by a commission. A referendum approved the closing of liquor bars at 6 p.m. Women appointed as justices of the peace for the first time. First shipment of iron ore made from Whyalla to steelworks in Newcastle. First women police appointed. Opal discovered at Coober Pedy.
- **1916** Referendum proposing compulsory military service abroad defeated. First Public Service Commissioner appointed. First State living wage with general application declared.
- **1917** German private schools in South Australia were closed. East-West transcontinental railway completed and the first train ran to Perth. Mr R.G. Carey, in a Bleriot 60, made the State's first airmail flight from Enfield to Gawler.
- **1919** Captain Butler flew from Adelaide across Gulf St Vincent carrying air mail to Minlaton. Soldier Settlement Bill passed by the South Australian Parliament. First Lord Mayor of Adelaide elected.
- 1920 Sir Ross Smith and party arrived at Adelaide by non-stop flight from Melbourne. Peace Exhibition held at the Jubilee Exhibition buildings. H.R.H. Edward, Prince of Wales visited South Australia.
- **1921** The State's population passed 500,000.
- 1922 First lock on the River Murray completed and opened at Blanchetown.
- 1923 The Government approved an extensive re-organisation of the railway system.

- 1924 Public Debt Commissioners were appointed. Air mail between Adelaide and Sydney inaugurated. Waite Agricultural Research Institute established. First radio stations commenced broadcasting.
- **1925** Showgrounds at Wayville opened. The first Federal election at which voting was compulsory took place. Foundation stone of Adelaide Teachers Training College laid.
- 1926 The South Australian barley exhibit won all prizes at the Brewers Exhibition in London. The State Bank opened for general banking business. Construction of a narrow gauge railway from Oodnadatta to Alice Springs approved. State petrol tax declared invalid following a Commonwealth Government writ against the State.
- 1927 Extension of the North-South railway commenced. The first train arrived at Renmark following the opening of the Paringa Bridge. The Duke and Duchess of York arrived in South Australia.
- **1929** The first air mail left Adelaide for Perth. The first train to Alice Springs left Adelaide. Compulsory military training abolished and replaced by a voluntary system. Electric tram service to Glenelg commenced.
- 1930 All officers of the South Australian public service over the age of sixty-five years were compulsorily retired. The South Australian basic wage was reduced by 18c to \$1.25 a day. Transport Control Board, State Finance Committee and Unemployed Relief Council established.
- 1931 City Bridge opened. Financial Plan formulated at the Premiers' Conference adopted and Financial Emergency Act passed. Federal basic wage reduced by 10 per cent for twelve months but was to be adjusted in accordance with a retail price index. State basic wage reduced from \$1.25 to \$1.05 a day. Basic wage for females reduced, first from \$3.95 to \$3.50 and later to \$3.15 a week.
- **1932** Boundaries and names of a number of local government areas changed and others abolished following the report of a commission.
- **1933** The Farmers Assistance Board, the Betting Control Board and the Metropolitan and Export Abattoirs Board established.
- **1934** Water restrictions in force from May until the following January.
- **1935** The Nomenclature Act of 1935 restored the former German names to a number of towns, the names of which had been changed in 1917.
- **1936** Centenary year of the State's foundation celebrated. Contract signed for the completion of Parliament House and the foundation stone laid by the Governor, Sir Winston Dugan.

- 1937 South Australian Housing Trust established. New Federal basic wage of \$7.40 per week, which incorporated a 'prosperity' loading, declared. First trolley bus service inaugurated. Mount Bold Reservoir with a capacity of 30,000 megalitres filled, almost doubling Adelaide's water storage. Schools closed and other precautions taken as a result of an epidemic of poliomyelitis.
- First South Australian Housing Trust dwelling completed.
- State's worst heat wave and disastrous bush fires experienced during the first two months of the year. Record high temperature of 47.6°C recorded in Adelaide. New Parliament House opened by His Excellency the Governor-General, Lord Gowrie.
- Goolwa Barrage completed at a cost of \$1,400,000. Birkenhead Bridge opened. A rapid development of secondary industry took place as munition annexes were added to existing factories and new factories were opened.
- 1941 Scriptural instruction in State schools commenced. First naval vessel built in South Australia launched. First blast furnace to be built at Whyalla went into operation. Child endowment payments inaugurated. Payroll tax commenced.
- Daylight saving of one hour introduced for almost three months. Wages and prices pegged and profits and interest rates restricted. Racing and bookmaking prohibited. Rationing of tea and clothing commenced. Widows pension instituted. The uniform Income Tax Act came into force. First coal obtained from Leigh Creek.
- Price stabilisation legislation came into force. Butter rationing commenced. Wage and price subsidies were introduced and the prices of tea, potatoes and other commodities were reduced in order to bring price indexes and wages to a lower level. Racing resumed but betting shops remained closed.
- Rationing of meat began. Morgan–Whyalla pipeline officially opened. The first State election with compulsory voting took place. Severe water restrictions imposed. First output of Leigh Creek coal for electricity generation.
- Unemployment and sickness benefits came into operation. Restrictions imposed on the use of gas and electricity for domestic and industrial purposes.
- Commonwealth Government munition factories leased to various private firms. Payment of government subsidies to hospitals commenced. Restrictions on the use of gas and electricity again imposed. The Electricity Trust of South Australia took over the property and functions of the Adelaide Electric Supply Company.
- Fruit fly detected in metropolitan orchards and efforts made to eliminate it by stripping gardens and orchards. Sugar rationing abolished. Conciliation commissioners appointed following an amendment to the Federal Conciliation and Arbitration Act. Severe restrictions imposed on imports from North America.

- 1948 Restrictions on the use of gas and electricity imposed on a number of occasions during the year because of the shortage of coal. Preparation of the Woomera rocket range commenced. Forty-hour working week introduced by Arbitration Court award. Serious bush fires occurred in January. Severe storms during April resulted in widespread damage including the destruction of the Glenelg jetty. The free medicine scheme came into operation. Clothing and meat rationing abolished. Full scale production of the 'Holden' car commenced.
- **1949** Petrol rationing by the Commonwealth Government declared illegal but resumed later in the year under a State Act. An extended national coal strike occurred. Water pipeline to the Woomera rocket range completed. The Commonwealth and South Australian Governments ratified an agreement for the standardisation of railway gauges.
- **1950** Petrol, butter and tea rationing discontinued. Federal free drugs scheme came into operation. Water restrictions imposed in December and remained in force until June 1951.
- **1951** Serious bush fires occurred in January. Wool prices reached a record high level. Distribution of free milk to school children introduced.
- **1952** The hospital benefits scheme came into operation. Price control on clothing removed in South Australia. Severe import restrictions gazetted. Installations for the bulk handling of grain opened at Ardrossan. Compulsory chest X–rays introduced.
- 1953 Remaining controls on building removed. Port Pirie became the first country town to be proclaimed a city. The medical benefits scheme came into operation. Automatic quarterly cost-of-living adjustments to the basic wage discontinued. Size of the State Cabinet increased from six to eight Ministers.
- 1954 A severe earthquake occurred in Adelaide on 1 March. Her Majesty Queen Elizabeth II visited South Australia. First unit of Port Augusta power station opened. Construction of dwellings in Elizabeth commenced. Water from the River Murray pumped into metropolitan reservoirs through the Mannum pipeline.
- **1955** Adelaide Airport at West Beach opened. The new satellite town at Elizabeth officially opened.
- **1956** River Murray flooded for several months and caused considerable damage in irrigation and reclaimed areas. Town Planning Committee established. Atomic device exploded at Maralinga. Salk Poliomyelitis vaccination program commenced.
- **1957** Centenary of responsible government in South Australia celebrated. Long service leave legislation passed by the South Australian Parliament.
- **1958** Visit of Queen Elizabeth, the Queen Mother, to South Australia. Introduction of parking meters to Adelaide. South Para Reservoir opened and connected to Adelaide water supply. Final run by a street tram in Adelaide, following conversion to diesel bus transport.

- 1959 South Australia ceased to be a claimant State for special grants from Grants Commission. Full-scale television transmission commenced. Sir Thomas Playford created record term as Premier in a British country (26 years 125 days). Aboriginals became eligible for age, invalid and widows pensions.
- **1960** First Adelaide Festival of Arts held (March 12–26). Completion of second unit and formal opening of Thomas Playford power station at Port Augusta.
- **1961** First United Kingdom Trade Commissioner appointed to South Australia. Compulsory driving tests introduced. The trailer ship Troubridge made its first run from Port Adelaide to Kingscote and Port Lincoln. Sturt's Desert Pea declared State's official floral emblem.
- **1962** Myponga Reservoir completed and linked to Happy Valley Reservoir. Duplication of Morgan–Whyalla pipeline commenced.
- 1963 Population of the State passed 1,000,000 mark. Port Stanvac oil refinery 'on stream'. School leaving age increased to fifteen years. Three weeks annual leave for employees governed by State awards and determinations introduced. First direct dialling for an overseas telephone call from South Australia. Major gas flow from Gidgealpa No. 2 well. Royal visit by Her Majesty, Queen Elizabeth II.
- 1964 Work commenced on conversion of Port Pirie–Broken Hill railway to standard gauge. First gas from Port Stanvac refinery piped for use in Adelaide's gas supply. Record wind gust (148 km/h) registered at Adelaide on 12 July. New world land speed record set by Donald Campbell on Lake Eyre.
- 1965 Election of first Labor State Government since 1933. First country television station opened at Port Pirie. Steel works including a basic oxygen steel making plant opened at Whyalla. First woman judge in Australia appointed to Supreme Court of South Australia. Size of the State Cabinet increased from eight to nine Ministers.
- 1966 Women sworn in for jury service for the first time. The Flinders University of South Australia at Bedford Park officially opened by Her Majesty Queen Elizabeth, the Queen Mother. New outlet tunnel 2,700 metres long from Happy Valley Reservoir completed. ELDO rocket Europa-1 launched at Woomera.
- 1967 Totalisator Agency Board operated off-course in South Australia for the first time. First South Australian lottery drawn. Federal Basic Wage superseded by Total Wage concept. Liquor trading hours extended to 10 pm. WRESAT-1, first Australian orbital satellite launched from Woomera. New record low annual rainfall for Adelaide (257 mm). Torrens Island power station commenced operations. First off-shore drilling rig – Ocean Digger – constructed and launched at Whyalla.
- 1968 State Elections held. Labor Government returned but subsequently defeated on the floor of the House at the first meeting of the new Parliament. New Liberal Premier, R.S. Hall sworn in. Four weeks leave for State Government employees introduced. Sealed highway from Broken Hill to Adelaide opened. Sir James Harrison first Australian-born Governor of South Australia sworn in.

- 1969 Work begun on second major pipeline to bring River Murray water to Adelaide. Electricity Trust signed \$120 million contract for supply of natural gas. Natural gas flowed through completed 832 kilometre pipeline from Moomba–Gidgealpa to Adelaide.
- **1970** Abortion law reformed in South Australia. First direct telecast from England to Australia via satellite. Hairy-nosed wombat adopted as State's faunal emblem.
- 1971 Fluoridation of Adelaide water supply commenced. Age of majority reduced from twenty-one to eighteen. Commonwealth Government transferred power to levy payroll tax to the States. Daylight saving introduced in South Australia for the first time since the 1939–45 War. Death of SA Governor Sir James Harrison in office. Sir Mark Oliphant, the first SA born Governor, sworn in. Wearing of seat belts in motor vehicles made compulsory.
- 1972 New Stirling to Verdun freeway opened. New laws regulating door-to-door selling and used car dealing introduced. University of Adelaide's educational radio station VL5UV commenced broadcasting. Weather temperature reports changed to degrees Celsius. Daylight saving re-introduced for 1972–73 and subsequent summers. South Australian Film Corporation commenced operation. South Australia's first ombudsman appointed.
- 1973 New long service leave provision for three months leave after ten years service came into force. New \$11 million hospital opened at Modbury. Dunstan ALP Government returned at State election to become the first ALP Government to retain office after a general election in South Australia since 1910. Cross Lotto game introduced by State Lotteries Commission. Adelaide Festival Theatre opened by the Prime Minister. Legislation enacted for adult franchise and proportional representation for the Legislative Council. Compulsory blood tests for road accident victims introduced. \$50 note issued for the first time.
- 1974 World Gliding Championships held at Waikerie. H.R.H. Prince Philip, the Duke of Edinburgh, visited South Australia. First match held at the new South Australian National Football League headquarters at West Lakes. Conversion of road signs to metric measurements undertaken. Judgment handed down making four weeks annual leave standard for workers under State awards. Legislation allowing hotel trading to 12 midnight on Fridays and Saturdays came into force.
- 1975 Transmission of television in colour commenced. International Equestrian Exposition 1975 held in Adelaide and attended by H.R.H. Princess Anne. State Election held on 12 July, after the Legislation Council failed to pass the Railways (Transfer Agreement) Bill; the Dunstan ALP Government was returned with a reduced majority and the Bill was subsequently passed. Medibank commenced operations in South Australia. Legislation for the redistribution of House of Assembly electoral boundaries passed by the Legislative Council.
- 1976 A new commercial radio station (5AA) went to air, Adelaide's first for forty-six years. A new political party, the New Liberal Movement formed. Sir Douglas Nicholls appointed as Governor of South Australia from 1 December 1976. A total eclipse of the sun occurred in parts of South Australia on 23 October. Large deposits of copper ore discovered at Roxby Downs near Andamooka. Legislation passed making rape within marriage a criminal offence. Capital punishment abolished in South Australia.

- 1977 Her Majesty, Queen Elizabeth II and the Duke of Edinburgh visited South Australia. \$5.8 million Southern Plaza at the Adelaide Festival Centre officially opened by Her Majesty, Queen Elizabeth II. South Australia's first million dollar lottery, the Celebration Lottery, drawn by the Lotteries Commission. A major deposit of sub-bituminous coal discovered near Lock. The South Australian Health Commission came into operation. Keith Seaman sworn in as the new Governor of South Australia. Adelaide first water filtration plant at Hope Valley commenced operations. Late night shopping in city and suburbs commenced.
- 1978 A Royal Commission held into the dismissal of Police Commissioner Salisbury. The last ship to be built at Whyalla shipyards, the *Denis O'Malley*, was launched. Adelaide tramways held centenary celebrations. Lotteries Commission introduced Instant Money Game with prizes of up to \$10,000. South Australian Heritage Committee was formed.
- 1979 A new public transport zone-fare system introduced. D.A. Dunstan, the State's second longest serving Premier resigned for health reasons. Adelaide's unemployment levels highest in Australia in March 8.9 per cent of the workforce. Santos legislation passed, limiting maximum permissible single shareholdings to 15 per cent. State elections held; D.O. Tonkin, new Liberal Premier, sworn in. Merger of Bank of Adelaide with ANZ Banking Group approved. Charles Moore retail group ceased operating in South Australia.
- 1980 Norwood by-election, ordered by Court of Disputed Returns, won by ALP candidate G. Crafter. Bushfire destroyed thirty-five houses in Adelaide Hills, causing \$6 million damage. First of State Transport Authority's new 'Series 2000' railcars began service. Mitsubishi Motor Corporation purchased control of Chrysler Australia Ltd. New slogan The Festival State' for South Australian motor vehicle number-plates. Constitutional Museum opened. H.R.H. Princess Alexandra and her husband, Mr Angus Ogilvy, visited South Australia. The Tarcoola–Alice Springs rail link opened.
- 1981 By-election for Federal seat of Boothby, made vacant by the appointment of Mr J. McLeay as Consul-General in Los Angeles, won by Mr R. Steele Hall (Liberal). On February 15, Adelaide had its hottest day since 1948. Temperature reached 43.4°C. H.R.H. Charles, Prince of Wales visited South Australia. On June 1, Adelaide recorded its lowest barometric pressure ever (979 millibars).
- 1982 Commencement of Moomba–Stony Point liquids pipeline. An Australian register of ships established. Lt-Gen. Sir Donald Dunstan, KBE, CB, sworn in as the State's new Governor, in April. Mr Mario Feleppa, AM, endorsed to fill a casual vacancy in the Legislative Council, became the first Italian-born migrant to enter the South Australian Parliament. On June 8, Adelaide experienced its coldest minimum temperature since the Bureau of Meteorology began taking records in 1857; -0.4°C. Following amendments to the Licensing Act, some hotels in 'tourist areas' began trading on Sundays, for one or two two-hour periods. State elections held; J.C. Bannon, new Labor Premier sworn in. International air services commenced through Adelaide.

- 1983 First twins born in South Australia under Queen Elizabeth Hospital's *in vitro* fertilisation program. Large bushfires in February claimed 28 lives in South Australia. Damage estimated at over \$200 million. Fires at nine separate locations, including Clare, Adelaide Hills, and South-East. Adelaide recorded its lowest maximum March daytime temperature, 14.9°C (on March 22) for 104 years. The State was visited by H.R.H. Charles, Prince of Wales, and the Princess of Wales. Mrs Wendy Chapman was elected Adelaide's first woman Lord Mayor. Liquids pipeline from Moomba to Port Bonython completed.
- 1984 Maralinga Land Rights Bill was passed by State Parliament, returning 76,000 square kilometres of South Australia's Far North to the traditional Aboriginal owners. Australian National's new Adelaide Rail Passenger Terminal at Keswick began operating. Australia's new \$100 note and \$1 coin released for the first time. State Bank and Savings Bank of South Australia amalgamated. Snow fell in the Mount Lofty Ranges, in the Mid North, and at Peterborough.
- 1985 The Adelaide Station and Environs Redevelopment (ASER) Property Trust continued construction on the site of the old railway station yards. The Trust is building a 400-room international hotel, a convention centre, a new office block and two parking stations. ASER is also a partner in the company which operates the casino established in the station building. Australian Formula One Grand Prix motor race (in Adelaide's East Parklands) won by Keke Rosberg of Finland, driving a 'Williams'. Bannon Government re-elected in December. State Government appointed Australia's first Commissioner for the Ageing.
- 1986 Jubilee Celebrations, commemorating the 150th Anniversary of European settlement, began on New Year's Eve. Visit of Her Majesty Queen Elizabeth II and Duke of Edinburgh. Adelaide Festival of Arts held in March. Sixth World Three Day Equestrian Event Championships held at Gawler in May. Pope John Paul II visited the State. South Australian Maritime Museum in Port Adelaide opened in December.
- 1987 The River Murray Commission replaced by the Murray Darling Commission. State Reference Library renamed the Bray Reference Library. Entry fees to Belair and Para Vista National Parks introduced. Work commenced on the Botanical Gardens tropical conservatory. Daylight saving started one week later and finished in line with eastern States. Grand Prix held in November. Tall ships visited Port Adelaide in December en-route to Hobart. A substantial part of the submarine construction contract for RAN was awarded to South Australia.
- 1988 Large bushfire in January burnt out 70 per cent of Wilpena Pound. World Fireball Championship held at Glenelg. By-election for Federal seat of Adelaide, made vacant by resignation of Mr C. Hurford, was won by Mr M. Pratt (Liberal). The State was visited by H.R.H. Charles, Prince of Wales, and the Princess of Wales. Festival of Arts held in March. State Government announced relocation of Department of Agriculture Northfield Research Centre to Roseworthy. Red-light cameras installed at selected traffic light sites. Mitsubishi Motors Australia Ltd commenced exports of Magna motor car to Japan. \$2 coin issued for the first time. A new fortnightly container ship service between South Australia and Japan commenced. A Poll Merino ram sold for \$188,000, a world record price for the breed. East End Market closed down – replaced by a new market complex at Pooraka. The Australia's first hospitality industry training hotel, the College Arms, opened. Police Air Wing facility opened at Adelaide Airport.

- 1989 A new school of Nursing Studies at the Underdale campus of the SACAE opened. A new apprenticeship scheme, the Retail Traineeship Scheme, launched. Approval given for the stage one of the Wilpena Pound tourist resort development in the Flinders Ranges. Construction began of a new major metropolitan hospital at Noarlunga. National Crime Authority opened office in Adelaide. A \$40 levy introduced on vehicles visiting the Far North national parks. Natural gas supplied to Whyalla and the town's BHP steelworks. Highest rainfall ever in South Australia in one day (273 mm) recorded at Motpena Station near Flinders Ranges National Park. Extensive flooding in the north of the State during March. Lakes Eyre and Torrens filled, Lake Torrens for the first time this century. The Adelaide Childrens Hospital and Queen Victoria Hospital amalgamated to become the Adelaide Medical Centre for Women and Children. Australian Formula One Grand Prix won by Thierry Boutsen, driving a 'Williams'. Following the State Government election, ALP formed a minority Government with the help of two independents. Submarine fleet manufacturing facilities opened at Osborne.
- 1990 Festival of Arts held in March. Club Keno, the world's only on-line computer generated Keno game commenced. Free travel on STA scheduled services for children and students introduced. A new \$1.3 million pipe organ was unveiled in the Adelaide Town Hall. Exhibition Hall, the final stage of the Adelaide Plaza on North Terrace was opened. Adelaide recommended as a preferred site for the Multi Function Polis (MFP) by the MFP Joint Steering Committee. Department of Local Government was abolished. The fivemillionth Holden rolled off Elizabeth's production line. Police introduced radar speed cameras.
- 1991 University of South Australia formed by merging of the South Australian Institute of Technology and the Magill, Salisbury and Underdale Colleges of Advanced Education. Severe hailstorm in January caused extensive property damage in many parts of the State. Electoral reform referendum held in February, approved by 89.9 per cent of voters. Dame Roma Mitchell, AC, DBE, sworn in as the State's new Governor in February. Commonwealth Government announced three cooperative research centres in the State: Tissue Growth and Repair; Soil and Land Management; and Petroleum Industry. The Flinders University of South Australia celebrated its Silver Jubilee in March.

Chapter 3

GOVERNMENT

3.1 SYSTEM OF GOVERNMENT

South Australia is one of the six Australian States (originally constituted by Acts of the Imperial Parliament) which at Federation in 1901 ceded many of their powers on matters of national importance (*e.g.* international affairs and defence) to the Commonwealth of Australia. From time to time other powers on matters of local importance have been delegated to local governing bodies. As a result the people of South Australia are subject to the laws of a three-tier system of government. In addition statutory powers within specified fields are exercised by certain public corporations such as the State Bank of South Australia, the Electricity Trust of South Australia, the South Australian Housing Trust and the South Australian Meat Corporation.

Both the Commonwealth and the South Australian Parliaments are bicameral; in each the leader of the Government (the Prime Minister of the Commonwealth and the Premier of South Australia) is seated in the Lower House and in each the Upper House has restricted powers concerning money Bills.

Cabinet and Executive Government

Both in the Commonwealth and in South Australia, executive government is based on the system which was evolved in Britain in the eighteenth century and which is generally known as 'cabinet' or 'responsible' government. Its main principles are that the head of the State, Her Majesty the Queen (or her representative, the Governor-General or Governor, acting on her behalf) should perform governmental acts on the advice of her ministers; that she should choose her principal Ministers of State from members of Parliament belonging to the party or coalition of parties commanding a majority in the popular House; that the Ministry so chosen should be collectively responsible to that House for the government of the State; and that the Ministry should resign if it ceases to command a majority there.

The cabinet system operates chiefly by means of constitutional conventions, customs or understandings and through institutions that do not form part of the legal structure of government at all. The executive power of the Commonwealth is exercisable by the Governor-General and that of South Australia by the Governor, each being advised by an executive council which only meets for formal purposes. The whole policy of a Ministry is in practice determined by some or all of the Ministers of State, meeting without the Governor-General or Governor under the chairmanship of the Prime Minister or Premier. This group of Ministers is known as the Cabinet.

The Cabinet

As Ministers are the leaders of the party or parties commanding a majority in the popular House, the Cabinet substantially controls not only the general legislative program of Parliament, but the whole course of Parliamentary proceedings. In effect, though not in form, the Cabinet by reason of the fact that all Ministers are members of the Executive Council, is also the dominant element in the executive government of the State. In summoning, proroguing or dissolving Parliament, the Governor-General or the Governor is usually guided by the advice tendered him by the Cabinet through the Prime Minister or Premier, although legally the discretion is vested in the Governor-General or Governor himself.

Executive Council

The Executive Council is usually presided over by the Governor-General or Governor, the members holding office during his pleasure. All Ministers of State must be members of the Executive

Council. Commonwealth Ministers remain members of the Executive Council on leaving office, but are not summoned to attend its meetings, for it is an essential feature of the cabinet system that attendance should be limited to the Ministers of the day.

Appointment of Ministers

Legally, Ministers hold office during the pleasure of the Governor-General or Governor, but in practice the discretion of the Queen's representative in the choice of Ministers is limited by the conventions on which the Cabinet system rests. When a Ministry resigns the Crown's custom is to send for the leader of the party which commands, or is likely to be able to command, a majority in the popular House and to commission him, as Prime Minister or Premier, to 'form a Ministry' – that is, to nominate other persons to be appointed as Ministers of State and to serve as his colleagues in the Cabinet.

3.2 COMMONWEALTH GOVERNMENT

Federation

The Commonwealth of Australia was proclaimed on 1 January 1901 in 'An Act to constitute the Commonwealth of Australia', a statute of the Imperial Parliament, which received Royal Assent in July 1900. The draft Constitution, which was enacted with only minor amendment, had been prepared at intercolonial conferences during 1897, 1898, and 1899, and was accepted at referendums during 1899 by South Australia, New South Wales, Victoria, Queensland and Tasmania, and in 1900 by Western Australia.

Separation of Powers

The Constitution provides, in Sections 52, 69, 86, 90 and 115, for certain powers to be vested exclusively in the Commonwealth Government and, in Section 51, for certain specified fields of interest to be common to both the Commonwealth and State Governments until amendment is made to the Constitution Act or until the State Parliaments cede particular powers.

Financial Resources

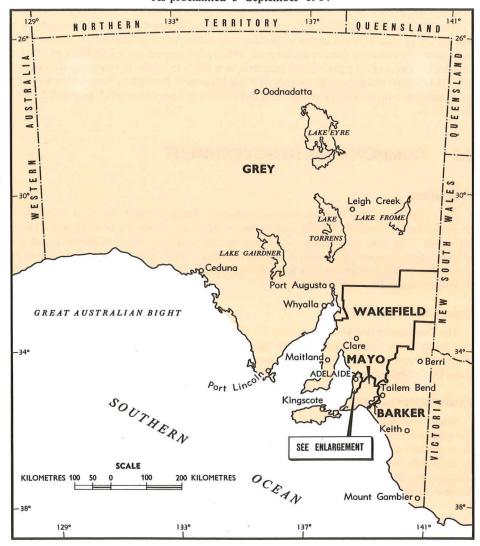
Since Federation the distribution of financial resources between the Commonwealth and State Governments has been an almost constant problem. Under the original terms of the Constitution three-quarters of the net revenues from the duties of customs and excise, for ten years, was returned to the States; provision also existed for general and particular grants to the States. Significant changes have been made in the distribution of financial resources since 1910. These are reviewed in some detail in Chapter 15 Public Finance.

COMMONWEALTH LEGISLATURE

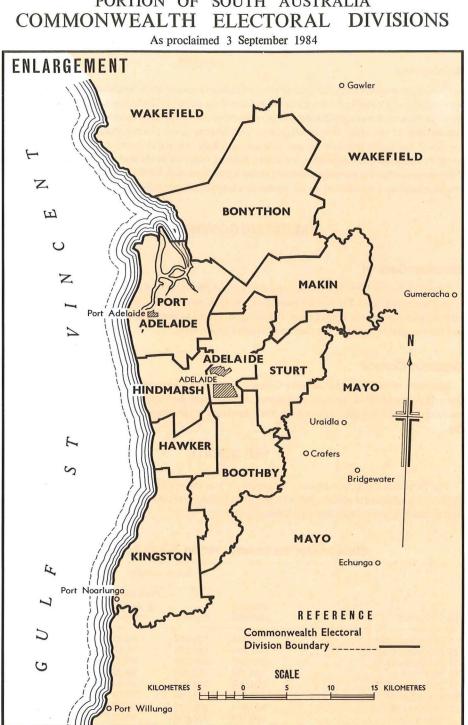
The Constitution provides that 'the legislative power of the Commonwealth shall be vested in a Federal Parliament, which shall consist of the Queen, a Senate, and a House of Representatives'. Provision for constitutional amendment includes a requirement that a proposed amendment must be submitted to a referendum.

Franchise

Qualifications for franchise are possessed by any Australian citizen or any British subject who on 25 January 1984 was enrolled on a Commonwealth electoral roll. The person must be not under eighteen years of age and not disentitled on other grounds. Residence in a subdivision for a period of one month before enrolment, is necessary to enable a qualified person to enrol. Enrolment and voting are compulsory although compulsory enrolment provisions did not apply to Aborigines before 21 February 1984.



SOUTH AUSTRALIA COMMONWEALTH ELECTORAL DIVISIONS As proclaimed 3 September 1984



PORTION OF SOUTH AUSTRALIA

26 GOVERNMENT

Persons of unsound mind, or convicted of treason or treachery and not pardoned, or convicted and under sentence for any offence punishable by imprisonment for five years or longer, or persons who are holders of temporary entry permits under the *Migration Act 1958* (Cwlth) or are prohibited non-citizens under that Act are excluded from the franchise.

Membership

Qualifications necessary for membership of either House of the Commonwealth Parliament are possessed by any qualified elector who is an Australian citizen of the full age of eighteen years. The principal reasons for disqualification of persons otherwise eligible as members of either House are; membership of the other House, allegiance to a foreign power, being attainted of treason, being convicted and under sentence for any offence punishable by imprisonment for one year or longer, being an undischarged bankrupt or insolvent, holding office of profit under the Crown (with certain exceptions), or having pecuniary interest in any agreement with the Public Service of the Commonwealth except as a member of an incorporated company of more than twenty–five persons.

EXECUTIVE GOVERNMENT

Governor-General

On 16 February 1989 His Excellency the Honourable William George Hayden, AC was sworn in as the twenty–first Governor-General of the Commonwealth. His authority as the Queen's representative is derived from Letters Patent, instructions under the Royal Sign Manual and Signet, and the relevant sections of the Commonwealth Constitution.

Executive Council

1 December 1984

11 July 1987

24 March 1990

Members of the Federal Executive Council are chosen, summoned and sworn by the Governor-General and hold office during his pleasure. All Ministers are members. Councillors usually retain membership for life but it is customary for attendance at meetings to be limited to Ministers of the day.

THE SENATE

The Senate is the Upper House. Originally it was intended that this House should protect the rights and interests of the States, but with the growth of the parliamentary system of party–line voting, its role has become mainly that of a house of review.

Votes recorded Informal votes Percentage Percentage Electors of electors of votes Date of election enrolled Number enrolled Number recorded 5 December 1964 551,341 528,464 95.85 39,421 7.46 25 November 1967 594,480 95.68 32,864 568,823 5.78 21 November 1970 639,807 609,268 95.23 42,306 6.94 18 May 1974 750,308 722,434 96.28 82,191 11.38 13 December 1975 96.24 75,540 789,004 759,369 9.95 10 December 1977 824,205 783.669 95.08 81,451 10.39 18 October 1980 849,899 806,695 94.92 70,359 8.72 5 March 1983 880,455 836,699 95.03 73,350 8.77

906,278

942,880

966,431

862,369

890,556

931,561

95.16

94.45

96.39

46,399

33,514

23.438

5.38

3.76

2.52

Elections for the Senate : Voting, South Australia

Representation

At present the Senate consists of seventy-six members, twelve from each State, two from the Australian Capital Territory and two from the Northern Territory. The original provision was that each State, voting as a single electorate, should elect six Senators but by the Representation Act of 1983, which was effective for the 1984 elections, the number was raised to twelve. By the *Senate (Representation of Territories) Act 1973* (Cwlth), two Senators were added from both the Australian Capital Territory and the Northern Territory. The Territories were represented in the Senate for the first time following the general election of 13 December 1975. Except in extraordinary circumstances each Senator is elected for a term of six years. Six Senators from each State and all Territory Senators retire every three years.

The members representing South Australia in the Senate are:

To Retire 30 June 1993:

Foreman, Dominic (ALP) Olsen, John (LP) Lees, Meg (AD) Bolkus, Nick (ALP) Vanstone, Amanda (LP) Maguire, Graham (ALP) To Retire 30 June 1996:

Hill, Robert (LP) Crowley, Rosemary (ALP) Coulter, John (AD) Teague, Baden (LP) Schacht, Chris (ALP) Chapman, Grant (LP)

THE HOUSE OF REPRESENTATIVES

Representation

The members of the House of Representatives (the Lower House) are elected in single-member electorates. The number of electorates into which a State is divided is determined by the proportion that the population of the State bears to the population of the Commonwealth as a whole. Section 24 of the Constitution provides that the number of members in the House of Representatives shall be as nearly as possible twice the number of Senators and prescribes the formula to be used, 'until the Parliament otherwise provides', for allocating to each State its share of the available seats but stipulates that no original State shall have less than five members in the House. In addition one member is elected from the Northern Territory and two members are elected from the Australian Capital Territory. Preferential voting is used for elections for the House of Representatives.

		Votes	recorded	Informal votes		
Date of election	Electors enrolled	Number	Percentage of electors enrolled	Number	Percentage of votes recorded	
26 November 1966	585,465	563,341	96.22	16,220	2.88	
25 October 1969	624,626	599,719	96.01	20,562	3.43	
2 December 1972	671,081	644,211	96.00	16,845	2.61	
18 May 1974	750,308	722,434	96.28	20,311	2.81	
13 December 1975	789,004	759,369	96.24	18,201	2.40	
10 December 1977	824,205	783,669	95.08	26,461	3.38	
18 October 1980	849,899	806,695	94.92	22,491	2.79	
5 March 1983	880,455	836,699	95.03	22,380	2.67	
1 December 1984	906,278	859,629	94.85	74,719	8.69	
11 July 1987	942,880	884,418	93.80	60,536	6.84	
24 March 1990	966,431	927,897	96.01	34,143	3.68	

Elections for the House of Representatives : Voting, South Australia

Electorate			Successful candidates				
	Electors on roll	Electors voting	Name	Party	First preference votes		
Adelaide	73,864	70,444	Catley, R.	ALP	26,953		
Barker	72,885	70,363	McLachlan, I.M.	LP -	39,470		
Bonython	76,360	73,293	Blewett, N.	ALP	36,326		
Boothby	74,981	71,686	Hall, S.	LP	36,010		
Grey	69,708	66,309	O'Neil, L.	ALP	30,600		
Hawker	71,020	68,066	Gallus, C.	LP	28,348		
Hindmarsh	73,406	70,192	Scott, J.	ALP	29,212		
Kingston	75,823	73,222	Bilney, G.	ALP	26,206		
Makin	75,053	72,653	Duncan, P.	ALP	27,462		
Мауо	79,754	76,734	Downer, A.J.G.	LP	39,037		
Port Adelaide	73,811	70,875	Sawford, R.	ALP	36,186		
Sturt	72,511	69,569	Wilson, I.B.C.	LP	33,129		
Wakefield	77,255	74,491	Andrew, N.	LP	40,216		

House of Representatives, 1990 Election Voting and Party Representation in South Australian Electorates

3.3 GOVERNMENT OF SOUTH AUSTRALIA

The *Constitution Act 1855*, which inaugurated the system of responsible government in South Australia, was passed and came into force on 24 October 1856. A summary of early constitutional history and the introduction of responsible government was included on pages 60–2 of the *South Australian Year Book 1971*.

VICE-REGAL REPRESENTATION

The Honourable Dame Roma Mitchell, AC, DBE, was sworn in as the Queen's representative in South Australia on 6 February 1991.

The title of the vice-regal representative has been varied from time to time. The first three holders of the Office were styled 'Governor and Commander-in-Chief', the next two, 'Lieutenant-Governor', and the following two, 'Captain-General and Governor-in-Chief'. The title then reverted to its original form until Federation in 1901. Since then, because of the appointment of a 'Governor-General and Commander-in-Chief in and over the Commonwealth', the holder of the State office has been described simply as 'Governor', and this title is used in the following table, which lists occupants of the office since the foundation of South Australia.

As titular head of the Government of South Australia the Governor exercises powers, duties, and functions, similar to those of a constitutional sovereign. On the one hand he is indirectly responsible to the Imperial Parliament through the Secretary of State for Foreign and Commonwealth Affairs, and on the other hand he usually acts on the advice of his Ministers, who take the responsibility for their advice. Nevertheless, the Governor retains important spheres of discretionary action and is thus enabled to maintain something of a safeguard against malpractice and injustice, particularly in extreme circumstances. To ensure continuity of services, the Governor has power to appropriate up to one per cent of the total amount appropriated from the State's general revenue by the Appropriation Acts for public service without specific Parliamentary authority. The amount appropriated from Consolidated Revenue for the Governor's salary and allowances for 1989–90 was \$148,100. The *Governors' Pensions Act 1976* provides for a pension to be paid to former Governors and to the spouses of deceased Governors.

Governors of South Australia

Name	Term of Office			
Captain John Hindmarsh, RN, KH	28 December 1836	16 July 1838		
Lt-Col. George Gawler, KH	17 October 1838	15 May 1841		
George Grey	15 May 1841	25 October 1845		
Lt-Col. Frederick Holt Robe	25 October 1845	2 August 1848		
Sir Henry E.F. Young	2 August 1848	20 December 1854		
Sir Richard G. MacDonnell, CB	8 June 1855	4 March 1862		
Sir Dominick Daly	4 March 1862	19 February 1868		
Rt Hon. Sir James Fergusson, Bart	16 February 1869	18 April 1873		
Sir Anthony Musgrave, KCMG	9 June 1873	29 January 1877		
Lt-Gen. Sir Wm F.D. Jervois, GCMG, CB	2 October 1877	9 January 1883		
Sir Wm C.F. Robinson, GCMG	19 February 1883	5 March 1889		
Rt Hon. the Earl of Kintore, PC, GCMG	11 April 1889	10 April 1895		
Sir Thomas F. Buxton, Bart, GCMG	29 October 1895	29 March 1899		
Rt Hon. the Lord Tennyson, KCMG	10 April 1899	17 July 1902		
Sir George R. Le Hunte, KCMG	1 July 1903	18 February 1909		
Admiral Sir Day Hort Bosanquet, GCVO, KCB	18 February 1909	22 March 1914		
Lt-Col. Sir Henry L. Galway, KCMG, DSO	18 April 1914	30 April 1920		
Lt-Col. Sir Wm E.G. Archibald Weigall, KCMG	9 June 1920	30 May 1922		
Lt-Gen. Sir George T.M. Bridges, KCB, KCMG, DSO	4 December 1922	4 December 1927		
BrigGen. the Hon. Sir A.G.A. Hore-Ruthven, VC,				
KCMG, CB, DSO	14 May 1928	26 April 1934		
MajGen. Sir W.J. Dugan, KCMG, CB, DSO	28 July 1934	23 February 1939		
Sir Charles M. Barclay-Harvey, KCMG	12 August 1939	26 April 1944		
Lt-Gen. Sir C.W.M. Norrie, KCMG, CB, DSO, MC	19 December 1944	19 June 1952		
Air Vice-Marshal Sir Robert A. George, KCMG,				
КСVО, КВЕ, СВ, МС	23 February 1953	7 March 1960		
Lt-Gen. Sir Edric M. Bastyan, KCMG, KCVO,	-			
КВЕ, СВ	4 April 1961	1 June 1968		
MajGen. Sir James W. Harrison, KCMG, CB, CBE .	4 December 1968	16 September 1971		
Sir Mark L. Oliphant, KBE	1 December 1971	30 November 1976		
Sir Douglas R. Nicholls, KCVO, OBE	1 December 1976	30 April 1977		
Sir Keith D. Seaman, KCVO, OBE	1 September 1977	28 March 1982		
Lt-Gen. Sir Donald B. Dunstan, KBE, CB	23 April 1982	5 February 1991		
The Hon. Dame Roma Mitchell, AC, DBE	6 February 1991			
The Hon. Dame Roma Mitchell, AC, DBE	6 February 1991			

A Governor is normally appointed for a term of five years, but can be reappointed for one or more subsequent terms.

In the absence or prolonged illness of a Governor other persons have been appointed to administer the government of the State. These persons have been variously styled 'Lieutenant-Governor', 'Deputy-Governor', 'Deputy Lieutenant-Governor', and 'Administrator', and several of them have held office more than once.

CABINET AND EXECUTIVE GOVERNMENT

In South Australia every Minister must be a member of either the Legislative Council or the House of Assembly. All Ministers are members of the Cabinet and all Ministers are *ex officio* members of the Executive Council. Although the Governor may, subject to any law enacted by the Legislature, appoint other persons to the Executive Council, membership is in practice limited to Ministers of the day.

The maximum number of Ministers has been varied from time to time. In 1856 the number was five; in 1873, six; 1901, four; 1908, six; 1953, eight; 1965, nine; 1970, ten; 1973, eleven; 1975, twelve and 1978, thirteen. In 1908 it was specified that no more than four Ministers were to be in the House of Assembly, but in 1953 this limit was increased to five, in 1965 to six, in 1970 to seven and in 1973 to eight. This restriction on the number of Ministers from the Lower House was removed

by the *Constitution Act Amendment Act (No. 2) 1975* and now it is permissible for all Ministers to be selected from the House of Assembly.

Cabinet, as such, has no legal powers. Some Cabinet decisions result in the initiation and subsequent enactment of legislation; other decisions become legally binding through ratification by Executive Council or through powers vested in individual Ministers for the administration and control of their respective departments of government. In addition to government departments, statutory authorities also come under some degree of ministerial or parliamentary oversight.

Premiers

Since 1856 the following thirty-nine persons have held the office of Premier.

				Total µ in Oj	
Names .	Dates	Years	Days		
Hon. Boyle T. Finnis	24/10/1856	_	21/8/1857	_	301
Hon, John Baker	21/8/1857	_	1/9/1857	-	11
Hon. Robert R. Torrens	1/9/1857		30/9/1857	-	29
Hon. Richard D. Hanson	30/9/1857		9/5/1860	2	222
Hon. Thomas Reynolds	9/5/1860	-	8/10/1861	1	152
Hon. G.M. Waterhouse	8/10/1861		4/7/1863	1	269
Hon. Francis S. Dutton	4/7/1863		15/7/1863;		
	22/3/1865		20/9/1865	_	193
Hon. Sir Henry Ayers, KCMG	15/7/1863		4/8/1864;		
	20/9/1865	-	23/10/1865;		
	3/5/1867		24/9/1868;		
	13/10/1868	-	3/11/1868;		
	22/1/1872	-	22/7/1873	4	35
Hon. Arthur Blyth	4/8/1864		22/3/1865;		
	10/11/1871		22/1/1872;		
	22/7/1873	_	3/6/1875	2	254
Hon. John Hart, CMG	23/10/1865	_	28/3/1866;		
· · ·	24/9/1868	_	13/10/1868;		
	30/5/1870	_	10/11/1871	1	339
Hon. James P. Boucaut, QC	28/3/1866	_	3/5/1867;		
	3/6/1875	_	6/6/1876;		
	26/10/1877	_	27/9/1878	3	11
Hon. H.B. Strangways	3/11/1868	_	30/5/1870	1	208
Hon. John Colton	6/6/1876	_	26/10/1877;		
	16/6/1884		16/6/1885	2	142
Hon. William Morgan	27/9/1878	****	24/6/1881	2	270
Hon. John C. Bray	24/6/1881		16/6/1884	2	358
Hon. Sir J.W. Downer, KCMG, QC	16/6/1885		11/6/1887;		
	15/10/1892	-	16/6/1893	2	239
Hon. Thomas Playford	11/6/1887		27/6/1889;		
	19/8/1890	-	21/6/1892	3	323
Hon. J.A. Cockburn	27/6/1889	-	19/8/1890	1	53
Hon. F.W. Holder	21/6/1892	_	15/10/1892;		
	8/12/1899	-	15/5/1901	1	274
Rt Hon. C.C. Kingston, QC	16/6/1893	_	1/12/1899	6	168
Hon. V.L. Solomon	1/12/1899	_	8/12/1899	-	7
Hon. J.G. Jenkins	15/5/1901	_	1/3/1905	3	290
Hon. Richard Butler	1/3/1905	_	26/7/1905	-	147
Hon. Thomas Price	26/7/1905	_	5/6/1909	3	314
Hon. A.H. Peake	5/6/1909	_	3/6/1910;		
	17/2/1912	_	3/4/1915;		
	14/7/1917	_	8/4/1920	6	312
Hon. John Verran	3/6/1910		17/2/1912	1	259

Premiers of South Australia

				Total J in Oj	
Names	Dates of Office			Years	Days
Hon. Crawford Vaughan	3/4/1915		14/7/1917	2	102
Hon. Sir H.N. Barwell, KCMG	8/4/1920		16/4/1924	4	8
Hon. John Gunn	16/4/1924		28/8/1926	2	134
Hon. Lionel L. Hill	28/8/1926		8/4/1927;		
	17/4/1930		13/2/1933	3	160
Hon, R.L. Butler	8/4/1927		17/4/1930;		
	18/4/1933		5/11/1938	8	210
Hon. R.S. Richards	13/2/1933		18/4/1933		64
Hon. Sir Thomas Playford, GCMG	5/11/1938		10/3/1965	26	125
Hon, F.H. Walsh	10/3/1965		1/6/1967	2	83
Hon, D.A. Dunstan, QC	1/6/1967		17/4/1968:		
	2/6/1970		15/2/1979	9	210
Hon, R.S. Hall	17/4/1968		2/6/1970	2	47
Hon, J.D. Corcoran	15/2/1979		18/9/1979	_	216
Hon. D.O. Tonkin	18/9/1979		10/11/1982	3	49
Hon. J.C. Bannon	10/11/1982		-	P	

Premiers of South Australia (continued)

PARLIAMENT

Parliament is summoned, prorogued, or dissolved, by proclamation issued by the Governor. The two Houses of Parliament are the Legislative Council (Upper House) and the House of Assembly (Lower House). The following table gives the dates and the number of House of Assembly sitting days for Parliamentary sessions in recent years.

Parliamentary session	P	erio	d	House of Assembi sitting day	
1978–79	13/7/78	_	1/3/79	55	
1979	24/5/79	_	22/8/79	11	
1979–80	11/10/79	_	12/6/80	35	
1980–81	31/7/80	_	11/6/81	56	
1981–82	16/7/81	_	18/6/82	68	
1982	20/7/82	_	14/10/82	27	
1982–83	8/12/82	_	2/6/83	26	
1983–84	4/8/83	_	10/5/84	56	
1984–85	2/8/84		16/5/85	60	
1985	1/8/85	_	7/11/85	31	
1986	11/2/86	_	25/3/86	12	
1986–87	31/7/86	_	14/4/87	57	
1987–88	6/8/87	_	14/4/88	55	
1988–89	4/8/88	_	13/4/89	48	
1989	3/8/89	_	19/10/89	24	
1990	8/2/90		11/4/90	21	

Voting System

Members for both Houses are elected by secret ballot; the preferential system of voting is used. In filling the vacancy for each House of Assembly district the candidate who has received the largest number of first preference votes is elected if this number constitutes an absolute majority (*i.e.* greater than one–half of the total formal votes). If no candidate has received an absolute majority of first preference votes a second count is made in which the second preferences of the candidate who has received the fewest first preference votes are distributed. This distribution of second preferences of the successive candidate with the fewest votes is repeated until one candidate has received an absolute majority of votes.

32 GOVERNMENT

The members of the Legislative Council are elected through a system of proportional representation with the whole of the State as a single multi-member electoral district.

Members, Qualifications, and Privileges

Certain requirements must be met before a person qualifies for membership of the South Australian Parliament. The following persons are not eligible for membership of either House; Judges, persons under the age of eighteen, aliens, members of the Commonwealth Parliament, persons who are not residents of South Australia, holders of certain government contracts, occupants of certain offices of profit under the Crown, and persons of unsound mind. Other requirements applicable only to one House or the other are mentioned on page 34. Each member is required to take an oath or make an affirmation of allegiance to the Crown before being permitted to sit or vote in Parliament. All members of the Parliament are entitled to such privileges, immunities, and powers as were held by members of the House of Commons on 24 October 1856, the date on which the Constitution Act came into force.

Franchise

The franchises for the separate Houses are shown on page 34. South Australia was the first, at the general election of 25 April 1896, of the Australian States to give voting rights to women, and the existence of this provision in this State contributed to the decision to include full adult franchise in proposals for Federation. For the first eighty–five years of responsible government voting for both Houses of Parliament was voluntary but the Electoral Act Amendment Act of 1942 made voting for the House of Assembly compulsory for persons whose names appear on the House of Assembly Electoral Roll.

Numbers of Members and Electorates

Alterations made to the number of members and number of electorates for each of the two Houses are shown in the following table.

Date	Legislati	ive Council	House of Assembly		
	Members	Electorates	Members	Electorates	
1856	18	1	36	17	
1863	18	1	36	18	
1875	18	1	46	22	
1882	24	4	46	22	
1884 (a)	24	4	52	26	
1890	24	4	54	27	
1902	18	4	42	13	
1912 (b)	18	4	40	12	
1915	20	5	46	19	
1938	20	5	39	39	
1970	20	5	47	47	
1975	21	1	47	47	
1979	22	1	47	47	

Members and Electorates, South Australia

(a) Separate representation for Northern Territory.

(b) Cession of Northern Territory to Commonwealth Government control.

Functions of Parliament

The function of Parliament is to legislate for the peace, order, and good government of the State. Principal among the tasks of Parliament is the raising of revenue and the appropriation of funds for the development and maintenance of the State through its public services.

Legislation may be initiated by any member in either House except that money Bills must be initiated by Ministers of the Crown in the House of Assembly; the Legislative Council may suggest

amendments to money Bills although it may not effect such amendments itself. Most Bills are initiated by the Government as a result of the deliberations of Cabinet. The Opposition and independent members usually confine their activities to examination, criticism, and amendment, of Government measures. Legislation, other than to amend the Constitution, may be passed by a simple majority of the votes of the members present.

Constitutional Amendment

Alteration to the Constitution Act is in the hands of the Parliament. An alteration to the Constitution requires at the second and third readings of the Bill acceptance by a majority of all the members (not only those present or voting) of each House voting separately.

Deadlocks

A deadlock results from the refusal by the Legislative Council to pass the same (or substantially the same) Bill during two consecutive Parliaments, provided that a general election for the House of Assembly has been held between the refusals and that on the second occasion an absolute majority of all the members of the House of Assemblyvoted in favour of the Bill at its second and third readings. In the event of a deadlock between the Houses, provision is made for the dissolution of both Houses.

Life of Parliament

Term of office of each Parliament is four years from the day on which it first meets for the dispatch of business and it may not be prorogued or dissolved by the Governor before the expiration of three years from the day it first met unless the House passes a motion of no confidence in the Government, a Bill of 'special importance' is rejected by the Legislative Council or, the Governor is acting in the settlement of a deadlock.

Cost of Parliamentary Government

The following table shows, in broad groups, the expenditure incurred in the operation of the parliamentary system in South Australia, comprising the Governor, the Ministry, the Legislative Council, House of Assembly and electoral activities.

(+ 666)									
Particulars	1985–86	198687	198788	1988-89	1989–90				
Governor's establishment	1,008	917	1,138	1,019	1,030				
Ministry	1,107	1,187	1,196	1,293	1,318				
Parliament:									
Legislative Council (a)	1,790	1,879	2,210	3,056	3,059				
House of Assembly (a)	3,635	3,787	4,548	6,066	6,029				
Other (b)	9,158	9,942	10,920	8,350	11,395				
Total Parliament	14,583	15,608	20,013	19,783	20,484				
Electoral	940	2,921	961	1,519	4,171				
Royal Commissions, Select Committees etc	128	128	159	231	179				
Total	19,748	18,832	21,147	21,532	27,181				

Cost of Parliamentary Government, South Australia (\$'000)

(a) Allowances to members, travelling and other expenses.

(b) Government contribution to members' superannuation funds, printing, reporting staff, library etc.

34 GOVERNMENT

LEGISLATIVE COUNCIL

Members and Electorates

The Constitution and Electoral Acts Amendment Act 1973, assented to on 22 November 1973, increased the number of members in the Legislative Council from twenty to twenty-two and reduced the number of electorates to one with the whole State becoming a single electorate with members elected on a proportional representation basis. This amendment did not become fully effective for two general elections as only half the Legislative Councillors retire at each election and eleven members (not ten as previously) are now elected at each general Legislative Council election. At the general election of 15 September 1979, eleven members were elected to the Legislative Council and at present there are twenty-two members in this House. In future, casual vacancies will be filled by a person chosen at a joint sitting of the members of the Legislative Council and House of Assembly.

Franchise

Under the *Constitution and Electoral Acts Amendment Act 1973*, all names which appear on the House of Assembly Electoral Roll are included on the Legislative Council Electoral Roll. Qualifications for House of Assembly electors are discussed below.

President

At the first meeting of the Council in each Parliament the members choose one from among their number to fill the position of President. The person so selected is then entitled to a casting vote only.

HOUSE OF ASSEMBLY

Seat of Government

The House of Assembly can be regarded as the more important Chamber in that the Government of the day holds its position as such only so long as it controls a majority in this House. When it no longer controls such a majority in vital issues, particularly 'money Bills', the Government must resign or go to the polls. Once defeated in the Lower House on a 'money Bill', the Government is unable to finance the administration of the State.

Franchise

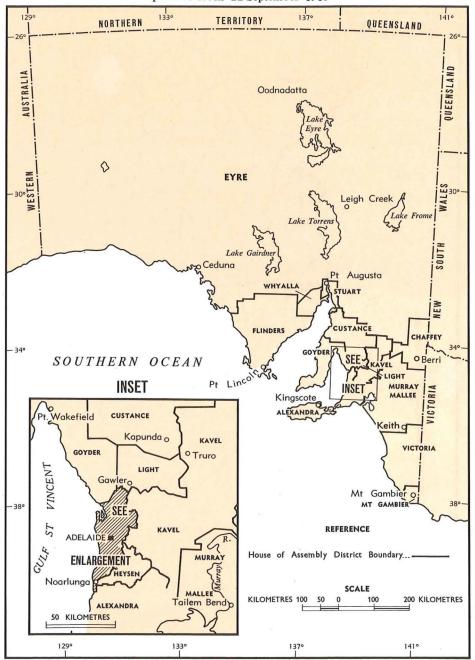
An Australian citizen, or a British subject who was enrolled on a Commonwealth electoral roll and/or at some time between 26 October 1983 and 25 January 1984 was enrolled on an electoral roll for a South Australian Assembly district or a Commonwealth electoral roll in any State, and at least eighteen years of age who has lived in a Subdivision for at least one month immediately preceding the date of his or her claim for enrolment is entitled to vote at an election for a Member of the House of Assembly if, at the time of the election, he or she is enrolled on the electoral roll for a Subdivision of the Assembly District in which the election is held, and is not of unsound mind.

Persons convicted of an offence punishable with imprisonment for one year or more and persons attainted of treason are entitled to the same voting rights as ordinary citizens under the provisions of the *Constitutional Act Amendment Act 1976*.

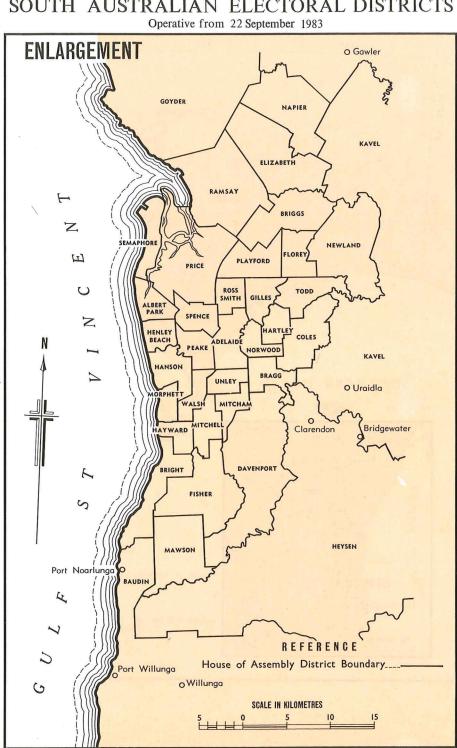
Enrolment for the House of Assembly is not compulsory but in practice, as a consequence of the operation of the Commonwealth and House of Assembly Joint Electoral Rolls, most persons enrolling for the Commonwealth Electoral Roll are also enrolled for the House of Assembly.

Membership

Subject to the exclusions mentioned on page 32 election to the House of Assembly is open to those eligible to vote in an election for the House. Members of this House are elected for a maximum of four years, for single-member districts. The seat of a member becomes vacant through his death, resignation or disqualification and, usually, is filled at a by-election.



SOUTH AUSTRALIA SOUTH AUSTRALIAN ELECTORAL DISTRICTS Operative from 22 September 1983



PORTION OF SOUTH AUSTRALIA SOUTH AUSTRALIAN ELECTORAL DISTRICTS

Electorates and Electoral Distribution

The Electoral Districts Boundaries Commission, established under the *Constitution Act 1934*, comprises a Judge of the Supreme Court, the Electoral Commissioner and the Surveyor-General and is responsible for making periodical adjustments to House of Assembly electoral boundaries in South Australia. The Commission must, before commencing proceedings invite, by advertisement, representations by any person in relation to the redistribution of boundaries.

Boundaries are re-drawn with the principles that amongst the population of each electoral district a community of interest exists (*e.g.* social, economic, regional or other kind) and, that the number of electors in each district should not vary from a predetermined quota by more than ten per cent. This quota is calculated by dividing the total number of electors in South Australia by the total number of House of Assembly electoral districts.

Officers and their Functions

The Speaker presides over the House, and his election is the first business when a Parliament first meets. He presides over debate, maintains order, represents the House officially, communicates its wishes and resolutions, defends its privileges when necessary, and applies its procedure. The Speaker may exercise a casting vote only. There is also a Chairman of Committees elected by the House at the beginning of each Parliament; he presides over the deliberations of the House in Committee and acts as Deputy Speaker when required.

Other officers of the Parliament include the Leader and Deputy Leader of the Opposition in either House and party whips whose function is to ensure that their party members are present in the House for divisions and other important business.

ELECTIONS AND PARTY REPRESENTATION

The following table gives details of the numbers of electors enrolled and voting in contested electorates for all general elections from 1953 to 1989.

		Legis	lative Council		House of Assembly Contested electorates			
		Conte	sted electorate.	s				
Date		Electors enrolled	Electors voting	Per cent	<i>Electors</i> enrolled	Electors voting	Per cent	
7	March 1953	97,968	79,373	81.02	354,273	336,529	95.00	
3	March 1956	22,963	16,002	69.69	299,048	280,811	93.90	
7	March 1959	86,278	70,007	81.14	426,340	400,531	93.95	
3	March 1962	118,218	98,786	83.56	444,197	417,462	93.98	
6	March 1965	186,899	149,910	80.21	542,436	513,064	94.59	
2	March 1968	275,701	262,328	95.15	609,626	575,948	94.48	
30	May 1970				635,533	603,952	95.03	
10	March 1973	383,758	357,971	93.28	696,290	655,937	94.20	
12	July 1975	771,414	719,753	93.30	771,414	721,770	93.56	
17	September 1977				818,335	764,072	93.37	
15	September 1979	826,586	765,033	92.55	826,586	768,985	93.03	
6	November 1982	871,215	808,363	92.79	871,215	811,758	93.18	
7	December 1985	905,507	846,250	93.46	905,507	846,289	93.46	
25	November 1989	941,368	889,896	94.53	941,368	888,918	94.43	

South Australian Parliament : Voting at Elections, 1953 to 1989

The following table shows the Party representation in both Houses of the South Australian Parliament resulting from each general election from 1953.

	Le	gislative C	ouncil	House of Assembly		
Date	ALP	LP	Other	ALP	LP	Other
7 March 1953	4	16		14	21	4
3 March 1956	4	16		15	21	3
7 March 1959	4	16		17	20	2
3 March 1962	4	16	-	19	18	. 2
6 March 1965	4	16	-	21	17	1
2 March 1968	4	16	_	19	19	1
30 May 1970	4	16	_	27	20	_
10 March 1973	6	13	1	26	18	3
12 July 1975	10	9	2	23	20	4
17 September 1977	10	11	_	27	18	2
15 September 1979	10	11	1	19	25	3
6 November 1982	9	11	2	24	21	2
7 December 1985	10	10	2	27	16	4
25 November 1989	10	10	(a)2	22	22	<i>(b)</i> 3

(b) 1 National Party, 2 Independent Labor. ty LP Liberal Party of Australia (a) Australian Democrats.

ALP Australian Labor Party

At the general election held on 25 November 1989 there were forty-seven electorates represented in the House of Assembly. The table which follows shows the electoral returns for that general election.

			Success	ful candidate	
	Electors	Electors		pr	First eference
Electorate	on roll	voting	Name	Party	votes
Adelaide	18,802	17,393	Armitage, M.	LP	8,290
Albert Park	21,304	20,190	Hamilton, K.	ALP	10,572
Alexandra	22,125	21,055	Chapman, T.	LP	12,200
Baudin	22,364	21,009	Hopgood, D.	ALP	9,809
Bragg	19,907	18,473	Ingerson, G.	LP	11,585
Briggs	19,817	18,770	Rann, M.	ALP	10,112
Bright	21,192	20,304	Matthew, W.	LP	8,911
Chaffey	20,465	18,821	Arnold, P.	LP	10,716
Coles	18,639	17,753	Cashmore, J.	LP	9,851
Custance	18,461	17,545	Olsen, J.	LP '	10,525
Davenport	19,508	18,460	Evans, S.	LP	10,146
Elizabeth	16,299	15,337	Evans, M.	IND.LABOR	5,884
Eyre	18,106	16,141	Gunn, G.	LP	9,745
Fisher	26,817	25,674	Such, B.	LP	11,653
Flinders	18,316	17,338	Blacker, P.	NP	8,241
Florey	23,348	22,327	Gregory, B.	ALP	9,591
Gilles	17,834	16,993	McKee, C.	ALP	8,177
Goyder	21,774	20,823	Meier, J.	LP	12,641
Hanson	18,977	17,847	Becker, H.	LP	9,130
Hartley	19,281	18,204	Groom, T.	ALP	8,371
Hayward	17,920	17,099	Brindal, M.	LP	7,266
Henley Beach	20,334	19,316	Ferguson, D.	ALP	9,040
Heysen	21,163	19,961	Wotton, D.	LP	11,162
Kavel	22,164	21,179	Goldsworthy, R.	LP	11,560
Light	21,909	21,012	Eastick, R.	LP	10,912
Mawson	22,884	21,710	Lenehan, S.	ALP	10,484
Mitcham	19,537	18,212	Baker, S.	LP	9,883

House of Assembly : Party Representation, 1989

			Successful candidate			
Electorate	Electors on roll	Electors voting	Name	pr Party	First eference votes	
Mitchell	18,576	17,570	Holloway, P.	ALP	8,187	
Morphett	18,509	17,323	Oswald, J.	LP	9,364	
Mount Gambier	19,685	18,673	Allison, H.	LP	12,394	
Murray Mallee	19,977	18,987	Lewis, P.	LP	11,774	
Napier	19,075	17,858	Hemmings, T.	ALP	10,300	
Newland	22,208	21,295	Kotz, D.	LP	8,989	
Norwood	18,772	17,476	Crafter, G.	ALP	7,499	
Peake	19,533	18,267	Heron, V.	ALP	8,965	
Playford	19,626	18,609	Quirke, J.	ALP	9,244	
Price	19,836	18,701	De Laine, M.	ALP	10,813	
Ramsay	24,328	22,988	Arnold, L.	ALP	13,369	
Ross Smith	18,354	17,327	Bannon, J.	ALP	9,902	
Semaphore	19,603	18,525	Peterson, N.	IND.LABOR	7,210	
Spence	19,985	18,762	Atkinson, M.	ALP	9,762	
Stuart	19,153	18,007	Hutchison, C.	ALP	8,573	
Todd	20,293	19,428	Klunder, J.	ALP	8,822	
Unley	19,254	17,858	Mayes, K.	ALP	7,662	
Victoria	20,125	19,061	Baker, D.	LP	12,892	
Walsh	18,480	17,461	Trainer, J.	ALP	8,520	
Whyalla	16,749	15,748	Blevins, F.	ALP	7,806	

House of Assembly : Party Representation, 1989 (continued)

By-election in June 1990 for the seat of Custance, made vacant by the resignation of Mr J. Olsen, was won by Mr I. Venning(LP). ALP Australian Labor Party LP Liberal Party of Australia NP National Party IND.LABOR Independent Labor

The members of the Legislative Council at 16 October 1990 were as follows:

Bruce, Hon. G.L. (ALP) Burdett, Hon. J.C. (LP) Crothers, Hon. T. (ALP) Davis, Hon. L.H. (LP) Dunn, Hon. H.P.K. (LP) Elliott, Hon. M.J. (AD) Feleppa, Hon. M.S. (ALP) Gilfillan, Hon. I. (AD) Griffin, Hon. K.T. (LP) Irwin, Hon. J.C. (ALP) Laidlaw, Hon. D.V. (LP) Levy, Hon. J.A.W. (ALP) Lucas, Hon. R.I. (LP) Pfitzner, Hon. B. (LP) Pickles, Hon. C.A. (ALP) Ritson, Hon. R.J. (LP) Roberts, Hon. R.R. (ALP) Roberts, Hon. T.G. (ALP) Stefani, Hon. J.F. (LP) Sumner, Hon. C.J. (ALP) Weatherill, Hon. G. (ALP)

REFERENDUMS

Since the inception of responsible government in South Australia in 1856 nine referendums have been held – the first in 1896 and subsequent ones in 1898, 1899, 1911, 1915, 1965, 1970, 1982 and 1991 – and twelve proposals have been submitted.

Three proposals related to education (1896) of which only one was approved; three were constitutional (1898 and 1899) – all approved; one related to Parliamentary salaries (1911) – not approved; one related to bar-room closing hours (1915) – favoured 6 p.m. closing; one related to the establishment of a lottery (1965) – approved; one related to extended shopping hours in the metropolitan area (1970) – not approved; and one related to daylight saving (1982) – approved. The last referendum, held on 9 February 1991, asked House of Assembly electors 'Do you approve the

40 GOVERNMENT

Constitution (Electoral Redistribution) Amendment Bill 1991?'. Of the 882,650 who voted, 649,906 voted 'Yes' and 197,244 voted 'No'.

OVERSEAS REPRESENTATION

South Australia is represented in London by the Agent-General for South Australia, at South Australia House, 50 Strand, London. As official representative of the State, it is the function of the Agent-General to work in close cooperation with the High Commissioner for Australia; to keep the State Government informed of political and economic developments overseas; to promote industrial development and investment in South Australia; to encourage immigration to the State and to foster trade with the United Kingdom and other countries.

STATE EMBLEMS

The State Coat of Arms gazetted on 19 April 1984 replaced an earlier Coat of Arms conferred by King George V in 1936.

The State Flag, which is flown from Government buildings, comprises the Blue Ensign with the State Badge in the fly. The State Badge is a drawing of a Piping Shrike or White Backed Magpie (*Gymnorhina tibicen leuconota*) standing on a staff of a gum tree.

On 23 November 1964, the Government adopted Sturt's Desert Pea (*Clianthus formosus*) as the Floral Emblem of South Australia and Hairy-Nosed or Plains Wombat (*Lasiorhinus latifrons*) was adopted as the faunal emblem of the State on 27 August 1970.

Opal was adopted as the gemstone emblem on 15 August 1985.

The official colours of South Australia are Red, Blue and Gold.

3.4 PUBLIC CORPORATIONS

A public corporation is defined, for statistical purposes, as a body (other than a local government authority or body whose receipts and payments are included in the public accounts of the Commonwealth, a State, or a Territory) created by or under legislation to carry out an activity or activities on behalf of a government, or a body in which a government has a controlling interest.

Most public corporations have independent powers for the recruitment of staff. All possess greater administrative and financial autonomy than government departments but there is a wide variation in the degree of autonomy accorded, in various aspects, to different authorities.

Activities carried out by public corporations include tertiary education, hospital services, power supply, public transport, banking services, fire control, irrigation and drainage in rural areas, control and regulation of milk supply, slaughtering of animals for human consumption, housing development, off-course totalisators and lotteries, and investigation of problems relating to the development of mineral resources.

In appropriate parts of this Year Book reference is made to the activities of most of the public corporations which operate in South Australia.

3.5 LOCAL GOVERNMENT AUTHORITIES

Number, Size and Status

At 30 June 1990, there were 121 local government authorities in South Australia. Each local government area is controlled by a Council consisting of members elected by residents and property owners and exercising powers under the *Local Government Act 1934*.

While around 99 per cent of the State's population resides within the 121 incorporated areas, only 15 per cent of the State is covered by them – the remaining parts are served by the Outback Areas Community Development Trust.

Boundaries

Local government areas are defined by proclaimed boundaries. The *Local Government Act 1934* stipulates that a change to boundaries can be made in the form of a proposal initiated by the Minister of Local Government, a Council or 20 per cent of the electors in the area or portion of the area affected by the proposal. The proposal is reviewed by the Local Government Advisory Commission which undertakes enquiries and hearings into the subject and makes recommendations to the Minister. The major area of concern to local government bodies involves wards which are also defined by proclamation and all except 22 local government areas contain wards which are primarily electoral districts. The ward boundary is subject to a periodical review within a time constraint of seven years to ensure that electors are adequately and fairly represented.

Functions

The *Local Government Act 1934* prescribes most of the powers and authorities which each council exercises in the management of the affairs of its area, but some functions devolve from other Acts. To enable it to sue and be sued and to participate in transactions involving the purchase and sale of land and other property each council is constituted as a corporate body.

The functions performed by councils vary with the area concerned, but there are general functions which are common to them all *e.g.* road construction and maintenance, health services and Local Boards of Health, libraries, provision of street lighting, the maintenance of cemeteries, foreshores and jetties, the control of the location of industries, the prevention of fires within certain areas, and the policing of provisions relating to vermin and weeds.

Membership

The Local Government electorate is represented by a membership which comprises a mayor or chairman, aldermen and councillors. The mayor or chairman is the principal member of the Council. A mayor is elected by the area as a whole while the chairman is chosen from among the members of the council. The mayor of the City of Adelaide is entitled to be called Lord Mayor. Aldermen are the representatives of the area as a whole and there may not be more aldermen than half the number of councillors. Councillors are elected by the electors of the area as representatives of the area as a whole where there are no wards and in the case where wards exist, by the electors of those individual wards as ward representatives. No ward may have more than four councillors.

A person is eligible to nominate for local government office if he is an elector for the area, provided that he is not an undischarged bankrupt, liable to imprisonment, disqualified from holding public office, or an officer or employee of the council. Furthermore, members of other councils and persons who have nominated for offices in other councils are ineligible. A person elected to the office of mayor or alderman must have been a member of a council for at least twelve months.

A member of a council receives an annual allowance for expenses and reimbursement of other prescribed expenses. The allowances are fixed at the first meeting after an election and may not be less than \$300 per annum or more than \$1,680 per annum.

A person, of or above the age of majority, may vote if he is an elector in the area for the House of Assembly, he lives in the area and has lodged a declaration with the council, or he is a ratepayer by virtue of being the sole owner or occupier of rateable property. A body corporate may be enrolled as an elector if it is a ratepayer by virtue of being the sole owner or rateable property.

A council must hold at least one ordinary meeting in each month. The meeting in a municipality must not be held before 5 p.m. unless the council resolves unanimously to meet before that time.

Chapter 4

POPULATION

4.1 POPULATION ESTIMATES AND PROJECTIONS

Methods of estimating the population in a given area depend on the use to which such measures are to be put and the availability of information on which to base those estimates. Before 1971, the main measure of the population of South Australia was the census count. Since 1971, figures have been compiled on the basis of the estimated resident population of the State. The estimated resident population for Census dates is derived by adding estimates of Australians temporarily overseas and estimates of census under–enumeration to the count of persons at their usual place of residence.

Measures of the estimated mean (average) resident population for a period are generally used when calculating rates (*e.g.* crude birth rates) for a period. Projections of estimates of future populations are based on sets of assumptions about population trends, and are important in forecasting and planning.

The following table shows the number of persons in South Australia as counted by censuses to 1966 and the estimated resident population at census dates from 1971.

				Average annual increase	
Census date	Males	Females	Persons	Number	Per cent
1844 26 February	9,686	7,680	17,366		
1846 26 February	12,670	9,720	22,390	2,512	14.47
1851 1 January	35,302	28,398	63,700	8,262	36.90
1855 31 March	43,720	42,101	85,821	5,530	8.68
1861 8 April	65,048	61,782	126,830	6,835	7.96
1866 26 March	85,334	78,118	163,452	7,324	5.78
1871 2 April	95,236	90,189	185,425	4,395	2.69
1876 26 March	109,841	102,687	212,528	5,421	2.92
1881 3 April	145,113	130,231	275,344	12,563	5.91
1891 5 April	161,920	153,292	315,212	3,987	1.45
1901 31 March	180,485	177,861	358,346	4,313	1.37
1911 3 April	207,358	201,200	408,558	5,021	1.40
1921 4 April	248,267	246,893	495,160	8,660	2.12
1933 30 June	290,962	289,987	580,949	7,149	1.44
1947 30 June	320,031	326,042	646,073	4,652	0.80
1954 30 June	403,903	393,191	797,094	21,574	3.34
1961 30 June	490,225	479,115	969,340	24,607	3.09
1966 30 June	550,196	544,788	1,094,984	25,129	2.59
1971 30 June (b)	597,572	602,542	1,200,114		
1976 30 June	635,152	638,918	1,274,070	14,791	1.23
1981 30 June	653,940	664,829	1,318,769	8,940	0.70
1986 30 June	687,764	694,786	1,382,550	12,756	0.97

Population^(*a*), South Australia

(a) Excludes full-blood Aborigines before the 1966 Census. (b) Estimated resident population from 1971.

The count of persons in South Australia (excluding Aborigines) had reached 17,366 persons at the first census on 26 February 1844. In 1861, twenty–five years after the first settlers arrived, the count was 126,830 and this figure had more than doubled by the Census in 1881. By 1921 the census counted almost half a million persons and the population of South Australia was estimated to have

reached a million in January 1963. The population at 30 June 1986 was estimated to be 1,382,550 persons. Population projections indicate that South Australia's population will reach one and a half million in the mid–1990s.

Between population censuses the number of persons is estimated by adding to the Census estimated resident population the recorded natural increase, net overseas migration gain and interstate movement involving a change in usual residence. The estimated resident population for South Australia at 30 June 1990 was 716,600 males, 722,500 females and 1,439,200 persons.

Year ended 30 June	Males	Females	Persons	Natural increase	Total increase	Rate of growth
1985	681,200	690,000	1,371,200	9,697	11,709	0.82
1986	687,800	694,800	1,382,600	9,230	12,897	0.83
1987	693,700	700,400	1,394,200	9,035	11,604	0.84
1988	700,600	707,600	1,408,300	8,490	14,101	1.01
1989	709,100	715,500	1,424,600	8,663	16,392	1.16
1990 р	716,600	722,500	1,439,200	8,289	14,510	1.02

Increases in the Estimated Resident Population, South Australia

The estimated mean resident population for South Australia is calculated for the years ended 30 June and 31 December and these estimates are shown below.

	Y	ear ended 30	June	Year ended 31 December		
Year	Males	Females	Persons	Males	Females	Persons
1985	678,200	687,400	1,365,600	681,100	689,900	1,371,100
1986	684,400	692,400	1,376,800	687,800	695,000	1,382,700
1987	690,700	697,600	1,388,300	693,800	700,700	1,394,500
1988	697,200	704,200	1,401,400	700,900	707,900	1,408,800
1989	705,200	711,800	1,417,000	p709,100	p715,500	p1,424,700
1990	p712,900	p719,100	p1,432,000	n.y.a.	n.y.a.	n.y.a.

Estimated Mean Resident Population, South Australia

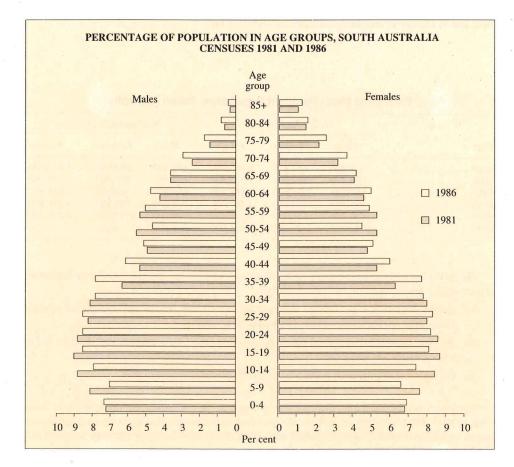
The following table of intercensal population growth rates shows the effects of some important aspects of the development of the State, namely:

- (a) the net migration, especially of males, away from South Australia following the mineral discoveries in other States in the 1880s and early 1890s;
- (b) the slow growth during the economic depression of the 1930s when natural increase fell to a particularly low level; and
- (c) the high rate of migration in the post 1939–45 War period up to 1960.

The State's rate of population increase was slower than the Australian rate in every period from 1881 to 1947. From 1947 the steep rise in the rate of net migration enabled an above–average growth rate to be achieved and this was maintained until 1966. Since 1966 however, the State's growth rate has been generally below the Australian rate.

	Per cent growth ra	te per annum
Period	South Australia	Australia
1861–71	3.72	3.70
1871–81	4.25	3.08
1881–91	1.25	3.51
1891–1901	1.02	1.80
1901–11	1.55	1.63
1911–21	1.81	2.03
1921–33	0.76	1.85
1933–47	0.76	0.85
1947–54	3.05	2.46
1954–61	2.83	2.26
1961–66	2.42	1.91
1966–71	1.35	1.86
1971–76	1.18	1.21
1976–81	0.64	1.47
1981–86	0.93	1.37

Intercensal Compound Annual Population Growth Rates South Australia and Australia, 1861–1986



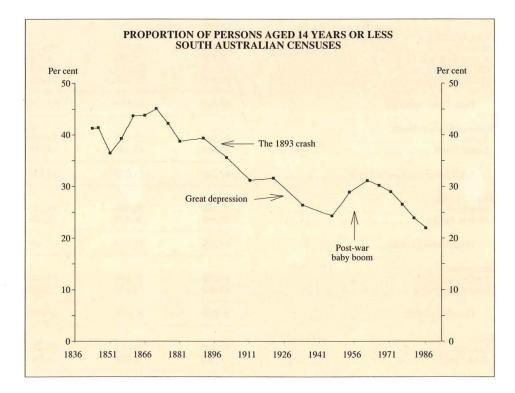
Age Distribution

Details of the age distribution of the population are of particular importance because they reveal changes which have occurred over time in the age structure and supply basic material for the calculation of fertility, mortality and annuity rates and the probabilities of survival.

Changes in the age distribution of the estimated resident population between the 1981 and 1986 Censuses are shown in the diagram on the previous page. Large absolute changes in population between the 1981 and 1986 Census estimated resident population occurred in the age groups 35–39, 40–44 and 60–64 which increased by 23,994, 13,821 and 9,264 respectively, as well as in the age group 5–9 which fell by 9,571.

The median age (*i.e.* the age at which exactly half the population are younger and half older) of the resident population of South Australia at the 1971 Census was 27.5 years, rising to 28.7 years at 30 June 1976. The figure for 30 June 1986 was 32.0 years (males 31.1 and females 32.9), the highest of any Australian State.

The next diagram shows the fluctuations over time in the population aged 14 years or less in South Australia.



South Australia has the highest proportion of its population aged 65 years and over (12.4 per cent) of any Australian State. Age and sex distributions for statistical local areas for 30 June 1989 are included in *Estimated Resident Population by Age and Sex in Statistical Local Areas* (3204.4).

Geographical Distribution

The Australian Standard Geographical Classification divides the State into seven statistical divisions. Each of these is further divided into statistical subdivisions which consist of a number of

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statistical local areas. In South Australia the statistical local areas are the same as local government areas with the exception of the local government area of Enfield which is divided into two statistical local areas. Estimated resident populations for these areas are prepared annually.

The estimated resident population of statistical divisions and subdivisions at 30 June 1981, 1986 and 1989 are shown in the following table.

		Persons at 30 June	
Statistical Division and Subdivision	1981	1986	1989
Adelaide:			
Northern	276,720	295,740	311,050
Western	212,220	214,100	215,520
Eastern	210,560	214,560	217,230
Southern	254,200	279,400	293,910
Total Adelaide	953,700	1,003,800	1,037,700
Outer Adelaide:			
Barossa	29,330	33,570	36,420
Kangaroo Island	3,720	4,200	4,300
Onkaparinga	19,230	22,810	24,800
Fleurieu	17,560	21,320	23,000
Total Outer Adelaide	69,840	81,890	88,520
Yorke and Lower North:			
Yorke	22,200	23,740	23,970
Lower North	19,000	19,320	19,370
Total Yorke and Lower North	41,200	43,070	43,330
Murray Lands:			
Riverland	32,780	34,090	35,480
Murray Mallee	30,480	31,430	32,000
Total Murray Lands	63,270	65,520	67,490
South East:			
Upper South East	19,570	19,670	19,470
Lower South East	42,060	43,220	43,600
Total South East	61,630	62,890	63,060
Eyre:			
Lincoln	27,410	28,050	27,490
West Coast	7,040	6,880	6,590
Total Eyre	34,450	34,940	34,080
Northern:			
Whyalla	32,650	28,820	27,290
Pirie	29,650	28,520	28,210
Flinders Ranges	24,200	24,400	24,140
Far North	8,180	8,700	10,820
Total Northern	94,690	90,440	90,460
Total State	1,318,770	1,382,550	1,424,650

Estimated Resident Population of Statistical Divisions and Subdivisions South Australia(a)

(a) Some boundaries have been adjusted because of local government area boundary changes. See Estimated Resident Population in Statistical Local Areas (3201.4).

The following table shows the estimated resident population in statistical local areas in the Adelaide Statistical Division for the last three years.

STATISTICAL DIVISION Subdivision		Persons at 30 June	
and statistical local area	1981	1986	1989
ADELAIDE	953,696	1,003,802	1,037,702
Northern	276,719	295,736	311,052
Elizabeth (C)	33,305	31,473	30,026
Enfield (C) Pt A	50,901	48,245	47,372
Gawler (M)	10,995	12.773	14,326
Munno Para (C)	24,211	28,359	30,701
Salisbury (C)	88,226	99.044	106,227
Tea Tree Gully (C)	69,081	75,842	82,400
Westem	212,219	214,104	215,516
Enfield (C) Pt B	17,115	16,711	16,745
Henley and Grange (C)	15,866	15,135	15,118
Hindmarsh (M)	7,808	8,160	8,515
Port Adelaide (C)	36,482	38,318	39,143
Thebarton (M)	9,500	8,789	8,577
West Torrens (C)	46,223	44,994	44,752
Woodville (C)	79,225	81,997	82,666
Unincorporated	Included with Port Adelaide (C)		
Eastern	210,555	214,558	217,226
Adelaide (C)	11,185	12,290	12,351
Burnside (C)	38,686	38,379	39,062
Campbelltown (C)	44,297	44,737	45,553
East Torrens (DC)	5,218	5,952	6,315
Kensington and Norwood (C)	8,985	9,262	9,378
Payneham (C)	17,024	16,427	16,240
Prospect (C)	19,159	18,982	19,169
St Peters (M)	8,710	8,508	8.576
Stirling (DC)	13.545	15,711	16,480
Unley (C)	36,725	37,251	37.049
Walkerville (M)	7,021	7,059	7,053
Southern	254,203	279,404	293,908
Brighton (C)	20,320	19.680	19,469
Glenelg (C)	13,549	13,453	13,563
Happy Valley (C)	20,489	29,359	33,813
Marion (C)	68,748	72,138	74,700
Mitcham (C)	61.687	62,949	63,359
Noarlunga (C)	62,504	71.625	77.423
Willunga (DC)	6,906	10,200	11,581
	0,900	10,200	11,301

Estimated Resident Population in Statistical Local Areas Adelaide Statistical Division(a)

(a) Estimates are for boundaries existing at 30 June 1989.

(C) Municipality with city status (DC) District Council

(M) Municipality

Urban Centres and Rural Localities

Census counts are available for urban centres and rural localities. These consist of one or more adjoining Census collection districts with urban characteristics (based on Linge criteria).

Urban centres are defined as population clusters of 1,000 or more people (including known holiday resorts of smaller size) and rural localities are defined as population clusters of between 200 and 999 people.

		Urban					Total
Census	Adelaide (b)		Other (c)		Rural		
	Number	Per cent	Number	Per cent	Number	Per cent	(including migratory)
1961	587,957	60.66	177,380	18.30	200,065	20.64	969,340
1966	728,279	66.51	174,964	15.98	190,167	17.37	1,094,984
1971	809,482	68.97	183,187	15.61	179,148	15.26	1,173,707
1976	857,196	68.85	198,777	15.97	187,546	15.07	1,244,756
1981	882,520	68.68	207,934	16.18	193,628	15.07	1,285,033
1986	917,000	68.13	221,036	16.42	205,625	15.28	1,345,945

Persons in Urban and Rural Areas, South Australia^(a)

(a)

Excludes full-blood Aborigines before the 1966 Census. Urban Adelaide is a subset of the Adelaide Statistical Division (see the definition of an urban centre). (b)

*Other Urban' in the 1961 Census comprised all municipalities and non-municipal towns of 1,000 or more persons. From 1966 the figures comprise clusters of 1,000 or more persons and a small number of holiday resorts which are regarded (c)as urban on a dwelling density basis.

Population in Other Urban Centres

Only a relatively small proportion (16 per cent) of South Australia's population is located in urban centres outside of the capital city compared with the three eastern States, New South Wales, Victoria and Queensland. Whereas, in each of these States, there are at least six centres outside the capital city with a population in excess of 20,000, the only such centres in South Australia are Whyalla and Mount Gambier.

Urban centre	1981	1986	Urban centre	1981	1986
Adelaide	882,520	917,000	Mannum	1,984	2,056
Aldinga Beach	2,021	3,041	McLaren Vale	735	1,196
Angaston	1,753	1,823	Millicent	5,255	5,075
Balaklava	1,306	1,365	Moonta	1,924	2,199
Barmera	2,014	1,912	Mount Barker	4,190	5,370
Berri	3,419	3,502	Mount Gambier	19,880	20,813
Bordertown	2,138	2,318	Murray Bridge	8,664	11,893
Вигта	1,222	1,187	Naracoorte	4,758	4,636
Ceduna	2,794	2,877	Nuriootpa	2,851	3,209
Clare	2,381	2,591	Penola	1,205	1,222
Coober Pedy	2,078	2,103	Peterborough	2,575	2,239
Crafers-Bridgewater	9,764 ·	11,222	Port Augusta	15,254	15,291
Crystal Brook	1,240	1,294	Port Elliot	773	1,050
Gawler	9,433	11,354	Port Lincoln	10,675	11,552
Goolwa	1,624	2,359	Port Pirie	14,695	13,960
Hahndorf	1,274	1,688	Quorn	1,049	1,079
Jamestown	1,384	1,372	Renmark	3,475	3,489
Kadina	2,943	3,263	Strathalbyn	1,756	1,924
Kapunda	1,340	1,622	Tailem Bend	1,677	1,542
Keith	1,147	1,189	Tanunda	2,621	2,856
Kingscote	1,236	1,403	Victor Harbor	4,555	5,318
Kingston (SE)	1,325	1,367	Waikerie	1,629	1,593
Leigh Creek	1,635	1,967	Wallaroo	2,043	2,224
Lobethal	1,522	1,580	Whyalla	29,962	26,900
Loxton	3,100	3,372	Woomera	1,658	1,805
Maitland	1,085	1,103			·

Persons in Urban Centres, South Australia^(a)

(a) See text for definition of 'urban'. The figures are census counts.

Between 1981 and 1986 most urban centres beyond the Adelaide Statistical Division experienced population growth. This was most evident in towns within 100 kilometres of Adelaide. In the 'Iron Triangle' Port Augusta continued to expand whereas Port Pirie and Whyalla declined.

PROJECTIONS OF THE POPULATION

Population projections have been prepared using the cohort–component method, *i.e.* a base population in single years of age is brought forward year by year by applying assumptions about future levels of fertility, mortality and migration.

The assumptions used are summarised for South Australia as follows.

Series A:

Fertility – Total fertility rates are assumed to decrease from 1,674 in 1991 to 1,633 by 1998 and remain at this level until 2031.

Mortality – Mortality rates are assumed to decline for the period of the projections. The projected life expectancies at birth in 1996 and 2021 respectively are 75.8 and 78.3 years for males, and 81.5 and 83.6 years for females. In 1988, the expectation of life at birth was 73.6 years for males and 80.3 years for females.

Overseas Migration – For Australia, net migration will remain constant at 125,000 for the projection period. The SA share fluctuates around 7,000 per annum.

Interstate Migration – Net inflow of 1,000 for 1990–91 decreasing by 500 per year until 1993–94. After that it remains constant at a net outflow of 500 for each year of the projection period.

Series B:

Fertility – As for Series A.

Mortality - As for Series A.

Overseas Migration - As for Series A.

Interstate Migration – Net outflow of 2,000 annually. Net inflow of 500 for 1990–91, nil for 1991–92 and net outflow of 500 for 1992–93 increasing to 1,500 by 1997–98. After 1997–98 net outflow remains constant at 1,500 for each year of the projection period.

Series C:

Fertility – Total fertility rates are assumed to decrease from 1,640 in 1991 to 1,524 by 1998 and remain at this level to the end of the projection period.

Mortality - As for Series A.

Overseas Migration – As for Series A.

Interstate Migration – As for Series A.

Series D:

Fertility – As for Series C.

Mortality – As for Series A.

Overseas Migration – For Australia, net migration will remain constant at 125,000 until 1993–94, then decline linearly to 80,000 for 1998–99 and remain at this level to the end of the projection period. The SA share fluctuates around 7,000 per annum until 1994, falls to 4,500 per annum by 1999 and then remains constant.

Interstate Migration - As for Series B.

These assumptions lead to a range of projections for the State, e.g. under Series A the population is projected to reach 1,817,200 by 2031, under Series D 1,624,900.

At 30 June	Series A	Series B	Series C	Series D
1991	1,454.6	1,454.1	1,454.4	1,453.9
1996	1.522.3	1,519.6	1,518.5	1.514.5
2001	1.581.9	1,574.3	1,572.0	1,553.2
2006	1.633.5	1.620.0	1,617.6	1,580.8
2011	1.678.8	1,658,9	1,656.8	1,601.1
2016	1.720.4	1.693.9	1.692.1	1.616.6
2021	1.758.8	1.725.3	1.723.1	1.627.3
2026	1.791.9	1.751.1	1.747.5	1.630.8
2031	1.817.2	1.768.9	1.763.2	1.624.9

Projected Population (Including Migration), South Australia^(a) ('000)

(a) Based on final estimated resident population at 30 June 1989.

The following table indicates that for all series the proportion of the population aged under 15 is projected to decrease significantly while the proportion 65 and over increases.

Projected Age Group Proportions (Including Migration), South Australia (Per cent)

Age group (years)	At 30 June	Series A	Series B	Series C	Series D
0–14	1991	20.49	20.49	20.48	20.48
	2011	17.18	17.07	16.31	16.05
	2031	15.55	15.39	14.56	14.16
15-64	1991	66.67	66.67	66.68	66.68
	2011	68.18	68.13	68,86	68.74
	2031	62.26	61.94	62.57	61.65
65 and over	1991	12.84	12.84	12.84	12.84
	2011	14.64	14.80	14.83	15.21
	2031	22.19	22.67	22.87	24.19

Further References

Additional information may be found in the following ABS publications:

2466.0	Persons and Dwellings in Local Government Areas, Statistical Local Areas and Url	ban
	Centres, South Australia	

- 2474.0 Profile of Legal Local Government Areas, South Australia
- 3101.0 Australian Demographic Statistics
- 3201.4 Estimated Resident Population in Statistical Local Areas, South Australia
- 3204.4 Estimated Resident Population by Age and Sex in Statistical Local Areas, South Australia
- 3222.0 Projections of the Population of Australian States and Territories 1989–2031
- 4102.4 Accommodation for the Aged, South Australia, 1985

4.2 THE CENSUS

Early 'musters'

Population returns in one form or another have existed from a very early period in the history of Australia. The earliest enumerations were known as 'musters', and although the actual results of very few of them have been preserved, it is probable that during the early days of colonisation they were of frequent occurrence. The first official 'muster' was taken in 1788 soon after the settlement of Sydney Cove.

Development of the Census

The first regular census in Australia was taken in New South Wales in November 1828, and included the population of Moreton Bay (in what is now Queensland) and details of the names, ages and civil conditions of the inhabitants were sought. The first recognised census in South Australia was taken in 1844. The 1881 Census was the first simultaneous census taken in Australia and formed part of the first simultaneous census of the British Empire.

Under the Commonwealth of Australia Constitution Act of 1900, 'Census and Statistics' became Commonwealth Government functions and with the passing of the empowering legislation, the *Census and Statistics Act 1905* (Cwlth), all censuses of Australia have been taken under the authority of this Act. The first Australian census collected under the Act was that of 1911; subsequent censuses were taken in 1921, 1933, 1947, 1954, 1961, 1966, 1971, 1976, 1981 and 1986.

Scope of the Census

The census is intended to count all people and dwellings in Australia. In 1986, for the first time, the census was extended to include people in Australia's external territories: Cocos (Keeling), Christmas and Norfolk Islands.

Diplomatic representatives of other governments and their staff and families having diplomatic immunity in accordance with international practice are excluded from censuses. Up to and including the 1966 Census, full-blood Aborigines were also excluded under the provisions of Section 127 of the Constitution, but following the results of a referendum held in 1967 this was repealed and full-blood Aborigines have been included in Censuses since 1971.

The census is taken using a household form delivered to every private dwelling seeking information about all inhabitants and the dwelling. The census count includes babies born at or before midnight on Census day and excludes persons dying before midnight on Census day. Private dwellings include houses, flats, maisonettes, and townhouses. Census forms are also delivered to ships in port or which will be travelling between Australian ports on Census day; and to non-private dwellings such as boarding schools, gaols, hotels and motels, hospitals and nursing homes.

Census collectors are responsible for recording, from personal observations or inquiry, particulars of dwellings which are unoccupied on Census day, including those temporarily unoccupied or those used for 'holiday purposes'. Dwellings excluded from census results are those occupied by accredited persons having diplomatic immunity. Dwellings occupied solely by full-blood Aborigines also were excluded at censuses before 1971.

The 1991 Census

The twelfth Census of Population and Housing will be conducted in 1991 with Census night on Tuesday 6 August.

In 1987 approval was given by the Commonwealth Government to proceed with planning for a Census that would cost considerably less than the 1986 Census. It was considered that the only way the required reduction in costs could be achieved was by reducing the content of the Census or by using sampling for some topics, as there is little scope to significantly reduce distribution and collection costs. Subsequently the ABS released a publication *Preliminary ABS Views on Contents and Procedures* (2171.0) and called for public submissions on these views. The analysis of written submissions and discussions with various user groups indicated that there was strong support for a 1991 Census with similar contents and procedures to the 1986 Census. In 1989 the Government approved a 1991 Census similar to that of 1986 with the major differences being the exclusion of questions on year of first marriage (duration of marriage), whether married more than once, issue (number of children ever born), ancestry (ethnic origin) and reason dwelling unoccupied.

There are forty-three questions on the 1991 Census Household Form, thirty-nine relate to personal characteristics and four to household or dwelling characteristics. Up to forty-six responses may be required from each person. The Census Form has been designed for the responses to be marked so that they can be read by optical mark recognition (OMR) technology. The questions

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requiring written responses e.g. occupation, will be coded using a computer assisted coding system developed for census processing. This is expected to reduce the cost and time of processing and enable preliminary results to be available in the first half of 1992.

4.3 CHARACTERISTICS OF THE POPULATION

The following section provides summary information on characteristics of the population obtained from the most recent censuses. Full listings of tables produced from each census are contained in the relevant Catalogue of Census Tables. The data in this section are Census counts at place of enumeration *i.e.* where people were on Census night.

Marital Status

The marital status of the population was ascertained at the censuses, with each person enumerated being classified as either never married, married, separated but not divorced, widowed, or divorced.

In 1986 the number of persons who stated to have never married represented 43.0 per cent of all persons, a lower proportion than in 1981. Married persons in 1986 represented 46.0 per cent of the total compared with 46.8 per cent in 1981.

At the 1986 Census, 82.8 per cent of widowed persons were females.

		Census.	30 June 198	1	Census 30 June 1986				
	Males		Females		Males		Females		
Marital status	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	
Never married:									
Under 15 years of age	157,161	24.7	149,416	23.0	151,575	22.8	144,511	21.3	
15 years of age and over	139,271	21.9	109,241	16.8	158,634	23.8	124,023	18.2	
Total never married	296,432	46.6	258,657	39.8	310,209	46.6	268,534	39.5	
Married Married but permanently	300,669	47.3	300,654	46.3	309,308	46.5	309,909	45.6	
separated	11.171	1.8	13,244	2.0	12,174	1.8	14,286	2.1	
Widowed	11,705	1.8	55,879	8.6	12,155	1.8	58,564	8.6	
Divorced	15,719	2.5	20,903	3.2	22,114	3.3	28,692	4.2	
Total	635,696	100.0	649,337	100.0	665,960	100.0	679,985	100.0	

Marital Status of Persons, South Australia

The Aboriginal Population

Statistics of the total Aboriginal population should be treated with caution as comparisons between numbers obtained from one census to another can be affected by changes in social attitudes, changes made to the wording of the question relating to Aboriginality in an attempt to improve coverage and reporting, and changes to the collection and processing procedures.

There were 14,291 Aborigines counted in South Australia at the 1986 Census, an increase of 4,446 (45.3 per cent) since 1981. Aborigines comprise a little over one per cent of the State's total population.

The following table shows the major locations of Aborigines within South Australia at the 1981 and 1986 Censuses.

	Census	count		Census coun	
Locality	1981	1986	Locality	1981	1986
Adelaide	3,217	5,692	Pipalyatjara	64	102
Amata	180	277	Point McLeay	98	114
Aparawatatja (Fregon)	203	268	Point Pearce	214	182
Berri	45	93	Port Augusta	1,120	1,415
Ceduna	312	402	Port Lincoln	348	394
Coober Pedy	70	244	Port Pirie	78	124
Gerard	125	136	Pukatja (Ernabella)	322	365
Indulkana	301	238	Quorn	69	82
Koonibba	119	96	Umoona	110	86
Mimili (Everard Park)	132	145	Whyalla	320	515
Mount Gambier	60	131	Yalata	281	221
Murray Bridge	178	298	Remainder of State	1,667	2,367
Nepabunna	92	91			
Oak Valley	(a)	118			
Oodnadatta	100	94	Total	9,825	14,291

Location of Aborigines and Torres Strait Islanders, South Australia

(a) Included with Remainder of State.

The age distribution of the Aboriginal population differs quite markedly from that of the total South Australian population. Over sixty per cent of Aborigines were aged less than 25 years, whereas less than forty per cent of the total population were under 25. Only 2.8 per cent of Aborigines were aged 65 years and over, while 11.6 per cent of the total population were in this age group.

Further information about Aborigines is contained in *Census 86 – Aboriginals in South Australia* (2201.4).

Country of Birth

Of the persons in South Australia at the 1911 Census, 85.7 per cent were Australian born, increasing to 93.3 per cent in 1947. Overseas migration had lowered the proportion of Australian born persons to 86.1 per cent by 1954, and in 1986 the proportion was 76.5 per cent. The proportion of persons in South Australia born in the United Kingdom (including the Republic of Ireland) fell from 11.0 per cent in 1911 to 5.1 per cent in 1947, rose to 12.7 per cent in 1976 and was 10.9 per cent in 1986. The proportion of persons born in Asia has increased from 0.7 per cent in 1981 to 2.0 per cent in 1986.

Country of Birth of Persons, South Australia

	Census 30 June 1981	į	Increase		
Country of birth	Persons	Males	Females	Persons	Persons
Australia	979,675	505,422	524,048	1,029,470	49,795
New Zealand	6,618	4,196	4,091	8,287	1,669
Europe:					
United Kingdom and Republic					
of Ireland	152,087	72,312	74,092	146,404	-5,683
Germany	14,755	7,093	7,571	14,664	91
Greece	14,206	6,985	6,471	13,456	-750
Italy	31,323	15,842	13,765	29,607	-1,716
Netherlands	10,646	5,263	4,935	10,198	-448
Poland	6,786	4,341	3,595	7,936	1,150
Yugoslavia	9,066	4,928	3,846	8,774	-292
Other	20,831	11,160	9,664	20,824	7
Total Europe	259,700	127,924	123,939	251,863	-7,837

Census 30 June 1981		Census 30 June 1986			
Persons	Males	Males Females		Persons	
2,485	1,309	1,333	2,642	157	
1,959	1,486	1,569	3,055	1,096	
3,845	3,967	3,019	6,986	3,141	
9,743	6,937	7,793	14,730	4,987	
18,032	13,699	13,714	27,413	9,381	
10,152	6,166	6,015	12,181	2,029	
294,502	151,985	147,759	299,744	5,242	
1,285,033	665,960	679,986	1,345,945	60,912	
	30 June 1981 Persons 2,485 1,959 3,845 9,743 18,032 10,152 294,502	30 June 1981 30 June 1981 Persons Males 2,485 1,309 1,959 1,486 3,845 3,967 9,743 6,937 18,032 13,699 10,152 6,166 294,502 151,985	30 June 1981 30 June 1980 Persons Males Females 2,485 1,309 1,333 1,959 1,486 1,569 3,845 3,967 3,019 9,743 6,937 7,793 18,032 13,699 13,714 10,152 6,166 6,015 294,502 151,985 147,759	30 June 1981 30 June 1986 Persons Males Females Persons 2,485 1,309 1,333 2,642 1,959 1,486 1,569 3,055 3,845 3,967 3,019 6,986 9,743 6,937 7,793 14,730 18,032 13,699 13,714 27,413 10,152 6,166 6,015 12,181 294,502 151,985 147,759 299,744	

Country of Birth of Persons, South Australia (continued)

Religion

Answers to the only non-compulsory Census question, that about religion, have revealed some marked changes over the past three Censuses. The proportion indicating no religion has risen from 11.3 per cent in 1976 to 13.9 per cent in 1981 and 16.9 per cent in 1986. Over the same period those not stating any religion grew from 9.6 per cent to 10.6 per cent and 12.1 per cent.

This has been consistent with the decline in the number of persons reporting adherence to Christian denominations from 78.3 per cent in 1976 to 69.6 per cent in 1986.

The number of adherents of non-Christian religions, while still not great, grew from 4,894 (0.4 per cent) to 13,843 (1.0 per cent) between 1976 and 1986.

	Census	1976	Census	1981	Census.	1986
Religious denomination	Persons	Per cent	Persons	Per cent	Persons	Per cen
Christian:					······	
Anglican	275,337	22.1	260,919	20.3	242,722	18.0
Baptist	22,004	1.8	22,287	1.7	21,415	1.6
Brethren	1,147	0.1	1,099	0.1	1,398	0.1
Catholic (a)	247,571	19.9	255,332	19.9	267,137	19.8
Church of Christ	20,260	1.6	18,657	1.5	16,629	1.2
Congregational	11,503	0.9	2.834	0.2	1,524	0.1
Jehovah's Witnesses	4,824	0.4	5.461	0.4	6,539	0.5
Latter Day Saints/Mormons	(b)	<i>(b)</i>	3,617	0.3	3,515	0.3
Lutheran	62,344	5.0	63,860	5.0	64,851	4.8
Methodist – including Wesleyan	195,890	15.7	85,935	6.7	(c)	(c,
Orthodox	34,829	2.8	36,423	2.8	37,149	2.8
Pentecostal	6,103	0.5	11,232	0.9	14,997	1.1
Presbyterian	34,778	2.8	21,725	1.7	18,566	1.4
Salvation Army	7,991	0.6	8,079	0.6	8,268	0.6
Seventh Day Adventist	2,914	0.2	3,139	0.2	2,944	0.2
Uniting Church	(d)	(d)	108,857	8.5	(e)176,980	13.1
Protestant	21,536	1.7	22,063	1.7	18,906	1.4
Christian n.e.i.	25,346	2.0	25,751	2.0	33,328	2.5
Total	974,378	78.3	957,270	74.5	936,868	69.6
Buddhist	(f)	(f)	2,229	0.2	5,847	0.4
Hindu	ť)	(f)	(f)	(f)	1,171	0.1
Jewish	1,072	0.1	1,114	0.1	1,144	0.1
Muslim	1,031	0.1	1,456	0.1	2,486	0.2
Non-Christian n.e.i.	2,746	0.2	2,329	0.2	3,195	0.2
Total	4,849	0.4	7,128	0.6	13,843	1.0

Religion, South Australia

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	Census 1976		Census	1981	Census 1986	
Religious denomination	Persons	Per cent	Persons	Per cent	Persons	Per cent
Non-theistic	n.a.	n.a.	n.a.	n.a.	289	
Inadequately described	5,528	0.4	6,529	0.5	5,458	0.4
No religion (so described)	140,070	11.3	178,136	13.9	227,275	16.9
Not stated	119,930	9.6	135,970	10.6	162,212	12.1
Total	1,244,754	100.0	1,285,033	100.0	1,345,945	100.0

Religion, South Australia (continued)

(a) Includes 'Roman Catholic' and 'Catholic'. (b) Included with Christian n.e.i. (c) Included with Uniting Church. (d) Formed in 1977. (e) Includes Methodist. (f) Included in Non-Christian n.e.i.

Educational Qualifications

The table below shows data for the highest level of educational qualifications obtained as reported in the 1981 and 1986 Censuses.

Educational Qualification : Highest Level Obtained, Persons 15 Years of Age and Over, South Australia

		Cen	sus 1981		Census 1986			
Level of qualification	Males	Females	Persons	Per cent	Males	Females	Persons	Per cent
Higher degree	3,207	819	4,026	0.4	3,712	1.071	4,783	0.5
Graduate diploma	3,984	2,880	6,864	0.7	3,911	3,239	7,150	0.7
Bachelor degree	16,879	8,315	25,194	2.6	22,326	13,333	35,659	3.4
Diploma	15,208	20,228	35,436	3.6	16,008	20,005	36,013	3.4
Trade certificate	82,973	9,863	92,836	9.5	92,211	11,761	103,972	9.9
Other certificate	25,881	32,726	58,607	6.0	28,710	42,810	71,520	6.8
Other	919	1,359	2,278	0.2	20,863	18,257	39,120	3.7
No qualification	299,636	388,095	687,731	70.3	285,964	375,019	660,983	63.0
Not stated	29,848	35,636	65,484	6.7	40,680	49,979	90,659	8.6
Total	478,535	499,921	978,456	100.0	514,385	535,474	1,049,859	100.0

The data highlight significant differences in the distribution of highest level qualification obtained by males and females. Males have obtained more Bachelor and Higher degrees and Trade certificates, with females having gained a larger number of Diploma and Other certificates. The rate of growth in obtaining qualifications was higher for females than for males for all levels of qualification obtained except for Diploma.

The major increases in qualifications obtained over the five year period occurred for Bachelor degrees 10,465 (up 41.5 per cent), Other certificates 12,913 (up 22.1 per cent) and Trade certificates 11,136 (up 12.0 per cent).

Family Structures

The 1986 Census included questions to identify family composition. For Census purposes a family is defined on the basis of blood, marriage or *de facto* relationships. A household may contain more than one family and the family from which the most detailed information is available is classified as the primary family with all other families treated as secondary.

At the 1986 Census, 1,345,945 persons were counted in South Australia and of these 1,156,095 (almost 86 per cent) were in families. A further 14,974 adult boarders and other persons, who were not family members, were in households with families. The remainder of the population constituted 40,291 persons in group households, 93,486 in lone person households and 41,099 in non-private dwellings.

There were 370,807 families counted in South Australia at the 1986 Census. Of these 155,496 (41.9 per cent) were couples with dependent children; 42,704 (11.5 per cent) were couples with adult family members and no dependent children; 122,743 (33.1 per cent), were couples; 28,231 (7.6 per cent) were single parents with dependent children; and 21,633 (5.8 per cent) consisted of other related adults. The following table shows details of single parent and couple families with dependent children.

		Number oj				
Family type	1	2	3	4	5 and more	Total
Single parent	15,279 53,858	9,430 67,996	2,702 25,950	648 6,157	172 1,535	28,231 155,496
Total families with dependent children	69,137	77,426	28,652	6,805	1,707	183,727

Family Types by Number of Dependent Children, South Australia, Census 1986

These data show that of the 183,727 families with dependent children, 15.4 per cent were single parent families and 84.6 per cent were couples.

More than one-half of single parent families with dependent children contained one dependent child, while less than 3 per cent contained four or more dependent children. Of the couples with dependent children 121,854 (78.4 per cent) contained one or two children while only 7,692 (4.9 per cent) contained four or more children.

In the Census, 320,943 couples were counted and of these 17,533 (5.5 per cent) were living in a *de facto* relationship. The following table shows the family composition of couples by type of union.

Couples by Type of Union, South Australia, Census 1986

Family composition	Married	De facto	Total
Couple only	112,385	10,358	122,743
Couple with dependent children	120,263	5,389	125,652
Couple with adult family members Couple with dependent children	41,714	990	42,704
and adult family members	29,048	796	29,844
Total couples	303,410	17,533	320,943

Of the 155,496 couples with dependent children 6,185 (4.0 per cent) were living in a *de facto* relationship, compared to 11,348 (6.9 per cent) of the remaining 165,447 couples.

About 99 per cent (1,141,934 persons) of people counted in families were in one-family households. This and the size of families are shown in the following table.

Number of Persons by Number in Family, South Australia, Census 1986

Size of family (persons)	In primary families	In secondary families	Total
2	290,399	8,949	299,348
3	230,911	3,009	233,920
4	347,414	1,537	348,951
5	187,957	438	188,395
6	61,388	144	61,532
7 and over	23,865	84	23,949
Total	1,141,934	14,161	1,156,095

Over three-quarters (76.3 per cent) of persons in families were members of families of four persons or less and 7.4 per cent of persons were in families of 6 persons or more.

4.4 MIGRATION

Under the Constitution, the Commonwealth makes laws governing migration. Persons wishing to enter Australia as permanent settlers must either:

- (a) have a spouse or fiancé, or parents, children, brothers or sisters, aunts or uncles legally resident in Australia who can sponsor them;
- (b) be refugees or in other special humanitarian need; or
- (c) have skills or personal qualities which will benefit Australia.

New Zealanders may enter Australia without prior authority if they hold a valid passport.

Overseas Arrivals and Departures

The following table gives details for 1989 of overseas arrivals who gave South Australia as their State of intended residence and people leaving for overseas who gave South Australia as their State of residence. Long-term refers to an intended stay of more than twelve months, and short-term as less than twelve months.

Category of traveller	Males	Females	Total
ARRIV	ALS		
Permanent settlers	3,100	3,163	6,263
Australian residents	1,479 1,154	1,608 941	3,087 2,095
Total permanent and long-term	5,733	5,712	11,445
Short–term: Australian residents Overseas visitors	50,886 27,434	44,428 25,782	95,314 53,216
Total arrivals	84,053	75,922	159,975
DEPART	URES		~
Permanent	644	715	1,359
Australian residents Overseas visitors	1,657 795	1,672 674	3,329 1,469
Total permanent and long-term	3,096	3,061	6,157
Short-term: Australian residents Overseas visitors	50,505 27,000	46,744 26,357	97,249 53,357
Total departures	80,601	76,162	156,763

Overseas Arrivals and Departures : Category of Traveller State of Residence, South Australia, 1989

Visitors

People are allowed to visit Australia for short periods for tourism, business, to see relatives or friends, or for pre–arranged medical treatment. Visitors are not to undertake a job or formal study while in Australia, and must leave at the end of their authorised period of stay.

Overseas Students

As part of its aid program, Australia accepts foreign students and trainees to enable them to acquire skills and qualifications of benefit both to themselves and their countries. Some are sponsored by their governments while the rest are private students.

Temporary Residents

Permanent residents are given first priority for employment, but temporary residence may be granted to people from overseas, who possess expertise not available here, so that they can engage in pre–arranged specialised activities. Persons seeking temporary residence for longer than twelve months are required to meet the health and character requirements which apply to permanent settlers.

Citizenship

The status of 'Australian Citizen' was created under the *Nationality and Citizenship Act 1948* (Cwlth), which came into force on 26 January 1949. The relevant Act is now the *Australian Citizenship Act 1948* (Cwlth) and under its provision all migrants, regardless of origin, are required to satisfy uniform requirements for the granting of citizenship. Citizenship is normally conferred at ceremonies conducted by local government authorities throughout the State.

Further References

Additional information may be found in the following ABS publications:

3101.0 Australian Demographic Statistics (Quarterly)

3401.0 Overseas Arrivals and Departures, Australia (Monthly)

3402.0 Overseas Arrivals and Departures, Australia (Quarterly)

3404.0 Overseas Arrivals and Departures, Australia (Annual)

4.5 BIRTHS AND DEATHS

Current legislation on compulsory registration of births and deaths is contained in the *Births*, *Deaths and Marriages Registration Act 1966* which came into operation on 1 January 1968. The administration of the Act is the responsibility of the Principal Registrar of Births, Deaths and Marriages.

The Principal Registrar maintains a register of all live births and of all deaths registered in the State. The current legislation does not require still births to be registered, but it provides for a 'Medical Certificate of Cause of Perinatal Death' to be filled in and forwarded to the Principal Registrar by the attending medical practitioner in respect of a 'child not born alive of at least twenty weeks gestation or four hundred grams weight'. The 'perinatal' certificates are also required from attending medical practitioners for children dying within twenty–eight days of birth.

The birth of each live–born child is required to be registered by a parent within sixty days of the date of birth. Registration of a live birth after the expiration of sixty days following the date of birth requires the payment of a fee and a declaration in a form prescribed by the Act.

A death must be registered within fourteen days of the date of death by the occupier of the building or place in which the death occurred. Special provisions and penalties exist for the late registration of a death. A body may not be buried unless the undertaker is in possession of a 'Notice of signing of Medical Certificate of Cause of Death' signed by a medical practitioner or of an order by a coroner for burial, and the undertaker is required within seven days of the disposal of the body to notify the Principal Registrar of such disposal.

In accordance with international practice, statistics for a period are on the basis of the births and deaths which were registered during that period. However, numbers registered in a period usually differ from the number of occurrences in the same period and, mainly because of the longer period allowed for registration, such variations generally are more apparent in birth than in death figures.

In this section, unless otherwise stated, details of births are on the basis of State of usual residence of the mother and details of deaths are on the basis of State of usual residence of the deceased, regardless of where in Australia the event occurred.

In the following tables births to mothers usually resident in South Australia which took place overseas are excluded, while births to mothers usually resident overseas that occurred in South Australia are included. Similarly, deaths of South Australian residents which occurred overseas are excluded, and deaths of persons usually resident overseas that occurred in South Australia are included.

BIRTHS

The South Australian crude birth rate (number of births per thousand of mean estimated resident population) during 1989 was 13.8 compared with the Australian rate of 14.9.

Year			Liv	e births regis	tered	
	Total live births occurred (a)	Total	Rate (b)	Males	Females	Sex ratio(c)
1985	19,650	19.790	14.5	10,147	9,643	105.2
1986	19,594	19,741	14.4	9,930	9,811	101.2
1987	19,077	19.235	13.8	9,896	9,339	106.0
1988	19,150	19,155	13.6	9,917	9,238	107.4
1989	18,265	19.610	13.8	10,152	9,458	107.3

Live Births, South Australia

(a) Figures are subject to the addition of late registrations, particularly 1989.
 (b) Number per 1,000 of mean estimated resident population.
 (c) Number of male births per 100 female births.

Age-specific Birth Rates

Age-specific birth rates are the live births registered during the year according to age of mother per 1,000 of the female resident population. From the following table it can be seen that there has been a decline in age-specific birth rates for women aged under 30 years. Age-specific birth rates for women aged 30 years and over decreased from 1961 until the late 1970s but have since increased slightly. These figures reflect the tendency to smaller families and the later median age of first nuptial confinements.

Age-specific Birth Rates and Total Fertility, South Australia

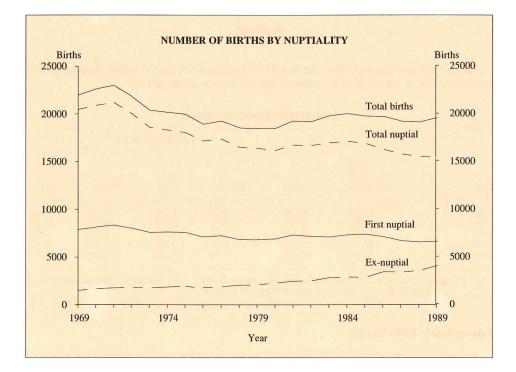
	Age group (years)								
Year	15-19	20-24	25–29	30–34	35–39	40-44	45-49	Total fertility (a)	
1966 (b)	44.4	178.7	181.6	99.3	49.3	14.6	0.8	2,844	
1971 (b)	<u>46.7</u>	<u>179.0</u>	<u>186.7</u>	<u>82.7</u>	37.1	<u>8.7</u>	<u>0.6</u>	2,707	
1976 (b)	29.6	126.5	137.4	59.2	17.3	4.2	0.3	1,886	
1981 (b)	26.3	104.2	139.6	65.0	18.8	3.1	0.2	1,785	
1986 (b)	21.3	90.1	136.5	79.6	21.5	3.4	0.2	1,763	
1987	19.9	81.9	134.0	80.4	22.8	3.7	0.1	1,714	
1988	20.1	76.8	130.1	83.1	25.3	3.1	0.2	1,693	
1989	21.2	76.2	129.5	86.1	27.4	3.7	0.1	1,719	

(a) The number of children 1,000 women would bear during their lifetimes if they experience the rates of the year shown.
 (b) Census year.

60 POPULATION

Confinements and Nuptiality

Confinements are the number of pregnancies resulting in at least one live birth. Multiple confinements are those resulting in two or more births, at least one of which is live born.



Live births are identified as nuptial where the father registered was married to the mother at the time of birth, or where the husband died during pregnancy. Confinements and children of Aboriginal mothers considered to be tribally married are classified as nuptial.

Other confinements, and the children resulting from them, are classified as ex-nuptial whether or not the parents were living together at the time of birth and whether or not the child may subsequently have been legitimised or adopted.

Since 1960 there has been a marked increase in the number and rate of ex–nuptial births. For the previous forty years, the rate remained relatively steady at about three per hundred live births, but in recent years the rate has increased sharply, reaching a record level of 21.0 per hundred live births in 1989.

The next table shows the number of single and multiple confinements in 1989 by nuptiality and age group of mother.

	Age of mother (years)							
Particulars	Under 20	20–24	25–29	30–34	35-39	40 and over	Not stated	Total
		1	NUMBER					
Nuptial: Single Twins Triplets or higher order	210 1 -	2,707 33 -	6,509 82 4	4,220 58 6	1,256 22 2	159 2 -	2 - -	15,063 198 12
Total	211	2,740	6,595	4,284	1,280	161	2	15,273
Ex-nuptial: Single Twins or higher order	954 10	1,451 6	916 12	498 10	187 4	25		4,031 42
Total	964	1,457	928	508	191	25	_	4,073
Total confinements	1,175	4,197	7,523	4,792	1,471	186	2	19,346
		P	ER CENT					
Total nuptial Total ex–nuptial	18.0 82.0	65.3 34.7	87.7 12.3	89.4 10.6	87.0 13.0	86.6 13.4	100.0	78.9 21.1

Confinements : Nuptiality and Plurality by Age Group of Mother South Australia, 1989

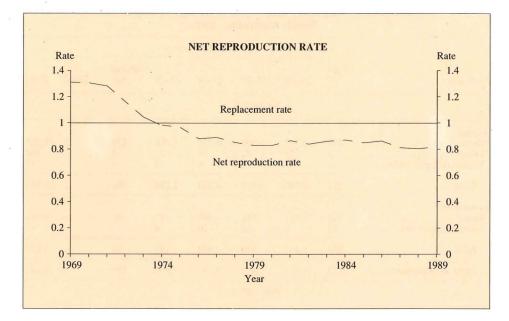
Gross and Net Reproduction Rates

The gross reproduction rate is an indication of the number of live females that can be expected to be born to a woman through her child–bearing years. The net reproduction rate, which is a measure of the degree to which the population can replace itself, is derived from the gross reproduction rate by taking into account the females who fail to survive to the end of their child–bearing period.

The following table shows a general decline in the net reproduction rate. The current level is lower than the point at which women produce only one female child to take their place in the reproductive cycle and, excluding the impact of migration, if this trend continues, zero population growth will be reached ultimately and the population will begin to decline. It should be realised, however, that this is not a forecast of what can be anticipated but only a hypothetical projection of what will happen if the given conditions upon which it has been based continue to apply.

		Net reproduction rate			
Year	Gross reproduction rate		Mortality experience on which rate is based		
1966 (a)	1.368	1.323	19651967		
1971 (a)	1.318	1.281	1970-1972		
1976 (a)	0.900	$\overline{0.880}$	1975-1977		
1981 (a)	0.880	0.866	1981		
1986 (a)	0.876	0.862	1986		
1987	0.825	0.812	1987		
1988	0.817	0.805	1988		
1989	0.831	0.819	1989		

(a) Census year.



Age of Parents and Duration of Marriage

For more than twenty years the median age of parents and the duration of marriage for all first nuptial confinements has shown an increasing trend.

The median age of mother for first nuptial confinements increased from 23.0 years in 1969 to 27.4 years in 1989, while the median age of mother for all confinements rose from 25.2 years to 27.9 years. The median age of father for all nuptial confinements increased from 29.2 years to 30.9 years in the same period. In 1969 the median duration of marriage for first nuptial confinements was 1.58 years, but in 1989 it had risen to 2.80 years.

For ex–nuptial confinements the median age of mother fell from 21.0 years in 1969 to 20.5 years in 1973 but since then has shown an upward trend to 23.4 years in 1989.

(Years)							
Particulars	1984	1985	1986	1987	1988	1989	
Median age of mother:							
Nuptial first confinements	25.94	26.18	26.58	26.98	27.19	27.43	
All nuptial confinements	27.31	27.44	27.74	28.08	28.37	28.62	
Ex-nuptial confinements	22.64	22.91	23.02	23.40	23.23	23.36	
All confinements	26.85	26.98	27.16	27.51	27.74	27.93	
Median age of father:							
Nuptial confinements Median duration of marriage:	29.78	29.84	30.14	30.41	30.65	30.92	
Nuptial first confinements	2.59	2.70	2.73	2.77	2.78	2.80	

Median Age and Duration of Marriage, South Australia (Years)

DEATHS

The 11,348 deaths of South Australian residents registered during 1989 represented a crude death rate of 8.0 per thousand of mean population. Although crude death rates in excess of 16.0 were recorded in the 1860s, the rate has not exceeded 9.0 since 1956. Other fluctuations in the number of deaths and the crude death rate over time can be seen in the Statistical Summary, Appendix A.

Deaths, South Australia

	1	Numbers regis	tered	Сі	ude death rat	e (a)
l'ear	Males	Females	Persons	Males	Females	Persons
1985	5,570	4,926	10,496	8.2	7.1	7.7
1986	5,556	4,772	10,328	8.1	6.9	7.5
1987	5,754	4,777	10,531	8.3	6.8	7.6
1988	5,793	4,897	10,690	8.3	6.9	7.6
1989	6,094	5,254	11,348	8.6	7.3	8.0

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

In recent years male deaths have significantly outnumbered female deaths for persons aged less than 80 years, while for ages in excess of 80 the number of female deaths has been much higher. This is a reflection of the age and sex distribution of the population which has resulted mainly from the greater longevity experienced by females in the population. The following table shows deaths by sex and age group for the years 1987 to 1989.

		Males			Females			Persons	
Age group (years)	1987	1988	1989	1987	1988	1989	1987	1988	1989
Under 1	101	96	81	64	56	65	165	152	146
1–4	21	17	16	23	11	20	44	28	36
5–9	9	10	10	4	10	11	13	20	21
10–14	13	16	11	7	4	8	20	20	19
15–19	83	72	66	22	25	21	105	97	87
20–24	75	83	75	22	26	27	97	109	102
25–29	64	78	76	22	22	34	86	100	110
30–34	58	69	72	33	19	34	91	88	106
35–39	70	63	81	42	43	48	112	106	129
40-44	80	98	81	56	47	51	136	145	132
45-49	121	125	127	74	67	76	195	192	203
50-54	180	185	175	108	80	110	288	265	285
55–59	376	310	318	157	178	168	533	488	486
60–64	516	604	537	254	303	309	770	907	846
65–69	733	742	739	448	401	440	1,181	1,143	1,179
70–74	917	878	925	566	576	590	1,483	1,454	1,515
75–79	914	968	1,068	744	739	823	1,658	1,707	1,891
80 and over	1,423	1,379	1,636	2,131	2,290	2,419	3,554	3,669	4,055
All ages	5,754	5,793	6,094	4,777	4,897	5,254	10,531	10,690	11,348

Age at Death, South Australia

The following tables show that age–specific death rates, *i.e.* deaths in each age group expressed as a rate per 1,000 of population in that age group, have fallen in all age groups for both males and females over the last 65 years. Because age composition of the population is known accurately only at censuses, the periods shown are those with a census date as their centre.

					Death rate	? (b)			
Age group (years)	1920–22	1932–34	1946–48	1960–62	1965-67	1970–72	1975–77	1980-82	1985–87
0–4	19.98	9.90	8.09	5.82	4.58	4.66	3.20	2.76	2.33
5–9	2.33	1.18	1.00	0.50	0.44	0.43	0.36	0.33	0.23
10–14	1.55	1.08	0.68	0.46	0.55	0.38	0.36	0.38	0.22
15–19	2.41	1.69	1.42	1.08	1.19	1.48	1.51	1.27	1.23
20–24	3.47	2.35	1.44	1.37	1.33	1.55	1.56	1.25	1.36
25–29	3.67	2.51	1.59	1.59	1.34	1.12	1.27	1.19	1.20
30–34	3.97	2.51	1.88	1.62	1.13	. 1.41	1.23	1.07	1.16
35–39	5.12	3.23	2.41	2.08	2.23	2.04	1.72	1.57	1.32
40–44	6.10	4.73	3.63	3.43	3.27	3.15	2.60	2.29	2.20
45–49	8.37	6.82	6.12	5.44	5.71	5.49	5.05	4.16	3.17
50–54	11.58	9.82	10.74	9.24	9.59	9.37	8.15	7.47	5.72
55–59	18.99	15.11	16,28	15.75	15.92	16.01	13.22	12.76	10.87
60–64	26.02	24.98	26.08	24.39	26.69	25.10	22.33	19.52	16.09
65–69	41.62	36.14	40.08	37.84	40.55	41.00	36.05	31.09	27.54
70–74	62.49	57.07	60.79	59.47	63.86	64.42	54.08	49.09	43.45
75–79	105.50	92.60	97.69	88.56	90.71	96.09	87.50	78.54	70.14
80–84	158.90	147.86	145,56	135.85	138.50	142.39	132.63	117.92	112.19
85 and over	269.50	257.03	248.89	227.39	228.91	230.02	211.49	201.85	187.97
All ages	10.75	9.29	10.87	9.00	9.17	9.31	8.52	8.36	8.18

		_			a)
Age-specific	Death	Rates	: Males	, South Australia ⁽	A)

(a) Deaths of full-blood Aborigines, where identified in registrations, were excluded before 1966. (b) Average annual number of deaths per 1,000 of population at ages shown. From 1975-77 estimated resident population.

					Death rate	e (b)			
Age group (years)	1920–22	193234	1946–48	1960–62	1965-67	1970–72	1975–77	1980-82	1985-87
0-4	16.29	8.29	7.12	3.93	3.47	3.39	2.49	2.00	1.84
5–9	2.30	1.04	0.54	0.35	0.33	0.32	0.35	0.14	0.17
10–14	1.32	0.88	0.38	0.30	0.29	0.29	0.21	0.17	0.17
15–19	2.71	1.25	0.75	0.37	0.44	0.65	0.55	0.45	0.43
20–24	2.91	2.36	1.04	0.58	0.46	0.48	0.44	0.44	0.52
25–29	3.95	2.73	1.65	0.70	0.53	0.60	0.42	0.36	0.5
30–34	4.18	2.66	1.91	0.96	0.87	0.91	0.66	0.42	0.5
35–39	5.27	3.85	2.03	1.33	1.14	1.18	0.91	0.85	0.70
40-44	4.99	4.10	3.48	1.80	2.13	1.86	1.83	1.44	1.22
45–49	6.42	5.80	4.59	3.03	3.29	2.95	. 2.73	2.12	2.19
50–54	9.18	8.06	7.09	5.22	4.99	4.60	4.32	3.39	3.54
55–59	10.65	11.24	10.33	7.82	7.59	7.41	6.48	5.31	4.9
60–64	18.07	17.68	14.97	12.74	12.82	12.16	10.45	8.53	7.82
65–69	33.15	27.16	25.22	21.05	20.39	20.32	16.53	14.61	13.6
70–74	46.20	42.19	42.17	35.52	35.36	33.42	28.77	24.95	24.02
75–79	83.56	75.53	72.07	58.28	60.81	57,60	51.55	42.39	40.69
80–84	131.63	121.15	121.57	108.61	100.52	99.42	84.68	75.39	68.88
85 and over	232.84	233.59	214.35	199.38	183.88	186.55	176.26	163.02	146.3
All ages	9.00	8.23	9.19	7.38	7.42	7.50	7.03	6.69	6.94

· · (a)

(a) Deaths of full-blood Aborigines, where identified in registrations, were excluded before 1966. (b) Average annual number of deaths per 1,000 of population at ages shown. From 1975-77 estimated resident population.

Infant Mortality

The infant mortality rate, *i.e.* the number of deaths of children under one year to every 1,000 live births, has declined markedly in the last century. Rates around 200 were not uncommon in the 1850s and 1860s but by the early 1900s the rate was less than half this. Further rapid declines have been evident throughout this century with the 1989 rate being 7.4. The number of infant deaths and infant death rates for selected years since 1851 are shown in the Statistical Summary, Appendix A.

		1 day	I week	4 weeks	3 months	6 months	Total unde	er 12 months
Year	Under 1 day	and under 1 week	and under 4 weeks	and under 3 months	and under 6 months	and under 12 months	Number	Rate (a)
				MALES				
1987	20	22	8	16	19	16	101	10.2
1988 1989	30 27	17 12	10 10	15 14	17 10	7 8	96 81	9.7 8.0
				FEMALES			,	
1987 1988 1989	22 22 22	11 9 11	8 7 7	14 8 11	8 5 8	1 5 6	64 56 65	6.9 6.1 6.9
-				TOTAL				
1987	42	33	16	30	27	17	165	8.6
1988 1989	52 49	26 23	17 17	23 25	22 18	12 14	152 146	7.9 7.4

Infant Mortality : Age at Death, South Australia

(a) Rate per 1,000 live births.

The fall in infant mortality is attributable to many factors, including better pre-natal care and obstetric management, which have led to safer births, and to the neonatal intensive care units at major maternity hospitals which have brought about a high survival rate for small and immature infants.

Statistics of infant mortality shown in the table above include the neonatal segment of perinatal deaths which are discussed in the following paragraph.

Perinatal Deaths

Perinatal deaths comprise fetal deaths (stillbirths) and neonatal deaths (deaths within twentyeight days of birth), of children weighing at least 500 grams at delivery or, when birthweight is unavailable, of at least twenty-two weeks gestation.

			1	Perinat	al deaths		
	Live births (a)	F	etal	tal Neo		Total p	perinatal
Year	Number	Number	Rate (b)	Number	Rate (b)	Number	Rate (b)
1986	19,741	124	6.2	76	3.8	200	10.1
1987	19,235	89	4.6	81	4.2	170	8.8
1988	19,155	109	5.7	84	4,4	193	10.0
1989	19,610	127	6.4	72	3.7	199	10.1

Live Births and Perinatal Deaths, South Australia

(a) Includes a very small number of live births that do not meet the definition of a perinatal death. These have been excluded from the denominator used to calculate the perinatal death rates.

(b) Fetal death rate is the number of fetal deaths per 1,000 of relevant births registered plus fetal deaths. Neonatal death rates are per 1,000 relevant live births registered plus fetal deaths.

Expectation of Life

Based on the mortality conditions prevailing in South Australia during 1989, the life expectancy at birth for males was 73.7 years and for females 79.7 years (see Part 5.3).

Further References

More detailed information on life expectancy, perinatal deaths and causes of death in South Australia are included in Part 5.3 Health, and additional information may be found in the following ABS publications:

- 3301.0 Births, Australia
- 3301.4 Births, South Australia
- 3302.0 Deaths, Australia
- 3302.4 Deaths, South Australia
- 3303.0 Causes of Death, Australia
- 3303.4 Causes of Death, South Australia
- 3304.0 Perinatal Deaths, Australia

4.6 MARRIAGES AND DIVORCES

MARRIAGES

The current legislation relating to marriages in Australia is the *Marriage Act 1961* (Cwlth) and in South Australia this is administered by the Principal Registrar of Births, Deaths and Marriages.

Details of persons marrying classified by previous marital status for the three years to 1989 are given in the following table.

			Bridegroom	\$		Brides			
Year		Never married	Widowed	Divorced	Never married	Widowed	Divorced	Total marriages	Rate (a)
1987 1988 1989	· · · · · · · · · · · · · · · · · · ·	7,241 7,444 7,267	270 260 252	2,184 2,424 2,257	7,295 7,550 7,328	308 326 297	2,092 2,252 2,151	9,695 10,128 9,776	6.95 7.20 6.87

Previous Marital Status of Persons Marrying, South Australia

(a) Per 1,000 of mean estimated resident population.

Marriage numbers and rates for selected years from 1846 are shown in the Statistical Summary, Appendix A. The crude marriage rate rose throughout the sixties from 6.99 in 1960 to 9.38 in 1970, gradually declined to a level of 8.67 in 1974 and fell substantially to 7.78 in 1975.

The 1976 rate of 8.55 coincided with the introduction of the Family Law Act and a significant increase in the number of divorced persons remarrying. The rate has declined since then even though the proportion of persons marrying who have been divorced has been consistently above 20 per cent.

During 1989 the median age of persons marrying for the first time was 25.9 years for males and 23.9 years for females, a difference of 2.0 years.

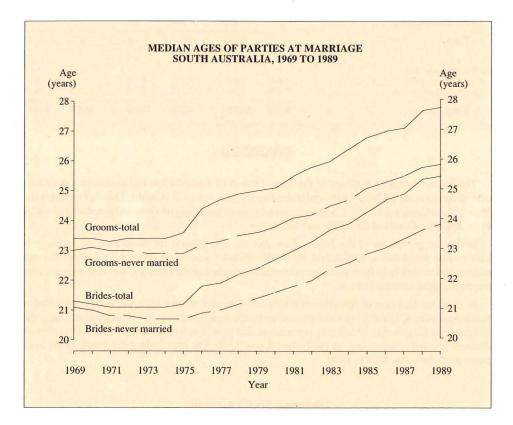
The median age of both bridegrooms and brides has shown an upward trend for more than ten years. This trend is apparent for both persons who are marrying for the first time and those who have been married previously.

	Me	dian age of bri	idegrooms (yea	rs)	Median age of brides (years)				
Year	Never married	Widowed	Divorced	Total	Never married	Widowed	Divorced	Total	
1987	25.5	60.8	38.5	27.1	23.4	53.1	35.1	24.9	
1988	25.8	61.3	38.6	27.7	23.7	54.5	35.2	25.4	
1989	25.9	61.3	39.1	27.8	23.9	54.7	35.6	25.5	

Median Age at Marriage and Previous Marital Status, South Australia^(a)

(a) The term 'median age' refers to that age which divides total age distribution into two parts of equal magnitude.

In 1989, slightly less than two–thirds of marriages (65.4 per cent) involved partners both of whom had never been married; one partner had been married previously in 18.5 per cent of marriages, and a remarriage for both partners took place in 16.1 per cent of ceremonies.



MARRIAGE RITES

Marriages performed by civil officers in South Australia during the decade from 1960 to 1969 accounted for 10.9 per cent of all marriages. This proportion has increased steadily since then and was 40.6 per cent in 1989. This is related to the increasing numbers of divorced persons remarrying, for example in 1989 two–thirds of persons who had been married previously were married in civil ceremonies.

The following table gives details of marriages by category of authorised celebrant for the three years to 1989.

	Nun	ıber of marr	iages		portion of to iages (per c	
Rites	1987	1988	1989	1987	1988	1989
Denomination:						
Anglican	837	881	805	8.6	8.7	8.2
Baptist	216	211	196	2.2	2.1	2.0
Catholic	1,597	1,642	1,615	16.5	16.2	16.5
Churches of Christ	182	195	182	1.9	1.9	1.9
Lutheran	470	442	504	4.8	4.4	5.2
Orthodox	278	294	315	2.9	2.9	3.2
Presbyterian	38	37	48	0.4	0.4	0.5
Uniting Church	1,687	1,708	1,624	17.4	16.9	16.6
Other denominations	473	535	519	4.9	5.3	5.3
Total	5,778	5,945	5,808	59.6	58.7	59.4
Civil ceremonies by:						
Official registrars	1,647	1,620	1,391	17.0	16.0	14.2
Other civil celebrants	2,270	2,563	2,577	23.4	25.3	26.4
Total	9,695	10,128	9,766	100.0	100.0	100.0

Marriages : Category of Authorised Celebrant, South Australia

DIVORCES

The South Australian Registry of the Family Court of Australia has had exclusive jurisdiction over divorces since 31 May 1976, under the *Family Law Act 1975* (Cwlth). This Act repealed the *Matrimonial Causes Act 1959* (Cwlth) which had granted jurisdiction to hear and determine divorces to the Supreme Courts of the States and Territories.

Under the provisions of the Family Law Act the sole ground for dissolution of marriage is irretrievable breakdown, established by twelve months separation. Prospective applicants are encouraged to seek help from marriage counsellors attached to the Family Court or from voluntary marriage guidance organisations.

In 1976, the first year of operation of the Family Law Act, there were 6,142 divorces granted in South Australia; 4,740 of these were granted under the new legislation and the remainder under the Matrimonial Causes Act which was repealed in that year. Since that year the highest number of divorces granted in a year was in 1982 when it was 4,526. The next table gives details of divorces granted for the years 1985 to 1989.

Divorces, South Australia

Particulars	Unit	1985	1986	1987	1988	1989
Divorces granted	No.	4,216	3,776	4,050	4,031	3,740
Crude divorce rate (a)	per cent	3.1	2.8	2.9	2.9	2.6
Median duration of marriage Median interval between marriage	years	10.3	10.4	10.3	10.3	10.2
and final separation Divorces involving children:	years	7.8	7.7	7.7	7.6	7.7
Number	No.	2,500	2,303	2,433	2,413	2,090
Percentage of total Average issue	Per cent No.	59.3 1.9	61.0 1.9	60.1 1.9	59.9 1.8	55.9 1.9

(a) The crude divorce rate is the number of divorces granted per 1,000 of the mean estimated resident population.

Details of the relative ages at marriage of husbands and wives for divorces granted in 1989 are contained in the following table. The median age at marriage for husbands was 24.4 years and for wives 21.9 years.

				Age	of wife (ye	ears)				
Age of husband (years)	Under 20	20–24	25-29	3034	35–39	40-44	45-49	50 and over	Not stated	Total
Under 20	200	57	4	1	. –	_		_	_	262
20–24	635	1,055	· 114	21	9	4	1	_	-	1,839
25–29	126	541	215	50	17	4	2	1	-	866
30–34	21	104	114	66	14	8	-	_	-	327
35–39	6	27	43	46	29	21	1	2	-	175
40-44	2	8	17	18	23	14	9	2	1	94
45-49	_	4	2	8	17	16	12	6	-	65
50 and over	-	5	3	10	11	12	20	48	-	109
Not stated	_	1	1	-			-	1	-	. 3
Total	990	1,712	513	220	120	79	45	60	I	3,740

Divorces : Ages of Parties at Time of Marriage, South Australia, 1989

The proportion of persons granted divorces who were divorced at the time of their marriage has been increasing steadily in recent years. The following table gives details of marital status at the time of the marriage for divorces granted in the years 1985 to 1989.

Divorces :	Marital Status at	Time of Ma	rriage, Sout	h Australia
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Martial status at marriage	1985	1986	1987	1988	1989
	HUSBAN	NDS	-		
Never married Widowed Divorced	3,530 69 617	3,159 50 567	3,383 35 632	3,284 33 714	3,037 36 667
	WIVE	S			
Never married Widowed Divorced	3,589 73 554	3,213 56 507	3,412 38 600	3,329 36 666	3,072 46 622

Further References

Additional information may be found in the following ABS publications:

- 3304.4 Marriages, South Australia
- 3305.4 Divorces, South Australia
- 3306.0 Marriages, Australia
- 3307.0 Divorces, Australia

SOCIAL ENVIRONMENT

5.1 LAW, ORDER AND PUBLIC SAFETY

LAW AND ADMINISTRATION

The law in force in South Australia consists of:

- so much of the common law of England and such English statute law as came into force on the original settlement of the colony in 1836;
- Acts passed by the Parliament of the State of South Australia, together with regulations, rules, orders etc. made thereunder;
- Acts passed by the Commonwealth Parliament within the scope of its allotted powers, together with regulations, rules, orders etc. made thereunder;
- Imperial law binding South Australia as part of the British Commonwealth, as part of Australia or as a State – subject, since 1931, to the Statute of Westminster (this relates mainly to external affairs or matters of Imperial concern); and
- Case law (this consists of judicial decisions of the English, Commonwealth or State Courts, respectively, and represents an important part of the law in force in South Australia).

The scope of Commonwealth legislation is limited to the subjects specified in the Commonwealth Constitution. In some cases Commonwealth government powers of legislation are exclusive of, in others concurrent with, those of the State. In all cases of conflict, valid Commonwealth laws override State laws.

ATTORNEY-GENERAL'S DEPARTMENT

The role of the Attorney–General's Department is the provision of efficient legal and associated services to the Attorney–General, other Ministers of the Crown, Government departments and to specified public authorities.

The Attorney–General, who is a member of State Parliament and a Minister of the Crown, is the first law officer of the Crown in South Australia. The Attorney–General initiates and defends certain proceedings by and against the State as *parens patriae*, and is responsible for the laying of information in cases of indictable offences. The Attorney–General also administers Acts of Parliament relating to justices, coroners, land titles, registration of companies and business names, and the Electoral Commission.

The Solicitor–General, at the request of the Attorney–General acts as counsel for the Crown as well as providing formal legal advice to the Attorney–General, the Premier and to the State Government and its agencies. In February 1989, the State Government approved the separation of the roles of the Crown Solicitor and the Chief Executive Officer. Under the new arrangements, the Chief Executive Officer has special responsibility for policy advice and development in the areas of responsibility of the Attorney–General's portfolio. The Crown Solicitor remains responsible for the Crown's professional legal practice and for the management of the Crown Solicitor's Office.

The Parliamentary Counsel is responsible to the Government for the preparation of all legislation initiated by the Government.

COURTS

Supreme Court

The Supreme Court is the superior court of record in and for the State and is constituted by the Chief Justice and puisne judges and the masters appointed under the *Supreme Court Act 1935*. The Supreme Court is a court of law and equity and is vested with jurisdiction in civil, criminal, testamentary, land and valuation, admiralty and appellate causes or matters. The Supreme Court Rules made by the Judges under the power contained in the Act regulate the practice and procedure of the Court.

The Supreme Court has unlimited civil and criminal jurisdiction, except in respect of matters which are reserved for the original jurisdiction of Commonwealth Courts which may, under recent legislation, transfer matters in appropriate cases to the Supreme Court.

Persons charged on information must be tried before a jury except where an accused person has elected to be tried before a judge alone.

In its appellate jurisdiction the Court corrects errors of the lower courts and interprets and expounds the law. Subject to leave being granted, appeals lie from decisions of the Supreme Court to the High Court of Australia.

The Supreme Court in its testamentary causes jurisdiction is the only authority competent to grant probate of the will, or administration of the estate, of any deceased person who leaves real or personal property in the State.

District Courts

The District Court (also referred to as the Local Court of Full Jurisdiction) is an intermediate court and is constituted by a senior judge and other judges appointed under the Local and District Criminal Courts Act. Two of the judges sit in the Children's Court, two judges sit in the Appeal Tribunals Jurisdiction and one in the Commercial Tribunal. The District Court in its civil and criminal jurisdictions sits in Adelaide. It also holds civil circuits at Port Lincoln, Port Pirie, the Riverland, Mount Gambier and Whyalla and criminal circuits at Mount Gambier and Port Augusta.

	1987	7	1988	
Offence type	Finalised	Proven	Finalised	Proven
Homicide	61	31	59	26
Assault (excluding sexual)	314	165	330	176
Sexual assaults and offences	524	278	480	235
Other offences against the person	70	39	89	45
Robbery and extortion	146	109	165	128
Fraud and misappropriation	1,292	1,194	735	620
Breaking and entering	350	281	483	393
Drug offences	471	385	417	327
Other offences	810	614	875	689
Total offences	4,038	3,096	3,633	2,639

Supreme and District Courts : Matters Finalised and Proven, South Australia

The civil jurisdictional limit of the District Court is \$150,000 in actions relating to injury, damage or loss caused by, or arising out of, the use of a motor vehicle and in any other case \$100,000. The criminal jurisdictional limit of the District Court is fifteen years imprisonment. Crimes prosecuted by information laid in the District Court must be tried before a jury.

Local Courts

Local Courts were first established in South Australia by an ordinance of 1850 and originally had criminal as well as civil jurisdiction. They are divided into three areas; Limited Jurisdiction, Special Jurisdiction and Small Claims. The courts vested with all jurisdictions are the Local Courts of Adelaide, South East (Mount Gambier), Lincoln (Port Lincoln), Pirie (Port Pirie), Riverland (Berri) and Whyalla. These courts may hear and determine actions for amounts up to \$20,000 with special provisions for hearing 'small claims' as defined for a pecuniary sum not exceeding \$2,000. Courts of Special Jurisdiction may hear and determine any unsatisfied judgment summons whatever the amount of the judgment.

A magistrate exercises limited jurisdiction including small claims, and special jurisdiction; two justices of the peace sitting together or one special justice sitting alone may only exercise special jurisdiction.

Children's Court

Proceedings in the Children's Court are regulated by the *Children's Protection and Young Offenders Act 1979* which relates to persons who are less than 18 years of age. A screening panel decides whether a young offender who has admitted an allegation appears before a non-judicial tribunal, called the Children's Aid Panel, or a Children's Court. Most first offenders are referred to an Aid Panel.

	Children's Court		Children' s Aid Panels		Total matters	
Major offence type	1987-88	1988-89	1987–88	198889	1987-88	1988-89
Homicide	2	5	_	****	2	5
Assault	371	372	172	159	543	531
Rape	12	13	1	1	13	14
Other sexual offences	44	35	41	29	85	64
Robbery	56	37	4	-	60	37
Break and enter	1,286	1,013	651	563	1,937	1,576
Vehicle theft	956	928	390	318	1,346	1,246
Other theft	1,366	1,264	3,125	2,376	4,491	3,640
Wilful damage	561	543	462	454	1,023	997
Receiving	193	198	117	117	310	315
Fraud	259	167	205	188	464	355
Drug offences (other than alcohol) .	533	605	572	516	1,105	1,121
Liquor	488	397	622	450	1,110	847
Unlawfully on premises	204	188	207	180	411	368
Driving and traffic (major offences)	880	685	518	419	1,398	1,104
Disorderly behaviour	886	682	357	313	1,243	995
Other offences	797	709	559	504	1,356	1,213
Total matters heard	8,894	7,841	8,003	6,587	16,897	14,428
Total alleged offenders (b)	2,405	2,173	5,008	4,031	7,413	6,204

Juvenile Offenders, Matters Heard^(a)

(a) Excludes breaches of recognizance; most minor traffic offences, and truancy.

(b) An alleged offender may appear in court on more than one occasion for the same offence, and/or may appear in order to answer more than one count of the same offence.

The Children's Court may not try homicide offences. In cases of very serious offences or persistent serious offending, an order for the child to be tried in an adult court may be obtained. A child may elect to be tried as an adult and, if found guilty, be subject to the penalties set by the Children's Court.

The Children's Court also deals with neglected children where the Chief Executive Officer of the Department for Family and Community Services applies for a declaration that a child is in need of care and should be placed under the guardianship of the Minister of Family and Community Services.

Courts of Summary Jurisdiction

Courts of Summary Jurisdiction are held in all major towns to hear criminal cases. In offences of dishonesty their jurisdiction is confined to cases where the property value is not more than \$2,000, and the limit of their jurisdiction as to penalty is imprisonment for two years.

Coroners Court

The principal function of the office of Coroner is the detection and deterrence of secret homicide. The Coroner performs an investigative role into both natural and unnatural deaths, and examines deaths related to civil matters, *e.g.* workers compensation. Although from time to time the Coroner has been given a criminal jurisdiction, this is not currently the case.

The Coroner also inquires into the causes and origins of all fires causing damage to persons or property and into the disappearance from or within the State of any person.

JURY SYSTEM

The procedure in relation to juries is governed by the *Juries Act 1927*. Indictable offences are tried before a judge and twelve jurors sitting in the criminal jurisdiction of either the Supreme Court or District Court, depending on the gravity of the offence.

From 1985 the Juries Act provides that an accused may elect, in accordance with the rule of court, to be tried by a judge alone.

Jury districts for the metropolitan and certain country areas are fixed by proclamation pursuant to the Juries Act and a jury list is compiled annually for each jury district. The names of persons included in the list are selected by computer process from the appropriate House of Assembly electoral rolls at the direction of the Sheriff. The jurors summoned to hear and determine an issue are later selected by ballot. Accused persons and the Crown each have the right to challenge three jurors without assigning reasons.

LIQUOR LICENSING AUTHORITY

The licensing of hotels and other outlets to sell liquor is governed by the *Liquor Licensing Act* 1985, which came into effect on 1 July 1985 under which is constituted a licensing authority, consisting of a Licensing Court Judge and a Liquor Licensing Commissioner. Licences are divided into two categories as follows:

Category A	Category B
hotel licence	club licence
retail liquor merchant's licence	producer's licence
wholesale liquor merchant's licence	residential licence
entertainment venue licence	restaurant licence
general facility licence	limited licence

All matters concerning Category B licences, and some matters relating to Category A licences, are determined by the Liquor Licensing Commissioner. The Licensing Court Judge determines the remaining matters relating to Category A licences and any applications for review of a decision of the Commissioner, who is also responsible for the administration of the Act.

Licence fees, except for limited licences, are assessed as a percentage of the value of liquor purchases (or in some cases sales) during the previous twelve months.

BANKRUPTCY

Since 1928 bankruptcy has been under Commonwealth Government jurisdiction. Under the *Bankruptcy Act 1966* (Cwlth) South Australia is a bankruptcy 'district' and jurisdiction is exercised by the Federal Court of Australia. Bankruptcy proceedings can be instituted either by a debtor filing his own petition or by a creditor issuing a creditor's petition whereupon the Federal Court may make a sequestration order against that debtor's estate. A bankrupt is entitled to an automatic discharge from bankruptcy on the expiration of three years unless discharged by the Court before that date, or an objection has been filed with the Registrar in Bankruptcy.

In 1989–90 there were 1,322 bankruptcies declared, a decrease of 4 over the previous year, and 173 less than the number of bankruptcies declared in 1987–88.

CONSUMER PROTECTION

Consumer protection in South Australia, in common with the other States, is a responsibility divided between the Commonwealth and State Governments. The major arm of Commonwealth responsibility is the Trade Practices Commission and the relevant State agency is the Office of Fair Trading, a division of the Department of Public and Consumer Affairs.

Consumer law in South Australia has recently been consolidated and rationalised to provide a greater range of sanctions against unfair trading practices, and to place greater emphasis on the promotion of fair trading. Commonwealth provisions dealing with misleading and deceptive conduct have been incorporated into South Australian legislation, and extended to cover all businesses.

EQUAL OPPORTUNITY COMMISSION

The Commissioner administers:

- Equal Opportunity Act 1984
- Sex Discrimination Act 1984 (Cwlth)
- Racial Discrimination Act 1975 (Cwlth)

The objectives of the Equal Opportunity Commission are as follows:

- To promote equality of opportunity and an understanding of its principles and practices among the citizens of South Australia.
- To foster and encourage informed and unprejudiced attitudes in the community with a view to eliminating discrimination on the ground of sex, sexuality, marital status, pregnancy, race and physical or intellectual impairments.
- To provide effective redress for unlawful discrimination on the grounds of sex, sexuality, marital status, pregnancy, race and physical and intellectual impairment; and for sexual harassment.
- To encourage the application of equal opportunity and human rights principles and practices in employment, education, the conferral of qualifications, the provision of goods and services, accommodation, advertising, the disposal of land, clubs and associations and in sport.

LEGAL SERVICES COMMISSION

The Legal Services Commission, constituted under the provisions of the Legal Services Commission Act 1977, is responsible for the provision of legal assistance in South Australia.

The Commission is an independent statutory body with representation from a variety of groups in the community. The staff of the Commission provide legal advice in any matter. More extensive legal representation is provided by the private legal profession on assignment, as well as by staff. Legal assistance of a substantive nature is subject to a means test and to other guidelines laid down from time to time. However, legal advice in the form of a short interview is free.

PUBLIC TRUSTEE

The Office of Public Trustee was established in 1881 and is regulated by the Administration and *Probate Act 1919*. The Public Trustee provides a service to the public by preparing wills, administering estates, and protecting infants and absentee beneficiaries in estates administered by private administrators. A person may appoint the Public Trustee to be the executor and trustee of a will or the trustee of any disposition of property creating a trust.

Trust Funds have grown from \$2,800 (£1,400) in 1881 to \$200 million at 30 June 1989.

Wills which appoint the Public Trustee as executor and which are held in safe custody number more than 150,000. Approximately one-third of all deceased estates in South Australia are administered by the Public Trustee.

POLICE AND CORRECTIONAL SERVICES

AUSTRALIAN FEDERAL POLICE

The Australian Federal Police (AFP), established in 1979, is the major law enforcement agency of the Commonwealth Government. It investigates breaches of Commonwealth law and also has the responsibility for all policing in the Australian Capital Territory. Its priority areas are investigation into drug trafficking, all organised crime, major fraud and specific references from the Government (*e.g.* organised crime). It assists Royal Commissions as well as participating in joint State Police Force and/or other law enforcement agency task forces. Its members are stationed in every State/Territory, as well as in many overseas locations.

THE SOUTH AUSTRALIAN POLICE FORCE

The police force was first established in South Australia in 1838 and has been administered by a Commissioner of Police since 1840. Since that time the Force has grown to such an extent that a Deputy Commissioner, four Assistant Commissioners and a Director have been introduced. Each Assistant Commissioner has control of one of four major areas of the Force which have been designated Operations, Personnel, Crime and Services. The Director has control of the fifth major area of the force designated as Corporate Services Command.

Personnel	1986	1987	1988	1989	1990
Executive officers (a)	48	46	47	45	49
Inspectors	74	77	77	77	77
Sergeants	516	504	509	565	631
Constables (b)	2,854	3,034	2,940	2,878	2,893
Total	3,492	3,661	3,573	3,565	3,650

Police Personnel, South Australia, at 30 June

(a) Includes superintendents.

(b) Includes trainees, cadets, probationary constables and police aides.

The objectives of the South Australian Police Force include the preservation of civil order; the protection of persons and property; the prevention or reduction of the incidence of crime; the provision of assistance to the community on general police matters; the provision for the general security of the State, and the provision of emergency services in disaster situations.

Offences

The following crime statistics are compiled from Criminal Offence Reports which were made out for offences which became known to the police during the years 1988–89 and 1989–90 and should be regarded only as an indication of changing levels of criminality.

	Number of offences		Number of known offences	Number of offenders involved in cleared
Offence type	1988–89	1989–90	cleared 1989–90	offences 1989–90
Homicide	98	81	63	61
Assault (excluding sexual assault)	9,590	10,400	6,879	4,661
Sexual offences	1,852	2,055	1,067	528
Other offences against the person	709	874	444	244
Total offences against the person	12,249	13,410	8,453	5,494
Break and enter	38,602	42,441	2,968	3,248
Fraud, forgery, and misappropriation	7,045	6,197	3,371	1,086
Receiving and unlawful possession	1,729	1,753	1,727	1,302
Motor vehicle theft	11,886	13,046	1,485	1,672
Larceny from a motor vehicle	14,634	15,206	932	892
Larceny of bicycles	5,769	5,380	354	184
Shop theft (shoplifting)	6,363	7,083	6,368	5,741
Other theft	30,928	31,208	2,775	1,560
Total break and enter, fraud, and	11/05/	100.014	10.000	15 (05
other offences involving theft	116,956	122,314	19,980	15,685
Robbery and extortion	727	835	199	233
Property damage and environmental offences	21,239	23.244	4.114	3,813
Offences against public order	22,990	26,174	18,088	16.372
Drug offences	2,736	3,090	3.032	2,635
Drink driving and related offences	9,103	8,360	8,359	8,343
Other offences	1,794	1,752	1,040	837
All offences	187,794	199,179	63,265	53,412

Selected Offences Reported or Becoming Known to the Police South Australia, 1988–89 and 1989–90

Crime Prevention

As a Crime Prevention initiative the Police School Education program continued to expand within high schools and at 30 June 1990, 48 programs were operating.

Blue Light activities for youth also increased. Thirty-five disco branches located throughout the State conducted 109 discos, with 37,000 youths attending. In addition to Whyalla, a new night club conducted by Blue Light started at Port Augusta and Blue Light youth camps commenced in the State with 10 camps being held by 30 June 1990. In addition a Police Deputy Club commenced for primary school aged children.

The demand for Neighbourhood Watch continued and at 30 June 1990, there were 237 Neighbourhood Watch areas in the State, with a further 237 areas awaiting establishment. Seventy–four new Neighbourhood Watch areas and eighteen Rural Watch areas were introduced during 1989–90.

CORRECTIONAL SERVICES

Prisons

There are eight gaols and prisons administered by the South Australian Department of Correctional Services. In addition, police prisons situated mainly in the more remote country areas serve as short-term detention centres for both males and females on behalf of the Department of Correctional Services. James Nash House, situated in the grounds of Hillcrest Hospital, accommodates the criminally insane and those undergoing short-term psychiatric care and assessment. This hospital is administered by the Department of Correctional Services and staffed by trained medical personnel from the South Australian Health Commission and provides specialised treatment programs for both males and females.

A Home Detention Scheme was introduced in 1987. This allows selected prisoners to complete up to six months of their sentences at home. Prisoners involved in this scheme are kept under close surveillance and may only leave their homes for employment or health reasons.

	1987–88		1988–89		198990	
Major offence type	Persons	Per cent	Persons	Per cent	Persons	Per cent
Homicide	17	0.5	18	0.6	19	0.6
Assault	276	7.6	237	7.6	250	8.5
Sexual assault	45	1.2	47	1.5	48	1.6
Robbery and extortion	61	1.7	55	1.8	41	1.4
Fraud and forgery	142	3.9	86	2.8	83	2.8
Theft, break and enter	481	13.2	482	15.5	471	16.0
Property damage	73	2.0	62	2.0	74	2.5
Driving and related offences	978	26.8	828	26.6	752	25.6
Drink driving	444	12.2	347	11.1	304	10.4
Drugs	162	4.4	159	5.1	115	3.9
Against good order	345	9.4	279	9.0	242	8.2
Offensive behaviour	226	6.2	162	5.2	129	4.4
Breach of recognizance,						
suspended sentence, parole	338	9.3	283	9.1	324	11.0
Other	61	1.7	72	2.3	84	2.9
Total	3,649	100.0	3,117	100.0	2,936	100.0

Prisons : Numbers of Sentenced Persons Received by Major Offence Type

Community Corrections

The Community Corrections Division is responsible for providing supervision and social casework services to probationers and parolees. Probation officers provide a professional social work service, including a wide range of treatment and management alternatives for offenders. The Community Service Order Scheme, initiated and administered by the Division, provides participating courts with a further alternative to imprisonment. A Fine Option Scheme allows offenders, who have been fined and are unable to pay, to work out the amount of the fine in community service work as an alternative to prison.

PUBLIC SAFETY

STATE EMERGENCY SERVICE

The South Australian State Emergency Service (SES), formerly the Civil Defence Organisation, was established in 1961 to provide protection for the public against the effects of wartime hostilities. As the threat of war has diminished, the emphasis has shifted progressively towards involvement in counter-disaster measures. The SES is identified as a functional service under the State Disaster Plan.

A Director, who is also a member and Executive Officer of the State Disaster Committee, leads the Service, and is supported by a small permanent staff at State Headquarters in Thebarton, and ten Divisional Offices. Permanent officers are involved in the preparation of counter-disaster plans at all levels, while volunteer members respond to emergency situations on a day-to-day basis throughout the State. These volunteers undertake training to develop their counter-disaster skills. In the main, the courses are conducted by permanent SES staff in the State, but some selected persons attend courses conducted at the Australian Counter Disaster College, Mount Macedon, Victoria.

ROAD ACCIDENT PREVENTION

In September 1989, the Highways Department and the Motor Registration and Road Safety Divisions of the Department of Transport were amalgamated to form the Department of Road Transport. This new department is charged with the responsibility for the development of road safety policy through one of its organisational units, the Office of Road Safety.

In addition, a Road Safety Management and Coordination Group was established comprising chief executives from Road Transport, Education, and Police Departments, South Australian Health Commission, Office of Transport Policy and Planning and a nominee of the Local Government Association to coordinate a government—wide effort in road safety.

The Road Safety Advisory Council has remained as an advisory body to the Minister of Transport.

Road safety programs are implemented by the Department of Road Transport, local government authorities, Police and Education Departments, South Australian Health Commission, and the National Health and Medical Research Council's Road Accident Research Unit.

FIRE SERVICES

South Australian Metropolitan Fire Service

Provision for the establishment and maintenance of fire brigades in South Australia under the control and management of the Fire Brigades Board was first instituted in 1882. In 1981, the Fire Brigades Board was dissolved and the South Australian Metropolitan Fire Service Corporation was established.

The Corporation maintains suitably equipped fire brigades in proclaimed fire districts in the Adelaide Metropolitan Area and in country towns. At 30 June 1990 there were thirty–nine fire brigade stations of which twenty were metropolitan and nineteen were country. During 1989–90 these brigades received 12,502 calls. Some of these brigades are staffed by permanent personnel and others by auxiliary firefighters.

The expenses and maintenance of brigades are financed in the proportions, three-quarters by insurance companies, one-eighth by the State Treasury and one-eighth by the municipalities and district councils serviced. In 1989–90 the respective amounts provided by these bodies were \$30.2 million, \$5.0 million and \$5.0 million.

South Australian Country Fire Service

The South Australian Country Fire Service (CFS) is an organisation established under the *Country Fires Act 1989* to protect life and property by providing a service for the protection from, and the prevention and suppression of, fire and other emergencies.

CFS services an area of 886,000 square kilometres, or approximately 90 per cent of South Australia.

Volunteer members in 474 registered brigades report through a Group and Regional command structure.

Particulars	1987	1988	1989	1990
Strength of service at 30 June:				
Affiliated organisations	510	519	519	474
Volunteer members	19.000	19,600	20.000	19.818
Fires attended in year ended 30 June:	,		, ,	,
Structural/vehicle	520	583	647	774
Rural	2.286	2.839	2.223	3,381
Area destroyed in bushfires (ha)	349,450	1.768.200	71.300	62,200
Financial losses (\$'000);	,	_,,	/	
Structural/vehicle	15,400	34.000	14.620	10.717
Rural	11,000	42.000	11,000	9,940
Total brigade callouts	4,352	5,526	5.004	7,316

South Australian Country Fire Service

NATIONAL SAFETY COUNCIL OF AUSTRALIA SA DIVISION LIMITED

The National Safety Council of Australia SA Division Limited is a not-for-profit, non-government, independent, tripartite organisation. Its activities are controlled by a Board of Directors representative of industry, unions, government and the community.

The Council's objectives are to encourage and work for the spread of safety awareness practices throughout Australia, and to be an authoritative source of information, opinion and advice to industry, unions, governments, media and the community.

The Council provides services on a fee-for-service basis in all areas of Health and Safety Consultancy and Training. Training programs and seminars are offered and the sale of posters, publications and materials covering all facets of safety are available. Additionally, the Council offers the NSCA Diploma in Occupational Health & Safety Management.

Finance is derived from membership fees, and the sale of consultancy and training services to members. The Community Safety Department receives a small grant from the South Australian State Government to assist in community safety projects.

WATER SAFETY AND LIFE SAVING

Royal Life Saving Society

The Royal Life Saving Society was established in South Australia in 1909 as a branch of The Royal Life Saving Society Australia. From 1952 it has assumed responsibility for inland waters. It specialises in the teaching of water safety, survival swimming, lifesaving and resuscitation techniques.

The voluntary work of the Society is funded mainly by its own fundraising, donations, sponsorships, membership fees and a government grant.

Surf Life Saving Association

The South Australian State Centre of the Surf Life Saving Association of Australia was formed in 1952, with the prime objective of supplying a public service of surveillance and rescue patrols at Adelaide's beaches.

The Association has eighteen affiliated clubs with a membership joining age of 7 years. The gaining of the Surf Bronze Medallion at 15 years allows men and women the opportunity of serving the community as patrolling members at their respective beaches during the summer season, which is normally from the beginning of November until the end of March.

The Association's activities are mainly financed by its own fundraising plus assistance from the three tiers of government.

'Learn to Swim' Campaign

Vacation swimming classes organised by the Education Department were first established in their present form in January 1956. In January each year instruction is provided at more than 250 centres at swimming pools and beaches throughout the State for a period of nine days. Classes are attended by more than 45,000 children from 5 to 18 years of age. The major aim of the program is to impart water safety knowledge, teach survival and safe swimming and to enable children to assist with a rescue by the safest and quickest method available.

Further References

Additional information may be found in the following ABS publications:

4502.4 Higher Courts: Criminal Matters, South Australia

4504.4 Crime and Prevention of Crime in the Community, South Australia

4505.4 Lower Courts: Criminal Matters, South Australia

4506.0 Crime Victims Survey, Australia

5.2 CULTURE AND RECREATION

THE PERFORMING ARTS

Adelaide Festival Centre

The Adelaide Festival Centre is South Australia's major performing arts complex and a major tourist attraction.

Completed in 1975, it contains a 1,978-seat auditorium (complete with hydraulic lift organ) which is suited to both proscenium arch and concert hall presentations. In addition, it offers a highly versatile, 600-seat drama theatre, a performance space suited to regular theatre and cabaret presentations, and a 1,000-seat outdoor amphitheatre. The Centre has two major restaurants and a number of gallery spaces for the display of visual arts.

The Centre is a major theatrical entrepreneur in Australia, and its set construction division built the complex sets for a number of large productions, including *Cats*, *Les Misérables*, *Chess* and *The Phantom of the Opera*.

The Centre is the focal point for the biennial Adelaide Festival of Arts, and houses the administration of the Festival. Between Festivals, the Adelaide Festival Centre presents more than 400 performances per year, generating more than half of the year's average attendances at the complex, totalling approximately 750,000 patrons.

Adelaide Festival of Arts

Founded in 1958 and first held in 1960, the world–renowned biennial Adelaide Festival has become Australia's major international festival of the performing, visual and literary arts.

The Festival is based in the Adelaide Festival Centre theatre complex, but utilises some forty venues in and around the city to present its three–week program. This regularly includes 500 performances, thirty art exhibitions and seventy Writers' Week guests, and features the works of celebrated Australian and international artists, companies and writers.

The Adelaide Festival has proved to be a major tourist attraction for interstate and overseas visitors, with an average of twenty per cent of its 780,000 attendances (March 1990 results) attributed to non-residents.

Adelaide Festival Fringe Inc.

The Festival Fringe began operations in the 1960s, providing at Festival of Arts time a forum for artists not included in the main Festival events. It existed for many years in various forms on a limited budget but, after incorporation in 1975, received assistance from the South Australian Department for the Arts. The Fringe has undergone spectacular growth in recent years, aided by financial support from a number of corporate sponsors.

Since 1984, the Fringe has operated from premises in the Living Arts Centre and this site has been the main focus of its Festival activities.

The Fringe is recognised as the major open access forum for new and developing arts in Australia, and presents the best of all art forms – drama, dance, visual art, comedy, cabaret, music, multicultural arts and community events.

During the 1990 Festival, the Fringe assisted 168 organisations (representing over 1,040 individual artists), presented over 1,144 productions and exhibitions with an estimated 286,645 attendances.

The Fringe is now in the position to ensure the ongoing operation of the Lion Theatre and Bar, at the Living Arts Centre between Festivals. Representing a most important asset, the Lion Theatre and Bar offers a unique, versatile venue suitable for the staging of a wide range of events – drama, music, dance, cabaret, workshops, seminars, conferences, parties and exhibitions.

Come Out Festival

Every two years since 1975 South Australia has played host to a festival of arts for young people. Come Out 91, 6–18 May, will be the ninth Festival of the creative, performing and visual arts by, for and with young people at primary and secondary levels. The Festival's objectives of excellence, access and participation are well provided in each area of Aboriginal art, dance, literature, music, theatre and visual art/craft. Together with Community Come Out and country and metropolitan touring it is estimated that more than 400,000 South Australians take part in the Festival.

Other Performing Arts

The State Theatre Company, established in 1965, became a statutory body in 1972. The Company, based at the Playhouse, Adelaide Festival Centre, is South Australia's leading drama company presenting each year a major season of plays, including classics, modern drama, new works from overseas and new Australian writing. The Company tours country centres from time to time.

Its young people's theatre wing, Magpie Theatre, performs in schools, theatres and community venues throughout South Australia. In 1989–90, State Theatre and Magpie Companies gave 357 performances to a total audience of 120,000.

The Adelaide based Australian Dance Theatre is South Australia's only professional dance company. Founded in 1965, it aims to develop contemporary dance in Australia and provides opportunities for developing artists in this field. The company performs regularly in Adelaide and South Australian regional areas and tours interstate and overseas. As is the case with dramatic theatre, several dance groups perform regularly in the State.

The State Opera of South Australia is one of the State's leading performing arts organisations. It was established in 1976 and receives State Government subsidies as well as private sponsorship. The company has pioneered many major works in Australia and also presents productions for the Adelaide Festival of Arts. In August 1991, the Company will produce the Australian stage premiere of *Elektra* by Richard Strauss. The State Opera uses singers and designers of international renown and is supported musically by the Adelaide Symphony Orchestra.

A wide range of professional and amateur theatre companies and dramatic societies operate in Adelaide and regional centres, performing original and established works. Live performances of music catering to a range of tastes, from symphony, chamber and choral to ethnic, folk, jazz and pop, are to be heard throughout the year at a variety of venues.

Regional Trusts

The four Regional Centre Trusts (under the terms of the *Cultural Trusts Act 1984*) serve the cultural needs of their regions. Through the activities of the Trusts, theatres have been built at Mount Gambier, Port Pirie, Renmark and Whyalla. Community Arts Officers, who provide arts-related information and advisory services, have been appointed to serve a number of regional Cultural Centres. The Trusts have also ensured coordination between various arts organisations for touring exhibitions, specific creative projects, and assistance in establishing and developing locally based arts initiatives.

Carclew Youth Performing Arts Centre

Carclew provides a focus for all arts activities for young people, advises the government on youth arts policy, and, through the South Australian Youth Arts Board, allocates grants for companies and individuals working with or for young people.

It also has projects of its own, including *Lowdown*, the national youth arts magazine, Harlequin Recording and Sound Studio, dance and drama workshops, and seminars.

Carclew operates the State Young People's Theatre, the *Odeon* at Norwood, and promotes professional performances for children and young people.

Additionally, there is a comprehensive Youth Arts Library and Printery housed at Carclew to support all youth arts practitioners.

VISUAL ARTS

Art Gallery of South Australia

The Gallery's holdings include paintings, sculptures, prints, drawings, photographs and decorative arts. The collections are broad and include a fine representative selection of Australian, European and Asian art, including one of the finest South–East Asian ceramic collections. Holdings have been enriched over time through bequests and gifts, while the State Government makes an annual grant to the Gallery for the purchase of works of art.

Works by established European and Australian artists are always on display as well as changing displays of contemporary art. South Australian art is well represented and is featured throughout the Gallery's displays. Besides its own exhibitions, the Gallery's programming includes major national and international touring exhibitions.

The Art Gallery of South Australia is a Division of the South Australian Department for the Arts. Its operations are assisted by the Art Gallery of South Australia Foundation, which helps raise substantial funds towards major acquisitions, and by the Friends of the Art Gallery of South Australia. The Gallery's annual program of changing exhibitions was supported in 1989 and 1990 by a major sponsorship from Santos Ltd.

Other Visual Arts Venues

Other galleries are operated by a number of organisations and individual proprietors in both metropolitan and country areas including in Adelaide, the Adelaide Festival Centre Trust, the Royal South Australian Society of Arts, the Contemporary Arts Centre and the Experimental Art Foundation.

The Jam Factory Craft Centre comprises five interrelated activity areas for the development and support of the crafts in South Australia. These are: training workshops (in hot blown glass, ceramics, leather and furniture design); low–rental tenant workshops; a retail craft shop; exhibition galleries; and, craft information services, which are shared with the Crafts Council of South Australia (an independent tenant agency).

The aims of the Jam Factory Workshops Inc. are: to maintain hand processing traditions and skills; craft 'training through production' leading to the trainees establishing their own viable small businesses; promotion of public appreciation of the crafts; and market development for the crafts in South Australia.

MEDIA

FILM

South Australian Film Corporation

The South Australian Film Corporation (SAFC) was constituted under the *South Australian Film Corporation Act 1972*. The SAFC has the sole right to produce or arrange production of films for, or on behalf of, the State Government. It can also produce films on its own behalf, for other organisations or through co-production and investment arrangements with other producers.

Feature films for cinema and television release which have been produced by the SAFC have received critical acclaim in Australia and overseas. The SAFC has also produced many short films for commercial sponsors and State Government departments and instrumentalities, many of which have won Australian and international awards.

SAFC operations and staff are centred at Hendon in a complex which comprises complete film production facilities of a fully professional standard and the SA Film and Video Centre. To encourage the industry in South Australia, the SAFC is able to use its facilities in local and interstate productions.

Other Film Production and Festivals

A number of independent film production houses exist in Adelaide and produce material ranging from advertising videos to feature films.

Frames: Festival of Film and Video held its inaugural season as part of the 1984 Adelaide Festival Fringe. Since then it has grown into a major event to become Australia's leading Festival for Australian independent film and video. It is now organised by the Media Resource Centre, a non-profit cultural body devoted to the development of an active film culture.

BROADCASTING

Radio

The following table provides a summary of radio stations operating in South Australia at 30 June 1990.

	Amplitude M (AM		Frequency Modulation (FM)		
Operator	Metropolitan Adelaide	Country	Metropolitan Adelaide	Country	
Commercial	3	6	3	_	
Public	1	_	2	5	
Australian Broadcasting Corporation		8	2	21	
Total	7	14	7	26	

Radio Stations : Type and Location, South Australia, at 30 June 1990

Television

The Adelaide area is served by an Australian Broadcasting Corporation (ABC) station, a Special Broadcasting Service (SBS) station and three commercial television stations. Thirty–eight ABC stations and twenty–eight commercial television stations service regions outside the metropolitan area.

The following table shows the composition of television programs shown by the ABC and commercial stations in Adelaide during 1988–89.

Category	Commercial	National
	per cent (a)	per cent (a)
Television drama	28.2	11.2
Cinema movies	14.4	0.9
Children's	15.9	23.5
News	7.2	4.3
Current affairs	4.9	7.7
Documentaries	2.4	8.0
Education	(b)	14.4
The Arts	(\tilde{b})	4.9
Religion	0.8	1.5
Information	1.8	1.7
Sport	10.3	12.3
Quiz, panel and games	3.6	0.4
Light entertainment	10.5	9.2
Total	100.0	100.0

(a) Percentage of transmission (6 a.m. to 12 midnight) in each category. (b) Less than 0.1%. Source: Australian Broadcasting Tribunal.

THE PRESS

Since the mid–1920s the present system of three major Adelaide newspapers – one morning daily, one evening daily and one weekend publication – has operated.

The Advertiser, published each morning except Sunday, was first issued in 1858 as *The South Australian Advertiser* and absorbed *The Register* in 1931. It is distributed throughout the State, with about 75 per cent of its circulation in the metropolitan area and 25 per cent in country districts.

The News, published each evening from Monday to Friday, was introduced in 1923 replacing two evening newspapers, *The Express & Telegraph* and *The Journal*, which traced back their origins to the 1860s. Eighty per cent of sales of *The News* are in the Adelaide metropolitan area.

The Sunday Mail, printed on Saturday evenings and distributed mainly on Sunday mornings, first appeared under this name in 1955 following a merger between *The Mail*, first printed in 1912, and the Sunday Advertiser, which was introduced in 1953. About 25 per cent of sales of the Sunday Mail are in country districts.

The *Stock Journal*, previously the *Adelaide Stock and Station Journal*, was established in 1904. It is published weekly and provides up–to–date information on stock and wool markets and the technical aspects of farming and property management.

There are about thirty newspapers operating in the State's country areas. Of those still existing *The Border Watch* (Mount Gambier) in 1861 and *The Bunyip* (Gawler) in 1863 were first to appear. District papers printed by Messenger Newspapers Pty Ltd, containing items of local interest, are circulated in a number of suburbs of Adelaide, and a number of community newspapers are published.

A literary monthly, the *Adelaide Review*, is available free of charge through various outlets and has an audited circulation of over 20,000.

LIBRARIES

STATE LIBRARY OF SOUTH AUSTRALIA

The State Library of South Australia is a Division of the Department of Local Government and is of major significance in meeting the present and future information and reading needs. It does so by developing and maintaining its collections of library materials, promoting and supporting free library services, promoting cooperation between other libraries and information sources and identifying and promoting entrepreneurial library activities.

Bray Reference Library

The Bray Reference Library offers the public two main services. User Services provides a comprehensive reference and information service, utilising the State Reference Collection, inter-library loans and database searches, or referral to other agencies where appropriate. The State Reference Collection comprises 491,176 books and pamphlets, 22,797 newspaper and periodical titles and 87,771 maps.

Technical Services is responsible for the selection of appropriate library materials, acquisitions, cataloguing and classification, and the maintenance and preservation of the collections.

Lending Services

The Lending Services provide library services specifically designed to meet effectively the educational, informational, recreational and cultural needs of Adelaide residents and the commuting public. Special emphasis is placed on supporting individuals of all ages in pursuing a sustained program of learning independent of any educational provider, developing specialised multi–media and multi–lingual collections, and experimenting with new forms of information and technology.

Materials available for loan through the Lending Services include books and periodicals, audio-cassettes, compact discs and computer software. Membership is free of charge. The Lending Services also accommodates the City desk of the South Australian Film and Video Library.

Mortlock Library

Since 1878, legislation has required that copies of all copyright items published in South Australia be deposited in the State Library. This material, including private archival records, forms the collection of the Mortlock Library. The main objectives of the Mortlock Library are: to select, acquire, secure and preserve recorded information in a variety of formats to document the people, places, events and development of South Australiana; and, to assist persons and agencies using the collection through the provision of an effective reference service.

PUBLIC LIBRARIES

The Public Libraries Branch of the State Library supports the establishment and promotes the use of public libraries. It administers subsidies for public library operations by providing catalogued bookstock, other library materials and consultancy services on library operations. It also encourages cooperation between different information services, and is responsible for the provision of community information through public libraries and independent centres.

In June 1990, 118 authorities were operating 135 public libraries, including 45 school/community libraries and 14 depots and 11 mobile libraries under the provisions of the *Libraries Act 1982*.

Year	Libraries at end of year	Registered readers	Items loaned	Stocks at end of year
1985–86	124	527,700	12,035,000	1,982,000
1986–87	128	589,800	12,638,000	2,131,000
1987–88	132	601,000	13,015,951	2,280,000
1988–89	137	744,710	13,356,222	2,319,235
1989–90	135	663,045	13,292,240	2,426,392

Local Public Libraries, South Australia

OTHER LIBRARIES

Significant specialist libraries are held by tertiary institutions. For example, the University of Adelaide has an extensive law library, while the University of Adelaide and Flinders University have branch libraries for medicine. Many organisations, both public and private, have specialist libraries catering for their particular interests. Parliament House is served by its own Parliamentary Library.

STATE RECORDS

State Records (formerly the Public Record Office of South Australia) is a Business Unit of the Department of State Services and is the official repository for the public records of South Australia. Under its Charter, the unit provides records management advice, records storage and retrieval to all public sector agencies, as well as its archival and public reference functions.

MUSEUMS

South Australian Museum

The South Australian Museum is a Division of the South Australian Department for the Arts. The aim of the Museum is to increase knowledge and understanding of our natural and cultural heritage. The Museum collects and preserves appropriate specimens, artefacts, documents and other materials; undertakes research associated with the collections; and, interprets the collections for the public through exhibitions, publications, audiovisual material, educational activities and information services.

The Museum has a wide representation of disciplines, but its main work is in the fields of anthropology, natural history and geology. The research of its social scientists primarily involves the study of Australian Aboriginal culture. The work of its natural scientists involves the identification, classification, description and study of animals and minerals. The Museum's scientific staff are available for consultative projects and their expertise is sought world–wide.

Many of the Museum's collections are among the finest in existence. The Museum mounts permanent and temporary exhibitions which are visited by more than 500,000 people each year. An Education Service and travelling education exhibitions ensure that children throughout the State have access to the Museum's resources. A unique Information Centre answers queries regarding natural history and anthropology. The Museum Shop is a commercial enterprise which stocks a wide range of merchandise, much of which is produced by the Museum. The Museum has a specialist reference library available for public use. The Friends of the South Australian Museum support the work of the Museum and have been responsible for notable additions to the collections.

Old Parliament House

Old Parliament House (formerly the Constitutional Museum) was established to highlight, preserve and interpret South Australia's political heritage. It is Australia's first political museum, and takes advantage of a variety of techniques to show the State as it was before the arrival of the

first Europeans to the present. Old Parliament House is the former Legislative Council building, part of which dates from 1843. It has been restored to its 1875 condition.

In addition to its permanent audiovisual display, Old Parliament House mounts changing displays on political and historical themes.

Carrick Hill

Carrick Hill was bequeathed to the people of South Australia in 1983 by Sir Edward and Lady Hayward. Carrick Hill is a Division of the South Australian Department for the Arts, and opened to the general public in March 1986 as an art museum, botanic garden and park. The Tudor–style mansion houses a fine collection of twentieth century British art and sculpture, together with 17th century oak furniture. The gardens and surrounding park total 39 hectares and provide walks through English formal gardens, with specialist collections of heritage roses and apples. A sculpture park in an Australian bush setting gives generous views of Adelaide.

The History Trust of South Australia

The History Trust of South Australia is a statutory authority, established in 1981, responsible for the management of several important museums, including the Birdwood Mill National Motor Museum, South Australian Maritime Museum, Old Parliament House, and the Migration Museum. The History Trust also oversaw the development of the Port Dock Station Railway Museum as a Bicentennial commemorative project.

The Trust has a Community History Unit which formulates policy relating to local and specialist museums, provides policy advice and information on historical matters to the community and all levels of Government, administers the Museums Accreditation and Grants Program and generally promotes history through publications, workshops, lectures and the mass media. The Museums Accreditation and Grants Program is intended to assist the development of local and specialist museums. A wide range of museums, often based on a particular theme or subject, can be found throughout the State – some are commercially run, others are the work of groups of dedicated volunteers.

The Trust's information services include advice on the location of historical source material, guidance on research techniques and contact addresses for historical societies and museums. There are over 300 museums, historical societies and National Trust branches in the State.

CONSERVATION AND HERITAGE

Natural Environment

The main authority responsible for the conservation of native vegetation and wildlife and the management of parks and reserves is the National Parks and Wildlife Service, a Division of the Department of Environment and Planning. At the end of June 1989 the Service was responsible for more than 230 natural areas covering a total of nearly 11.1 million hectares, or 11.3 per cent of the total area of the State. Management plans set out the reasons for a park's existence, identify outstanding features and set out priorities for work programs, including pest control and fire management.

As part of its wildlife protection role, the Service administers a permit system to take, keep and trade native species; regulates hunting seasons and game quotas; and enforces the *National Parks and Wildlife Act 1972*. Scientific research projects and biological surveys also assist in the protection of land, vegetation and wildlife. Public involvement in parks is encouraged and community groups throughout the State carry out voluntary work in parks and reserves.

The Department of Environment and Planning's Division of Conservation and Land Management conserves, protects and manages South Australia's native vegetation outside the parks and reserves system. Controls on clearance and assistance for landholders are provided for under the *Native Vegetation Management Act 1985* and are administered by the Native Vegetation Management Branch.

Volunteer organisations and tertiary institutions also make a significant contribution to the conservation and study of the natural environment in South Australia.

Aboriginal Heritage

On 1 March 1989 the *Aboriginal Heritage Act 1989* was proclaimed in South Australia. This Act provides for the protection of sites and items of archaeological importance and cultural significance to Aboriginal people. Examples of Aboriginal heritage protected include prehistoric campsites, ceremonial grounds, cave paintings, rock engravings, ochre mines and canoe trees.

A Register of all known Aboriginal sites has been kept since 1967, and the Department of Environment and Planning's Aboriginal Heritage Branch consults extensively with Aboriginal people and communities in carrying out its responsibilities under the Act.

European Heritage

The State Heritage Branch of the Department of Environment and Planning administers the Government's programs for conserving South Australia's European cultural heritage under the *South Australian Heritage Act 1978*; the *Historic Shipwrecks Act 1981*; and sections of the *Planning Act 1982*. There were ten State heritage areas, thirty historic shipwrecks and 1,328 entries on the Register of State Heritage Items at the end of June 1989.

The Branch identifies heritage items and recommends them for registration. Advice is also provided on changes to registered items and the development of heritage sites for public use. Other important tasks include heritage surveys, maritime archaeology research and promotion of the recreational and educational value of historic shipwrecks.

State Conservation Centre

The State Conservation Centre, a Division of the Department for the Arts, was established in 1985 to preserve the moveable heritage of South Australia.

The State Conservation Centre contains a number of well equipped laboratories for the treatment of works on paper, books, paintings, objects and textiles, as well as a scientific analysis unit and one of the most sophisticated fumigation chambers in Australia.

The State Conservation Centre cares for the collections of the State cultural institutions of South Australia. The Commercial Branch of the Centre undertakes work on a fee-for-service basis for other organisations (government and private) and for private individuals.

BOTANIC GARDENS AND STATE HERBARIUM

The Botanic Gardens, established in 1855, now comprises the Adelaide Botanic Garden and Botanic Park in the City, the Wittunga Botanic Garden at Blackwood and the Mount Lofty Botanic Garden. The Botanic Gardens are also responsible for the heritage garden 'Beechwood' at Stirling, maintaining the grounds of Government House, and managing the Black Hill Flora Centre for applied research at Athelstone. There are also seven experimental plantations maintained in various parts of the State.

The Botanic Gardens fulfil important recreational, educational, information, advisory, and conservation and scientific roles, and the range of sites covered by the Gardens facilitates cultivation of a wide range of plants. Important features of the Adelaide Botanic Garden include native plants from dry regions, cacti and succulents, the class ground, glasshouse displays and the wistaria arbours.

The Adelaide Botanic Garden also houses the Museum of Economic Botany, a specialist library, the State Herbarium and the Bicentennial Conservatory, the largest glasshouse in the Southern Hemisphere. The Herbarium contains about 700,000 specimens and is the centre of all significant research on native plants of South Australia. It carries out important work in the identification and naming of plants and recording information on plant distribution as well as liaising with other herbaria and scientific institutions.

Although primarily serving the State, the organisation has routine links with other Australian and overseas botanic gardens, being active in promotion of commercial use of plant products. Some 4,569 schoolchildren used the education service, 27,181 inquiries were made of the advisory service and an estimated one million visitors went to all gardens in the system in 1989–90, including more than 600,000 to Adelaide Botanic Garden.

ADELAIDE ZOO

The Adelaide Zoo is administered by the Royal Zoological Society of South Australia Inc., a non-profit society with 2,500 members. Revenue for maintaining and developing the Zoo comes mainly from gate receipts, fund-raising through sponsorship programs and an annual State Government grant through the Department of Environment and Planning.

Adelaide Zoo has as its major goals public education and recreation, and the conservation and study of rare and endangered species. Two full-time Education Officers conduct education programs for students and assist in interpreting the Zoo as a living classroom for visitors. Although Adelaide Zoo is small in area (only 8 hectares), it contains an excellent collection of mammals, birds and reptiles exhibited in open-plan naturalistic habitats. Two walk-through aviaries, a children's zoo, a nocturnal house and reptile house are important features.

At 30 June 1990, 1,440 specimens of 310 species were on display. About 375,000 people visited the Zoo during the year ending 30 June 1990.

The Society also operates a 200-hectare special breeding centre for rare animals, particularly large herds of antelope and other grazing animals. This zoological park is at Monarto, 70 kilometres east of Adelaide, and is not yet open to the public.

RECREATION AND SPORT

Recreational Space and Facilities

The City of Adelaide is surrounded by 691 hectares of parklands with a variety of sporting facilities, including golf courses, an aquatic sports centre, a racecourse, ovals, playing fields and tennis courts. The parklands also provide venues for other leisure pursuits such as art displays, pop concerts, open-air festivals, picnics and barbecues. Facilities and open space for a wide range of sporting and leisure activities are located throughout the metropolitan area and most country towns have ovals and other sporting facilities.

Department of Recreation and Sport

The Department of Recreation and Sport was established to support community efforts to develop and promote recreation and sporting opportunities for all South Australians. Most of its community services are supplied through the South Australian Sports Institute and the South Australian Recreation Institute.

The Department administers the Racing Act and provides office accommodation for State recreation and sport associations.

South Australian Sports Institute

The main aims of the Sports Institute are the promotion and development of high performance, talent and developmental levels of sport in the State.

The Institute offers program support in the areas of sports funding, coaching, sports physiology and sport psychology.

There are 25 specific sports based at the Institute, with specialist coaches.

South Australian Recreation Institute

The Recreation Institute is responsible for promoting active recreation opportunities for the South Australian community in partnership with a wide range of community organisations.

The Institute also focuses attention on the development of the Heysen Trail and other walking trails, the Mawson Trail and other cycling trails, playground development, recreational planning, professional development, program support to State recreation associations, fitness and public information including a library service.

GAMBLING

Legal gambling in South Australia is regulated by the Lottery and Gaming Act, the Soccer Football Pools Act, the Racing Act, the State Lotteries Act and the Casino Act.

At June 1990, there were 496 Lotteries Commission agents operating (mainly from shops) and total sales of the Commission for the year were \$199.0 million. At 30 June 1990, there were 79 bookmakers and 807 clerks and agents licensed with the Bookmakers Licensing Board operating on– and off–course betting on horse racing, harness racing, greyhound racing and foot running.

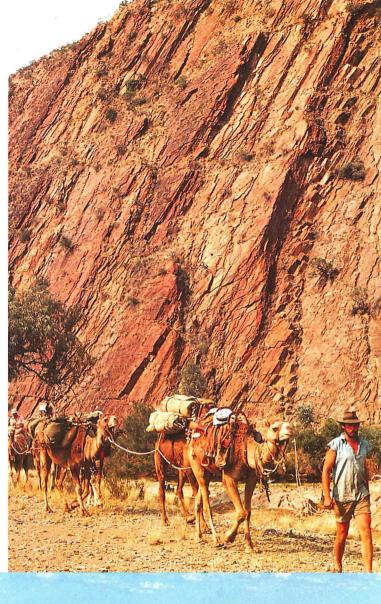
Totalisator betting takes place through the Totalizator Agency Board (TAB) and on-course totalisators operated by racing clubs. During the 1989–90 year, off-course betting was provided on galloping, harness racing and greyhound meetings. In addition, betting was provided on Australian Rules Football and the Australian Formula One Grand Prix. The following table shows turnover in 1988–89 and 1989–90 for these forms of legal gambling in South Australia.

	Turn	nover
Type of gambling	1988-89	1989–90
TAB:		
Racing codes	393.3	463.8
Other sporting events	1.6	1.8
Total TAB	394.9	465.6
On-course totalisator	65.9	71.9
On-course	150.6	141.1
Off-course	9.3	9.4
Total bookmakers	159.9	150.5

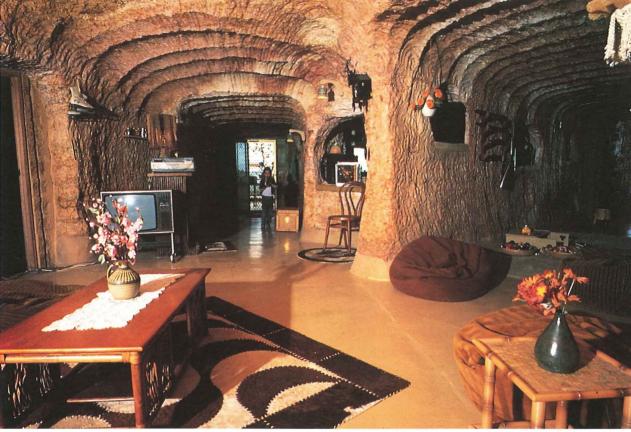
Legal Gambling Turnover, South Australia (\$ million)

Camels at Caldamuddy Cliff in Northern Flinders Ranges.

Department of Industry, Trade and Technology



Aerial view of Lake Eyre, normally a salt lake. Tourism South Australia



Underground home at Coober Pedy.

Department of Industry, Trade and Technology

Dining in the Adelaide Tramcar Restaurant.

Tourism South Australia.

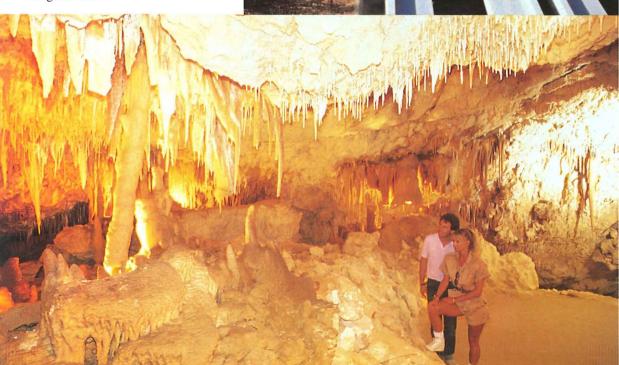


O'Bahn busway links north-eastern suburbs to the City.



Tourism South Australia

Calcite formations in the Kelly Hill Caves, Kangaroo Island.



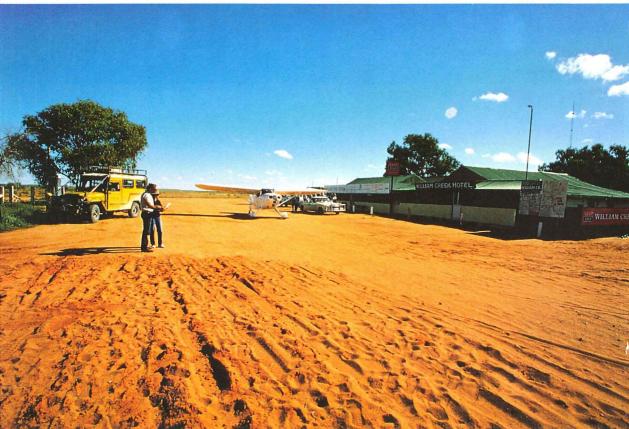


Bushwalking in Flinders Ranges.

Department of Industry, Trade and Technology

Scene in front of William Creek Hotel, in the north of the State.

Tourism South Australia



	Turr	nover
Type of gambling	198889	1989–90
Lotteries Commission:		
Instant Money Game	44.5	45.5
Saturday Cross Lotto	82.0	94.2
Wednesday Cross Lotto	35.8	40.0
Super 66	5.7	6.8
Lotteries	0.3	0.3
Lucky Dates	0.7	0.3
The Pools	0.2	2.5
Club Keno	-	9.4
Total Lotteries Commission	169.2	199.0
Small lotteries	77.3	83.4
Soccer football pools	1.3	-
Total	868.5	970.4

Legal Gambling Turnover, South Australia (continued) (\$ million)

The Adelaide Casino, opened in December 1985, is part of the Adelaide Railway Station, within a restored building and the three levels of the Casino include one hundred gaming tables.

It is operated by a company appointed by the Lotteries Commission to establish and operate a casino on its behalf. The monies received by the Commission from the Casino operator representing unclaimed prizes, licence fees and 20 per cent of net gambling revenue are paid in the proportions of one per cent to the Housing Improvement Fund with the balance to the Consolidated Account. In the year ending 30 June 1990, the amount paid to the Commission was \$16.4 million.

SPORT, CULTURE AND RECREATION – MAJOR EVENTS

A large number of sporting, cultural and recreational events take place in South Australia on a regular basis, attracting local, interstate and overseas visitors.

A round of the World Formula One Grand Prix has been held in Adelaide each year since 1985. The event is staged on a street circuit in the eastern part of the City of Adelaide and surrounding parklands, with a lap distance of 3.78 kilometres. The Australian Formula One Grand Prix is seen by some 120,000 people on the track, and by a worldwide television audience.

Other major sporting events with more local appeal include the Oakbank Race Meeting at Easter, the Adelaide Cup in May and the South Australian National Football League Grand Final in October.

While arts companies present regular seasons in Adelaide every year, the biennial Adelaide Festival of Arts and Festival Fringe attract a wide range of people to events ranging from opera, drama and comedy to music and writing.

Ethnic groups in South Australia contribute significantly to the State's cultural life through staging festivals, while the wine growing areas of the State hold various festivals based on the wine growing seasons and vintage, and regional centres have their own calendars of special events.

5.3 HEALTH

COMMONWEALTH GOVERNMENT

The Commonwealth Government has a limited role in health care and is mainly concerned with the formulation of broad national policies, the provision of benefits and grants to individuals and organisations, and the regulation of health insurance. Direct services are provided through the Repatriation General Hospital system and the Department of Community Services and Health through its Rehabilitation Units and Hearing Centres.

SOUTH AUSTRALIAN HEALTH COMMISSION

Primary responsibility for the planning and provision of health services lies with the State Government, although policy is influenced by financial arrangements between the Commonwealth and State Governments, by South Australia's budget allocations and by arrangements with local governments and voluntary and private agencies.

The Health Commission maintains, operates and assists a wide range of health services including:

- hospital services;
- mental health services;
- services for the intellectually disabled;
- drug and alcohol services;
- services for Aborigines, the aged, the physically disabled, and children and families;
- community health and health promotion services;
- public health and occupational health services.

The Public and Environmental Health Division is responsible for occupational and environmental health administration. Services which carry out these regulatory, inspectorial, licensing and monitoring functions include Epidemiology and Infectious Disease Control Services, Health Surveying Services, Occupational Health and Radiation Control Services, Pharmaceutical and Hazardous Chemical Control Services, and the licensing and inspection of private hospitals, nursing homes and rest homes.

Every local government authority is authorised under Health and Food legislation to maintain regulatory responsibility for public health in its area. The Health Commission has general responsibility for the public health of the entire State.

HEALTH SERVICES

HOSPITALS

The control of hospitals in South Australia is vested in several authorities, including the South Australian Health Commission, the Commonwealth Department of Veterans Affairs, religious and charitable organisations, local community committees and private owners.

The following table shows the details of number of hospitals, hospital beds and separations from 1987–88 to 1989–90. Separations occur when an inpatient or same day patient leaves hospital to return home, transfer to another hospital or die at the hospital; for psychiatric hospitals, however, the figures refer to admissions.

Hospital	1987–88	1988–89	1989–90
Public:			
Recognised;			
Number	81	81	79
Average no. of beds available	5,653	5,465	5,420
Separations	249,199	258,035	264,842
Commonwealth;			
Number	2	2	2
Approved beds	350	351	335
Separations	r8.892	9.675	9,854
	10,072	2,015	5,051
Psychiatric;			
Number	2	2	2
Average no. of beds available	787	776	742
Separations	4,282	4,528	4,652
Private:			
General;			
Number	34	34	33
Approved beds	r2.047	2.048	2,048
Separations	r100.269	102,721	107,519
oopuluiono	1100,200	102,721	107,019
Psychiatric;	_		
Number	3	4	4
Approved beds	131	208	208
Separations	r2,089	1,696	4,914
Total:			
Number	122	123	120
Separations	r364.731	376.655	391.781
Separations per 1,000 of estimated resident population	261.5	264.4	273.7
Separations per 1,000 of commence resident population	201.5	204.4	215.7

Summary of Hospital Statistics

The following table shows selected staff and activity statistics for these hospitals.

Selected Staff and Activities

Item	1987–88	1988–89	1989-90
Average staff employed (a) Occupied bed days ('000) Bed occupancy rate (per cent) Mean length of stay (days)	16,705.5	16,591.1	17,377.8
	2,058	2,074	2,103
	70.8	73.1	73.9
	5.7	5.3	5.4

(a) Excludes private hospitals.

Recognised Hospitals

Recognised hospitals are those recognised under the Medicare agreement between the Commonwealth and State Governments in relation to the provision of hospital services. The agreement provides for financial assistance towards comprehensive hospital care, including medical treatment for eligible persons.

Of the recognised hospitals sixty-eight are located outside the Adelaide Statistical Division, providing services to local communities from Mount Gambier in the south east, to Oodnadatta in the north, and as far west as Cook. An increasing number of these hospitals are providing services, including nursing home care, to local communities.

Of the 13 recognised metropolitan hospitals, five are teaching hospitals through association with a university medical school. These hospitals offer the super–specialities traditionally located at only one or two hospitals in each State (*e.g.* intensive care, burns units, cardiac surgery and neonatr intensive care). Recognised hospitals also provide State–wide services for casualty patients.

Private Hospitals

At 30 June 1989 there were 38 private hospitals with 2,256 beds operating within South Australia, either as profit making ventures, or run by charitable or community organisations. Thirty of these hospitals are located within metropolitan Adelaide while the remaining seven are in country areas.

Four of the metropolitan hospitals provide psychiatric care, one specialising in the treatment of adolescents. The remaining are general hospitals and offer a range of medical, surgical and obstetric services.

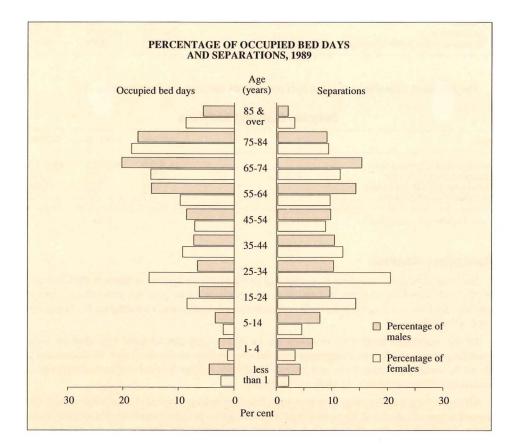
Repatriation Hospitals

The Department of Veterans' Affairs maintains the Repatriation General Hospital, a Hospice Centre and Day Hospital at Daw Park. Medical, surgical and psychiatric in-patient and out-patient treatment is provided for eligible ex-service personnel, eligible dependants, serving members of the forces and, under certain conditions, for non-eligible ex-service personnel and civilians.

The Repatriation Artificial Limb and Appliance Centre, also at Daw Park, serves disabled members of the community under the Commonwealth Free Limbs Scheme.

Recognised and Private Hospital Separations

The remaining commentary and data in this section relate to separations from recognised and private hospitals only.



			Ag	e (years)				
Principal diagnosis	0-4	5–14	15–24	25–44	45-64	65–74	75 and over	Total (a)
Infectious and parasitic diseases	1,509	650	915	1,000	560	330	414	5,381
Neoplasms	238	430	655	3,496	6,718	4,571	3,555	19,676
diseases and immunity disorders Diseases of the blood and	220	262	362	880	1,041	716	810	4,293
blood-forming organs	86	261	248	466	690	640	930	3,322
Mental disorders Diseases of the nervous system	54	194	859	2,681	1,745	802	1,228	7,571
and sense organs	4,127	2,829	1,017	2,857	3,489	3,066	3,794	21,193
Diseases of the circulatory system	71	82	293	2,718	9,477	7,975	8,497	29,156
Diseases of the respiratory system	8,034	5,714	2,809	4,016	3,973	3,179	3,460	31,199
Diseases of the digestive system	3,341	2,129	6,538	10,118	10,443	5,278	4,486	42,348
Diseases of the genitourinary system . Complications of pregnancy, childbirth	574	667	2,824	10,691	7,331	2,745	1,959	26,796
and the puerperium Diseases of the skin and subcutaneous	3	61	11,318	22,530	34	-	-	33,996
tissue Diseases of the musculoskeletal	339	492	1,188	1,815	1,466	829	939	7,071
system, and connective tissue	206	742	3,161	9,071	7,675	3,309	2,434	26,608
Congenital anomalies Conditions arising in the perinatal	1,304	663	334	320	156	87	46	2,911
period Symptoms, signs and ill-defined	3,012	6	9	9	1	1	-	3,040
conditions	2,424	1.415	2,161	4,864	5,532	2,849	2,791	22,049
Injury and poisoning	1,973	3,848	7,068	8,917	4,421	2,422	3,575	32,279
Supplementary (b)	1,266	1,220	2,476	11,733	10,753	8,741	4,332	40,560
Total principal diagnoses (c)	28,823	21,697	44,341	98,484	75,677	47,654	43,368	360,329

Separations, Principal Diagnosis By Age, 1989

(a) Includes separations for patients whose age is not known.

(b) Includes haemodialysis treatment.

(c) Includes separations for patients whose principal diagnosis is not known.

From the table it can be seen that as people age they are more likely to require hospital services. This phenomenon is particularly noticeable for inpatients whose principal diagnosis is related to diseases of the circulatory system or neoplasms.

Of the 360,329 inpatient separations included in the previous table, 183,356 (50.9 per cent) involved at least one surgical procedure. Details of principal procedures performed by length of stay of patient in hospital are shown in the following table. It should be noted that haemodialysis has not been included in operations on the cardiovascular system.

Separations, Principal Surgical Procedures by Length of Stay, 1989

	Length of stay								
Principal procedure	Same day discharge	1 to 2 days	3 to 4 days	5 to 7 days	8 to 14 days	15 to 35 days	Over 35 days	Total	
Surgical procedures:									
Nervous system	2,027	2,257	758	836	1,030	409	111	7,428	
Endocrine system	3	17	68	192	73	13	4	370	
Eyes	2,540	2,594	1,607	654	293	83	. 29	7,800	
Ear	3,685	1,604	641	187	56	20	8	6,201	
Nose, mouth, pharynx	3,736	9,861	3,418	650	214	90	26	17,995	
Respiratory system	299	964	428	332	618	345	95	3,081	
Cardiovascular system	335	794	1,406	786	2,168	706	136	6,331	
Haemic and lymphatic systems	279	246	157	155	209	168	42	1,256	
Digestive systems	15,458	4,782	4,447	5,043	4,710	1,880	339	36,659	
Urinary tract	1,123	3,024	1,066	893	908	357	60	7,431	
Male genital organs	2,379	1,446	918	933	482	164	26	6,348	
Female genital organs	5,926	8,069	1,081	2,031	2,627	257	28	20,019	
Obstetric procedures	3,887	2,164	3,688	8,579	3,921	409	60	22,708	
Musculoskeletal system	2,467	11,598	4,326	2,994	3,002	1,691	357	26,435	
Breast	255	911	630	340	351	72	8	2,567	
Skin and subcutaneous tissue	3,326	3,703	1,265	863	856	563	151	10,727	
Total	47,725	54,034	25,904	25,468	21,518	7,227	1,480	183,356	

The more frequent procedures included operations on the digestive system (20.0 per cent of total procedures); operations on the musculoskeletal system (14.4 per cent); obstetric procedures (12.4 per cent), and operations on the female genital organs (10.9 per cent).

The average length of stay, as measured by the mean, was 3.9 days. However, the median length of stay, which more closely approximates a typical case, was 2.3 days. The principal procedures which were associated with median stays in hospital of more than 5 days included operations on the cardiovascular system and on the endocrine system, and obstetric procedures.

NURSING HOMES

There are four State–funded nursing homes operating in South Australia, with the Julia Farr Centre at Fullarton being the largest of these. It provides accommodation and nursing care for those suffering from chronic disablement or disease.

A further 158 nursing homes run by non–government groups provide an additional 6,538 nursing home places throughout the State. These largely cater for aged care, however there are a number which offer care for disabled persons.

MENTAL HEALTH SERVICES

Hillcrest and Glenside Hospitals are specifically psychiatric hospitals, but four recognised hospitals (Royal Adelaide, Queen Elizabeth, Modbury and Flinders Medical Centre) also operate psychiatric units. Four private hospitals operate as psychiatric hospitals. Hillcrest and Glenside Hospitals provide in-patient, out-patient and day-patient services as well as crisis intervention.

Close relationships have been established between the psychiatric hospitals and the community mental health clinics and services. The work of the two community clinics – Carramar and Beaufort – has increased in volume and scope, with higher numbers of out–patient and day–patient attendances. The Child and Adolescent Mental Health Service operates from the Adelaide Children's Hospital and Flinders Medical Centre.

The rate of hospitalisation of seriously mentally ill people is very low in South Australia by national and international standards. Gradually increasing community supports have provided new opportunities for people to live in the community where this used to be impossible.

SERVICES FOR THE INTELLECTUALLY DISABLED

The separation of services for the intellectually disabled from services for the mentally ill is well established in South Australia. The Intellectually Disabled Services Council, which is incorporated under the South Australian Health Commission Act, is responsible for planning and monitoring services for people with intellectual disabilities. Services are provided by Strathmont Centre, Minda Inc. and community services.

DRUG AND ALCOHOL SERVICES

Services for people experiencing drug and alcohol related problems are provided by the Drug and Alcohol Services Council (DASC). DASC is a State–wide organisation offering a range of preventative and treatment services. DASC also funds a number of non–government agencies to provide such services.

DASC undertakes community education programs on drug and alcohol issues and has a specialist library that is available to the general public. DASC's Monitoring, Evaluation and Research Unit provides statistical and research–based information on drug and alcohol use in the community and related issues.

COMMUNITY HEALTH

Since the early 1970s there has been a shift towards community based health care and service provision. This has continued with programs and services based upon four key principles:

- illness prevention and promotion of good health;
- promotion of equity in health status and access to services;
- · coordination of local agencies; and
- promotion of community participation in decision making on health service matters.

Community Health Services and Centres

There are in excess of 50 community health centres and services located within South Australia. They provide a range of services including counselling, health promotion and education, home nursing and dental services.

Most centres are concerned primarily with improving the health status of a specific local community or a target group through illness prevention and health education, however there are a number which provide general services to the South Australian community.

Domiciliary Care Services

Domiciliary Care Services were originally started in this State with the Woodville Domiciliary Care Service (later Western Regional Domiciliary Care Service) in July 1971. In 1989, 4 metropolitan and 14 country services operated within South Australia. In addition, a number of health care units throughout the State provided home based health care services. These included hospitals (through their outreach services) and community health centres and services.

At 30 June 1989 the Domiciliary Care Services had over 23,000 active clients registered, and in . 1988–89 616,000 client contacts were undertaken. The professional staff and paramedical aides offer the following range of services:

- geriatric consultation
- psychiatric consultation
- personal care
- home help
- respite care and sitter services
- · artisans for minor home modifications
- provision of equipment and aids
- home dental care through the State Dental Service
- home nursing and terminal care in cooperation with the Royal District Nursing Society.

The Geriatric Assessment Program of the Commonwealth Department of Community Services and Health is funding the development of geriatric assessment teams which will undertake comprehensive, multi-disciplinary assessment of people requesting nursing home entry. In South Australia, these teams are associated with the Domiciliary Care Services, to ensure that people not approved for entry to a nursing home will receive the Domiciliary Care Services necessary to enable them to continue to live in their own private accommodation.

CHILD, ADOLESCENT AND FAMILY HEALTH SERVICES

The Child, Adolescent and Family Health Service (CAFS) is an incorporated unit of the South Australian Health Commission, and offers a State–wide health service for children and families. CAFS programs may be divided into three groups.

The first group consists of the universal, or primary programs which are direct services available to all children, and are staffed by nurses. This group includes the Telephone Advisory Service; Health Surveillance (0–4 years); Parent Education; School Entry Screening, and High School Screening programs.

The second group contains the targeted, or secondary programs, provided for a limited number of identified children or other clients, and staffed by employees from several disciplines. Such services as the Hearing Assessment Centre, and the Hills Childhood Development, Medical Assessment, Community Outreach, and Priority Schools programs are included in this group.

The third group is the Special Resource programs, which are available only to selected clients, are centrally located, and are staffed by specialist staff from many disciplines. Special Resource programs include Torrens House Inpatients, Child Health Resource Unit, and the Adolescent Health Resource Unit.

SERVICES FOR WOMEN

The South Australian Health Commission has established four Women's Health Centres in the metropolitan area. These Centres are involved in health education and promotion, self-help, and information dissemination, and offer a limited, alternative gynaecologically-based health service.

ABORIGINAL HEALTH

The Aboriginal Health Organisation (incorporated under the South Australian Health Commission Act) is responsible for health and related services for those Aboriginal people in South Australia who do not receive services from an autonomous, community–controlled Aboriginal health service. The Organisation also provides training for Aboriginal people in health promotion and prevention programs, with the aim of equipping them to meet the health needs of their people.

The Nganampa Health Council was the first State-supported independent medical service for Aboriginal people, and covers the Pitjantjatjara Homelands in the north-west of South Australia. Pika Wiya Health Service Inc. is an independent medical service for Aboriginal people living in the Port Augusta-Davenport region.

DENTAL HEALTH SERVICES

Government funded dental services for school children, pensioners and disadvantaged persons are the responsibility of the South Australian Dental Service. The School Dental Service offers care to all pre–school, primary, and secondary school children in the State. The service continues until the children turn 18, while they are still at school.

The Adelaide Dental Hospital, which is the only dental teaching hospital in the State, is a major public facility for the treatment of pensioners and other social welfare beneficiaries. General dental care for pensioners and beneficiaries is also available from public dental clinics throughout the metropolitan area and in major country centres.

OTHER HEALTH SERVICES

A number of independent organisations provide important health services in South Australia, and many of these organisations receive major support in the form of government grants.

Red Cross Blood Transfusion Service

The Red Cross Blood Transfusion Service collects and processes blood at the Service's centre in Adelaide, through a mobile unit which visits metropolitan and country centres, and at regional

centres. Blood donations collected by the Service are used for emergency and routine needs and stored at major and subsidiary bloodbanks at metropolitan hospitals and regional blood transfusion centres. All donor blood is tested, including screening for the Acquired Immune Deficiency Syndrome (AIDS) associated viral antibody HIV–1, hepatitis B and hepatitis C.

Home Nursing

The Royal District Nursing Society (RDNS) provides comprehensive home nursing care, and has the equivalent of 286 full-time registered nurses.

Services include care for and reassurance of the sick, aged, frail and disabled, and the provision of advice to carers. During 1989–90 the Society made a total of 412,369 home visits (15 per cent more than in the previous year), with a monthly average of 4,527 clients. It operates 191 motor vehicles.

From May 1989 Commonwealth funding through Medicare has enabled the RDNS to provide 24–hour care for particular categories of clients, including the terminally ill.

The RDNS has its administrative headquarters in Adelaide and operates regional and district centres in metropolitan and country areas. Its main source of funding is through the Home and Community Care Program, with additional grants from the Medicare Agreement and the South Australian Health Commission. Donations from clients and the community, and the financial contribution by RDNS branch committees, service clubs and local government provide additional funds to support the Society's services.

Royal Flying Doctor Service of Australia

The Royal Flying Doctor Service (Central Section) is responsible for the aviation management of all aero medical retrieval and air ambulance aircraft in South Australia. It also provides an aerial medical service on a routine and emergency basis to remote areas of South Australia and the southern half of Northern Territory, covering an area of some 2.2 million square kilometres. It has control bases at Port Augusta and Alice Springs.

The Royal Flying Doctor Service provides an important communication link to people living, working and touring in outback Australia.

St John Ambulance Australia South Australia Inc.

St John Ambulance Australia South Australia Inc. provides the ambulance service for the State operating from bases throughout the metropolitan and country areas, as well as operating air ambulances jointly with the Royal Flying Doctor Service.

St John also provides voluntary first aid services at numerous functions throughout the State, and performs important first aid training to the general public and industry.

Other Health Services

Important services are also provided by other independent health-related organisations such as the National Heart Foundation, the Anti-Cancer Foundation, and the Family Planning Association.

PUBLIC HEALTH

The Public and Environmental Health Division of the South Australian Health Commission is concerned with the prevention and control of disease, illness and injury, and the promotion of health of South Australians. The service is comprised of a number of specialist operational units which monitor health status, plan and deliver programs to reduce illness and injury, and monitor and control environmental and other factors affecting health.

Environmental Health Branch

This branch is concerned with such aspects of public health as water and food supply, shelter, disease vectors, hazardous substances and waste disposal. It also administers legislation and provides education and advice on drugs of addiction; medicinal, domestic, industrial and agricultural poisons; pest control activities; and therapeutic substances and devices.

Radiation Protection Branch

This branch provides a consultancy and advisory service, carries out education and training and conducts research and promotion in radiation protection matters. It administers the Radiation Protection and Control Act.

Sexually Transmitted Disease Services

This service has, in addition to clinical service and epidemiological surveillance and analytical roles, responsibility for prevention and education with regard to sexually transmitted diseases including HIV (AIDS).

Breast X-ray Service

This service coordinates mammographic screenings and assessment for the early detection and treatment of breast cancer in women aged over 40 years.

Termination of Pregnancy

In South Australia, legal termination of pregnancy for specified medical and related conditions requires certification of the grounds for termination usually from two legally qualified medical practitioners, one of whom performs the operation. All such operations are required to be performed in hospitals prescribed for this purpose. Terminations are notified to the Health Commission, and the following table shows the number of terminations by age group for the years 1984 to 1988.

-				
1984	1985	1986	1987	1988
37	26	27	20	20
1,085	993	1,101	1,008	1,005
1,269	1,243	1,328	1,341	1,235
794	877	873	877	906
504	514	577	596	647
308	331	319	294	347
86	88	90	86	94
8	9	8	5	1
_		_	_	_
4,091	4,081	4,323	4,227	4,255
	37 1,085 1,269 794 504 308 86 8 8	37 26 1,085 993 1,269 1,243 794 877 504 514 308 331 86 88 8 9	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Epidemiology Branch

In broad terms the Epidemiology Branch is responsible for monitoring the health status of the South Australian population and for control measures to improve health, giving priority to:

- immunisation;
- responding to outbreaks or clusters of infectious diseases, cancers, birth defects, fetal deaths and other outcomes of pregnancy;
- injury prevention;
- cancer prevention, screening for early detection and providing support services to improve treatment and palliative care;
- advancing the antenatal, neonatal, and postnatal health of SA babies, especially with respect to Aboriginal people, home births and other births potentially at risk.

Diseases	1985	1986	1987	1988	1989
Acquired Immune Deficiency Syndrome (AIDS) (b)	1	4	11	18	24
Amoebiasis	10	14	17	38	29
Ankylostomiasis	27	26	34	17	17
Arbovirus infection	1	1	2	8	115
Atypical mycobacterium infections	21	30	19	23	40
Bacterial meningitis	(c)	(c)	28	43	41
Brucellosis	-	_	1	1	1
Campylobacter infection	1,241	1,454	1,642	1,560	1,501
Chlamydia trachomatis	(c)	(c)	(c)	(C)	1,546
Congenital rubella	2	_	1	_	-
Crimean–Congo haemorrhagic fever	(c)	(c)	(c)	-	-
Food poisoning	_	_	1	10	15
Giardiasis	734	825	887	967	972
Gonococcal ophthalmia neonatorum	_	_	1		-
Gonorrhoea	631	680	546	267	200
Hepatitis A	141	510	145	101	36
Hepatitis B	182	122	76	43	48
Hepatitis uspecified	2	23	15	11	4
Hydatid disease	-	4	3	2	3
Legionnaires disease	4	28	5	26	13
Leprosy	1	_		1	_
Leptospirosis	9	5	4	6	5
Malaria	46	33	45	30	34
Measles	(c)	(C)	37	14	16
Meningococcal infection	9	7	17	29	27
Ornithosis	7	25	8	7	18
Pertussis (whooping cough)	136	164	61	57	136
Qfever	53	49	18	21	21
Rabies	(c)	(c)		-	-
Rubella	328	270	387	216	858
Salmonella infections	391	361	343	398	531
Shigella infections	84	71	61	53	75
Syphilis	223	141	102	92	55
Tetanus	4	1	1	2	_
Trachoma	-	-	62	130	62
Tuberculosis	98	78	75	72	83
Typhoid	_	1	2	_	5
Typhus	-	_		1	_
Vibrio Parahaemolyticus infection	_	1		-	2
Yersinia infections	10	12	10	44	125

Infectious and Notifiable Diseases : Cases Notified^(a), South Australia

(a) Cases notified may not reflect the actual number of occurrences of the disease in the population. (b) Data for AIDS pertain to clinical disease in Category A. Data for AIDS – Related Complex and Lymphadenopathy Syndrome are not included. (c) Not notifiable.

Health Promotion Projects Unit

The Unit undertakes research, development and coordination to address priority areas of preventable ill-health. The current priority areas are tobacco control, high blood pressure and safe sex.

DISABLED AND HANDICAPPED PERSONS

An ABS survey conducted in 1988 collected information about disabled and handicapped persons in Australia. The survey defined a disabled person as one who had a disability or impairment which had lasted or was likely to last for six months or more. Some examples of disabilities and impairments included in the survey are: loss of sight (even when wearing glasses or contact lenses); loss of hearing; blackouts and fits; slowness at learning or understanding; incomplete use of arms or legs; and restrictions in engaging in physical activities. A handicapped person was defined as a disabled person who was limited in his/her ability to perform certain tasks. These were tasks associated with:

- self-care (showering, bathing, eating, dressing);
- mobility (difficulties in using public transport, moving about at home, walking 200 metres, climbing stairs);
- verbal communication (difficulties in understanding a person or being understood);

- schooling (attending a special school, having difficulties at school because of a disabling condition etc.); and
- employment (permanently unable to work, restricted in the type of work, often needed time off work etc.).

			Tota	1
Particulars	In households	In health establish– ments	Number	Per cent (a)
H	HANDICAPPED)		
Sex:				
Males	85,600	5,500	91,200	13.1
Females	85,800	11,700	97,500	13.9
Age (years): 0–4	4.600	*	4,600	4.6
5–14	9,500	200	9,700	5.0
15–44	44,600	1,700	46,400	7.1
45-64	54,900	1,300	56.200	20.4
65 and over	57,800	13,900	71,800	42.0
Total handicapped persons	171,500	17,200	188,700	13.5
A she diana (1)	<u></u>			
Area of handicap (b): Self–care	66,300	14,900	81,300	6.3
Mobility	130,900	17,000	147,900	11.4
Communication	23,900	9,700	33,600	2.6
Schooling	10,200	600	10,800	0.8
Employment	85,700		85,700	6.6
TC	TAL DISABLE	D		
Sex: Males	98,700	6,000	104,700	15.1
Females	98,300	12,000	110,300	15.7
Age (years):	90,500	12,000	110,500	15.7
0–4	4,600	*	4,600	4.6
5–14	10,700	200	10,900	5.6
15–44	54,200	1,900	56,200	8.6
45–64	60,700	1,700	62,300	22.7
65 and over	67,000	14,200	81,000	47.4
Total disabled persons	197,100	18,000	215,000	15.4
Tune of primary disabling condition (a) :				
Type of primary disabling condition (c): Mental disorders	20,700	6,400	27,000	1.9
Sight loss	20,700 9,400	800	10,200	0.7
Hearing loss	23,300	400	23,700	1.7
Nervous system diseases	12,000	2,400	14,400	1.0
Circulatory diseases	22,600	2,000	24,500	1.8
Respiratory diseases	15,500	700	16,300	1.0
Diseases of the musculoskeletal	,0		, 0	
	61,600	3,000	64,600	4.6
system and connective tissue	01,000	5,000	04,000	4.0

Disabled and Handicapped Persons : Summary Characteristics South Australia, 1988

(a) Per cent of total population in same group. (b) Only collected for handicapped persons aged five years or more. (c) For persons with multiple conditions, this is the condition causing the most problems. However, persons with both a mental disorder and a physical condition are counted twice.

The survey showed that there were 215,000 disabled persons in South Australia, of whom 188,700 (87.8 per cent) were also handicapped. Less than 10 per cent of these persons lived in health establishments.

The most common disabilities were mental disorders, hearing loss, circulatory diseases (about half being heart disease), and diseases of the musculoskeletal system and connective tissue (over 80 per cent being arthritis and disorders of the back).

Of those aged five years or more who were handicapped about four-fifths had a mobility problem. Over two-fifths had a self-care handicap while a similar proportion were limited in the type of employment they could undertake.

MORTALITY

CAUSES OF DEATH

Causes of death in South Australia are classified according to the *International Classification of Diseases, Ninth Revision* (ICD9). Figures for deaths in this section are based on the State or Territory of usual residence of the deceased and relate to the date of registration of death, not the date of occurrence. Australian residents who die overseas are excluded from the figures, but deaths of persons usually resident overseas are included in the figures of the State or Territory where the death occurred.

Causes of Death^(a), South Australia, 1989

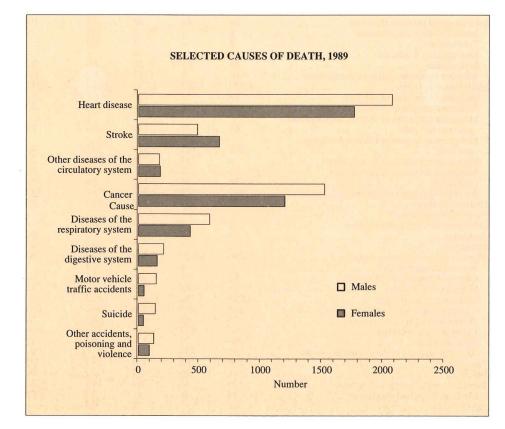
	N	umber of de	eaths	-	Proportion
Cause of death	Males	Females	Persons	Rate (b)	of total deaths
				persons	per cent
Infectious and parasitic diseases:	29	18	47	3.3	0.4
Intestinal infectious diseases	1	-	1	0.1	_
Tuberculosis	3		3	0.2	_
Meningococcal infection	_	-			_
Septicaemia	15	11	26	1.8	0.2
All other infectious and parasitic diseases	10	7	17	1.2	0.1
Malignant neoplasms:	1,530	1,207	2,737	192.3	24.1
Malignant neoplasm of stomach	79	51	130	9.1	1.1
Malignant neoplasm of colon	114	122	236	16.6	2.1
Malignant neoplasm of rectum, rectosigmoid	114	122	230	10.0	2.1
ination and anus	69	47	116	8.1	1.0
junction and anus	09	47	110	0.1	1.0
Malignant neoplasm of trachea, bronchus	207	107	600	267	
and lung	386	137	523	36.7	4.6
Malignant neoplasm of female breast		234	234	16.4	2.1
Malignant neoplasm of cervix uteri		35	35	2.5	0.3
Leukaemia	71	54	125	8.8	1.1
All other malignant neoplasms	811	527	1,338	94.0	11.8
Diabetes mellitus	93	99	192	13.5	1.7
Nutritional marasmus	1		1	0.1	_
Other protein–calorie malnutrition	1	2	3	0.2	
Anaemias	6	12	18	1.3	0.2
Meningitis	2	5	7	0.5	0.1
Diseases of the circulatory system:	2,790	2,659	5,449	382.8	48.0
Acute rheumatic fever	_	1	1	0.1	
Chronic rheumatic heart disease	12	26	38	2.7	0.3
Hypertensive disease	56	58	114	8.0	1.0
Ischaemic heart disease;	1,807	1,386	3,193	224.3	28.1
Acute myocardial infarction	1,284	987	2,271	159.6	20.0
Other ischaemic heart disease	523	399	922	64.8	8.1
Cerebrovascular disease	495	673	1,168	82.1	10.3
Atherosclerosis	45	79	1,103	8.7	10.5
All other diseases of the circulatory system	375	436	811	57.0	7.1
	146	186	332	23.3	
Pneumonia	140	20	332 31	23.3	2.9
Influenza					0.3
Bronchitis, emphysema and asthma	126	75	201	14.1	1.8
Ulcer of stomach and duodenum	47	44	91	7.3	0.9
Appendicitis	2		2	0.1	_
Chronic liver disease and cirrhosis	64	30	94	6.6	0.8

	Ν	umber of de	aths	D	Proportion
Cause of death	Males	Females	Persons	Rate (b)	of total deaths
				persons	per cent
Nephritis, nephrotic syndrome and nephrosis	56	53	109	7.7	1.0
Hyperplasia of prostate	3		3	0.2	_
Direct obstetric deaths	—		-	-	-
Congenital anomalies	27	27	54	3.8	0.5
Certain conditions originating in the perinatal period: Hypoxia, birth asphyxia and other	40	32	72	5.1	0.6
respiratory conditions	19	8	27	1.9	0.2
Other conditions originating in the perinatal period	19	24	43	3.0	0.4
Signs, symptoms and ill–defined conditions	26	33	59	4.1	0.5
All other conditions	655	540	1,195	83.9	10.5
Accidents and adverse affects:	281	149	430	30.2	3.8
Motor vehicle traffic accidents	156	59	215	15.1	1.9
Accidental falls	23	43	66	4.6	0.6
All other accidents	102	47	149	10.5	1.3
Suicide	150	52	202	14.2	1.8
Homicide	11	6	17	1.2	0.
All other external causes		4	4	0.3	-
All causes	6,094	5,254	11,348	797.3	100.0

Causes of Death^(a), South Australia, 1989 (continued)

(a) The classification uses the *Mortality List of Fifty Causes* recommended by ICD 9.(b) The number of deaths by specified cause per 100,000 of mean resident population.

NOTE: There were no deaths recorded in 1989 to whooping cough, tetanus, smallpox, measles, malaria or abortion.



In 1989, the three leading causes of death were ischaemic heart disease, malignant neoplasms (cancer) and cerebrovascular disease (stroke). The proportions of deaths from the various causes are related to the age composition of the population, and there are marked differences in main causes of death by age and sex.

PERINATAL DEATHS

Perinatal deaths comprise *fetal deaths* (any child born weighing at least 500 grams at delivery or, when birthweight is unavailable, of at least 22 weeks gestation, which did not at any time after being born, breathe or show any other sign of life) and *neonatal deaths* (any child weighing at least 500 grams at delivery or, when birthweight is unavailable, of at least 22 weeks gestation, who was born alive and died within 28 days of birth).

Causes of Perinatal Deaths : Condition in Child by Condition in Mother South Australia, 1989

		Condition in mother								
Condition in child	Maternal conditions which may be unrelated to present pregnancy	Maternal complications of pregnancy	Complications of placenta, cord and membranes	Other complications of labour and delivery	No condition reported	Total				
Slow fetal growth, fetal malnutrition										
and immaturity	5	4	5	-	6	20				
Birth trauma	-		-	-	2	2				
Intrauterine hypoxia and birth asphyxia	2	1	19	-	19	41				
Respiratory distress syndrome Other respiratory conditions of	2	. 1	1	-	2	6				
fetus and newborn	-	3	-	-	4	7				
Fetal and neonatal haemorrhage Other conditions originating in the	1	-	6	-	10	17				
perinatal period	7	5	18	-	46	76				
Congenital anomalies	3	4	1	-	19	27				
All other causes	_	_	_	_	3	3				
Total perinatal deaths	20	18	50	_	111	199				

Further information on death statistics is included in Part 4.5 Births and Deaths.

LIFE EXPECTANCY

Life expectancy is the expected years of life remaining to a person of specified age if present patterns of mortality do not change during that lifetime. Life expectancy tables provide a useful indicator of long-term changes in health status.

Expectation of Life^(a), South Australia

At age (years)									
Period	0	10	20	30	40	50	60	70	80
			MALE	S					
1984 1985 1986 1987 1988 1988	72.95 73.14 73.45 73.47 73.59 73.73	63.87 64.12 64.33 64.43 64.50 64.50	54.22 54.53 54.72 54.87 54.94 54.88	44.81 45.22 45.36 45.50 45.61 45.52	35.36 35.72 35.94 35.95 36.12 36.07	26.14 26.54 26.79 26.73 26.94 26.81	18.05 18.33 18.57 18.50 18.54 18.44	11.34 11.64 11.68 11.62 11.84 11.42	6.58 6.66 6.52 6.55 6.88 6.54

				At age	(years)				
Period	0	10	20	30	40	50	60	70	80
			FEMAL	ES					
1984 1985 1986	79.79 79.08 79.81	70.50 70.07 70.44	60.66 60.25 60.69	50.87 50.59 50.98	41.16 40.86 41.29	31.75 31.55 31.83	22.87 22.70 22.98	14.99 14.56 15.00	8.39 8.25 8.64
1987 1988 1989	80.04 80.27 79.72	70.81 70.92 70.52	60.97 61.09 60.68	51.19 51.32 50.98	41.52 41.58 41.30	32.13 32.09 31.88	23.17 23.14 23.00	15.19 15.17 15.07	8.67 8.48 8.55

Expectation of Life^(a), South Australia (continued)

(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 longer term trend.

OCCUPATIONAL HEALTH AND SAFETY

LEGISLATION

The provisions of the Occupational Health, Safety and Welfare Act 1986, which replaced the Industrial Safety, Health and Welfare Act 1972, took effect on 30 November 1987 and apply to all workers in South Australia, with the exception of Commonwealth Government employees who are provided for under the separate Commonwealth legislation. The Act sets out the rights and responsibilities of employers and employees, and is designed to encourage their involvement in achieving and maintaining a safe and healthy workplace. The South Australian Occupational Health and Safety Commission was established as a statutory, tripartite body under the Act.

The Commission provides a forum for representatives of employers, unions and Government organisations to develop occupational health and safety standards, formulate policies and strategies, promote awareness of occupational health and safety and to report and make recommendations to the Minister about the administration of the Act and other legislation relating to occupational health, safety and welfare.

The legislation emphasises the elimination of hazards at their source; establishes clearly the duties of employers, self–employed and employees, manufacturers and designers; provides for workers, elected health and safety representatives with statutory powers and functions and for joint health and safety committees; extends the powers of inspectors and establishes procedures for the resolution of health and safety issues in the workplace. Other legislation governing health and safety includes the *Boilers and Pressure Vessels Act 1968*, the *Dangerous Substances Act 1979*, the *Mines and Works Inspection Act 1920*, the *Explosives Act 1936*, the *Radiation Protection and Control Act 1982*, and the *Controlled Substances Act 1984*.

WORKERS COMPENSATION

The Workers Compensation Act 1971 was repealed by the Workers Rehabilitation and Compensation Act 1986 which established a new authority – the Workers Rehabilitation and Compensation Corporation, 'WorkCover'. The Act, which came into operation on 30 September 1987, covers all persons employed under a contract of service, or who work for other persons under a contract arrangement or understanding in prescribed work of a prescribed class. The Crown is the presumptive employer of persons who voluntarily perform work of a prescribed class that is of benefit to the State.

The Act does not cover Commonwealth Government employees, who are provided for under the *Compensation (Commonwealth Government Employees) Act 1971*, or persons sustaining injuries from certain sporting or athletic events. Because of the provisions of the 1986 Act, it is expected

that claims under common law will be reduced compared with levels which occurred under the previous Act.

The Act places strong emphasis on rehabilitation as well as providing entitlement to weekly income payments. These payments are calculated on the basis of the worker's average weekly earnings as defined in the Act, and are 100 per cent of this amount in the first year, reducing to 80 per cent in the following years. The employer pays an injured worker for the first week's absence in each calendar year unless the injury was incurred under specified circumstances or the employer was insured against this liability. Death benefits are payable in the event of fatal accidents or diseases.

Compensation is funded by a levy on all non-exempt employers based on percentages of the aggregate remuneration paid to the employer's workers. Levels set by the Act had ranged to a maximum of 4.5 per cent but this was increased from 1 July 1990 to a maximum of 7.5 per cent. The percentage levied depends on the predominant class of industry in which the employer is engaged, but this percentage may be adjusted, depending on the employer's record with regard to health and safety, under a bonus/penalty scheme, also introduced fromm 1 July 1990. Exempt employers are self-funded.

Some statistics on employment injuries and diseases are included in the WorkCover Annual Report for the year ended 30 June 1990. For data for years prior to WorkCover, refer to previous issues of this publication.

5.4 SOCIAL WELFARE

The Commonwealth, State and Local Governments and a large number of voluntary agencies provide social welfare services for South Australians. The Commonwealth Government is concerned largely with providing income maintenance in the form of pensions, benefits and allowances, and repatriation services. It also provides, either directly or through State and local government authorities and voluntary agencies, for a wide range of welfare services for people with special needs. The Department for Family and Community Services is the main State agency and operates in the field of child and family welfare and distributes emergency financial assistance in certain circumstances. Local government and voluntary agencies, many of which receive government funding, also provide a range of welfare–related services.

COMMONWEALTH SOCIAL SECURITY

The Department of Social Security is responsible under the *Social Security Act 1985* (Cwlth) for social security entitlements and related services.

Pensions

The Department of Social Security pays the following pensions subject to income and assets tests and certain residential requirements:

- age pension;
- invalid pension;
- wife's pension;
- carer's pension;
- widow's pension;
- sole parent's pension and sheltered employment and rehabilitation allowances (under conditions similar to those applying to pensions).

Eligible recipients of these payments may receive additional amounts for each dependent child, or for rent assistance or an allowance for remote areas. Pension rates are subject to twice-yearly indexation in accordance with increases in the Consumer Price Index.

	At 30 June							
Type of pension	1987	1988(a)	1989	1990				
Age pension	133.621	136,663	137,922	138,705				
Invalid pension	29,610	31,187	32,037	32,861				
Wife's/carer's pension	12,564	13,123	13,371	13,482				
Widow's pension (b)	14,213	13,567	7,235	6,739				
Supporting parent's benefit (b)	16,104	16,646	· _	· -				
Sole parent's pension (b)	-	· -	22,856	23,524				
Sheltered employment allowance	940	1.007	959	1,020				
Rehabilitation allowance	291	297	132	146				

Pension Recipients, South Australia

(a) From 1987-88 includes figures for Broken Hill Region (NSW).
 (b) The sole parent's pension was introduced on 1 March 1989. All recipients of the supporting parent's benefit and some recipients of the widow's pension now receive the sole parent's pension.

Benefits

The Department of Social Security pays the following benefits to eligible persons subject to an income test:

- unemployment benefit;
- job search allowance paid to unemployed people aged 16 and 17 years; •
- sickness benefit;
- special benefit (payable in circumstances of special need to persons not eligible for other pensions or benefits).

		,		
Type of benefit	1986–87	1987–88(a)	1988–89	198990
Unemployment benefit (b)	56,138	52,795	47,879	41,210
Sickness benefit	5,966	6,934	6,732	6,213
Special benefit	1,349	1,549	1,657	1,592

Average Number of Benefit Recipients, South Australia

(a) From 1987-88 includes figures for Broken Hill Region (NSW).

(b) From 1 January 1988 includes Job Search Allowance.

As for pensions, eligible recipients may receive additional payments for children, rent assistance and remote area allowance, and benefit rates are indexed to the Consumer Price Index.

Allowances

The Department of Social Security pays the following allowances to assist families, subject to eligibility requirements:

- family allowance (payable per dependent child, with additional payments for families with ٠ children from multiple births);
- child disability allowance;
- double orphan's pension;
- family allowance supplement (for certain low income families).

Type of pension	At 30 June				
	1987	1988(a)	1989	1990	
Number of children and students for whom Family Allowance paid Number of children for whom Child	329,955	316,147	313,068	306,472	
Disability Allowance paid (b) Number of orphans for whom Double	3,309	3,839	4,061	4,081	
Orphan's Pension paid	315 3,008	233 13,621	193 16,210	151 40,409	

Allowances Paid, South Australia

(a) From 1987-88 includes Broken Hill Region (NSW).

(b) Handicapped Child's Allowance before 15 November 1987.

(c) Family Income Supplement before 17 December 1987.

REPATRIATION BENEFITS

The Department of Veterans' Affairs is responsible under the provisions of the *Veterans' Entitlement Act 1986* (Cwlth) for providing assistance, including medical care, income support and compensation, to veterans and their dependants. Details on health services provided to veterans are included in Part 5.3 Health.

Income support in the form of Service Pensions and compensation in the form of Disability Pensions are provided to eligible veterans and their dependants. Fringe benefits are also payable, subject to income and assets testing. The major repatriation pensions are paid at similar rates to Social Security pensions and benefits and are similarly linked to increases in the Consumer Price Index.

Repatriation Pensions by Type, South Australia (Number)

		At 30 June		
Type of pension	1987	1988	1989	
Disability Pension payable to:				
Incapacitated veterans	14.947	14.651	14,343	
Dependants of incapacitated veterans	12,391	12.006	11,421	
Dependants of deceased veterans	6,135	6,301	6,410	
Total Disability Pensions payable	33,473	32,958	32,174	
Service Pensions payable to:				
Veterans	23,853	23,778	23,110	
Wives and widows of veterans	17,618	17,596	17,109	
Total Service Pensions payable	41,471	41,374	40,219	

COMMUNITY WELFARE

The South Australian Department for Family and Community Services is responsible for promoting the welfare of individuals, families, groups and the community, with priority being given to those most disadvantaged in the community. It encourages the community to develop its own welfare services by promoting the coordination and collaboration of government and non–government welfare services, and through direct service delivery.

Welfare services provided by the Department include:

- funding to other welfare organisations;
- individual and family support through general counselling, custody and access counselling, advice and counselling on family maintenance, budgeting advice and crisis care services;
- emergency financial assistance;
- administering concession schemes for electricity, burial assistance, council, water and sewerage rates and public transport;
- · child protection;
- substitute family care for children including foster care, residential care and adoptions;
- assisting young offenders through screening panels, Children's Aid Panels, services to Children's Courts, secure and non-secure residential care and supervision in the community.

The following table provides a summary of selected major activities by the Department.

Type of service	1986–87	1987–88	1988–89
Financial Counselling Service, new clients counselled	3,793	3,360	3,130
Family maintenance advice and counselling cases	3,795	4,544	5,000
Crisis Care Service, home visit assistance	2,342	2,452	2,967
Emergency Financial Assistance, successful applicants	44,759	49,282	39,816
Child protection incidents	4,027	3.898	3,213
Children's Aid Panel appearances, number of offenders	5,328	5.008	4.031
Children's Court appearances, number of offenders	2,618	2,405	2,173
Number of children placed on bonds with supervision	634	582	518
Psychological services, number of client referrals	812	647	689

Department for Family and Community Services, Selected Services

Adoptions

There are four types of adoptions in respect of which adoption orders are granted. Placement adoptions (Australian, Inter–country or Special Needs) are those where an Australian child, or one from another country, is adopted by new adoptive parents. Special Needs adoptions find permanent placement for children with physical, intellectual and emotional disabilities.

Type of adoption order granted	1985–86	1986–87	1987–88	1988-89
Placement adoption:			-	
Australian	48	36	31	26
Inter-country	67	55	87	67
Special needs		5	5	7
Particular child adoption:				
Australian	232	243	115	126
Inter-country		7	6	3
Total	347	346	244	229

Adoption Orders Granted, South Australia

In 1988–89, 26 Australian, 67 Inter–country and 7 Special Needs children were placed through adoptions of these types. Particular child adoptions (Australian *or* Inter–country) are those by a near relative, by foster parents who have cared for the child for some time, or the adoption of a child by a natural parent and his or her spouse who is not the other natural parent. This latter type of adoption is the most commonly granted in South Australia.

OTHER WELFARE SERVICES

The South Australian Housing Trust and Emergency Housing Office provide a number of housing-related services directed towards pensioners, beneficiaries, low income recipients and other disadvantaged groups. Details of services provided are in Part 9.1 Building.

A considerable number of non-government agencies and community groups provide welfare related services in South Australia, and many receive funding through Family and Community Development Grants. These grants are administered by the Family and Community Development Unit of the Department for Family and Community Services, and a total of \$4,532,655 was made available to 227 agencies in 1988–89. In 1988–89, a total of \$8,457,872 was provided to agencies under the Supported Accommodation Assistance Program.

Details of organisations concerned with social welfare are contained in the *Directory of Social Welfare Resources* published jointly by the South Australian Council of Social Services and the Citizens Advice Bureau. The Citizens Advice Bureau advises those in need on how best to use the wide range of services provided by government and non–government bodies.

5.5 SOCIAL SERVICES

A considerable number of social services, many of which are directed towards individuals and groups with special needs, are provided through government agencies, traditional service organisations and community and self-help groups. The Commonwealth Department of Community Services and Health has a major role in the drawing together, support and coordination of these services.

COMMONWEALTH COMMUNITY SERVICES

The Department of Community Services and Health is responsible for programs to assist families with children, people with disabilities, aged persons, homeless people and others in special need and has the following major administrative functions with regard to Community Services (and excluding its Health functions):

- community programs, including Home and Community Care, disability services and Supported Accommodation Assistance;
- · child care services;
- rehabilitation services;
- residential programs, including the recurrent funding of nursing homes, payment of Domiciliary Nursing Care Benefits and ensuring the maintenance of adequate standards of care in residential facilities;
- the provision of grants-in-aid towards the operating costs of national organisations representing the welfare interests of people who are clients of the Department.

ABORIGINAL AFFAIRS

The Commonwealth Department of Aboriginal Affairs advises the Government on all matters concerning Aboriginal people, formulates policy and develops and implements and/or coordinates programs directed towards the advancement of the Aboriginal people. Consultation with Aboriginal people is mandatory in carrying out these functions.

The Department's Heritage Division is responsible for the development, review and administration of Commonwealth legislation concerning Aboriginal land and heritage matters. The Program Development Division is responsible for the development of national policies and strategies for Aboriginal people in the areas of employment and training, health, sport and recreation, community housing and services, communications and transport, legal matters and issues associated with the special needs of children, youth, the aged and women. The Communications and Special Services Division's areas of responsibility include information and public awareness, promotion of the arts and culture, Aboriginal broadcasting and telecommunications and liaison with the Aboriginal Development Commission, the Australian Institute of Aboriginal Studies and Aboriginal Hostels Ltd.

SOCIAL JUSTICE STRATEGY

In 1987 the South Australian Government announced its Social Justice Strategy. The strategy is based on the principles that: all members of society have rights and obligations and should enjoy equal opportunities to realise their needs and aspirations; all members of society should have opportunities to participate in decision–making which affects their lives; and priority of care should be given to those with greatest need.

The Strategy requires all government agencies to incorporate these principles in their planning, decision making and resource allocation. Government agencies are required to deliver services fairly and equitably according to the needs of the whole community and to take into account the social impact of their policies and programs. All State services including transport, water, sanitation, energy supply, health, employment, education and training are involved in this approach.

The administrative base for the Strategy lies with the Social Justice Unit in the Cabinet Office of the Department of the Premier and Cabinet. The Unit is responsible for providing direction and focus, and assisting agencies in implementing the Strategy. The Unit also provides executive support to the Social Justice Advisory Committee which is a consultative body with wide representation from all sectors of the community.

OFFICE OF THE COMMISSIONER FOR THE AGEING

The Office of the Commissioner for Ageing operates under the *Commissioner for the Ageing Act* 1984. The objectives of the Act are oriented to the enhancement of the quality of life of elderly people and the reciprocal enrichment of the community in which elderly people live.

The functions of the Commissioner include: advising the South Australian Government on the implementation of programs and services for or affecting the ageing (including special needs groups within the population of the ageing) in consultation with the aged; monitoring the effects on the ageing of legislation and practices at all levels of government; and, to compile, analyse and disseminate information concerning the ageing.

South Australia has had a Commissioner for the Ageing since 1985.

Chapter 6

EDUCATION AND SCIENCE

6.1 EDUCATION

In South Australia attendance at school is compulsory for children from six to fifteen years of age. No child may be enrolled for the first time at a government school, other than a child/parent centre, before the age of five years. The admission of children aged five is provided for in all junior primary, primary and area schools at the beginning of each school term, but schools are encouraged to receive intakes more frequently.

Education at the primary and secondary level is available at government schools controlled by the Education Department and at non–government schools, which are required to be registered with the Non–government Schools Registration Board. Some non–government schools provide boarding facilities. In both government and non–government schools there has been a trend towards co–education in recent years. The term 'Year' is used to denote class level in both primary and secondary schools. Primary classes are designated Reception, then Year 1 through to Year 7, and secondary classes Year 8 to Year 12. The present system of government schools and of compulsory education dates from the *Education Act 1875*.

A historical summary of education in South Australia was included on pages 153–4 of the *South* Australian Year Book 1969.

At the tertiary level the University of Adelaide, the Flinders University of South Australia and the University of South Australia are independently controlled but are financially dependent on government grants. Facilities for adult education are provided by the Department of Employment and Technical and Further Education and other organisations.

EARLY CHILDHOOD SERVICES

Established on 1 July 1985, the Children's Services Office (CSO) is an organisation which coordinates a range of early childhood services. This involves the provision of pre–school education, child care, family day care, outside school hours care, vacation care, playgroups and toy libraries, and liaison with and assistance to other bodies which also provide these services. CSO has also, the responsibility for licensing of child care centres in South Australia.

In June 1990, 318 CSO pre–school centres provided 15,452 eligible children with sessional pre–school programs and 3,012 children participated in other early childhood programs. These centres were staffed by the equivalent of 679 full–time staff (including teachers and pre–school assistants).

The CSO provides support to children with special needs and employs special education teachers, psychologists, speech pathologists and social workers.

The Education Department is involved also in the provision of pre-school education. In 1990 there were 102 child/parent centres integrated into junior primary, primary or area schools, fifty-one of them located in rural areas, twelve of these being in Aboriginal schools. One centre provided pre-school services to children with severe disabilities and their families. This program involves home visiting and school liaison with the aim of integration of these children into local schools. Child/parent centres were staffed by the full-time equivalent of 106 teachers and 69 ancillary staff,

with 2.4 central support staff. These child/parent centres catered for 3,354 enrolled four year old children and provided for 2,359 additional children in playgroup or other family related activities.

	Children us			
Age last birthday (years)	Pre– school centres	Child/ parent centres	Total	Children using subsidisea child care centres
Under 3	149	1,018	1,167	3,597
3	1,435	1,341	2,776	2,102
4	16,806	3,334	20,140	1,471
5	74	13	87	154
6		_	-	32
Over 6		-	-	82
Total	18,464	5,706	24,170	7,438

Pre-school Education and Child Care Services, South Australia, 1990

There were fifty-three commercial or non-profit, non-funded centres which provided child care during 1990. In addition there were 8,243 children registered with Family Day Care.

PRIMARY AND SECONDARY EDUCATION

In July 1990 there were 891 schools operating in South Australia and of these 635 were primary, 119 were secondary, 108 primary and secondary combined and 29 special schools. The Government, through the Education Department, operated 706 schools while 185 were operated by non-government authorities.

Enrolments in recent years, classified by government and non-government schools and by age of student are given in the following tables.

Students	1986	1987	- 1988	1989	1990(b)
Primary: Government	115,388	112.311	112,349	117.266	119,490
	28,586	28,983	29,770	30,976	32,179
Non-government	28,380	20,903	29,110	30,970	32,179
Total	143,974	141,294	142.119	148.242	151.669
			,	,	
Secondary:					
Government	75,686	73,670	71,108	67,259	65,378
Non-government	24,059	24,834	25,333	25,236	25,688
Total	99,745	98.504	96.441	92,495	91,066
		,			,
Special (a):					
Government	1,415	1,407	1,309	1,244	(b)
Non-government	143	142	142	151	(b)
Total	1.558	1.549	1.451	1.395	(b)
10000 · · · · · · · · · · · · · · · · ·		1,547.		1,575	
Total students	245,277	241,347	240,001	242,132	242,735

Full-time Students by Level of Study and Category of School South Australia, at or about 1 July

(a) All students in special schools.

(b) From 1990 students attending special schools have not been identified separately and have been allocated to primary or secondary education.

Age at 1 July (years)	Government schools	Anglican	Catholic	Other (a)	Total non– government	All schools
Under 6	16,330	320	2,865	1.238	4,423	20,753
6	16,764	326	2,667	1,161	4,154	20,918
7	15,930	317	2,644	1.097	4,058	19,988
8	15,673	331	2,576	1,132	4,039	19,712
9	15,566	361	2,568	1.131	4,060	19,626
10	14,868	412	2,533	1,197	4,142	19,010
11	14,732	427	2,631	1.238	4,296	19,028
12	14,670	624	2,824	1,379	4,827	19,497
13	14,013	762	2,975	1.577	5,314	19,327
14	14,277	818	2,881	1.643	5,342	19,619
15	13,579	807	2,942	1,698	5,447	19,026
16	11,124	683	2,678	1,576	4,937	16,061
17	5,216	314	1,179	783	2,276	7,492
18	1,279	39	244	99	382	1,661
19 and over (b)	847	7	89	74	170	1,017
All students	184,868	6,548	34,296	17,023	57,867	242,735

Full-time Students^(a) : Age Of Students and Category of School South Australia, 1990

(a) Includes inter-denominational and non-denominational schools and schools with no religious affiliation.

(b) Includes students of unknown age at time of census.

Primary Education

Children normally begin their schooling at the age of five years when they enrol for primary education at either a government or non–government school. Primary education involves a seven to eight year course.

In primary education at government schools the emphasis is on the child's active involvement in learning. The curricula are designed to extend children's experience of their environment through social studies, science and mathematics. They provide for the development of all language skills, especially fluency in speech, writing and reading, and for creative activities in movement, music, art, drama and writing.

There is a program in religious education and an increasing provision is being made for the study of additional subjects, such as foreign languages, dance, instrumental music and aquatics.

Non-government primary schools largely follow the government schools in their curricula, but the Education Department exercises no formal authority over these schools beyond requiring them to submit certain statistical returns relating to compulsory attendance.

Secondary Education

Children who have completed their primary schooling are required to attend a secondary school, either government or non–government, until their fifteenth birthday.

Students living in urban areas usually attend their local high schools. In country areas, secondary education is provided by area schools or high schools depending on the size of the population being served. Area schools cater for both primary and secondary students. Because of their smaller size the secondary curricula offered may not be as varied as that of high schools but a similar breadth and balance is sought.

During the first three years of education at government secondary schools, students are introduced to as wide a range of subjects as possible. Each school is free to develop its own combination of subjects and to determine the amount of time spent on each, within departmental guidelines.

116 EDUCATION AND SCIENCE

Specialisation increases in Years 11 and 12 when students tend to identify more clearly their vocational goals. The proportion of students of post-compulsory ages staying on at school has increased significantly in recent years. Partly in response to this trend the curriculum has broadened to include more non-tertiary oriented senior school studies, particularly through the development of various initiatives aimed at assisting students in their changeover to employment or vocational studies.

Secondary education is also provided by non–government schools; these schools, for the most part, are identified with various religious denominations. Non–government secondary schools usually charge fees, but a limited number of internal scholarships are available. In addition to normal day attendance some non–government schools offer boarding facilities for country students. Non–government schools provide, where appropriate, courses in technical education, business and commercial education and general education together with academic courses for those seeking admission to tertiary education after Year 12.

Typing, shorthand and certain academic courses are provided at privately owned business colleges.

The similarity between courses in government and non-government secondary schools has resulted from the influence of the Senior Secondary Assessment Board of South Australia (SSABSA) which is responsible for certification of Year 12 courses.

Open Access College

The Open Access College was launched in 1990 and formally opened to students at the beginning of the 1991 school year. A multi–campus college, the Open Access College, consists of three schools of distance education, the Open Access Materials Unit and Outreach Services. Two of the schools (Reception to Year 10 and Senior Secondary), and the Materials Unit are co–sited with Marden High School. The third school covering Reception to Year 12 is located at Port Augusta but in its first year is catering only for students from Reception to Year 7.

Students from the former South Australian Correspondence School and the Port Augusta School of the Air transferred to the Open Access College at the end of 1990 when the Correspondence School and School of the Air closed. Courses are supplied to students in schools who wish to take a specific subject which is not available in the local school. Indeed the largest single group in the Open Access College is comprised of students attending other schools. As well as catering for geographically remote and medically referred students, the service also reaches itinerant families and those travelling overseas.

Special Education

The Education Department provides Special Education for children with disabilities in a variety of educational settings. The settings include special schools, special classes, centres for hearing impaired children, and the neighbourhood school. The general policy is that students with disabilities should attend a setting which is appropriate to their curriculum needs. Special Education provisions may include access to transport, a visiting teacher service, a school based special education teacher or specialised equipment or materials. Some students with disabilities require the support services of other government or non–government agencies such as therapy services. The Education Department works in collaboration with these agencies to ensure effective coordinated delivery of services.

Special Education is available within the Catholic and Independent sectors and there are three non–government special schools.

Migrant Education

'English as a second language' programs for children of non–English speaking background conducted in Education Department schools are supported primarily by Commonwealth funding to employ teachers specially trained in this area. Oversight for these programs is provided by officers at the Languages and Multicultural Centre.

Aboriginal Education

The Aboriginal Education Curriculum Unit has responsibility for Aboriginal students and Aboriginal Studies across the State. Its major functions include policy development, management of human and financial resources, the monitoring and review of Aboriginal Education programs, Aboriginal Studies development and implementation and the managing of policy for Aboriginal and Anangu schools.

Upper Secondary Curriculum and Assessment

In 1984 the Senior Secondary Assessment Board of South Australia (SSABSA) took responsibility for syllabuses and assessment in the twelfth year of schooling. Publicly examined subjects are assessed by 50 per cent school assessment and 50 per cent public examination, the results of the examinations being used to moderate the school assessments. For school-assessed subjects, 100 per cent school assessment is moderated by visits from SSABSA moderators to ensure adherence to SSABSA State-wide standards. Results are recorded on the SSABSA Year 12 Certificate of Achievement.

SSABSA is currently managing a State–wide development of curriculum and assessment practices for the eleventh year level of schooling. In 1992 studies at this level, to be known as Stage 1 of the South Australian Certificate of Education (SACE), will be offered for the first time. Stage 2 of the new certificate will be based upon the present Year 12 syllabuses and assessment procedures. The first awards of the SACE will be made in January 1994.

TERTIARY EDUCATION

The Office of Tertiary Education was established in 1987 under the *Government Management* and *Employment Act 1985*. The purpose of the Office is to foster the State's objectives for higher education by ensuring that the resources provided by the Commonwealth and the State for tertiary education are adequate for the State's needs and are used in a cost effective way by the higher education sector. The Office coordinates and manages adult education in South Australia and is responsible for the development of overseas markets for education.

The State's five higher education institutions have established the South Australian Tertiary Admissions Centre to which all students wishing to enrol in any of the institutions must apply for admission. Admission is subject to selection within the quota and is based on academic merit although for some courses other considerations apply such as the result of an audition.

HIGHER EDUCATION INSTITUTIONS

University of Adelaide

The University of Adelaide was established in 1874 by Act of Parliament and the academic work of the University began in March 1876. Courses in Law were introduced in 1883 and Medicine in 1885.

In 1989 there were eleven faculties at the University: Agricultural Science, Architecture and Planning, Arts, Dentistry, Economics, Engineering, Law, Mathematical Science, Medicine, Music and Science. Higher degrees are provided in all faculties and post–graduate diploma courses are provided in applied psychology, psychotherapy, environmental studies, computer science, applied statistics, clinical dentistry, clinical science, economics, education and law.

The University places strong emphasis on research and has set growth of graduate education as a major strategic objective. The research activities of the University attract considerable outside funding in addition to Commonwealth recurrent funding for teaching and research. Grants totalling \$17.2 million were awarded to the University for 1990. For 1991 the University has secured \$7.1

million from the Australian Research Council and \$2 million from the National Health and Medical Research Council.

	i	Level of course			
Faculty	Higher degree	Bachelor degree	Other	Total	
Agricultural Science	108	188		296	
Architecture and Planning	10	253	2	265	
Arts	298	2.327	247	2,872	
Dentistry	21	189	9	219	
Economics	175	1,108	40	1.323	
Engineering	69	861	4	934	
Law	61	703	12	776	
Mathematical Sciences	38	696	81	815	
Medicine	168	710	15	893	
Music	26	165	39	230	
Science	225	1,242	10	1,477	
Total	1,199	8,442	459	10,100	

University of Adelaide : Student Course Enrolments, 1990^(a)

(a) Includes multiple course enrolments.

Unique features of the University's work include: extensive research conducted by the University's Centre for Aboriginal Studies in Music, the National Centre for Petroleum Geology and Geophysics, the Research Centre for Women's Studies, The Centre for Gallium Arsenide Technology, the Centre for Asian Studies, the Centre for South Australian Economic Studies (with Flinders University) and the Corporate and Business Law Centre. Further education programs are conducted through the University's radio station 5UV and the Office of Continuing Education.

Students at the University of Adelaide are provided with an extensive network of support services and the range of facilities which cater for their needs include the Barr Smith Library, sporting and recreational clubs, accommodation and a health service.

Waite Agricultural Research Institute

The Waite Agricultural Research Institute was established as part of the University in 1924, and is located on a separate campus at Urrbrae. In 1927 it took on teaching responsibilities in addition to its research function.

There are seven departments covering the full range of the agricultural sciences (agricultural, biochemistry, agronomy, animal sciences, entomology, plant pathology, plant physiology and soil science) plus a biometry section.

The third and final years of the University's Agricultural Science degree are taught at the Institute, involving about 100 undergraduates.

About 130 post–graduate students are undertaking Master's or Doctor of Philosophy studies at the Institute. In recent years post–graduate students have been accepted from more than thirty countries, with almost half the current number coming from overseas.

Further details are included on page 128.

Roseworthy Campus

Roseworthy Agricultural College, situated approximately fifty kilometres north of Adelaide, was established in 1883 as the first agricultural college in Australia. Since that time the College has made significant contributions to agricultural education and farm production in Australia. In March 1974 the College became a college of advanced education governed by a Council appointed under the *Roseworthy Agricultural College Act 1973*. The Council includes elected representatives of staff and students. The Roseworthy Agricultural College amalgamated with the University of Adelaide on 1 January 1990.

	Inte	ernal		
Field of study	Full–time	Part-time	External	Total
Agricultural	241	13	29	283
Natural resources	121	29	21	170
Wine science	175	7	113	295
Total	537	48	163	748

Roseworthy Agricultural College : Student Enrolments, 1990

Flinders University

Initially planned as an extension of the University of Adelaide, on a site eleven kilometres from the centre of Adelaide, 'The Flinders University of South Australia' was given full autonomy by the South Australian Government in 1965. A more detailed history of the Flinders University was included on pages 163–8 of the *South Australian Year Book 1967*.

Academic Organisation

The academic organisation of the University is based on 'Schools' instead of faculties or departments. The School is the basic academic and administrative unit and one of the academic staff of each school is appointed to act as the Dean of the School for a period of three years.

At present there are eight schools: biological sciences; earth sciences; education; humanities; mathematical sciences; medicine; physical sciences and social sciences. In 1980 the University established a Board of Studies in Theology.

From 1 January 1991, the Flinders University has merged with the Sturt Campus of the former South Australian College of Advanced Education. This will result in the creation of a new School of Nursing Studies, the other elements of the Sturt Campus being absorbed into the previous Flinders University School structure.

Enrolments

The University offers tuition in courses leading up to nine different Bachelor degrees and twelve Master degrees. In addition the University confers Doctor of Philosophy, Doctor of Letters and Doctor of Science degrees, and also offers seven post–graduate diplomas and three second bachelor degrees.

	1			
Field of study	Higher degree	Bachelor degree	Other	Total
 Arts	240	2,588	251	3,079
Economics	12	932	109	1,053
Education	240	445	484	1,169
Medicine	72	485	13	570
Science	92	1,236	21	1,349
Nursing	24	386	544	954
Total	680	6,072	1,422	8,174

Flinders University : Student Enrolments, 1990^(a)

(a) Includes Sturt Campus enrolments.

Research Activities

Considerable research activities are conducted at the University by staff in all Schools and in the following specialised research centres: the Flinders Institute for Atmospheric and Marine Science, the Institute for Atomic Studies, the Institute for Australasian Geodynamics, the Centre for Neuroscience, the Cancer Research Unit, the National Institute of Labour Studies, the Centre for Research

in the New Literatures in English, the Centre for Development Studies, the Electronic Structure of Materials Centre, the Centre for Groundwater Studies, the Centre for Multicultural Studies, the Centre for South Australian Economic Studies and the National Centre for Petroleum Geology and Geophysics. These are shown in greater detail on pages 131–3.

The University of South Australia

The University of South Australia was formed on 1 January 1991 by the merger of the Salisbury, Magill and Underdale campuses of the South Australian College of Advanced Education (SACAE) and the South Australian Institute of Technology (SAIT).

The former campuses of the SACAE offer a wide range of courses in Aboriginal studies, art, business studies, home economics, journalism, communications, nursing studies, recreation, wildlife and park management and women's studies, at associate diploma, diploma and post–graduate levels. The majority of courses can be taken either part–time or full–time. In teacher education, courses are offered from pre–school, through primary and secondary (with specialisations) to technical and further education courses. Teacher education courses are available at diploma, degree and post–graduate levels.

The former campuses of the SAIT offer a wide range of courses and subjects in architecture and building, arts and humanities, business and economics, education, engineering, health, legal studies and science to various levels. Thirty–five professional degree and diploma courses are offered.

At the post–graduate level, a Master of Arts degree in Accountancy, a Master of Applied Science in Project Management, a Master of Business Administration and a Masters degree (Research) which is available in eighteen areas. There are also thirty accredited graduate diploma courses including a General Graduate Diploma offering programs in Applied Science, Social Science, Engineering and Health Science.

Entry into courses offered by the University is competitive and admission is subject to selection based on academic merit.

OTHER TERTIARY EDUCATION

Department of Employment and Technical and Further Education

The Department of Employment and Technical and Further Education is responsible for a wide range of post-secondary education conducted by twenty Colleges of TAFE throughout the State. Vocational training is the main thrust of this sector which offers more than 340 part-time and full-time courses either within a college environment or by distance education or by a mixture of both.

Courses are tailored to meet the needs of most sectors of industry, commerce and government. They range from a level of basic trade or apprentice through to diploma level with course standards complementing articulation arrangements between TAFE and other tertiary education institutions. Increasingly, status is being negotiated with other tertiary institutions both in South Australia and interstate.

Pre-vocational courses and Vocational Education Certificate courses enable students to prepare for employment and further study in their career path. Colleges also offer courses in Community Adult Education in a wide variety of subjects generally considered to be leisure interests for adults.

The Department also administers the Government's employment and training policies and programs specifically designed to benefit youth.

Program	1987	1988	1989
Vocational Foundation Community and adult education	58,939 27,558 28,829	58,708 22,813 24,348	65,338 17,185 24,675
Total	115,326	105,869	107,198
Reconciled total (a)	110,521	100,931	102,500

Technical and Further Education : Student Enrolments by Program South Australia

(a) Reconciled total takes into account students who are enrolled across program areas.

The Department of Employment and Technical and Further Education, provides staff to undertake training supervisory duties throughout the State for the Industrial and Commercial Training Commission. These officers advise on training programs, report on the suitability of training facilities and standards, and supervise contracts of training agreements.

Migrant Education

The State Adult Migrant Education Service, funded through the Commonwealth Adult Migrant Education Program is part of the Department of Employment and Technical and Further Education. It provides a range of English language learning opportunities predominantly for newly–arrived migrants and refugees. Activities include day and evening classes, individual self–access arrangements, courses in the workplace, correspondence courses and a volunteer home tutor scheme.

The Adult Migrant Education Program also provides for multilingual information officers to present information about living in Australia to newly–arrived migrants and refugees.

Industrial and Commercial Training Commission

Legislation governing vocational training in South Australia is contained in the *Industrial and Commercial Training Act 1981* which is administered by the Industrial and Commercial Training Commission. The Commission's broad function is to evaluate training already being provided; determine training programs for trades and other declared vocations; develop trainee schemes and courses of pre–vocational training; examine the training needs of special groups; coordinate training resources; organise and supervise contracts of training; promote training programs; encourage skills centres for off–the–job training; and advise the Minister of Employment and Technical and Further Education on training matters.

A major part of the Training Commission's work concerns the administration and supervision of apprenticeships and traineeships. Although the Commission does not provide training or technical education it has the statutory responsibility to determine the training and courses of instruction to be undertaken by apprentices and other trainees. It is also required to approve the training providers in both the public and private employment sectors.

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Particulars	1986–87	1987–88	1988–89	1989–90
New apprenticeships commenced	3,612	3,674	3,923	4,150
Indentures completed	1,905	2,772	2,930	3,166
Indentures cancelled	513	495	415	556
Apprentices employed	11,236	11,477	11,812	12,045

Apprenticeships, South Australia

Particulars (a)	198687	1987–88	1988-89
Number in training	237	727	745
		······································	

Traineeships, South Australia

(a) At 30 June.

Department of Employment, Education and Training (DEET)

The Commonwealth Government has a number of functionally separate programs and schemes related to education and training. They are designed to meet the needs of different groups and are administered by DEET as components of the Department's Education and Labour Market programs.

Industry Labour Adjustment Assistance Programs

These programs provide a range of labour market measures under the auspices of the Office of Labour Market Adjustment. The measures cover varied forms of assistance directed to particular industries undergoing structural change and to workers losing employment as a result of structural adjustment or specific government decisions.

Jobtrain

The JOBTRAIN program provides opportunities for the long-term unemployed or other especially disadvantaged adults and young job seekers to receive vocational training based on opportunities in the local labour market. The program aims to improve the employment prospects of these job seekers.

Jobstart

JOBSTART is a scheme, which places emphasis on equity of access to employment for long-term unemployed and disadvantaged groups. Wage subsidies are available to employers in the private sector who engage and improve the employment prospects of these disadvantaged job seekers. Subsidy is paid for a maximum of twenty weeks and rates are geared to the age and relative disadvantage of the job seeker.

Innovative Rural Education and Training Program

This program is designed to increase the participation of people involved in rural based industries in further education and training. It is achieved through innovative programs and improved arrangements for the delivery of education and training to rural people; encouraging post–compulsory education institutions in regional areas to work closely with industry; and increasing the range of courses available by developing short course modules which can be given credit in longer, more formal courses and which are relevant to the specific needs of regional industries.

Industry Training Support

The Industry Training Support program encourages improvements in the level and flexibility of industry training, and expands the training infrastructure within Australia to underpin structural adjustment and improved industry efficiency. Assistance is provided through:

- packages of direct financial support to industry and firms to upgrade workforce skills to meet structural and technological change;
- · assistance with the development and expansion of industry skill centres;
- encouragement of the development of innovative industry approaches to improved workforce training;
- assistance for the Industry Training Committee Network of National and State/Territory tripartite committees and industry organisations to develop improved training in Australian industry; and
- provision of a range of trainer training courses through the National Trainer Training Service.

Job Search Training

This program is designed to enhance the job search activity and improve the job attainment rate of job seekers. The program incorporates Job Clubs which provide an intensive three week training course with practical experience in job search for unemployed people and Job Search Training Courses involving shorter term job search training (20–22 hours) provided through various community organisations.

SkillShare

SkillShare enables long-term unemployed people, particularly those unemployed for 12 months or more, and other most disadvantaged unemployed people to obtain and retain employment or to proceed to further education or training through the provision of skills training, employment-related assistance (including personal support and referral) and enterprise activities by groups in the community with demonstrated capacity to deliver such services.

Australian Trade Union Training Authority

The Trade Union Training Authority (TUTA) was established by the Commonwealth Government in 1975. It is a statutory authority under the Australian Trade Union Authority Act.

The South Australian Centre conducts more than 150 courses for nearly 3,500 trade unionists each year. The courses consider the rights and responsibilities of the shop steward, grievance handling, communication skills, consultative and negotiating skills, award restructuring, basic economics, workers compensation, occupational health and safety, equal opportunities and industrial advocacy. The Centre is an accredited provider of Health and Safety Representative training to the South Australian Occupational Health and Safety Commission.

Workers' Educational Association of South Australia

The Workers' Educational Association of South Australia Incorporated (WEA) was established in 1913. Originally patterned on the English WEA, it is a voluntary adult education organisation which works in close cooperation with other adult education organisations and the trade union movement.

Activities include a comprehensive day and evening class program, postal courses for trade unionists throughout Australia and an extensive program of advice and educational assistance for all types of community groups. The WEA has become increasingly involved in helping a range of community organisations to conduct their own courses and in training adult education tutors.

GOVERNMENT OUTLAYS ON EDUCATION IN SOUTH AUSTRALIA

EDUCATION ASSISTANCE

Primary, Secondary and Tertiary

The Commonwealth Government, the State Government and various private benefactors provide assistance to various categories of primary, secondary and tertiary students. The Commonwealth Government provides a Scheme of Assistance for Isolated Children, and through AUSTUDY provides income tested assistance to secondary and tertiary students aged sixteen years or more. The AUSTUDY scheme gives assistance to secondary and tertiary Aboriginal students. The State Government provides a School Support Grant to all Government schools on a per head basis. A Book and Materials Grant and a per head grant are provided for children attending registered non–government schools.

Other

AUSTUDY also provides assistance for persons aged sixteen or more who are undertaking English as a second language course or who re-enter full-time education. Assistance for post-graduate students is provided under the Post Graduate Awards and Research Grants scheme.

Commonwealth Grants Received for Education Purposes, South Australia (\$ million)

Particulars	1985–86	1986-87	1987–88	1988–89
Current grants:				
Primary and secondary	102.8	108.4	114.0	124.3
Tertiary;				
University	107.3	109.0	116.6	114.1
Other higher	80.3	81.5	84.6	84.5
Technical and further	15.5	15.4	12.4	11.7
Other	4.5	2.6	2.8	3.4
Total current grants	310.4	317.0	330.8	337.8
Capital grants:				
Primary and secondary	17.6	17.5	18.3	20.7
University	5.9	8.1	10.2	6.8
Other higher	4.9	7.6	9.4	5.7
Technical and further	8.9	16.6	11.3	16.4
Other	0.1	0.1	_	-
Total capital grants	37.4	49.9	49.4	49.6
Total grants	347.8	366.9	380.2	387.4

State and Local Government : Outlay on Education, South Australia (\$ million)

	(+			(+)					
Purpose	1985–86	1986–87	1987–88	198889					
Current outlay:									
Primary and secondary	660.5	701.1	715.8	762.4					
University	108.0	109.5	116.3	120.4					
Other higher	78.4	88.3	92.8	101.5					
Technical and further	88.0	93.7	103.2	106.2					
Tertiary n.e.c Pre–school education and education not	0.1	4.4	3.5	3.7					
defined by level	40.8	44.8	54.6	60.7					
Transportation of students	21.3	23.9	22.2	23.7					
Other	0.8	0.9	2.3	1.3					
Total current outlay	998.0	1,066.6	1,110.7	1,179.9					
Capital outlay:									
Primary and secondary	29.0	34.5	40.7	44.5					
University	5.9	8.1	9.3	8.8					
Other higher	4.7	9.7	13.4	22.5					
Technical and further	16.0	20.2	12.3	19.4					
Pre-school education and education not									
defined by level	-0.4	0.4	1.8	1.7					
Transportation of students	3.2	3.6	4.1	1.2					
Other	0.1	0.1	0.1	_					
Total capital outlay	58.5	76.6	81.7	98.0					

Further References

Additional information may be found in the following publications:

- 4203.4 Participation in Non–Formal Adult Education, South Australia
- 4218.0 Tertiary Education, Australia
- 4221.0 Schools, Australia
- 4221.4 Schools, South Australia
- 4402.0 Child Care Arrangements, Australia
- 4414.0 Commercial Long Day Child Care, Australia
- 5510.0 Expenditure on Education, Australia

6.2 SCIENTIFIC AND RESEARCH ORGANISATIONS

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION

The Commonwealth Scientific and Industrial Research Organization (CSIRO) is the largest research organisation in Australia. It was established as an independent statutory corporation by the *Science and Industry Research Act 1949* (Cwlth) and succeeded the former Council for Scientific and Industrial Research (CSIR).

The main role of the Organization is to carry out strategic research on behalf of the Commonwealth for the benefit of Australian industry and the community. The research is mainly in the physical and biological sciences with the principal aim being the transfer of research results into commercial use or other beneficial applications.

The research work of the Organization is carried out in Institutes which are groupings of Divisions and Units with related research. The Divisions of Horticulture, Human Nutrition and Soils have their headquarters in South Australia. The Divisions of Manufacturing Technology, Building, Construction and Engineering, Applied Physics, Mathematics and Statistics, Water Resources, and Entomology have branch laboratories in Adelaide and the Division of Forestry and Forest Products has a Plantation Forest Research Centre at Mount Gambier.

Division of Horticulture

The Division of Horticulture, a member of the Institute of Plant Production and Processing, has a headquarters laboratory in Adelaide and laboratories at Merbein (Victoria), Sydney, Brisbane and Darwin. The Division is concerned with the improvement of woody perennial horticultural crops, including a range of grapevines and subtropical and tropical fruit and nut species, with the aim of increasing the competitiveness and profitability of Australian horticulture. Emphasis is placed on the development of techniques for the selection and breeding of improved horticultural crops, on understanding the complex interaction between plant performance and environment, on understanding factors limiting the shelf–life of horticultural crops and on developing improved post–harvest handling techniques.

Division of Human Nutrition

The Division of Human Nutrition, a member of the Institute of Animal Production and Processing, has its headquarters and main laboratories in the grounds of Adelaide University. It also has facilities at its 'Glenthorne' property at O'Halloran Hill.

The principal aims of the Division are: to study those nutrition-related disorders that account for the greatest morbidity and mortality within the Australian community; to define the factors that lead to optimal growth and development through studies on the relations between nutrients and human

health; to develop techniques for assessing community attitudes to nutrition and the means for influencing behavioural change; and with industry, to develop fat-modified and fibre-enriched foods. The results of this research have implications for the food industry, agriculture, the education system, and community education.

The Division carries out research into the nutritional factors involved in heart disease, high blood pressure, cancer, and obesity. There are also major programs in growth–promoting factors, dietary fats and dietary fibre. Surveys are carried out into people's eating habits and their nutritional knowledge and beliefs, and special projects provide information for the food industry, agriculture, and community education.

Division of Soils

The Division of Soils, a member of the Institute of Plant Production and Processing has its headquarters in Adelaide and laboratories in Canberra and Townsville.

The Division's aim is to apply and increase knowledge of the properties, behaviour and distribution of Australian soils and to promote their profitable and sustainable management. This will benefit the agricultural, pastoral and horticultural industries and aid land and water conservation, urban development and mine waste disposal.

Division of Manufacturing Technology

The Division of Manufacturing Technology, a constituent Division of the Organization's Institute of Industrial Technologies, has its headquarters in Preston (Victoria) with laboratories at Preston, Woodville North, Lindfield (NSW) and St Lucia (Qld).

The objectives of the Division are, through research, collaboration, consultation and advice to:

- develop new and improved products and processes which will increase the competitiveness
 of the Australian metals and related engineering industries, particularly those which are export
 oriented; and
- develop and apply integrated manufacturing technologies for enhanced productivity in the manufacturing sector.

The Division's Adelaide laboratory conducts research in projects relating to:

- welding electrode development;
- high-productivity welding;
- joining technology for thin gauge steel;
- · wear resistant materials and processes;
- · resource allocation; and
- · integrated manufacturing environment.

Division of Applied Physics

The Division of Applied Physics has its headquarters at the National Measurement Laboratory in Sydney, with branches in Adelaide, Melbourne and Lucas Heights (NSW). It performs research on problems of importance to Australian industry and the community, and collaborates with industrial and other organisations to exploit its research results. It establishes, maintains and disseminates the Australian legal standards of measurement of basic physical quantities and promotes their use. The Division is divided into five broad programs: Electro–technology; Applied Electricity and Magnetism; Acoustics and Mechanics; Optical Technology; and Plasmas, Thin–films and Thermometry.

The Adelaide Branch provides a local calibration service in the fields of temperature, electricity, mass, density and thermal conductivity. It also conducts research projects in some of these areas. It promotes the services of the Division to local industry, research bodies and the community generally.

DEFENCE SCIENCE AND TECHNOLOGY ORGANISATION SALISBURY

The Defence Science and Technology Organisation (DSTO) complex at Salisbury (DSTOS) is Australia's largest research and development centre and the prime electronics originating source. The role of the DSTO Laboratories is to provide scientific and technical advice on defence policy matters, to maintain a technology base in support of the Australian Defence Force, the Department of Defence and defence industry, and to carry out initial development of selected equipment to meet operational defence needs.

DSTO Salisbury houses three autonomous laboratories – the Electronics Research Laboratory, the Surveillance Research Laboratory and the Weapons Systems Research Laboratory, together with a component of the Aeronautical Research Laboratory which has its headquarters at Fishermans Bend, Victoria. An article on DSTO Salisbury, then called Defence Research Centre, appeared in the *South Australian Year Book 1986*.

Electronics Research Laboratory

The Electronics Research Laboratory (ERL) conducts research and development for Australian defence in the fields of Command and Control, Military Information Systems, Communications and Intelligence, and Electronic Warfare. ERL establishes and maintains scientific and technological skills in the fields of:

- information technology, including software engineering, trusted computer systems and command support systems;
- · communications, including satellite and terrestrial systems, and networks;
- · cryptologic research, including signals intelligence; and
- tactical electronic warfare in communications, radar and optical systems.

Surveillance Research Laboratory

The Surveillance Research Laboratory provides assistance to the Australian Defence Force, other defence industries and, when in the national interest, Australian industry.

It undertakes research and development on a range of projects related to surveillance and reconnaissance. The laboratory consists of three divisions which concentrate on the fields of microwave radar, high frequency radar and optoelectronics.

The current staff of approximately 500 is made up of scientists, engineers, technicians, clerical and workshop personnel. Their expertise covers the electromagnetic spectrum from radio waves through microwaves to visible light.

Weapons Systems Research Laboratory

The Weapons Systems Research Laboratory is dedicated to maximising the effectiveness of Australia's defence material in the fields of tactical weapons and combat systems and undersea detection and surveillance, and to providing support to indigenous production of weapons, munitions, and underwater detection systems.

Aeronautical Research Laboratory

The Aeronautical Research Laboratory (ARL) at Salisbury, a component of ARL Fishermans Bend, Victoria, comprises research groups carrying out research, design and development work in aerodynamics, aircraft/store interaction, air systems engineering, and avionic engineering. The work includes avionics, wind tunnel testing and airborne systems technology development and research, and flight testing and clearance of military airborne equipment and stores.

DEPARTMENT OF DEFENCE

Defence Support Centre Woomera

The Woomera Range was established in 1947 as a site for testing experimental ballistic and guided weapons. Defence and other trials, training and exercises are still carried out in the Woomera Prohibited Area (WPA) although at a much reduced level than in the past. The major activity in Woomera now centres around the Australia/United States Joint Defence Facility, Nurrungar. This facility employs some 500 persons and is part of the US Defence Support Program which provides ballistic missile early warning and other information related to missile launches, surveillance and the detonation of nuclear weapons. The Defence Support Centre Woomera provides a residential and support base for all Commonwealth Government sponsored activities in the Woomera area.

WAITE AGRICULTURAL RESEARCH INSTITUTE

The Waite Institute was established as a research institute at Urrbrae in 1924, through the generous benefaction of Mr Peter Waite.

Among the many research programs currently being undertaken at the Institute are breeding programs for wheat, barley and faba beans, investigations of mechanisms of drought tolerance in cereals, soil chemistry, biological control of insects, pasture management, beef cattle metabolism, investigations into plant viruses, animal reproduction and many other projects of vital importance to agriculture in Australia and overseas.

In addition to the Waite Agricultural Research Institute, the CSIRO Divisions of Soils, Horticulture, and Mathematics and Statistics, the Australian Wine Research Institute and elements of the South Australian Department of Agriculture are located on the Waite Institute campus. Commencing in 1991, the laboratories of the Department of Agriculture are to be transferred from Northfield to the Waite Campus which will be a centre of agricultural research and teaching unique in Australia and comparable with major institutions overseas.

Further details relating to the Waite Institute may be found in Part 6.1 Education.

THE AUSTRALIAN WINE RESEARCH INSTITUTE

The Australian Wine Research Institute, established in 1955 from a small research unit formed within the University of Adelaide in 1934, promotes research and other scientific work for the Australian wine industry.

The Institute is administered by a nine-member council consisting of representatives from the Australian wine industry, the Commonwealth Scientific and Industrial Research Organization, the University of Adelaide, with the Director of the Institute an ex-officio member. It is funded by the Grape and Wine Research Council, income from a trust fund, and commercial activities.

At its laboratories situated at Urrbrae, the Institute conducts applied research into the microbiology and chemistry of the production of wine and brandy. Extension services assist commercial winemakers with technical problems, provide tested yeast and bacterial cultures for wine fermentation and communicate research developments to the wine industry. Analytical services are also offered, for a fee.

The John Fornachon Memorial Library maintained by the Institute is a specialised library of technical literature on wine and grapes.

TECHNOLOGY DEVELOPMENT CORPORATION

The Technology Development Corporation is a specialised industrial development agency of the South Australian Government established under an Act of Parliament in 1982. The Corporation's prime objective is to encourage the establishment and growth of new technology based industries and effect the transfer of appropriate new technologies to existing industry.

Technology Park Adelaide occupies an 85 hectare site adjacent to the Levels campus of the University of South Australia. The Park has been developed specifically to provide a supportive environment for the research and development and the commercialisation of new technology.

Innovation House, Innovation House West and Endeavour House, the Corporations multi-tenant buildings, are an integral part of the complex and provide approximately 13,000 square metres of flexible lease accommodation. Both office and workshop space are provided, and tenants have access to a wide range of communal facilities.

Science Park Adelaide, currently under construction adjacent to the Flinders University and Flinders Medical Centre, will expand the technology support network in South Australia. With a site of 30 hectares, activities on the Park will emphasise biomedical and biotechnological research and development.

The Adelaide Microelectronics Centre facilitates industry access to and promotes greater industry awareness and application of microelectronics technology.

OTHER RESEARCH ACTIVITIES

Amdel Limited

Amdel Limited is a private laboratory group engaged in testing and analysis services in mineral technology and materials. Operations are based in Adelaide and clients are in Australia and overseas.

Amdel Limited has subsidiary companies involved in geoanalysis and chemical analysis (Classic Laboratories Ltd); environmental hazard management (Amdel Environmental Services Pty Ltd); and petroleum services (Amdel Core Services Pty Limited). The group employs about 400 people, of which 150 are based in Adelaide.

A range of high technology analytical and process control equipment is manufactured by Amdel in Adelaide primarily for the mineral processing industry. Recent sales of the equipment have been for major projects in India, Portugal, Canada and Finland, as well as for a number of Australian plants.

The Materials Services section has played a major role in the developing of an Australian standard for emission testing of solid fuel combustion heaters, and has been invited to contribute to work on an international standard.

Institute of Medical and Veterinary Science (IMVS)

The Institute, which is subject to control and direction of the Minister of Health under the *Institute* of Medical and Veterinary Science Act 1982, provides diagnostic facilities in all branches of laboratory medicine for the Royal Adelaide Hospital and other metropolitan and country hospitals, public health authorities, industry, and private practitioners. It undertakes some work in veterinary pathology for the Department of Agriculture. Research is conducted into selected problems connected with human disease. The staff of the Institute take part in the teaching of the medical sciences to graduates, students and technicians.

At the Royal Adelaide Hospital the Institute operates a Blood Transfusion Service, and undertakes all required autopsies. Institute medical staff also take an active part in patient care by providing the clinical requirements of certain wards of the Royal Adelaide Hospital. To meet the need for laboratory services and blood transfusions in rural areas, the Institute operates eleven regional laboratories. Medvet Science Pty Ltd is the associated private company set up to market the intellectual property of the medical and scientific staff of the IMVS.

The Institute's research and development projects are assisted by the National Health and Medical Research Council, other research–funding bodies, certain private firms and benefactors.

Universities

The University of Adelaide

The University's *Waite Agricultural Research Institute* is one of Australia's leading Centre's with a wide range of collaborative agricultural research programmes in Australia and overseas, focusing on agricultural biochemistry, plant breeding and weed science, animal science, cereal technology, entomology and the biological control of insects, plant pathology and physiology and soil science and water quality.

Established in 1990, the new *Centre for Basic and Applied Plant Molecular Biology* focuses on two broad areas – plant molecular virology and cereal biotechnology.

In 1991, the *Roseworthy Agricultural College* merged with the University, adding its research strength in dryland farming, rangeland management and viticulture and oenology to the research profile of the University.

Research into inclusion complexes, gas phase ion-molecule chemistry and chemical synthesis and mechanisms is conducted in the University's Departments of Organic and Physical and Inorganic Chemistry.

Research in engineering and applied science is conducted in the faculties of Engineering and Mathematical Sciences including the University's *Consortium for Telecommunications Studies* and the *Teletraffic Research Centre*, the *Centre for Gallium Arsenide VLSI Technology* and the *Centre for Computer Systems and Software Engineering*. Areas of research investigation in applied mathematics include hydrodynamics, solid mechanics and applied probability.

The research in the Humanities and Social Sciences involve many interdisciplinary research centres focusing on particular regions or concerns. These include the *Centre for Asian Studies*, the *Corporate and Business Law Centre*, the *Graduate Centre for Environmental Studies*, the *Research Centre for South–East Asian Ceramics*, the *Centre for International Economic Studies*, the *Research Centre for Women's Studies* and the *South Australian Centre for Economic Research* (with Flinders University).

Major areas of research in physics include: theoretical nuclear and particle physics and models of nuclear structure; experimental studies of high energy astrophysical processes; cosmology; ultra–violet molecular physics and physical archometry. In pure mathematics the focus is in harmonic analysis, differential geometry and operator algebras, number theory and discrete mathematics.

The National Health and Medical Research Council funded Road Accident Research Unit is one of many major programmes in the medical sciences. Others involve collaborative research with scientists in the teaching hospitals, the IMVS, the University of South Australia and the Division of Human Nutrition of CSIRO and include projects investigating road trauma, hypertension, carcinogenesis and oncology, and occupational and environmental health.

Dental health services, craniofacial growth and function, oral disease and dental materials and clinical research are major areas of research activity in dental science.

To encourage technology transfer from the University to the market place Luminis Pty Ltd was established by the University of Adelaide in 1984. Luminis seeks out new opportunities for contract research and consulting. It has been involved in the establishment of a range of high technology companies including Bresatec, Integrated Silicon Design, Transponder Australia, Repromed Pty Ltd and Repromed (Singapore) Pty Ltd. Luminis is wholly owned by the University of Adelaide.

In July 1986 the University established the *Centre for Multicultural Studies*. The Board of Management is composed of representatives from institutions of higher education and from the government. The Centre's objectives include research on economic, social, legal and medical issues; the Centre also supports language studies and publishes *Papers in Multicultural Studies*.

The *National Centre for Petroleum Geology and Geophysics* is composed of a core of staff, combined with the School of Earth Sciences at Flinders University, the Department of Geology and Geophysics at Adelaide University, and the School of Applied Geology at the University of South Australia. It is funded by the Commonwealth and State Governments, as well as by industry. Its aim is to train professional geoscientists for the petroleum exploration industry. Research work is also undertaken.

The *Electronic Structure of Materials Centre* in the School of Physical Sciences is a special research centre set up to observe directly the motion of electrons in materials, particularly semi–conductors, superconductors, metals and surface molecular layers. The method used is electron momentum spectroscopy, which was pioneered and developed at Flinders University for gaseous atoms and molecules. Since the characteristic properties of materials are due to the motion of their electrons, direct observation of the motion gives a completely new dimension of understanding.

Flinders University

The *Institute for Atmospheric and Marine Sciences* was established in 1972 to ensure that the University's academic and technological capabilities in atmospheric and marine sciences are made known to such government instrumentalities and private sectors of industry as may make use of them to the mutual benefit of both the outside group and the University. The Institute's Tidal laboratory is now designated as 'The National Tidal Laboratory' and specialised meteorological data libraries, instrumental facilities and field stations on the Coorong and Cape du Couedic as well as a series of publications are maintained. Major facilities include a specialised research aircraft.

The *Flinders Institute of Atomic Studies* was formed in 1976 to act as a focus for the interaction of scientists and graduate students and for the dissemination of reports of research involving the structure and interaction of microscopic quantum systems. Present members, within the disciplines of physics and chemistry, are pursuing fundamental research in the fields of experimental and theoretical atomic collision physics, electronic structure of materials, low and intermediate energy nuclear theory, quantum field theory, statistical physics, electron transport phenomena and quantum and surface chemistry.

In 1976, the Council of the Flinders University approved the formation of the *Institute for Australasian Geodynamics*, to provide a focus for geodynamic research within the School of Earth Sciences. It also aims to foster cooperative studies and facilitate the training of Asian and Australian researchers in the geodynamics of Australasia, including research coordination, publication of reports and the maintenance of an information data bank.

The *Centre for Neuroscience* was established to foster the interests in the neurosciences that existed within the Schools of Medicine, Biological Sciences and Social Sciences and in the Flinders Medical Centre. The Centre also acts as a State–wide resource for the neurosciences. At present there are fifty–two members and twenty–one associates.

The *Cancer Research Unit* was established in 1977 as a joint development between the School of Medicine and the School of Biological Sciences. Members of both Schools are investigating various aspects of cancer as their major research interest. Interests range from the theoretical (*e.g.* DNA structure, control of cell proliferation) to the practical (*e.g.* treatment). The Unit was established not only to encourage collaborative research projects but also to facilitate the acquisition of major items of equipment which could not be justified by a single user.

The *Centre for South Australian Economic Studies* was established in 1982 with the support of the South Australian Government as a joint research institution of the Flinders University of South Australia and the University of Adelaide, to focus specifically upon the South Australian economy. From an initial membership of eight private organisations who sponsor the work of the Centre, it now has more than forty Corporate Members. Three times a year it presents a detailed report on the South Australian economy at a briefing for Corporate Members and the Government. The report

considers national and international economic trends and how they are likely to impact upon South Australian industries. It also undertakes consulting projects and produces Occasional Papers for its members.

The National Institute of Labour Studies in the School of Social Sciences encourages graduate study, research and publication in the areas of industrial relations, labour economics, industrial psychology and sociology, and labour history. It publishes a quarterly review of labour events, *The Australian Bulletin of Labour*, a working paper series, and books.

The Centre for Research in the New Literatures in English (CRNLE) aims to promote research in its field by providing a specialist library collection developing and supervising post–graduate research programs; facilitating more effective teaching of under–graduate courses; and sponsoring research investigations that involve cultural and social questions and are based on cross–cultural, comparative and inter–disciplinary approaches to the study of the literatures and societies concerned.

The National Centre for Petroleum Geology and Geophysics is composed of a core of staff, combined with the School of Earth Sciences at Flinders University, the Department of Geology and Geophysics at Adelaide University, and the School of Applied Geology at the University of South Australia. It is funded by the Commonwealth and State Governments, as well as by industry. Its aim is to train professional geoscientists for the petroleum exploration industry. Research work is also undertaken.

The *Centre for Groundwater Studies* was established as a consortium between the CSIRO Divisions of Water Resources Research and Soils; the School of Earth Sciences, Flinders University; the South Australian Engineering and Water Supply Department; and the South Australian Department of Mines and Energy. Facilities of all the institutions involved in the Centre are available for Centre activities. The Centre was formed in 1988 with seed funding from the Australian Water Research Advisory Council. The Centre is a focus of research, expert advice and training for the water industry in Australia, on the behaviour of water and associated contaminants, beneath the soil surface, and on evapotranspirations. Postgraduate students play an important part in the Centre's research.

The *Electronic Structure of Materials Centre* was established in 1988 as one of the Commonwealth Government's Special Research Centres. The main research activity of the Centre is to investigate the structure of materials by direct observation of the motion of electrons in materials, particularly semiconductors, superconductors, metals and surface molecular layers.

The *Centre for Development Studies*, was established in 1980, in order to bring together people from a variety of disciplines with a common interest in development. Development is seen as encompassing those processes of social, political and economic change involved in the alleviation of poverty and the improvement of the living standards of the populations of the Third World. The Centre at this stage has no staff of its own, and its activities are managed by a committee whose members come from several disciplines in the School of Social Sciences, the School of Medicine, and the Faculty of Agriculture at the University of Adelaide.

In July 1986 the University established the *Centre for Multicultural Studies*. The Board of Management is composed of representatives from institutions of higher education and from the government. The objectives of the Centre include teaching and research on economic, social, legal and medical issues; the Centre also supports language studies, and the improvements of cross–cultural communication skills in professional education. The Centre holds regular seminars and an annual conference on a major theme related to multicultural study. It also conducts research and policy analysis for external bodies including Government agencies and community organisations. The Centre publishes *Papers in Multicultural Studies*.

The *Pan–Pacific Institute* was established in 1990 to constitute the South Australian element in a network of similar institutions being developed in Australia. The Institute will function as an applied research organisation undertaking investigations on Asia–Pacific related issues for governments and private organisations.

The *Liver Research Institute* was established in 1990 to provide an intellectual and physical focus for the coordination of liver research within the School of Medicine. The Institute will coordinate a

seminar program, internal research programs and resources, facilitate liaison with external organisation, support visiting scientists and provide postgraduate training.

Other

Department of Fisheries

The South Australian Department of Fisheries conducts research programs on the rock lobster, prawn, marine scalefish, abalone, and inland waters' fisheries which includes tagging, stock sampling, and market measuring work. The Department also undertakes research into the development of aquaculture in South Australia. In encouraging fisheries research, the *Fisheries Act 1982* provides for 100 per cent of all licence fees levied under the Act to be placed in the Department's Research and Development Fund. In addition, the Commonwealth has established the Fishing Industry Research and Development Committee which provides significant funding for fisheries related research throughout Australia. The latter makes available from Commonwealth revenue an amount equal to that collected from the fishing industry by the State Fisheries Authorities or 1 per cent of the gross value of production for fisheries in Australia, whichever is the lesser. These funds are used to finance research programmes in a wide variety of disciplines.

Woods and Forests Department

The virtual dependence of the South Australian forestry industry on a single species necessitates continued research into the maintenance and improvement of *Pinus radiata* resources, as well as into forestry in general.

The Woods and Forests Department maintains its own research facilities and works very closely with the South Australian Regional Station of the Division of Forestry and Forest Products of the Commonwealth Scientific and Industrial Research Organization (CSIRO) at Mount Gambier. Certain aspects of forestry research are also undertaken by the Soils Division of CSIRO, the Waite Agricultural Research Institute, the University of Adelaide, the Flinders University and the Department of Forestry of the Australian National University. Joint research is being carried out into tree breeding through the Southern Tree Breeding Association. Members of the Association are the Woods and Forests Department, CSR Softwoods, SEAS SAPFOR, Colac Pines (Victoria), APM Forests, Victree Forests, SCI Forests, WA Department of Conservation Management and Land Management, A.N.M. Forest, A.P.P.M. Forests, and Forest Commission of Tasmania. The Association is producing seed of improved quality to grow seedlings for planting in radiata pine forest areas. Research activities aim to increase the productivity of forest lands through competition control, maintenance of soil organic matter, nutrient management, genetic improvement of planting stock and effective management of pests and diseases. Research is also being undertaken into the use of tree crops for effluent disposal, broadscale direct seeding of eucalypt species and use of species other than Pinus radiata for pulpwood production.

Utilisation research centres on seasoning technology, preservative treatments and reconstituted products.

Australian Centre for Medical Laser Technology Inc.

The Australian Centre for Medical Laser Technology is an independent, non-profit organisation which has been established to promote the safe and effective use of medical lasers.

It is Australia's first national medical laser centre which aims to establish national training programmes; provide information on the research and development of new technologies and their applications; and accreditation facilities.

As well as working with major hospitals throughout Australia and the University of South Australia, the Australian Centre for Medical Laser Technology is also a collaborative centre of the Australian Institute of Health.

Chapter 7

LABOUR

7.1 EMPLOYMENT

THE LABOUR FORCE

Particulars of the number of persons who constitute the labour force in South Australia are available from periodic population censuses. For the 1986 Census the definition of the labour force was revised to accord with the recommendations of the Thirteenth International Conference of Labour Statisticians (1982), and the revised approach has been adopted for the monthly labour force survey.

Labour Force Survey

In addition to complete census counts, estimates of the civilian labour force are prepared from the results of surveys based on a sample of dwellings throughout Australia. These surveys began in 1960 on a quarterly basis and were initially confined to the six State capital cities, but in 1964 were extended to include non-metropolitan urban and rural areas, thereby enabling derivation of estimates of the total civilian labour force in Australia. From February 1978, the surveys have been conducted on a monthly basis. The proportion of the population included in the surveys varies from State to State (0.87 per cent in South Australia) but in aggregate about 0.58 per cent of the Australian population is included.

Statistics obtained from the surveys include numbers employed and unemployed; labour force participation and unemployment rates; duration of unemployment; analyses of reasons for working less than thirty-five hours per week; as well as age, sex, birthplace, family status, occupation and industry characteristics.

August		Uı	iemployed			Not in labour force	Civilian popu- lation aged 15 years and over	Un-	Partici– pation rate (b)
	Employed	Looking for full–time work	Looking for part-time work	Total	Labour force			employ– ment rate (a)	
	'000	'000	'000	'000	'000	'000	'000	per cent	per cent
			M	IALES					
1983 1984 1985 1986 (d) 1987 1988 1989 1989	335.4 348.8 350.0 358.3 360.9 364.9 384.2 384.1	38.5 34.0 <u>31.8</u> 32.4 33.4 31.9 25.7 31.7	2.3 2.0 <u>1.9</u> 2.2 2.4 (c)1.4 2.2 2.6	40.8 36.0 <u>33.7</u> 34.6 35.8 33.3 27.8 34.3	376.2 384.9 <u>383.7</u> 392.9 396.7 398.3 412.0 418.5	128.3 131.1 <u>139.8</u> 139.3 142.8 148.8 143.1 143.4	504.5 516.0 523.5 532.1 539.5 547.1 555.1 561.9	10.8 9.4 <u>8.8</u> 9.0 8.4 6.8 8.2	74.6 74.6 <u>73.3</u> 73.8 73.5 72.8 74.2 74.5

Labour Force Status of the Civilian Population Aged 15 Years and Over South Australia

Labour Force Status of the Civilian Population Aged 15 Years and Over South Australia (continued)

		Unemployed					Civilian popu– lation	Un-	
August	Employed	Looking for full–time work	Looking for part–time work	Total	Labour force	Not in labour force	aged 15 years and over	employ– ment rate (a)	Partici– pation rate (b)
	'000	<i>'000</i>	'000	'000	'000	'000	'000	per cent	per cent
			FE	MALES					
1983	202.5	18.8	4.3	23.1	225.6	301.3	527.0	10.3	42.8
1984	214.7	18.5	4.6	23.1	237.8	298.6	536.4	9.7	44.3
1985	<u>223.9</u>	<u>15.9</u>	<u>4.8</u>	<u>20.7</u>	<u>244.6</u>	<u>298.3</u>	542.9	<u>8.5</u>	<u>45.1</u>
1986 (d)	238.6	16.9	5.4	22.3	260.9	288.9	549.8	8.6	47.5
1987	239.5	19.3	6.9	26.2	265.7	291.2	556.9	9.9	47.7
1988	252.9	17.7	6.6	24.2	277.2	287.3	564.5	8.7	49.1
1989	271.2 273.8	13.4 15.8	5.0	18.4 23.7	289.7 297.4	281.7 280.9	571.3 578.3	6.4 8.0	50.7 51.4
1990	273.8	15.8	7.8	23.7	297.4	280.9	578.5	8.0	51.4
			PE	RSONS					
1983	537.9	57.3	6.6	63.9	601.8	429.7	1,031.5	10.6	58.3
1984	563.6	52.5	6.6	59.1	622.7	429.7	1,052.4	9.5	59.2
1985	<u>573.9</u>	<u>47.7</u>	<u>6.7</u>	<u>54.4</u>	<u>628.3</u>	<u>438.0</u>	1,066.4	8.7	<u>58.9</u>
1986 (d)	596.9	49.2	7.7	56.9	653.8	428.1	1,081.9	8,7	60.4
1987	600.4	52.7	9.3	62.1	662.4	434.0	1,096.4	9.4	60.4
1988	617.9	49.6	8.0	57.6	675.4	436.1	1,111.6	8.5	60.8
1989	655.4	39.1	7.2	46.3	701.7	424.7	1,126.4	6.6	62.3
1990	657.9	47.5	10.5	58.0	715.9	424.3	1,140.2	8.1	62.8

(a) The unemployment rate for any group is the number unemployed expressed as a percentage of the labour force (i.e.

(a) The unemployment rate for any group is the number unemployed expressed as a percentage of the labour force (*i.e.* employed plus unemployed) in the same group.
 (b) The labour force participation rate for any group is the civilian labour force expressed as a percentage of the civilian population aged 15 years and over in the same group.
 (c) Subject to sampling variability too high for most reasonable uses.

(d) Estimates for periods before April 1986 are based on the old definition of employed persons.

In the labour force survey, a revised definition of employed persons, which conforms closely to the international standard definition specified by the International Labour Organisation (ILO), was introduced from April 1986. It includes all persons aged 15 years and over who during the survey week worked for one hour or more without pay in a family business or on a farm (*i.e.* unpaid family helpers), whereas, before April 1986, only those working 15 hours or more in the survey week were included. This is reflected in the following table, in which employed persons are classified by status of worker.

Employed Persons : Status of Worker, South Australia ('000)

	Wage and salary earners			Employe	ers and self-	-employed	Total (a)			
August	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	
1985	281.3	194.2	475.6	67.6	28.8	96.4	350.0	223.9	573.9	
1986 <i>(b)</i>	289.3	203.8	493.1	66.4	30.7	97.1	358.3	238.6	596.9	
1987	286.1	202.4	488.5	72.7	33.7	106.4	360.9	239.5	600.4	
1988	291.9	213.7	505.6	69.7	35.3	105.0	364.9	252.9	617.9	
1989	312.8	235.0	547.8	69.4	34.0	103.5	384.2	271.2	655.4	
1990	313.2	232.6	545.7	67.5	36.6	104.1	384.1	273.8	657.9	

(a) Includes unpaid family helpers.

(b) Estimates for periods before April 1986 are based on the old definition of employed persons.

The following table shows employed persons classified according to the Australian Standard Classification of Occupations (ASCO), which was introduced in the August 1986 Labour Force Survey. The structure of ASCO is based on the kind of work performed and is defined primarily in

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terms of the level and specialisation of skill required to satisfactorily perform primary tasks as its classificatory variable, and is therefore significantly different from the previous classification. The classification is broken down into major group, minor group, unit group and individual occupation levels.

			Persons		
Occupation major group (a)	Males	Females	Number	Proportion of total	
	'000	'000	°000	per cent	
Managers and administrators	61.3	18.9	80.2	12.2	
Professionals	48.5	31.2	79.7	12.1	
Para-professionals	22.8	16.8	39.5	6.0	
Tradespersons	89.4	12.4	101.7	15.5	
Clerks	23.5	79.9	103.4	15.7	
Salespersons and personal service workers	34.9	61.2	96.2	14.6	
Plant and machine operators, and drivers	37.9	8.1	46.0	7.0	
Labourers and related workers	65.8	45.3	111.1	16.9	
Total	384.1	273.8	657.9	100.0	

Employed Persons : Occupation Major Group, South Australia, August 1990

(a) Classified according to the Australian Standard Classification of Occupations.

'Industry' refers to the branch of productive activity, trade or service in which an individual works or carries out an occupation. The Australian Standard Industrial Classification (ASIC), designed primarily as a system for classifying establishments (*e.g.* individual mines, factories, shops etc.) by industry, is used to classify persons in the labour force survey by the industry in which they are employed, as shown in the following table.

			Persons		
Industry	Males	Females	Number	Proportion of total	
	'000	<i>'000</i>	'000	per cent	
Agriculture, forestry, fishing etc.	33.6	15.7	49.3	7.5	
Mining	4.6	(a)0.9	5.4	0.8	
Manufacturing	85.1	26.9	111.9	17.0	
Electricity, gas and water	6.9	(a)0.7	7.6	1.2	
Construction	32.0	5.8	37.8	5.7	
Wholesale and retail trade	76.9	58.6	135.5	20.6	
Transport and storage	22.9	3.8	26.7	4.1	
Communication	8.2	2.8	11.0	1.7	
Finance, business services etc.	30.5	32.4	62.9	9.6	
Public administration, defence	16.5	11.0	27.5	4.2	
Community services	48.1	86.8	134.8	20.5	
Recreation, personal services etc.	18.9	28.5	47.4	7.2	
Total	384.1	273.8	657.9	100.0	

Employed Persons : Industry, South Australia, August 1990

(a) Subject to sampling variability too high for most reasonable uses.

		Number (' (00)	Participation rate (a) (per cent)			
Age group (years)	Males	Females	Persons	Males	Females	Persons	
15–19	36.2	33.3	69.4	63.7	61.4	62.6	
20–24	51.8	45.0	96.8	88.3	80.1	84.3	
25–34	113.0	77.0	190.0	93.9	65.9	80.1	
35–44	100.8	79.1	179.9	93.3	73.7	83.5	
45–54	68.2	45.3	113.6	90.3	61.1	75.8	
55–59	22.7	10.4	33.1	72.0	33.6	53.0	
60–64	19.1	4.5	23.6	57.2	13.4	35.2	
65 and over	6.7	2.8	9.5	8.6	2.7	5.2	
Total labour force	418.5	297.4	715.9	74.5	51.4	62.8	

Civilian Labour Force : Age Group, South Australia, August 1990

(a) The participation rate for any group is the civilian labour force expressed as a percentage of the civilian population aged 15 and over in the same group.

Further details may be obtained from the following bulletins: *The Labour Force, Australia, Preliminary* (6202.0); *The Labour Force, Australia* (6203.0). In addition, *Labour Force, South Australia* (6201.4) contains detailed figures for South Australia.

Special Studies

The sample of dwellings referred to in respect of the labour force survey provides the framework for a number of special studies. During May 1990, a survey of persons who had re-entered the labour force was conducted. Information was collected on labour force activity, details of previous job, main reason for wanting to work again, and standard demographic variables.

In May 1990, there were 12,200 persons in South Australia who had re-entered the labour force over the previous twelve months. Of these, 11,000 (90.2 per cent) were females, of whom 7,500 (68.2 per cent) were working at May 1990, while 3,500 (31.8 per cent) were looking for work. The latter percentage compares with the May 1990 unemployment rate of 7.2 per cent for all females in the labour force.

Persons Who Had Re-entered the Labour Force, South Australia, May 1990 ('000)

Characteristic	Working	Looking for work	Total
Gender:			
Males	(a)1.1	(a)0.1	(a)1.2
Females	7.5	3.5	11.0
Time since previous job:			
1–2 years	2.8	(a)1.2	4.0
3–9 years	3.3	(a)1.2	4.5
10 years or more	2.5	(a)1.1	3.6
Total	8.6	3.6	12.2

(a) Subject to sampling variability too high for most reasonable uses.

Further details may be found in the bulletin Persons Who Had Re-entered the Labour Force, Australia, May 1990 (6264.0).

EMPLOYED WAGE AND SALARY EARNERS

In the September quarter of 1983 a quarterly Survey of Employment and Earnings was introduced to obtain from employers information on the numbers of wage and salary earners employed each month and their quarterly earnings. (The earnings data is input into the estimates of national income for the quarterly Australian National Accounts.) The series provides a measure of occupied jobs with no adjustment for multiple job holding.

The survey covers a sample of private employers and government units. Not all employers are covered; the principal exclusions are private employers engaged in agriculture, forestry, fishing and hunting, private households and the permanent defence forces. The series differs from estimates of employed wage and salary earners provided by the Labour Force Survey. For further information see *Employed Wage and Salary Earners*, *Australia* (6248.0).

			()						
		Indust	PA)			Se	ctor		
			''		Gov	ernmen	t		
May	Manufac turing	Wholesale and retail trade	Community services	Other	Common- wealth	State	Total	Private	Total
			MALES						
1985 1986	72.3 73.4	50.6 47.9	37.1 38.6	110.0 110.1	27.7 27.1	55.4 55.5	89.2 88.7	180.8 181.2	270.0 270.0
1987 1988 1989	72.9 73.2 76.7	47.1 53.7 56.7	43.1 42.2 41.0	108.3 113.0 113.6	26.7 25.9 23.3	56.0 55.0 55.3	88.5 86.9 84.4	182.8 195.2 203.6	271.4 282.1 287.9
1990	76.1	53.3	41.0	115.0	22.8	56.0	84.8	203.0	289.1
			FEMALES	5					
1985 1986	21.7 22.4	40.4 40.1	69.6 70.6	57.9 62.9	9.6 9.7	48.6 50.8	60.3 62.8	129.3 133.2	189.6 196.0
1987 1988	24.4 24.2	40.2 46.9	73.5 73.2	68.1 66.2	9.5 9.5	51.6 52.1	63.4 64.1	142.8 146.4	206.2 210.6
1989 1990	26.6 25.8	54.0 51.2	77.0 82.1	67.4 71.3	9.6 10.0	52.8 55.5	64.9 68.1	160.0 162.3	225.0 230.4
			PERSONS						
1985 1986	94.0 95.8	91.0 88.0	106.6 109.2	168.0 172.9	37.3	103.9 106.2	149.5 151.5	310.1 314.4	459.6 465.9
1987	97.2 97.4	87.3 100.6	116.5 115.4	176.5 179.2	36.2 35.4	100.2 107.5 107.1	151.9 151.0	325.6 341.7	477.5
1989 1990	103.2 101.9	110.7 104.5	118.0 126.8	181.0 186.3	33.0 32.8	108.1 111.5	149.3 152.9	363.6 366.6	512.9 519.6

Employed Wage and Salary Earners, South Australia (2000)

UNEMPLOYMENT

Labour Force Surveys

For the purpose of the survey, unemployed persons are those aged 15 years and over who were not employed during the survey week and:

- (a) had actively looked for full-time or part-time work at any time in the four weeks up to the end of the survey week and;
 - (i) were available for work in the survey week, or would have been available except for temporary illness (*i.e.* lasting for less than four weeks to the end of the survey week); or
 - (ii) were waiting to start a new job within four weeks from the end of the survey week and would have started in the survey week if the job had been available then; or

(b) were waiting to be called back to a full-time or part-time job from which they had been stood down without pay for less than four weeks up to the end of the survey week (including the whole of the survey week) for reasons other than bad weather or plant breakdown.

		Numbe	r ('000)		Unemployment rate (per cent) (a)					
	Looking for full–time work					Looking for full–time work					
August	Aged 15–19 years	Aged 20 years and over	Total	Looking for part– time work	Total	Aged 15–19 years	Aged 20 years and over	Total	Looking for part– time work	Total	
1985 1986 (b) 1987 1988 1989 1990	11.2 10.7 14.0 11.2 8.1 8.7	<u>36.5</u> 38.5 38.7 38.4 31.0 38.8	47.7 49.2 52.7 49.6 39.1 47.5	9.3	54.4 56.9 62.1 57.6 46.3 58.0	22.5 22.5 29.8 24.6 18.2 21.5	8.0 8.2 8.2 7.9 6.3 7.7	9.5 9.5 10.2 9.4 7.2 8.7	5.4 5.6 6.4 5.5 4.4 6.2	8.7 8.7 9.4 8.5 6.6 8.1	

Unemployed Persons, South Australia

(a) The unemployment rate for any group is the number unemployed expressed as a percentage of the labour force (i.e. employed plus unemployed) in the same group.(b) Estimates for periods before April 1986 are related to the old definition of employed persons.

Further details may be obtained from the following bulletins: The Labour Force, Australia, Preliminary (6202.0); The Labour Force, Australia (6203.0). In addition, Labour Force, South Australia (6201.4) contains detailed figures for South Australia.

JOB VACANCIES

Estimates of the number of job vacancies are derived from quarterly sample surveys of employers conducted by telephone.

Job Vacancies, South Australia

August	Manufac– turing (a)	Other industries (b)	Total vacancies	Job vacancy rate
	'000	'000	'000	per cent
1985	0.7	3.0	3.7	0.7
1986	(c)0.8	(c)3.5	4.3	0.8
1987	(c)1.0	2.1	3.1	0.7
1988	(c)0.9	1.8	2.7	0.6
1989	(c)1.8	(c)2.1	3.9	0.8
1990	(c)0.6	1.5	2.0	0.4

(a) Australian Standard Industrial Classification (ASIC) Division C.

ASIC Division A-L excluding Division C (Manufacturing), Subdivision 01, 02 (Agriculture etc.), 94 (Private Households (b)Employing Staff) and defence forces.

(c) Subject to sampling variability too high for most practical uses.

Further information is contained in the bulletin Job Vacancies and Overtime, Australia (6354.0).

EMPLOYMENT SERVICES

The Commonwealth Employment Services (CES), administered by the Department of Employment, Education and Training (DEET), assists people seeking employment to obtain positions best suited to their training, experience, abilities and qualifications and assists employers seeking labour to obtain employees best suited to the demands of the employers' particular class of work. The DEET has a wide range of labour market and training programs which have been developed to meet these objectives.

The State Government is also involved directly in employment and training programs designed to alleviate unemployment. The Special Employment Initiatives Unit of the Office of Employment and Training is responsible for developing and administering these schemes.

There are also a number of private employment agencies, all of which are required to register with the Department of Labour.

7.2 INDUSTRIAL RELATIONS

In Australia a unique system of conciliation and arbitration by Government tribunals has been developed, with the Commonwealth and the State Parliaments each passing their own industrial legislation. Under Section 51 of the Constitution, the Commonwealth Parliament may make laws in relation to 'conciliation and arbitration for the prevention and settlement of industrial disputes extending beyond the limits of any one State'. The *Conciliation and Arbitration Act 1904* (Cwlth) is binding only on the parties to a dispute and decisions need not be of general application to an industry.

Employees not specifically covered by Federal awards are subject to State industrial jurisdiction, but where an award or determination of a State industrial tribunal is inconsistent with an award of a Federal tribunal, the latter prevails to the extent of the inconsistency.

Industrial Tribunals

The Australian Conciliation and Arbitration Commission makes determinations on standard hours, national wage cases, the minimum wage, equal pay principles, annual leave and long service leave.

The South Australian legislation governing State intervention in industrial relations is the *Industrial Conciliation and Arbitration Act 1972*, which provides for an Industrial Court, an Industrial Commission and Conciliation Committees.

Employer or employee associations may apply for registration which confers a legal corporate status and allows ready access to the Commission.

Further details regarding State industrial tribunals may be found in the Annual Report of the Industrial Court and Commission.

Employee Associations

At 30 June 1989 there were 135 separate unions, with a total membership of 297,900, operating in South Australia. Although a number of unions exist only in this State, branches of interstate or federated unions account for the majority of total membership. The central labour organisation for the State is the United Trades and Labor Council of South Australia, founded in 1884.

			Members		Proportion of members to total employees				
Year	Separate unions	Males	Females	Persons	Males	Females	Persons		
		'000	,000	,000	per cent	per cent	per cen		
31 December –									
1983	141	174.3	83.5	257.8	62	46	56		
1984	142	<u>171.5</u>	<u>87.0</u>	<u>258.4</u>	<u>60</u>	<u>46</u>	<u>55</u>		
30 June –									
1985	143	183.2	89.9	273.1	65	46	57		
1986	144	178.7	89.7	268.5	63	45	55		
1987	137	184.3	86.6	270.9	66	41	55		
1988	136	183.9	95.3	279.2	63	41	55		
1989	135	187.3	110.6	297.9	63	48	57		

Trade Unions, South Australia

Details of the break in continuity of the series are contained in the bulletin *Trade Union Statistics*, *Australia* (6323.0).

Employer Associations

At the end of December 1989 there were 17 associations of employers registered with the South Australian Industrial Commission. In industrial matters four are dominant:

- (a) the Chamber of Commerce and Industry (SA) Inc. has individual members who subscribe directly to the Chamber for the industrial and other services provided. Where appropriate, members are grouped into trade associations. The Chamber's industrial advocates represent members in the making and variation of awards, and assist members in the settlement of disputes. The Chamber monitors Bills presented to the Parliaments and, where appropriate, makes representations on behalf of its members seeking amendments to legislation;
- (b) the Metal Industries Association, South Australia, represents the varied interests of the State's metal and engineering industry in all facets of industrial relations, education and training (including a group apprenticeship scheme), trade, economic and legislative matters;
- (c) the South Australian Automobile Chamber of Commerce Inc. is an industrial organisation aimed at presenting the interests of employers in the motor industry, both in the retail sector and in the distribution and manufacturing sectors; and
- (d) the South Australian Employers' Federation is an industrial relations-oriented employer body which provides advice and representation to employers engaged in all facets of South Australian industry.

Industrial Disputes

Estimates of industrial disputes are compiled from data obtained from employers, trade unions and government authorities. The statistics relate only to disputes involving stoppages of work of ten man-days or more at the establishments where the stoppages occurred. Effects on other establishments because of lack of materials are excluded. Details of the total number and extent of industrial disputes occurring in South Australia are shown in the following table.

			Working days lost		
Year ended 31 December	Disputes	Workers involved	Total	Per thousand employees	
	No.	'000	'000	No.	
1982	98	34.7	45.5	101	
1983	81	15.8	50.6	115	
1984	80	15.5	25.5	<u>115</u> 56	
1985	88	14.5	22.5	48	
1986	111	58.9	46.3	95	
1987	102	41.4	44.6	91	
1988	87	39.9	47.0	93	

Industrial Disputes, South Australia

Particulars of all disputes in progress during the year are included in the annual figures. Consequently, details of the number of disputes and of workers involved in the disputes which commenced in any year, and were still in progress during the following year are included in the figures for both years. Working days lost are included in the appropriate year. Workers involved in more than one dispute during the year are counted once for each dispute. Workers laid off at the establishment where the stoppages occurred, but who are not themselves parties to the dispute are included. Prior to 1984 estimates of working days lost per thousand employees were calculated using estimates of employees from the labour force survey excluding those employed in agriculture and in private households. From 1984, estimates of employees from the Survey of Employment and Earnings combined with estimates of employees in agriculture and in private households obtained from the Labour Force Survey have been used to derive the denominator. Because of difficulties in identifying all participants in each dispute the statistics should be regarded as giving only a broad measure of the extent of work stoppages.

Further details may be found in the bulletin Industrial Disputes, Australia (6322.0).

7.3 WAGES, HOURS AND LABOUR COSTS

WAGES

Wage Fixation

The Industrial Commission of South Australia has for many years granted flow-ons of the National Wage determination to State awards, largely using the Australian Commission guidelines but with special provisions to allow for South Australian situations. Some details for recent years may be found in the annual report of the Industrial Court and Commission of South Australia and for earlier years on pages 302–3 of the *South Australian Year Book 1984*.

Award Rates of Pay indexes are produced for full-time adult wage and salary earners whose minimum rates of pay are normally varied in accordance with awards, determinations and collective agreements. The indexes are constructed for males and females separately and are based on minimum weekly and hourly award rates. They measure only the relative trends in award rates and have a base of 100.0 at June 1985. Thus they do not reflect any subsequent effects of compositional changes in the labour force or in industry structure. Excluded from the indexes are serving members of the defence forces, employees in agriculture, forestry, fishing and hunting and in private households.

Industry	1989	1990				
ADULT MALES						
	123.0	125.8				
Manufacturing:	124.0	134.0				
Food, beverages and tobacco	124.2	133.5				
Metal products, machinery and equipment	123.4	134.5				
Transport equipment	123.0	133.0				
Other manufacturing (a)	125.9	132.0				
Construction	123.7	130.7				
Wholesale trade	123.5	133.6				
Retail trade	121.2	130.5				
Finance, property and business services	122.6	128.4				
Community services	123.2	127.5				
All industries (b)	122.9	130.5				

Index of Weekly Award Rates of Pay : Wage and Salary Earners, Industry South Australia at 30 June (Base of Index: June 1985 = 100.0)

Industry	1989	1990					
ADULT FEMALES							
Manufacturing:	123.8	133.2					
Food, beverages and tobacco	123.1	129.5					
Metal products, machinery and equipment	124.0	136.3					
Other manufacturing	122.6	130.2					
Wholesale trade	120.5	134.5					
Retail trade	122.1	131.9					
Finance, property and business services	120.6	132.1					
Community services	124.6	128.8					
All industries (b)	123.3	130.8					

Index of Weekly Award Rates of Pay : Wage and Salary Earners, Industry South Australia at 30 June (continued) (Base of Index: June 1985 = 100.0)

(a) Includes wood, wood products and furniture, non-metallic mineral products and miscellaneous manufacturing.
 (b) Excludes employees in agriculture, forestry, fishing and hunting and in private households.

Further details may be found in the bulletin Award Rates of Pay Indexes, Australia (6312.0).

EARNINGS

Various measures of earnings of employees are available, the principal of which is the quarterly average weekly earnings series. A sample survey of employers collects information on earnings in respect of a specified pay week generally at or about the middle of each quarter. Data are sought at a finer level of disaggregation in each December quarter survey. Average weekly ordinary time earnings refers to one week's earnings attributable to award, standard or agreed hours of work. It is calculated before taxation and other deductions and includes over award and penalty pay, shift and other allowances, commissions and retainers and other payments such as bonuses related to the reference period. Weekly total earnings is weekly ordinary time earnings plus weekly overtime earnings. Changes in the average may be affected not only by changes in the level of earnings of employees but also by changes in the composition of the labour force such as variations in the proportion of part–time or junior employees and in the occupational distribution.

Males Females Full-time adults Full-time adults Ordinary All Ordinary Period time Total All males Total females time February 1989 483.10 521.00 480.50 424.60 434.90 318.20 494.20 533.00 442.50 454.30 484.70 321.80 August 501.90 538.10 494.10 448.30 460.10 328.40 November 513.60 558.20 510.20 452.50 464.60 332.20 February 1990 519.40 567.50 457.70 469.40 517.70 347.00 534.90 579.00 524.40 471.70 344.30 461.10

Average Weekly Earnings of Employees, South Australia (Dollars)

For more information, see Average Weekly Earnings, Australia (6302.0).

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A second measure of average weekly earnings is obtained from the employer based survey of Employee Earnings and Hours which has been conducted in May of each year since 1974, except in 1982 and 1984.

		Males			Females			
Weekly earnings	May 1987	May 1988	May 1989	May 1987	May 1988	May 1989		
			per	cent				
Under \$60	3.2	2.3	2.2	7.2	6.5	7.0		
\$60 and under \$140	4.5	4.2	2.5	12.0	12.6	12.3		
\$140 and under \$220	4.6	5.0	4.5	17.1	15.2	15.6		
\$220 and under \$300	9.2	7.0	5.1	18.4	19.7	14.0		
\$300 and under \$380	28.0	20.2	14.3	24.3	18.5	18.8		
\$380 and under \$460	18.9	21.0	20.4	10.5	14.2	15.0		
\$460 and under \$540	12.8	14.1	15.6	7.2	6.4	8.5		
\$540 and under \$620	8.6	9.5	12.7	2.4	4.4	3.9		
\$620 and over	10.3	16.6	22.7	1.0	2.7	4.8		
Total	100.0	100.0	100.0	100.0	100.0	100.0		
			dol	lars				
Median weekly earnings	396.90	420.30	465.30	286.00	287.00	306.10		
Mean weekly earnings	420.70	444.50	490.00	276.80	292.20	306.60		

Distribution of Average Weekly Earnings of Employees, South Australia

For details of the standard errors involved and for more information on the survey, see Earnings and Hours of Employees, Distribution and Composition, Australia (6306.0)

The survey provides a measure of the size of and movements in the various components of earnings (*i.e.* award and over award pay, overtime pay and payment by measured result) and in earnings by occupation. It also produces median earnings (the level where half of recipients receive less and half receive more) for many different groupings of employees as well as data on average hourly earnings and a distribution of employees by levels of earnings.

A third source of data on average weekly earnings of employed wage and salary earners is an annual household based survey conducted each August in conjunction with the labour force survey. It is also a second source of a distribution of earnings, distributions by variables such as age and industry being available. However, weekly earnings refer to the amount of 'last total pay' (or weekly equivalent) prior to the interview with no adjustment being made for any back pay or prepayment. For more information, *see Weekly Earnings of Employees (Distribution), Australia* (6310.0).

HOURS OF WORK

The following table shows the relative distribution of employed civilian wage and salary earners in South Australia according to the number of hours worked in a specified week, as recorded in the August labour force surveys. The distribution is based on actual hours worked in all jobs, including overtime, rather than hours paid for, and is therefore affected by public holidays, leave, absenteeism, temporary absence from work because of sickness, accident and industrial disputes, and work stoppages caused by plant breakdowns and weather.

	Proportion who worked the following hours in the specified week							
August 0	0	1–29	30–34	35–39	40	4148	49 and over	Total
1986 <i>(b)</i>	4.8	20.6	8.3	21.7	21.4	12.6	10.7	100.0
1987	4.7	21.6	7.0	22.7	19.7	13.3	11.1	100.0
1988	5.3	21.5	8.6	21.5	17.6	13.7	11.7	100.0
1989	5.1	22.2	8.7	21.3	17.5	13.9	11.3	100.0
1990	4.9	22,4	7.7	22.2	16.5	13.6	12.8	100.0

Employed Wage and Salary Earners : Hours Worked South Australia(a)

(a) Employed civilian population, fifteen years of age and over.

(b) From April 1986 employed persons include those who worked without pay between 1 and 14 hours per week as unpaid family helpers.

Overtime

Information about overtime hours worked is obtained from a quarterly sample survey of employers. For the purposes of the survey, 'overtime' is time worked in excess of award, standard or agreed hours of work for which payment is received. Excluded is any overtime for which employees would not receive payment, *e.g.* unpaid overtime worked by managers, normal shiftwork and standard hours paid at penalty rates. Overtime hours represent the number of hours of overtime paid for.

	ł	Average weekly	overtime hou	irs	n .'	с I
August	Per employee in the survey			nployee overtime	Proportion of employee. in the survey working overtime	
	Hours	Standard error	Hours	Standard error	Per cent	Standard error
1986	1.08	0.10	5.67	0.14	19.09	1.96
1987	0.94	0.07	6.06	0.31	15.48	0.82
1988	1.03	0.07	6.44	0.28	16.02	1.01
1989	1.28	0.08	7.41	0.23	17.26	0.86
1990	1.06	0.09	6.61	0.33	16.03	1.44

Overtime, South Australia

For further information to May 1989 see Overtime, Australia (6330.0). From August 1989, information is contained in the bulletin Job Vacancies and Overtime, Australia (6354.0).

LABOUR COSTS

A comprehensive Survey of Labour Costs was conducted by the ABS for the first time in respect of 1986–87. The two–part survey of employers measured costs incurred by employers in employing labour and amounts paid for time not worked as well as those paid for time worked.

The first part of the survey measured the 'major labour costs' to employers of gross wages and salaries, payroll tax, workers' compensation payments, contributions for superannuation and fringe benefits tax. This part of the survey has been conducted annually and results for two years are shown in the following tables.

	Ave	Average costs per employee				Costs as a percentage of major labour costs			
	1987	788	198889		1987–88		1988–89		
Type of cost	Private	Public	Private	Public	Private	Public	Private	Public	
	\$	\$	\$	\$	per cent	per cent	per cent	per cent	
Earnings Other labour costs:	18,945 2,035	24,066 3,362	20,135 2,146	25,673 4,080	90.3 9.7	87.7 12.3	90.4 9.6	86.3 13.7	
Payroll tax Superannuation Workers compensation	578 657 684	654 1,810 826	667 691 676	803 2,448 755	2.8 3.1 3.3	2.4 6.6 3.0	3.0 3.1 3.0	2.7 8.2 2.5	
Fringe benefits tax	20,980	72 27,428	22.281	73 29,752	0.6	0.3	0.5	0.2	

Major Labour Costs, South Australia

Superannuation Costs, South Australia^(a)

	1987-	-88	1988–89		
Particulars	Private	Public	Private	Public	
Cost per employee covered (\$) Percentage of employees covered	1,793 36.7	4,052 44.7	1,724 40.1	2,675 91.5	

(a) For further information see Major Labour Costs, Australia (6348.0).

Note: Public and private sector superannuation costs are not directly comparable because these sectors meet their superannuation liabilities in different ways.

The second part measured 'wage costs' dissected into payments for time worked and payments for time not worked, using the same sample of employers as for the first part. Included are details of annual leave, sick leave, long service leave, infrequent bonuses, public holidays and total hours paid for. This enables costs per hour worked to be calculated as well as costs per hour paid. Some summary results are shown below.

Total Labour Costs, South Australia, 1986–87^(a)

	Average costs per hour worked (Dollars)					
Type of cost	Private	Public	Private and public			
Earnings	11.39	14.72	12.43			
Gross wages and salaries:	11.23	14.52	12.26			
Payments for time worked	10.16	12.26	10.81			
Annual leave	0.62	1.29	0.83			
Other leave and bonuses	0.46	0.97	0.62			
Severance, termination and redundancy payments	0.16	0.20	0.17			
Other labour costs	1.22	1.94	1.45			
Payroll tax	0.35	0.41	0.37			
Superannuation	0.37	1.09	0.60			
Workers compensation	0.45	0.42	0.44			
Fringe benefits tax	0.05	0.03	0.04			
Total labour costs	12.62	16.66	13.88			
Payments for time worked	10.16	12.26	10.81			
On costs	2.46	4.40	3.07			

(a) For further information see Labour Costs, Australia (6349.0).

HOLIDAYS AND LEAVE

Public Holidays

A number of days are observed each year throughout the State as public holidays and additional days may be proclaimed either on a State–wide basis or applicable to particular localities. Authorised public holidays are:

New Year's Day (1 January or the following Monday if that day falls on a Saturday or Sunday),

Australia Day (first Monday after 25 January),

Good Friday,

Easter Saturday,

Easter Monday,

Anzac Day (25 April or the following Monday if 25 falls on a Sunday),

Adelaide Cup Day (third Monday in May),

Queen's Birthday (usually observed on a Monday early in June),

Labour Day (second Monday in October),

Christmas Day (25 December or the following Monday if 25 falls on a Saturday or Sunday), and Proclamation Day (28 December or the following Monday if 28 falls on a Saturday or Sunday).

Annual Leave

Under Federal awards generally, four weeks paid annual leave is granted to employees who have completed twelve months continuous service. Under State awards the Commonwealth standard of four weeks annual leave has generally been adopted. Certain employees in special occupations or where regular shift work is involved *e.g.* police officers, nurses etc. are entitled to annual leave in excess of four weeks. In 1973 the South Australian Industrial Commission handed down a decision which enabled part–time workers, when taking annual leave, to be paid the normal weekly wage that they would have received had they been at work.

Payment in lieu of annual leave or proportionate leave on termination of employment must be made to all employees, whether subject to an award or not, irrespective of the reason for, or manner of, termination of the employment.

Sick Leave

The *Industrial Conciliation and Arbitration Act 1972* provides that all full-time employees whether bound by an award or not, shall be eligible to receive annually not less than ten days cumulative sick leave on full pay. The Act was amended from February 1982 to enable employees to take sick leave when ill for more than three consecutive days during annual leave. Most Federal awards provide for two weeks sick leave a year.

Long Service Leave

The South Australian *Long Service Leave Act 1967* entitles employees in respect of continuous service after 1 January 1972, to thirteen weeks leave for each ten years service. The obligation to grant leave is imposed on all employers in South Australia although the Industrial Commission has the power to exempt an employer where the employees involved have access to benefits not less favourable than those prescribed by the Act.

Entitlement to long service leave also applies to casual employees, provided that the service with the employer is continuous within the meaning of the Long Service Leave Act.

State and local government employees are in general entitled to ninety calendar days leave after ten years service. However, from 1 July 1975, State public servants with over fifteen years continuous

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service accumulate long service leave at the rate of fifteen days leave per year for each year of service after the fifteenth. Australian government employees are entitled to three months after ten years of service, while those covered by other Federal awards or agreements generally receive at least 13 weeks leave after 15 years of service.

The various long service leave arrangements provide for additional *pro rata* periods of leave for service in excess of the minimum, and for *pro rata* payments for employees who have completed a specified term of service but who, through the termination of their services or through death, do not complete the full entitlement period.

Maternity Leave

Maternity leave provisions are inserted in most South Australian awards. The South Australian provisions are based on those granted in March 1979 by the Australian Conciliation and Arbitration Commission for Federal awards. The provisions allow full-time or part-time employees with not less than twelve months continuous service, to take a minimum of six weeks or a maximum of fifty-two weeks maternity leave without pay. Seasonal and casual workers are not eligible.

Chapter 8

LAND SETTLEMENT AND DEVELOPMENT

8.1 LAND TENURE

IDENTIFICATION OF LAND AND REGISTRATION OF TITLES

To facilitate the identification of land, the southern portion of the State encompassing all the arable land and certain pastoral areas has been subdivided into counties and these in turn have been generally subdivided into smaller units known as hundreds.

There are currently forty-nine counties (covering 23 per cent of the State), the last of these being declared in 1933. The counties have an average size of 463,000 hectares, varying from County Light, north of Adelaide, with 217,470 hectares to County Jervois on Eyre Peninsula with 959,000 hectares.

Counties are generally subdivided into hundreds, although four northern counties remain undivided and a number of others are only partly subdivided. There is considerable variation in the size of hundreds, while the number of hundreds in a completely subdivided county varies from eight in Counties Alfred and Kintore to thirty-four in County Jervois. New hundreds are created occasionally, the present total being 536. Hundreds are further subdivided into sections which in turn may be divided into allotments or occasionally blocks.

Land is therefore, for the purposes of title, identified by the county, hundred, and section, and, where appropriate, block or allotment within which it falls. Land in towns and in proclaimed irrigation areas may further be identified as falling within that town or area.

Torrens System of Land Registration

Land transactions in South Australia are conducted under the Torrens System of land registration as provided by the *Real Property Act 1886*. This system, first introduced by the *Real Property Act 1858*, was named after its author, Sir Robert Torrens, who was at that time Registrar–General of the Colony.

The Torrens System provides that the matter of title to land shall be a government responsibility. Each piece of land is represented by a certificate of title which, with very few (and in practice unimportant) exceptions, is guaranteed by the State. Retrospective examination which is necessary with general law title is eliminated and the costs and time involved in conveyancing can thus be kept to a minimum.

An amendment to the Real Property Act in 1967 provided for the creation of interests in land by a three-dimensional division of the land into strata units by means of strata plans. Through legislative change the *Strata Titles Act 1988* repealed and replaced this provision. The new Act maintains the strata concept and introduced reforms towards its enahncement. A strata plan creates individual private rights (as well as common entitlements in the property depicted in the plan).

CURRENT TENURE

In the table below, land in South Australia is classified according to its present form of tenure. Land sold, dedicated and under agreement to purchase does not represent the accumulated total of all alienated lands as certain alienated lands repurchased by the Crown are currently held under leases.

Particulars	Area	Proportion
	hectares	per cent
Lands sold and dedicated	26,044,518	26.45
Lands held under agreement to purchase	72,230	0.07
Lands held under lease	49,113,543	49.89
Fresh water lakes	90,973	0.09
Salt water lakes and lagoons	3,107,986	3.16
National parks	13,101,628	13.31
Flinders Chase	55,685	0.05
Aboriginal reserves	778,992	0.79
Unleased vacant lands etc.	6,072,223	6.17
Total area of South Australia	98,437,778	100.00

Land and Reserves Tenure, South Australia, 30 June 1990

In 1901 the area sold, dedicated and held under lease and agreement to purchase, *i.e.* the area occupied, was 37,934,751 hectares, increasing to 57,472,548 in 1924, but falling to 52,370,744 in 1931 because of decreased areas under pastoral lease.

LAND ADMINISTRATION

Approximately sixty-three per cent of the State comprises Crown Tenures controlled by the Department of Lands. The other thirty-seven per cent is freehold, National Park or Aboriginal reserve.

There is very limited allocation of Crown land to private individuals and this is usually arranged by competitive process including auctions. This land can be allocated to private individuals either as a separate lease (pastoral or miscellaneous), freehold or added to an existing perpetual lease. Sale of freehold from the Crown is for cash or by Agreement to Purchase.

Pastoral land is held under forty-two year leases which may be extended after fourteen years to a maximum of forty-two years dependent on good land management. Rent is based on fair market rent for the stock levels carried.

Perpetual leases cover approximately eight per cent of the State. No new lands are released in this tenure. In the safe agricultural areas these leases may be converted to freehold.

Land used for public purposes is dedicated as a reserve for a particular purpose and allocated to an agency or group for their control. This includes national parks, forest and Aboriginal reserves.

Aboriginal freehold land has been granted to the Pitjantjatjara and Maralinga peoples. This freehold is inalienable from the Aboriginal people.

8.2 TOWN AND REGIONAL PLANNING

There are many competing demands on South Australia's resources and as the population grows, so do the demands for housing, community facilities, industry, transport, recreation and conservation. Careful planning is needed to meet the changing needs of the community in a way that encourages development while safeguarding the quality of the State's environment.

In South Australia, development is controlled under the *Planning Act 1982*. The Act is designed to plan for and encourage development throughout the State while at the same time protecting the natural and built environment.

Planning policies, which provide the basis for the control of development, are consolidated in one overall plan known as the Development Plan. Local government authorities and the State Government use this plan, together with a common set of administrative procedures, known as the Development Control Regulations, to consider development applications. These regulations apply throughout the State except for the Adelaide City Council which has its own planning controls.

In most instances local government authorities are responsible for preparing planning policies which define what sort of activities are allowed in different parts of their local area. Any changes to these policies are placed on public display to give people the opportunity to comment and determine the future of their area.

The majority of planning decisions are made by local government authorities, but where proposals affect areas or places of State significance, applications are sent to the South Australian Planning Commission for decision. Generally, a person wishing to undertake a development, including land division, should first approach the relevant local government authorities. If a project is highly controversial or likely to have a major social, economic or environmental significance, an environmental impact statement may be required by the Minister for Environment and Planning. The Planning Act integrates environmental impact assessment with planning controls to ensure that the environmental effects of proposed developments are fully considered. The Governor also has powers to intervene and make final decisions on major development proposals.

The South Australian Planning Commission advises the Minister for Environment and Planning on matters relating to the development of land. It also coordinates comments from various State government agencies on certain development applications and advises relevant local government authorities.

The Minister for Environment and Planning also receives advice from the Advisory Committee on Planning on urban and regional planning, and in particular, on proposed changes to planning policies in the Development Plan. People can also challenge decisions made by councils or the South Australian Planning Commission by applying to an independent body known as the Planning Appeal Tribunal.

Planning also involves protecting the fabric of South Australia's history. Heritage is reflected in buildings and places where activities and historic events took place – city buildings, churches, workmen's cottages, geological monuments and mining towns to name a few. Various landscapes and trees also provide important reminders of the State's natural history.

The State Government has a program to conserve the State's non-Aboriginal heritage. This is achieved primarily through the *South Australian Heritage Act 1978* and is managed by the State Heritage Branch, Department of Environment and Planning. A register of significant heritage properties known as the Register of State Heritage Items has been set up to protect important sites and places. Ninety-four items were entered on the Register during 1989–90 and a further 194 items were placed on the Interim List of State Heritage Items.

Owners of heritage properties are required to seek approval from their local councils for any changes they wish to make to items on the Register. During 1989–90, 631 applications for development of heritage items were processed.

A State Heritage Fund has been set up to encourage the conservation of registered properties by providing loans and grants to owners of registered properties. The Department provides them with technical advice about various ways of conserving and adapting old buildings.

The conservation and restoration of shipwrecks is also encouraged under the *Historic Shipwrecks Act 1981*. Thirty–two shipwrecks have been declared and formally protected.

Coast Protection

South Australia has a coastline of 4,000 kilometres from the Great Australian Bight to the South East. A Coast Protection Board has been established to protect the coast from erosion, storm damage, pollution and misuse. The Board also has the power to develop and improve the coast for the use and enjoyment of the community.

The coastline has been divided into seven coast protection districts to enable the Board to manage its work program. Management plans have been prepared for most districts and these plans set out the measures needed to carefully protect and develop the coast.

The Board makes grants to councils to assist them with protective works and conservation and rehabilitation projects. During 1989–90 \$186,000 was spent on these activities. The Board also initiates scientific and engineering studies to provide a sound basis for future development and protection.

The sand dunes along Adelaide's coastline have been removed or covered with houses and their natural function of cushioning storms has been reduced. As a result, some of Adelaide's metropolitan beaches are losing sand and the Board operates a beach replenishment program to restore the foreshore. Over \$2,500,000 was spent on this major program in 1989–90 with most of the sand being obtained from Torrens Island and off-shore at North Haven.

8.3 WATER SUPPLY AND SEWERAGE

WATER SUPPLY

The *Waterworks Act 1932* gives the Minister of Water Resources the power to divert and impound water from any source for the purpose of supplying water to any part of the State.

This power is now curtailed by the *Water Resources Act 1990*, which provides for the control and management of water resources.

The Minister is empowered under this Act to construct, maintain and operate the infrastructure necessary to deliver water to consumers and to charge a rate for this service.

The *Water Resources Act 1990* provides for the management of the water resources of the State by the Minister of Water Resources to preserve water quality and to provide for the sharing of available water on a fair basis.

Its provisions include the establishment of a South Australian Water Resources Council, Water Resources Committees, the Water Resources Appeal Tribunal and Water Well Drilling Committee. Ten Regional Water Resources Committees: River Murray, Northern Adelaide Plains, Arid Areas, North Para, Angas–Bremer, Lower South East, Southern Vales, Upper South East, Mallee and Eyre Regions have been established.

The aggregate storage capacity at 30 June 1990 for Adelaide Metropolitan reservoirs was 202,040 megalitres and 32,678 megalitres for country reservoirs.

It should be noted that storage includes service reservoirs and that both natural intake and River Murray water are stored in Northern and Metropolitan reservoirs. The total length of water mains at 30 June 1990 was 23,891 kilometres.

The *Water Conservation Act 1936* provides for the control of small reservoirs, bores, tanks etc. established in certain remote areas as emergency water supplies or to assist local development.

Water Filtration

Adelaide's first water filtration plant at Hope Valley began supplying filtered water to the Metropolitan Distribution System in November 1977. Since then, plants have been commissioned at Anstey Hill, Barossa and Little Para and Morgan. Construction is underway on a plant at Happy Valley which will be completed in two stages. The first stage came on line in November 1989, the second will be completed in mid–1991.

DISTRIBUTION OF WATER RESOURCES

Drainage Systems

In agreement with the States, the Australian Water Resources Council has divided Australia into twelve surface water drainage divisions. The divisions which constitute major surface water resources for South Australia are the South Australian Gulf Drainage Division, which lies wholly within the State and in which are located all important State reservoirs, and the Murray–Darling Division, of which only a part is located in South Australia, and the waters of which are allocated between this State, Victoria, and New South Wales in accordance with the terms of the Murray–Darling Basin Agreement (*see* page 154).

Part of the large Lake Eyre Drainage Division covers the northern and eastern areas of the State, but, although streams in the area may flood extensively on occasions, they are generally unreliable and significant only to the local pastoral industry. The section of the South–East Coast Drainage Division which intrudes into the south–east corner of South Australia has no good dam sites but a high rainfall in the area provides a good underground water resource of considerable importance to the State. Underground resources on the seaward edge of the Western Plateau Division, which covers the south–western part of the State, are recharged also from local rainfall.

South Australian Gulf Drainage Division

The eastern boundary of this Division is formed partly by the Mount Lofty Ranges, which rise to a maximum of 727 metres east of Adelaide and to over 1,000 metres north of Burra, and further north it follows the Flinders Ranges which reach a height of 1,166 metres at St Mary Peak. The boundary then rounds Lake Torrens and, further south, the western boundary is formed by a discontinuous line of hills on Eyre Peninsula. Kangaroo Island is also included, so that in all, the Division covers the whole perimeter of the South Australian gulfs. The individual river basins in this Division are all very small. Most of the South Australian reservoirs are situated in this Division.

Reservoir	Capacity	Area at full supply level	Catchment area
	megalitres	hectares	km ²
South Para	51,300	444	221
Mount Bold	45,900	308	388
Myponga	26,800	280	124
Little Para Dam	20,800	150	82
Kangaroo Creek	19,000	104	290
Millbrook	16,500	178	<i>(a)</i>
Happy Valley	12,700	188	(a)
Tod River	11,300	134	(a)
Bundaleer	6,370	80	(a)
Baroota	6,120	63	129
Warren	4,770	105	119

Major Reservoirs, South Australia, 30 June 1989

(a) Offstream reservoir. Water is largely diverted from other catchments.

Rainfall in excess of 750 millimetres a year occurs only on a very small area in the Mount Lofty Ranges, while in the north-west of the Division the annual average is less than 150 millimetres. In the southern parts of the Division, average precipitation generally exceeds potential evaporation only from May to August, and over most of the Division monthly evaporation rates exceed rainfall throughout the year.

After the major dam sites in the Mount Lofty Ranges had been developed because of the small size of the individual catchments in the Division, and the relatively low run-off and its high variability, it was found more economical to provide additional water to Adelaide and other high demand centres *via* pipelines from the River Murray. No further reservoirs or major pipelines for

metropolitan Adelaide will need to be built this century. When augmentation of the water supply system is necessary in the first part of the next century it is likely that the supply source will be the River Murray, possibly by way of another pipeline plus a new reservoir in the Mount Lofty Ranges to act as a balancing storage for River Murray water.

The present average annual extraction of water by the Engineering and Water Supply Department from the Gulf Drainage Division is about 138,000 megalitres from surface and groundwater; private diversion may take a further 98,000 megalitres.

River Murray

The River Murray is the most important source of water supply for South Australia. Under the terms of the Murray-Darling Basin Act 1983 (see page 160), South Australia is entitled to 1,850,000 megalitres of water annually, subject to the declaration of restriction by the Murray-Darling Basin Commission. Losses by evaporation and seepage account for about 800,000 megalitres per annum. In recent years, irrigation diversions have averaged 422,000 megalitres per annum and town, domestic, industrial and stock supplies have averaged 105,000 megalitres per annum.

Adelaide metropolitan water supplies are supplemented by River Murray water through the Mannum-Adelaide (67 kilometres) and Murray Bridge-Onkaparinga (48 kilometres) pipelines. The Morgan-Whyalla (359 kilometres), Swan Reach-Stockwell (53 kilometres) and Tailem Bend-Keith (143 kilometres) pipelines provide the water supply for extensive country areas or augment local resources in these areas.

Metropolitan Water Supply

In the following table, details of metropolitan services as well as revenue and expenditure are given for the metropolitan water supply district for the last five years.

Adelaide Metropolitan Waterworks ^(a) , South Australia							
Particulars	1985–86	1986–87	1987–88	1988–89 (b)	1989–90		
Length of mains (kilometres)	7,893 349,687	8,024 355,169	8,106 360,818	8,180 365,954	8,254 371,663		
			\$'000				
Revenue: Rates and other services Expenditure:	99,805	109,666	125,604	137,458	146,858		
Working expenses	46,677 35,174	45,088 41,779	50,108 45,759	59,375 44,630	68,510 49,995		
Total	81,851	86,867	95,867	104,005	118,505		
Surplus	17,954	22,799	29,737	33,453	28,353		

· (a)

(a) Includes particulars relating to near country areas supplied by extensions of the Metropolitan distribution system.
 (b) Because of new financial reporting methods used from 1988-89, the financial results are not comparable with those of

previous years.

Water Consumption

The following table gives details of water used during the year and storage capacity of major reservoirs at the end of the year for metropolitan and country districts for the last five years. The quantity of water pumped from the River Murray through the major pipelines is also shown.

Particulars	198586	1986–87	198788	198889	1989–90
Capacity of major storages (at end of year):					
Adelaide metropolitan water supply (a)	202,040	202,040	202,040	202,040	202,040
Country water supply	32,678	32,678	32,678	32,678	32,678
Water consumption:					
Adelaide metropolitan water supply (b)	172.000	162,000	180,000	183.000	183,000
Country water supply (c)	84,000	77,000	85,000	82,000	83,000
Pumped from River Murray:					
Mannum–Adelaide Pipeline	50,200	29,500	33,900	38.000	35,900
Murray Bridge–Onkaparinga Pipeline	39,800	7.800	21,600	21.600	22,100
Morgan–Whyalla Pipeline	24,300	23,400	28,500	28,000	22,400
Other supply systems	22,700	14,300	13,600	12,700	13,700

Water Storage and Consumption, South Australia (Megalitres)

(a) Includes storages on the Mannum-Adelaide and Murray Bridge-Onkaparinga Pipelines.

(b) Consumption within the Adelaide Statistical Division

(c) Includes consumption in various areas outside of the Adelaide Statistical Division supplied from the Metropolitan distribution system.

Other Water Resources

Underground basins, augmented to a small degree by water pumped from the River Tod, provide most of the water supply on Eyre Peninsula. In contrast, the South East is well endowed with natural spring waters. The Blue Lake provides about 4,000 megalitres annually to Mount Gambier. There are also considerable underground water resources in the region.

Many other areas of the State are dependent on underground supplies, particularly for stock drinking water. The aquifers of the Northern Adelaide Plains provide the major source of water for market gardens and related irrigation, but the demand level has been found to be beyond the permanent capability of the area and usage is subject to controls by a licensing system and metering of wells.

SEWERAGE

ADMINISTRATION

Sewerage of cities and towns in South Australia is undertaken by the State Government under the authority of the *Sewerage Act 1929*. The Act is administered by the Engineering and Water Supply Department for the Minister of Water Resources and provides for water borne sanitary sewerage schemes within proclaimed drainage areas. It also empowers the Minister to determine and police the standard of private plumbing connected to the system as part of a total sanitary package. As a general rule the Government sewerage schemes are provided only in densely populated cities and towns where they are essential for public health, or in areas where it is necessary to protect surface or underground water resources from pollution by domestic or industrial wastes.

Local government authorities are empowered under the *Local Government Act 1934* to provide sanitary drainage schemes and since 1962 these authorities have installed common effluent drainage schemes in 84 townships providing more than 40,000 connections throughout the State.

METROPOLITAN SEWERAGE

Sewerage for Adelaide was first authorised by an Act of Parliament in 1878. Construction began in 1879 and by 1881 sewage from the city and inner suburbs was admitted to a sewage farm at Islington. Since then continual expansion of sewerage systems has kept pace with development of

the metropolitan area as far as physical and financial factors permit and Adelaide is now the most completely sewered of the Australian capital cities.

			,				
Particulars	1984–85	1985–86	1986-87	198788	1988–89 (a)	1989–90	
Adelaide drainage area (km^2)	698	699	700	700	700	700	
Length of sewers (km)	5,402	5,438	5,635	5,663	5,722	5,818	
Number of connections	359,626	364,597	374,876	380,680	386,478	391,509	
	\$'000						
Revenue:							
Rates and other services Expenditure:	62,894	65,905	72,345	78,238	85,617	93,755	
Working expenses	24.949	27.672	28.057	29.695	37,874	47,211	
	· /· · · ·			,			
Interest	27,309	27,210	30,624	32,070	27,940	30,749	
Total	52,258	54,882	58,681	61,765	65,814	78,029	
Surplus	10,636	11,023	13,644	16,473	19,803	15,726	

Metropolitan Sewers, South Australia

(a) Because of new financial reporting methods used from 1988-89, the financial results are not comparable with those of previous years.

A large number of common effluent drainage systems have been installed in fringe areas by local government authorities and some of these have been, or are planned to be, connected to the sewerage systems. A charge for each house connected is levied against local government authorities whose common effluent drainage systems discharge to sewer mains. Property owners pay an annual rate for the service to the local government authority concerned.

COUNTRY SEWERAGE

At 30 June 1990 the drainage areas of country sewerage schemes constructed and operated by the Engineering and Water Supply Department totalled 14,643.7 hectares; the length of sewers laid was 966 kilometres and the number of connections totalled 46,127. Sewerage schemes are located at Angaston, Balhannah–Oakbank, Gumeracha, Hahndorf, Lobethal, Mannum, Millicent, Mount Gambier, Murray Bridge, Myponga, Naracoorte, Port Augusta, Port Lincoln, Port Pirie, Stirling, Victor Harbor, Whyalla, and Aldinga.

8.4 IRRIGATION AND DRAINAGE

IRRIGATION

Since 1978 the administrative authority for irrigation in irrigation areas has been the Engineering and Water Supply Department and the constructing authority was the Minister of Water Resources.

A more detailed historical discussion of irrigation in South Australia was included on pages 314–6 of the *South Australian Year Book 1970*.

Irrigation areas are confined almost exclusively to the Murray Valley and can be classified into two groups; highland areas requiring the pumping of water, and reclaimed lands watered by gravitation. During 1989–90, 499,000 megalitres of water were diverted from the River Murray in South Australia for irrigation purposes.

Highland Areas

With the major exception of the Mypolonga Irrigation Area, highland irrigation is located in the hot and dry zone along the River Murray between Morgan and the Victorian border.

These areas are largely devoted to vineyards and citrus and stone fruit orchards which are irrigated by water pumped and distributed *via* open concrete–lined channels or low pressure piped mains. The Government is currently engaged in a major program of rehabilitating those areas still using channels, which are being replaced by sealed pipe mains and metered connections to each property in the Government irrigation areas.

Landholders on Government controlled areas and in private areas constituted under special Parliamentary Acts, pay an annual rate for irrigation and a charge is made for additional water, either on a measurement basis where meters have been installed, or on an hourly basis where channels are still utilised. The Renmark Irrigation Trust also supplies water on a volume basis to landholders in its district.

Irrigation systems must also provide for the removal of surplus water which accumulates beneath the surface of the land. Holdings have internal drainage systems leading to comprehensive drainage systems which convey the water to evaporation basins.

Reclaimed Areas

On the lower Murray between Mannum and Wellington, a series of swamp and overflow areas have been reclaimed by Government and private agencies.

Approximately 526 hectares of highlands adjacent to reclaimed areas have also been developed for the production of fodder crops through the use of spray irrigation and there are 327 hectares at Mypolonga used for horticulture.

In 1989–90 there were 17,000 hectares of Government controlled areas (13,000 hectares highland and 4,000 hectares reclaimed land) and 25,900 hectares of non–Government areas irrigated (24,000 hectares highland and 1,900 hectares reclaimed swamp land).

MURRAY-DARLING BASIN AGREEMENT

The River Murray Waters Act Amending Act 1987, ratified the Murray–Darling Basin Agreement of October 1987. It also amended the previous River Murray Waters Act 1983 (Cwlth) to unite this Agreement and the existing River Murray Waters Agreement 1982 (Cwlth) as the agreed basis between the Governments of New South Wales, Victoria, South Australia and the Commonwealth for managing the natural resources of the Murray–Darling Basin, and changed the title of the River Murray Waters Act to the Murray–Darling Basin Act.

The Act provides for constitution of the Murray–Darling Basin Ministerial Council, the Murray– Darling Basin Commission and a Community Advisory Committee as the institutional foundation for joint government and community action.

The new Commission encompasses the regulatory responsibilities previously provided for under the River Murray Waters Agreement as well as responsibilities for land, environmental and water matters not covered in that Agreement.

RURAL DRAINAGE

With the exception of the reclaimed areas along the lower Murray and certain works associated with metropolitan development, drainage schemes in South Australia are confined to the south–east corner of the State. The area of main benefit has been assessed at 697,430 hectares.

Approximately 1,855 kilometres of drains and 1,226 associated structures, e.g. bridges, weirs etc., have been constructed over the past 125 years. These drains vary considerably in size from only a few metres to over 90 metres bottom width.

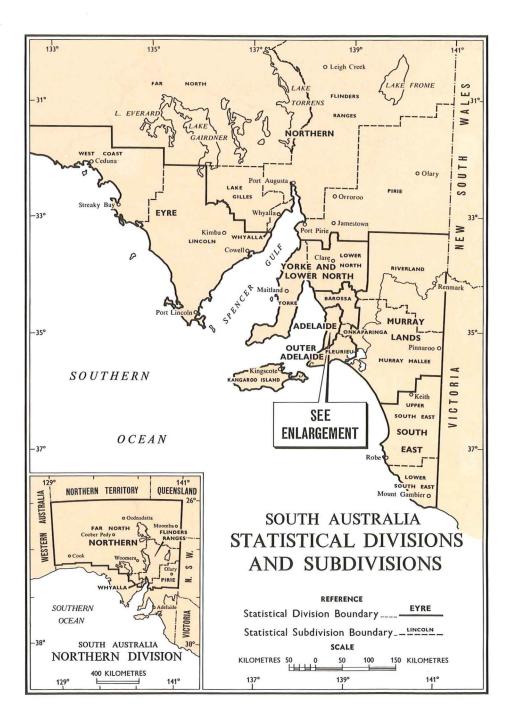
The system is controlled by the South–Eastern Drainage Board under the South–Eastern Drainage Act 1931.

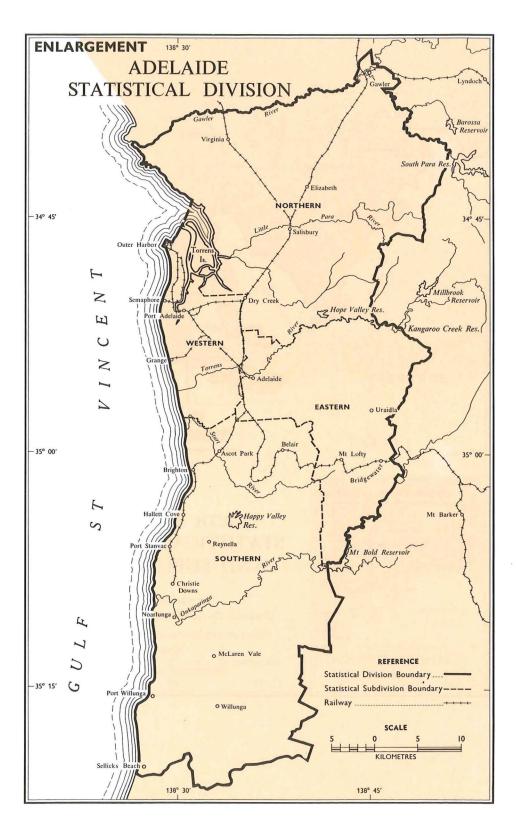
8.5 STATISTICAL DIVISIONS AND SUBDIVISIONS

For the purpose of presenting the statistical series of South Australia, the State is divided into a number of areas which are entitled statistical divisions. Although boundaries should remain unchanged over time so as to enable comparisons to be made of constant areas, growth in some areas, together with the adoption of the Adelaide Statistical Division for the 1966 Census, made it desirable to review the boundaries and to select a new group of statistical divisions.

The new divisions were designed to represent closely allied and meaningful areas of production and community interest and where areas smaller than divisions were considered to be important, subdivisions were introduced.

Maps showing statistical divisions and subdivisions are shown on pages 159 and 160. A more detailed article together with descriptions of the divisions and subdivisions was included on pages 135–43 of the *South Australian Year Book 1977*.





HOUSING AND BUILDING

9.1 HOUSING

DWELLINGS : CENSUS DATA

Information on housing is obtained mainly from particulars of dwellings collected at each census. For Census purposes a dwelling equates to a household. A household is defined as either a person living alone or a group of people living together as a single domestic unit with common eating arrangements. This means that the total number of dwellings counted in the Census may be more than the total number of known structures in any given area. For the 1986 Census dwellings are classified into four basic groups: occupied private dwellings, occupied caravans etc. in caravan parks, unoccupied private dwellings and non-private dwellings. Further details of the Census definitions can be obtained from the *Census Dictionary* (2174.0).

In the 1986 Census persons living in caravans etc. in caravan parks were treated as separate households in the same way as persons living in private dwellings whereas in previous Censuses they were treated as part of a non-private dwelling.

Dwelling counts from the ten Censuses to 1986 are shown in the next table. Figures for Censuses before 1966 exclude dwellings occupied solely by full-blood Aborigines and because of the revised treatment of caravans in caravan parks, data for 1986 are not directly comparable with those from previous Censuses.

		Occupied			
Census	Private	Non–private	Total	Unoccupied	Total dwellings
1921	104,295	3,619	107,914	4,431	112,345
1933	136,611	2,663	139,274	5,353	144,627
1947	166,118	2,420	168,538	3,547	172,085
1954	212,095	3,206	215,301	8,524	223,825
1961	259,344	2,564	261,908	17,061	278,969
1966	299,933	2,693	302,626	25,110	327,736
1971	342,064	2,048	344,112	30,553	374,665
1976	390,514	1,739	392,253	39,768	432,021
1981	432,136	1,703	433,839	42,407	476,246
1986	(a)475,987	1,631	474,456	48,546	526,164

Dwellings in South Australia, Censuses 1921 to 1986

(a) Includes 3,162 caravans etc. in caravan parks.

Occupied Dwellings

The next table gives details from the 1986 Census of dwellings and their occupants, according to the class of dwelling.

	Dw	vellings	Persons		
Structure	Proportion Number of total		Number	Proportion of total	
Separate house	367,423	69.8	1,083,816	80.5	
Semi-detached house	32,689	6.2	85,342	6.3	
Row or terrace house	3,122	0.6	5,322	0.4	
Other medium density	57,738	11.0	95,492	7.1	
Flats over three storeys	2,106	0.4	3,534	0.3	
Caravan etc. in caravan park	3,162	0.6	5,881	0.4	
Other caravan, houseboat etc.	988	0.2	1,977	0.2	
Improvised dwelling	606	0.1	1,656	0.1	
House or flat attached to shop or office	2,520	0.5	7,137	0.5	
Not stated	5,633	1.1	14,689	1.1	
Total occupied private dwellings	475,987	90.5	1,304,846	97.0	
Non-private dwellings	1,631	0.3	41,099	3.0	
Total occupied dwellings	477,618	90.8	1,345,945	100.0	
Unoccupied private dwellings	48,546	9.2	· ·	••	
Total dwellings and persons	526,164	100.0	1,345,945	100.0	

Dwellings and Number of Persons by Structure of Dwelling, South Australia Census 1986

The following table shows nature of occupancy for each of the last three Censuses.

	Dwellings							
	1976		19	1981		1986		
Nature of occupancy	Number	Per cent	Number	Per cent	Number	Per cent		
Owned Being purchased	114,710 148,352	29.4 38.0	140,051 152,957	32.4 35.4	179,564 147,911	38.0 31.3		
Total	(b)264,176	67.6	(b)299,258	69.3	327,475	69.3		
Rented: SA Housing Trust Other government Private and not stated	36,224 (c) 66,598	9.3 (c) 17.1	41,487 7,599 61,016	9.6 1.8 14.1	52,299 6,874 67,988	11.1 1.5 14.4		
Total	102,822	26.3	110,102	25.5	127,161	26.9		
Other (<i>d</i>)	23,516	6.0	22,780	5.3	18,189	3.8		
Total	390,514	100.0	432,140	100.0	472,825	100.0		

Occupied Private Dwellings^(a) : Nature of Occupancy South Australia, Censuses 1976, 1981 and 1986

(a) Excluding caravans etc. in caravan parks. (b) Includes owner/purchaser undefined. (c) Included in private and not stated.
 (d) Includes nature of occupancy not stated.

The data show that while the proportion of dwellings owned or being purchased has remained similar over the last three Censuses there have been significant changes in the components of this total. In 1976 and 1981 there were more dwellings being purchased than were owned. In 1986 that situation has reversed.

For rented occupancies there has been a change in the number and proportion of dwellings being rented from different sources. The number and proportion of dwellings rented from the South Australian Housing Trust increased by 26.1 per cent over the 1981 level to reach 52,299 in 1986. This represents 41.1 per cent of all households renting accommodation.

1981								
Number of bedrooms per dwelling	Total	Separate house	Semi— detached house	Row or terrace house	Other medium density	Flats over three storeys	Other including not stated	Total
Nil	90	29	4	3	27		17	80
One	26,962	7,520	2,043	985	13,793	407	1,421	26,169
Two	113,971	72,770	8,665	1,552	35,428	1,455	2,413	122,283
Three	243,923	237,198	20,141	428	6,069	155	3,524	267,515
Four or more	43,203	46,775	1,403	56	297	11	911	49,453
Not stated	3,985	3,131	433	98	2,124	78	1,461	7,325
Total	432,134	367,423	32,689	3,122	57,738	2,106	9,747	472,825

Occupied Private Dwellings : Number of Bedrooms by Structure of Dwelling South Australia, Censuses 1981 and 1986

During the five year period from 1981 to 1986 there was a greater rate of increase in the number of dwellings with 4 or more bedrooms (14.4 per cent) compared with the increase in the number of all dwellings (9.4 per cent).

At each Census since 1966 each householder was asked to state the number of motor vehicles (excluding motor cycles, scooters and tractors) used by members of that household which were garaged or parked at or near that dwelling on Census night. Data were obtained only for occupied private dwellings.

Occupied Private Dwellings by Number of Motor Vehicles, South Australia Censuses 1976, 1981 and 1986

Number of vehicles	1976			1981	1986 (a)		
	Dwellings	Proportion of total	Dwellings	Proportion of total	Dwellings	Proportion of total	
		per cent		per cent		per cent	
Nil One Two Three or more vehicles .	52,306 184,214 108,262 36,528	13.4 47.2 27.7 9.4	55,431 196,862 125,806 44,754	12.8 45.6 29.1 10.4	56,315 202,001 151,848 54,150	11.8 42.4 31.9 11.4	
Not stated	9,204	2.4	9,283	2.1	11,673	2.5	
Total	390,514	100.0	432,136	100.0	475,987	100.0	

(a) Includes caravans etc. in caravan parks.

The trends apparent from these data are that fewer households lack a motor vehicle, and that multiple vehicle ownership is increasing.

9.2 BUILDING

BUILDING CONTROL

The *Building Act 1971* gives local government authorities power to control building operations within their municipality or district. Persons wishing to erect or alter buildings on land within an area to which the Building Act applies are required to submit to the local government authority

technical details, plans, drawings and specifications of the work proposed and to receive written approval before commencing operations. Authorities are concerned with such things as the materials used, the height of ceilings and the provision of ventilation and drainage. Following approval, local government building inspectors normally visit the construction site to inspect footings and foundations and may visit the site at other times to check that the requirements of the regulations are being complied with.

Builders are licensed and regulated by the Commercial Tribunal under the *Builders Licensing* Act 1986.

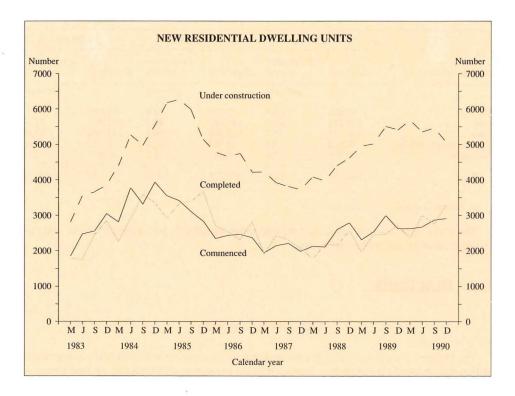
BUILDING STATISTICS

These statistics relate to building activity which includes construction of new buildings and alterations and additions to existing buildings. Construction activity not defined as building (*e.g.* construction of roads, bridges, railways, earthworks etc.) is excluded.

In relation to work carried out on existing buildings, the statistics include details of non-structural renovation and refurbishment work and the installation of integral building fixtures for which building approval was obtained.

The statistics were compiled from information supplied by local and other government authorities, builders and other individuals and organisations engaged in building activity.

The ownership of a building is classified as either Public Sector or Private Sector according to the sector of the intended owner of the completed building as evident at the time of approval. Residential buildings being constructed by private sector builders under government housing authority schemes whereby the authority has contracted, or intends to contract, to purchase the buildings on or before completion, are classified as public sector.



Building Approvals

Statistics of building work approved were compiled from: (a) permits issued by local or other government authorities in areas subject to building control by those authorities; and (b) contracts let or day labour work authorised by Commonwealth, State, semi–government and local government authorities. Major building activity which takes place in areas not subject to the normal administrative approval processes (*e.g.* buildings on remote mine sites) is also included.

From July 1988, the statistics cover all approved new residential building jobs valued at \$5,000 or more (previously all new residential building jobs were included regardless of value); approved alterations and additions to residential buildings valued at \$10,000 or more (unchanged); all approved non-residential building jobs valued at \$30,000 or more (previously \$10,000 or more). These changes do not have a statistically significant effect on broad building approvals aggregate data. However, care should be taken in interpreting data for specific classes of non-residential building.

In using approvals as an indicator of building activity it should be noted that certain projects may be cancelled, delayed or altered and resubmitted for approval, that large projects may be spread over a number of years, and that building costs may vary over the period of construction.

Building	Approvals,	South	Australia
•	(\$'00		

		1988-89)	1989–90		
Type of building	Private	Public	Total	Private	Public	Total
New houses	504,907	22,231	527,138	497,207	24,980	522,187
New other residential buildings	119,410	43,780	163,190	161,659	48,746	210,405
Alterations and additions to residential buildings	106,382	2,135	108,517	107,184	2.629	109,813
Hotels etc.	64.861	767	65,628	16,280	511	16,791
Shops	81,461	2.984	84,445	277,180	1,444	278.623
Factories	91.823	6.015	97.838	56.813	27,281	84,094
Offices	275,573	29,946	305,518	80,088	26,188	106,277
Other business premises	109.001	43,184	152,184	90,636	26.812	117,448
Educational	16.077	27.592	43.669	21.078	82,157	103,236
Religious	4,111		4,111	4,404	50	4,454
Health	26,105	52,597	78,702	36,981	25,399	62,380
Entertainment and recreational	18,977	27,070	46,047	39,855	49,976	89,832
Miscellaneous	10,669	6,208	16,877	21,548	29,425	50,973
Total value of building	1,429,357	264,506	1,693,863	1,410,914	345,599	1,756,513

In recent years the greatest residential building development in the Adelaide Statistical Division has occurred in the statistical local areas of Tea Tree Gully, Noarlunga, Salisbury and Marion. In the Rest of the State, the statistical local areas of Mount Barker, Mount Gambier, Murray Bridge, Port Elliot and Goolwa and Victor Harbor provided the highest level of residential building activity. The number of new dwelling units approved in these areas and other selected statistical local areas during the last five years are included in the following table.

	198586	1986-87	1987–88	1988–89	1989–90
ADELAIDE	STATISTIC	AL DIVISIO	N		
Adelaide (C)	114	51	83	122	279
Burnside (C)	127	129	108	210	240
Campbelltown (C)	309	159	220	352	331
Enfield(C) Pt A & Pt B	195	140	177	190	473
Gawler (M)	138	150	200	331	312
Happy Valley (C)	629	445	395	554	468
Hindmarsh (M)	103	115	65	100	115
Marion (C)	551	564	735	922	928
Mitcham (C)	159	204	175	238	191
Munno Para (C)	383	319	289	415	364

Location of New Dwelling Units Approved, South Australia

Statistical local area	198586	1986–87	198788	1988–89	1989–90
ADELAIDE STAT	ISTICAL DI	VISION (cor	tinued)		
Noarlunga (C)	827	955	778	1,001	1,345
Port Adelaide (C)	265	237	160	245	342
Salisbury (C)	1,389	925	959	1,008	1,181
Stirling (DC)	104	87	91	117	96
Tea Tree Gully (C)	616	791	1,107	1,340	1,240
Unley (C)	78	67	53	81	113
West Torrens (C)	171	78	120	194	193
Willunga (DC)	279	176	185	247	249
Woodville (C)	353	208	305	374	347
Other	519	350	305	569	607
Total	7,309	6,150	6,510	8,610	9,414
R	EST OF STA	ГЕ			
Mallala (DC)	78	100	94	96	83
Mount Barker (DC)	256	165	137	218	242
Mount Gambier (C)	136	104	121	99	104
Murray Bridge (DC)	241	169	131	133	101
Northern Yorke Peninsula (DC)	106	57	63	46	37
Port Augusta (C)	86	109	38	62	57
Port Elliot and Goolwa (DC)	210	161	119	113	130
Port Lincoln (C)	163	85	69	64	39
Port Pirie (C)	160	100	72	43	22
Renmark (C)	67	62	59	85	55
Roxby Downs (M)		294	66	64	37
Strathalbyn (DC)	102	92	70	109	79
Victor Harbor (DC)	188	81	70	188	100
Other	1,905	1,452	1,292	1,317	1,201
Total	4,557	3,631	2,432	2,552	2,232
South Australia	15,053	10,940	8,942	11,162	11,646

Location of New Dwelling Units Approved, South Australia (continued)

(C) Municipality with city status (DC) District Council (M) Municipality

Building Activity Survey

Building activity data is collected quarterly from builders and other individuals and organisations engaged in building activity. It consists of two components:

- (a) a sample survey of private sector house building activity involving new house construction or alterations and additions valued at \$10,000 or more to houses; and
- (b) a complete enumeration of jobs involving construction of new residential buildings other than private sector houses, all alterations and additions to residential buildings (other than private sector houses) with an approval value of \$10,000 or more, and all non-residential building jobs with an approval value of \$30,000 or more.

From the data collected in the survey, a considerable amount of information about the building industry in South Australia can be derived. This includes statistics about building work commenced, work done and completed in each period as outlined in the following paragraphs.

All values shown exclude the value of land and unless otherwise stated represent the anticipated or actual value of buildings upon completion.

A building is regarded as having been commenced when expenditure on building work is first reported. Commencement data for the last five years are shown in the following table.

Type of building	1985–86	198687	1987–88	1988–89	1989–90
New houses:					
Number (b)	7,270	6,460	6,390	7,580	7,170
Value (\$m)	393.6	370.8	378.3	504.4	499.3
New other residential buildings:					
Number of dwelling units	3,438	2,455	2.055	2,655	3,763
Value (\$m)	164.9	104.9	94.6	138.0	218.7
			\$ millior	`	
Alterations and additions to residential			φ ininioi	1	
buildings	80.9	75.3	92.2	103.7	111.7
Hotels etc.	67.8	18.5	47.5	71.3	14.4
Shops	62.6	84.4	99.4	96.3	314.0
Factories	43.7	41.3	101.6	92.1	68.9
Offices	182.3	284.1	197.1	353.5	120.7
Other business premises	89.7	68.5	87.8	129.2	122.9
Educational	46.6	43.5	76.3	52.9	88.6
Religious	5.9	5.7	3.9	3.7	4.4
Health	25.4	82.1	35.0	77.5	64.6
Entertainment and recreational	33.3	21.2	41.0	54.9	81.4
Miscellaneous	45.1	25.0	29.3	32.7	54.5
Total non-residential buildings	602.4	674.8	718.8	964.1	934.4
Total building	1,241.8	1,225.4	1,283.9	1,710.1	1,764.2

Buildings Commenced, South Australia^(a)

(a) Anticipated completion value.(b) Rounded to the nearest ten units.

Another measure of building activity is that of value of work done, *i.e.* of work actually carried out on buildings during the period. Details of value of work done for the last five years are given in the following table.

Type of building	1985–86	1986–87	198788	1988–89	1989–90
New houses	411.5	364.8	381.1	469.2	518.7
New other residential buildings Alterations and additions to residential	173.5	127.4	86.7	127.7	205.9
buildings	78.7	78.4	88.2	104.1	116.6
Hotels etc.	30.0	35.8	64.2	50.3	56.2
Shops	66.1	77.8	107.3	97.1	186.6
Factories	52.8	41.7	77.8	92.9	92.1
Offices	183.1	226.7	288.7	345.2	260.5
Other business premises	87.4	69.7	78.8	119.1	130.9
Educational	37.8	45.5	62.7	65.4	78.7
Religious	6.9	6.2	4.4	3.9	4.6
Health	32.6	58.8	60.4	57.8	70.1
Entertainment and recreational	41.4	36.2	40.5	38.7	72.3
Miscellaneous	51.7	46.9	26.3	31.7	37.2
Total non-residential buildings	589.7	645.2	811.2	902.2	989.2
Total building	1,253.4	1,215.8	1,367.1	1,603.4	1,830.4

Buildings : Value of Work Done, South Australia (\$ million)

Details of buildings completed in the last five years are given in the next table.

Type of building	1985–86	198687	1987–88	1988–89	198990
New houses:					
Number (<i>a</i>)	8,120	6,310	6,300	6,710	7,400
Value (\$m)	424.9	352.6	375.7	425.2	513.5
New other residential buildings:					
Number	4,191	3,164	2,033	2,448	3,158
Value (\$m)	185.0	149.9	88.3	111.8	184.1
			\$ millior	1	
Alterations and additions to residential					
buildings	76.4	76.4	81.5	96.9	107.2
Hotels etc.	22.8	15.7	13.5	89.5	61.9
Shops	57.3	64.6	85.9	156.8	82.0
Factories	54.4	45.4	57.3	80.5	78.1
Offices	135.2	147.4	279.3	363.8	305.7
Other business premises	89.6	62.7	92.2	104.3	128.8
Educational	55.1	36.8	65.3	52.3	87.0
Religious	4.2	8.0	5.6	4.1	3.6
Health	29.1	34.3	48.1	80.5	53.4
Entertainment and recreational	36.5	27.4	47.5	34.0	66.2
Miscellaneous	44.8	38.9	48.8	29.3	25.9
Total non-residential buildings	529.0	481.3	743.4	995.2	892.7
Total building	1,215.3	1,060.2	1,288.9	1,629.1	1,697.4

Buildings Completed, South Australia

(a) Rounded to the nearest ten units.

THE SOUTH AUSTRALIAN HOUSING TRUST

The South Australian Housing Trust was established under the *South Australian Housing Trust Act 1936* as the public housing authority.

Its charter is to provide housing and related services for those in need, and to do so in ways which contribute, as far as possible, to the social well-being and economic development of the State.

The Trust's sources of funds are loans and grants from the Commonwealth and South Australian Governments, rents and other payments by tenants, repayments under mortgage and the proceeds from the sale of its houses and other assets.

At 30 June 1990 the Trust had 63,318 dwellings in its rental stock. During 1989–90, 1,760 dwellings were added to the stock of which 1,323 were built by the Trust and 437 were existing dwellings purchased on the open market. During 1989–90, 15,449 applications for rental housing were received while 8,613 households were allocated a dwelling. At the end of June 1990 there were 41,291 households on the waiting list.

At 30 June 1990, 68.5 per cent of the Trust's tenants were paying reduced rent because of financial hardship or social disadvantage. As well as reducing rents to the disadvantaged among its own tenants, assistance is provided to other disadvantaged members of the community in the following ways;

- The Mortgage Relief Scheme, begun in 1982, provides assistance in weekly amounts in the form of a secured interest-free loan and is paid directly to the lender;
- The Rent Relief Scheme, commenced in 1982, with funds made available by both the Commonwealth and South Australian Governments, provides assistance to households on low incomes who face genuine hardship in meeting private rental commitments.
- The Emergency Housing Office provides information, bond assistance, advocacy and counselling for people in a housing crisis. The Office also has a pool of emergency dwellings for short-term lease.

• The *Housing Improvement Act 1940* establishes minimum standards by which a dwelling may be considered suitable for human habitation. The Act vests in the Trust, the power to control the rent of any house that it has declared to be sub-standard. During 1989–90, 388 notices of intention were issued for sub-standard housing. Rents were fixed or revised in respect of 165 houses and 271 houses were released from control of the Act as a result of repairs and renovations.

As well as its public housing role the Trust provides a substantial contribution to the Government's program for the establishment of new industry and the expansion of existing industry within South Australia. This support takes the form of developing and making available industrial land for sale and lease and the provision of resources for the establishment of factory premises through the Trust's Factory Construction Scheme, in collaboration with the Department of Industry, Trade and Technology.

Further References

Additional information may be found in the following ABS publications:

- 8731.0 Building Approvals, Australia
- 8731.4 Building Approvals, South Australia
- 8733.4 Building Approvals in Statistical Local Areas, South Australia
- 8741.4 Dwelling Unit Commencements Reported by Approving Authorities, South Australia
- 8745.0 Building Activity, Australia
- 8750.0 Building Activity: Dwelling Unit Commencements, Preliminary, Australia
- 8752.4 Building Activity, South Australia

9.3 HOUSING FINANCE

Information on secured finance commitments to individuals for the construction or purchase of dwellings for owner occupation is provided by major lenders. These lenders include banks, permanent building societies, credit unions, insurance companies, finance companies, superannuation funds and general government enterprises.

In the following tables, values shown for 'construction of dwellings' represent commitments made to individuals to fund, by way of progress payments, the erection of dwellings which they will occupy. Values for 'purchase of newly erected dwellings' represent the purchase of dwellings which have been completed within a period of twelve months preceding lodgment of the loan application where the applicant is, or will be, the first occupant. 'Purchase of established dwellings' refers to those completed for a period greater than twelve months preceding the lodgment of the loan application or, if purchased within twelve months, the applicant is not the original occupant.

Number of Dwelling Units for which Loans were Approved to Individuals by Type of Lender, South Australia

Period	All banks	Permanent building societies	Other lenders	Total
1987–88	19,720	5,475	1,381	26,576
1988–89	22,574	6,246	1,120	29,940
1989–90	17,984	2,851	2,895	23,730

Period	All banks	Permanent building societies	Other lenders	Total
1987-88	971.2	288.3	55.6	1,315.3
1988–89 1989–90	1,232.8 1,051.0	339.2 166.5	50.6 134.1	1,622.8 1,351.7

Value of Lending Commitments to Individuals for Construction or Purchase of Dwellings by Type of Lender, South Australia(a) (\$ million)

(a) Includes alterations and additions.

Lending Commitments to Individuals for Construction or Purchase of Dwellings, All Lenders, South Australia(a)

For construction of dwellings			newl	urchase of y erected ellings	estal	rchase of blished ellings	Ta	otal
Period	No.	\$m	No.	\$m	No.	\$m	No.	\$m
1987–88 1988–89 1989-90	4,770 6,237 4,484	211.5 299.9 224.5	746 839 865	33.5 41.4 41.4	21,060 22,864 18,381	1,021.3 1,229.5 1,040.0	26,576 29,940 23,730	1,266.3 1,570.8 1,306.1

(a) Excludes alterations and additions.

HOME START LOAN SCHEME

State Government introduced the Home Start Loan Scheme in 1989 designed to provide housing finance to first home buyers. It is aimed primarily at low to moderate income earners and the main features of the scheme are the low deposit and affordable mortgage payments. Refinance loans are also available to assist people having difficulty meeting their mortgage repayments through a change in their level of income or family circumstances.

Payments are set at 25 per cent of the initial household income and increase every year in line with the increases in the Consumer Price Index. In the early years of the loan, mortgage payments do not cover all the interest due; unpaid interest is added to the outstanding loan balance and paid later as the borrowers income and payments increase.

The maximum amount of the loan depends on the borrowers assessed household income.

The maximum term of the loan is initially 27 years but this may be altered later to meet the changing needs of the borrower.

AGRICULTURE, FORESTRY AND FISHERIES

10.1 RURAL INDUSTRIES

The principal source of statistics relating to the rural sector is the Integrated Agricultural Commodity Census, which is conducted throughout Australia at 31 March each year. Data are collected from those establishments engaged in agricultural activity, regardless of the main activity of the establishment. Where harvesting of some crops (mainly fruit and vegetables) has not been completed by 31 March, growers are asked to estimate production or provide details at a later date *via* supplementary collections (*e.g.* main crop potatoes and grapes). For the purpose of this Census an establishment comprises the operations from a single physical location. However, a single location can comprise non–contiguous pieces of land (*i.e.* parcels of land which are not next to each other) provided that they are under the same management (operator), function as a single unit and are, generally, within the same local government area or county. The composite Census return thus supplied has production attributed to the district in which the main holding is situated. In other circumstances, where an owner or occupier operates more than one location or holding, each location is treated as a separate establishment, depending on proximity and size. Beekeepers without a fixed land base have been allocated to the area from which they operate.

Those establishments which make only a small contribution to overall agricultural production are excluded from the Census. The scope of the Census was varied, from 1986–87, to include only those establishments having an estimated value of agricultural operations (EVAO) of \$20,000 (previously \$2,500) or more. In those cases where time–series tables include data from the 1984–85 Census, information from both the \$2,500 and \$20,000 bases for 1985–86 have been included to assist users in making comparisons. For the 1988–89 season the Agricultural Census included 14,565 establishments operating on 58,029,000 hectares of land or 58.9 per cent of the total area of the State.

From 1986–87, as an adjunct to the Census, some basic data have been collected for a limited range of commodities from establishments having an EVAO of between \$5,000 and \$19,999.

Statistical Division		Establishme	nts	Area of establishments			
	1986–87	198788	1988–89	1986–87	198788	198889	
	number	number	number	'000 ha	'000 ha	'000 ha	
Adelaide	820	790	747	41	38	40	
Outer Adelaide	2,760	2,534	2,529	797	764	775	
Yorke and Lower North	2,372	2,308	2,190	1,709	1,712	1,667	
Murray Lands	3,770	3,621	3,552	3,677	3,712	3,650	
South East	2,516	2,442	2,442	1,689	1,693	1,713	
Eyre	1,779	1,770	1,731	5.826	5.283	5,234	
Northern	1,352	1,303	1,374	45,730	46,757	44,950	
Total	15,369	14,768	14,565	59,471	59,958	58,029	

Rural Establishments : Statistical Divisions, South Australia

		Estimat	ed value	of agric	cultural	operation	s (\$'000)		
Industry of establishment Description	Less than 20	20-39	40-59	6079	8099	100–149	150-199	200 and over	Total
			10 07		00 77	100 119	100 177	0.00	10141
Poultry for meat		1	3	3	4	16	4	26	57
Poultry for eggs	1	1	3	_	6	8	3	33	55
Grapes	20	168	265	228	124	146	46	53	1,050
Orchard fruit	84	238	227	191	90	137	64	107	1,138
Potatoes	2	4	7	7	3	24	6	50	103
Vegetables	44	100	59	36	23	35	29	130	456
Cereals	43	128	104	100	94	222	134	209	1,034
Sheep-cereal grain	35	360	583	687	725	1,241	713	743	5,087
Meat cattle-cereal grain	2	8	7	11	15	14	9	8	74
Sheep-meat cattle	23	82	85	85	67	131	86	176	735
Sheep	99	294	341	251	266	491	291	459	2,492
Meat cattle	65	99	34	24	28	27	22	57	356
Milk cattle	25	113	149	171	141	243	80	62	984
Pigs	6	24	27	23	16	55	45	74	270
Nurseries	11	47	25	21	16	26	21	25	192
Agriculture n.e.c.	39	101	54	31	15	16	13	34	303
Total agriculture	499	1,768	1,973	1,869	1,633	2,832	1,566	2,246	14,386
Other industries	76	26	25	12	7	19	3	11	179
Total all industries	575	1,794	1,998	1,881	1,640	2,851	1,569	2,257	14,565

Agricultural Establishments : Industry and Estimated Value of Agricultural Operations, South Australia, 1988–89

Agricultural Finance Survey

Statistics on the financial performance of the rural sector are obtained from the Agricultural Finance Survey, which has been conducted periodically by the ABS since 1976–77. This survey, which provides estimates of turnover, expenditure, cash operating surplus, capital expenditure and indebtedness has been conducted on an annual basis from 1986–87. Detailed definitions and explanatory notes relating to this Survey are published in *Agricultural Industries, Financial Statistics, Australia, 1987–88* (7507.0).

Items	\$ million
Sale of crops Sales of livestock Sales of livestock products Turnover	685.8
Sales of livestock	365.1
Sales of livestock products	573.2
Turnover	1.696.3
Purchases and selected expenses	790.3
Value added	955.3
Value added Adjusted value added Gross operating surplus	855.6
Gross operating surplus	695.8
Cash operating surplus	517.9
Total net capital expenditure	140.6
Gross indebtedness	1,088.8

Financial Estimates of Agricultural Enterprises, South Australia, 1987-88

LAND UTILISATION

The pattern of land use attributed to agricultural establishments included in the annual Integrated Agricultural Commodity Census indicates that vast tracts of land, 72.7 per cent of the total area of rural establishments in 1988–89, have no attributed land use. These include areas of saltbush, scrub, native vegetation, non-arable land and land not utilised during the particular census period.

Cereal crops were sown to 2.7 million hectares of land during the 1988–89 season, a slightly lesser area than for the previous three years. Climatic conditions, particularly the relatively low winter rainfall and the dry hot summer, favour cereal growing, one advantage being the low incidence of stem rust, a serious disease in the moist areas of the Australian wheat belt.

Pastures and grasses accounted for 12.9 million hectares of land at 31 March 1989. The pattern of agricultural land use in South Australia over the past four years is apparent from the following table.

(
1985-86	1986–87	1987–88	1988-89							
2,826,274	2,848,009	2,709,423	2,660,819							
126,189	170,663	233,035	251,445							
10.435.726	12,067,308	12,514,148	12,888,812							
474	444	587	852							
24.523	23.103	23.033	23.274							
			16,365							
90	96	106	90							
7.537	7.400	7.957	8.007							
44,417,851	44,338,109	44,454,181	42,178,979							
57,853,733	59,470,767	59,958,331	58,028,643							
	1985-86 2,826,274 126,189 10,435,726 474 24,523 15,069 90 7,537 44,417,851	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$							

Land Utilisation of Rural Establishments, South Australia (Hectares)

(a) Area at 31 March.

The following table shows the area of all irrigated culture in South Australia for selected seasons from 1975–76 to 1986–87. Of the areas shown below, about 47 per cent of orchards and about 31 per cent of vineyards are in the River Murray irrigation areas.

	(Hectares)										
Season	Orchards	Vineyards	Vegetables	Other crops	Pasture	Total					
1975–76	13,132	18,387	5,601	2,205	38,569	77,894					
1978–79	12,338	18,892	6,409	4,571	36,176	78,386					
1980-81	12,627	20,253	5,676	2,028	38,890	79,474					
1983-84	12,807	16,512	6,413	4,644	46,578	86,954					
1986–87	11,865	16,417	6,244	5,666	51,573	91,765					

Area Under Irrigated Culture, South Australia^(a) (Hectares)

(a) Irrigation details collected on an irregular basis.

The most important irrigation areas are those located in the Murray Valley. A description of the development and types of irrigation schemes along the River Murray is given in Part 8.3.

The main crops in the Upper Murray irrigation areas are grapes, citrus fruit and stone fruit while the reclaimed swamp areas of the Lower Murray irrigation areas are used mainly for pastures.

The following table shows the area of pasture and area and production of vineyards and orchards in the River Murray irrigation area for 1988–89.

					Produc	ction	
				Vine	eyards		
		Area		Total	Grapes used	Orch	ards
Irrigation area	Sown pasture	Vineyards	Orchards	grapes produced	for wine	Oranges	Peaches
	hectares	hectares	hectares	tonnes	tonnes	tonnes	tonnes
Upper Murray:	_						
Berri	3	1,420	939	27,451	23,262	8,243	722
Cadell		81	212	1,061	703	1,200	95
Cobdogla	23	474	41	10,294	9,094	327	
Cooltong	18	108	351	2,207	2,155	5,869	44
Golden Heights	-	24	417	516	515	10,280	1
Holder	-	83	93	1,907	1,859	1,234	14
Loveday	56	632	150	13,645	12,077	1,822	7
Loxton	6	1,183	1,030	23,290	21,736	17,981	120
Moorook	23	136	170	2,407	2,111	1,789	25
Nookamka	33	471	61	11,454	10,225	593	8
Ral Ral	14	236	154	3,973	3,383	312	347
Renmark	201	1,083	1,547	17,216	13,556	12,182	2,857
Sunlands	_	30	565	839	839	15,047	8
Waikerie	_	428	924	9,031	8,413	13,327	307
Other	-	286	537	5,490	4,971	4,265	230
Total Upper Murray	377	6,675	7,190	130,777	114,899	94,470	4,787
Lower Murray:							
Cowirra	398	-	_	-	_	_	
Jervois	2,053	_	-	_	-	-	
Monteith	546	_	_				
Mypolonga	705	_	338			4,754	70
Neeta	417	-	_	_	_	_	_
Pompoota	173	_	_	_	_		_
Other	825		2		_		-
Total Lower Murray	5,117	_	340		· _	4,754	70
Total	5,495	6,675	7,530	130,777	114,899	99,224	4,857

River Murray Irrigation Areas : Area of Sown Pasture, and Area and Production of Vineyards and Orchards, 1988–89 (a)

(a) Excludes areas and yields of crops grown by irrigation on the River Murray and elsewhere not in the above irrigation areas.

FERTILISERS

Nearly all soils in the agricultural areas of South Australia are deficient in phosphorus, and superphosphate is used on both crops and pastures in large quantities to overcome this deficiency. In some areas trace elements (manganese, copper, zinc and molybdenum) are added to the superphosphate to rectify the chronic shortage of these elements.

Principal Crops and Pasture Fertilised, South Australia, 1988-89

Type of crop		Fertiliser used					
	Area fertilised	Super phosphate	Other	Total	Per hectare		
	'000 ha	tonnes	tonnes	tonnes	kg		
Wheat Pasture All other crops Pasture	1,434 2,006 1,023	81,629 222,626 74,874	55,719 19,155 62,240	137,348 241,781 137,114	95.77 120.52 134.03		
Total	4,463	379,129	137,114	516,243	115.67		

CEREALS

WHEAT

The area sown to wheat for grain in South Australia during the 1988–89 season was 1,520,012 hectares which yielded 1,361,138 tonnes. This represented 17.0 per cent and 9.8 per cent of the Australian total respectively. Unfavourable climatic conditions, including drought on the Eyre Peninsula, strong winds and inclement reaping weather, had an adverse effect on yields.

In the past twenty years a feature of the industry has been that average yields have fluctuated about a higher level mainly because of improved farming practices, including the adoption of nitrogen-building legumes in the rotation. The average yield per hectare for the 1988–89 season was 0.90 tonnes, down from 1.16 tonnes in 1987–88.

Wheatgrowing Districts

Wheatgrowing in South Australia is virtually restricted to the belt between the 200 millimetre and 450 millimetre rainfall isohyets for the period April–November inclusive. The principal wheat producing districts are in the Eyre, Yorke and Lower North, Murray Lands and Northern Statistical Divisions. These districts accounted for about 96 per cent of the area sown in 1988–89.

		Area		Productio		on	
Use and geographical area	1986–87	1987–88	198889	1986–87	1987-88	1988-89	
	'000 ha	'000 ha	'000 ha	'000 tonnes	'000 tonnes	000' tonnes	
For grain:				1011100	10111103	10111100	
Statistical Division;							
Adelaide	1	1	1	3	2	3	
Outer Adelaide	38	35	36	76	60	63	
Yorke and Lower North	268	265	256	496	477	384	
Murray Lands	259	249	244	319	255	254	
South East	37	26	21	73	46	43	
Eyre	841	801	783	975	667	383	
Northern	172	177	179	312	296	231	
Total	1,616	1,556	1,520	2,255	1,803	1,361	
For hay Fed off or cut for green feed	10	9	13	30	24	22	
or silage	2	1	3		••		
Total all wheat	1,628	1,566	1,536	••	••		

Wheat Grown in South Australia

Varieties

In each of the Australian States a committee examines and recommends the wheat varieties which should be grown by farmers. The South Australian Advisory Committee on Wheat Quality was established in 1962. Dividing the State into seven zones, recommendations of wheat varieties are decided each year by bringing together relevant available information on breeding, testing, commercial production, handling and end use of wheat and more particularly of specific varieties. Protein content and potential yield are key factors in these recommendations.

The South Australian Department of Agriculture and the Australian Wheat Board encourage growers to produce wheat with uniform characteristics in both the Hard class and Australian Standard White (ASW) class and this can be done more successfully if only a few of the better varieties are grown by farmers.

Marketing

Australian Wheat Board

The Australian Wheat Board was formed on 21 September 1939 and given powers to run the domestic and export marketing of Australia's wheat crop. Under the *Wheat Marketing Act 1989* (Cwlth), all sales of wheat within Australia were deregulated from 1 July 1989. The Australian Wheat Board has retained full control of wheat sold for export from Australia. The Board will continue to buy on the domestic market along with other buyers who can now engage in such operations. The new legislation also permits the Board to trade in other grains and legumes on both the domestic and export markets.

(ood tollnes)			
Season	South Australia	Australia	
1980–81	1,533	10,059	
1981–82	1,581	15,545	
1982–83	588	7,887	
1983–84	2,715	21,067	
1984–85	1,921	17,546	
1985–86	1,773	15,099	
1986–87	2,377	15,310	
1987–88	1,823	10,740	
1988–89	1,318	12,953	
1989–90	2,701	12,969	

Deliveries to the Australian Wheat Board ('000 tonnes)

Source: Australian Wheat Board.

Bulk Handling

South Australian Co–operative Bulk Handling Ltd is the sole bulk grain handling authority in this State, and is owned, financed and controlled by the growers.

Bulk Handling Capacity, South Australia, 30 September 1990

Division	Number of sites	Total permanent storage
		tonnes
Ardrossan	1	283,400
Port Adelaide	54	1,308,200
Port Giles	1	239,100
Port Lincoln	25	1,107,300
Port Pirie	14	527,500
Thevenard	11	483,600
Wallaroo	10	429,600
Total	116	4,378,700

Source: South Australian Co-operative Bulk Handling Ltd.

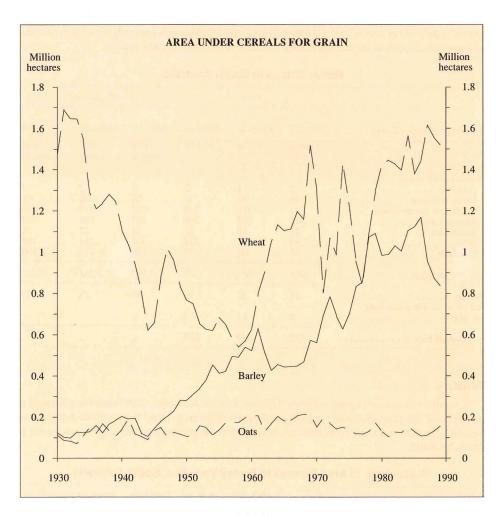
Prices

The following table shows the trend in export and domestic prices of Australian wheat for the years 1985–86 to 1989–90. The export prices shown in the table are the basic selling prices for ASW bulk wheat f.o.b. terminal ports. The average quoted price for export has been in US Dollars from 12 December 1983 but are shown in \$A values.

Export and Domestic Prices of Australian Wheat (Dollars)

Year	Export price per tonne (a)	Home price per tonne
1985–86	187.19	213.89
1986–87	161.78	188.92
1987–88	174.75	193.46
1988–89	217.45	221.07
1989–90	202.32	202.32

(a) Based on the average daily quoted price for each year ended September 30. Source: Australian Wheat Board.



BARLEY

Production

Barley is grown in all States of Australia, with the major producing area being South Australia. It is grown principally as a grain crop, although in some areas it is used as a fodder crop for grazing with grain being subsequently harvested if conditions are suitable. During the 1988–89 season

859,456 hectares of land were sown to barley in South Australia, 37.5 per cent of the Australian total. Barley is used for stockfeed purposes and, on a small scale, for human consumption. A relatively large quantity is used to produce malt.

The area sown to barley for grain in South Australia during the 1988–89 season was 836,641 hectares which yielded a production of 1,035,927 tonnes. This represented 38.2 per cent and 32.0 per cent of the Australian total respectively. The Yorke and Lower North Statistical Division, which includes the Yorke Peninsula, accounted for 443,000 tonnes or 42.8 per cent of the State's production during this period. As with wheat, unfavourable climatic conditions including drought, strong winds and inclement reaping weather had an adverse effect on yields in some areas of the State.

The ideal malting barley has a dry, plump, undamaged grain with a low protein content. Production of malting barley requires an area of dependable rainfall and a ripening period somewhat prolonged by cool conditions without high temperatures and drying winds.

Yorke Peninsula is the major barley producing district in South Australia, accounting for approximately 35 per cent of the total South Australian crop. This area generally has an ideal climate for barley production as the moisture laden breezes off the Gulfs retard ripening.

		Area			Production	
Use and geographical area	198687	1987–88	1988–89	1986–87	1987–88	198889
	'000 ha	'000 ha	'000 ha	'000 tonnes	'000 tonnes	'000 tonnes
For grain:						
Statistical Division;						
Adelaide	2	1	2	3	2	3
Outer Adelaide	45	41	36	88	66	61
Yorke and Lower North	341	313	279	727	609	443
Murray Lands	211	202	200	258	186	233
South East	22	19	21	34	22	31
Еуге	260	237	228	344	263	165
Northern	75	62	70	138	112	100
Total for grain	955	876	837	1,592	1,261	1,036
For hay	11	11	10	28	25	21
Fed off or cut for green feed or silage	9	11	13			
Total all barley	976	899	859		••	••

Barley Grown in South Australia

Varieties

A number of improved barley varieties (Galleon, Forrest, Schooner, Skiff) have been released to farmers over the years. Schooner, a high yielding malting variety, bred by the Waite Agricultural Research Institute and released in 1983 has now become the predominant malting variety grown in South Australia.

Percentage of Area Planted to Barley Varieties,	. South Australia
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Variety	Type	198586	1986–87	1987–88	198889	1989–90
Schooner	Malting	18.1	22.1	33.9	38.5	32.1
Clipper	Malting Malting	6.8 5.9	4.0 3.1	2.6 1.7	1.9 0.9	1.0 0.8
Galleon	Feed	40.0 26.5	46.0	46.1	47.6	56.0
Forrest	Feed Feed	26.5	23.1 0.4	13.9 1.1	9.4 1.1	8.3 1.8

Source: Australian Barley Board.

Marketing

The Australian Barley Board, which commenced operations in 1939, is the statutory marketing authority for barley, oats and peas grown in South Australia and for barley grown in Victoria. The Board classifies barley on sample at the time of delivery for grower payment purposes. Classification is firstly by variety and secondly by physical characteristics. The Board normally receives three grades of barley; malting and feed grades, No. 3 and No. 4. The classification system used by the Board segregates low protein barley for use by the malting and brewing industries, while the higher protein barley is included in the No. 3 and No. 4 grades.

(ronnes)						
Season	Malting	No. 3	No. 4	Total		
1987–88 1988–89 1989–90	218,009 126,914 419,547	877,059 726,092 1,238,762	23,317 17,532 17,163	1,118,385 870,538 1,675,472		

Australian Barley Board Receivals, South Australia (Tonnes)

Source: Australian Barley Board.

The home consumption prices determined by the Board for barley for the seasons 1986–87 to 1988–89 are shown below.

Payments to Barley Growers (Dollars per tonne)

Particulars		Six-row		
	Malting	No. 3	No. 4	Feed
Pool payment option:				
1986–87	129.91	104.91	99.91	91.91
1987–88	144.50	106.50	101.50	93.50
1988–90	181.13	143.13	138.13	130.13
Discount payment option:				
1986–87	124.00	99.00	94.00	86.00
1987–88	136.50	98.50	93.50	85.50
1988–89	179.22	156.22	136.22	128.22

OATS

Oats is an extremely versatile crop, providing not only valuable winter grazing when pastures are dormant but also a grain which is a valuable cereal food for both livestock and human consumption. The majority of the crop is used locally for animal fodder with only a small proportion being exported. As is the case with barley, some of the area sown for grain and hay is grazed until June or July, then allowed to re–grow to produce a crop which is subsequently cut for hay or harvested.

In December 1977, the Barley Marketing Act (South Australia) was amended to appoint the Australian Barley Board as an oat marketer in South Australia.

		Area			Produ	ction
Season	Grain	Hay	Forage	Total	Grain	Hay
	'000 ha	'000 ha	'000 ha	'000 ha	'000 tonnes	°000 tonnes
. 1986–87	113	46	32	191	149	147
1987–88	132	46	32	210	135	131
1988–89	156	49	28	233	131	1

Oats, South Australia

The main oat growing regions in South Australia are on the Eyre Peninsula, the Mid–North, and the Upper South East regions. During the 1988–89 season 232,648 hectares of land were sown to oats in South Australia; 10.5 per cent of the Australian total.

		Area		Production		
Use and geographical area	1986-87	1987–88	198889	1986–87	198788	1988-89
	'000 ha	'000 ha	'000 ha	'000 tonnes	'000 tonnes	'000 tonnes
For grain:				tonnes	tonnes	tonnes
Statistical Division;						
Adelaide	0.2	0.2	0.1	0.3	0.2	0.4
Outer Adelaide	12.4	12.7	15.1	24.0	21.3	24.2
Yorke and Lower North	16.2	19.9	21.4	24.9	29.6	28.2
Murray Lands	13.6	16.5	19.4	14.0	12.8	18.2
South East	14.5	15.9	15.6	29.5	27.5	26.4
Eyre	48.5	58.8	73.6	46.4	33.5	23.2
Northern	7.3	7.7	10.2	9.9	9.6	10.8
Total for grain	112.6	131.8	155.5	149.1	134.6	131.4
For hay	46.1	46.0	48.6	146.8	131.3	112.4
Fed off or cut for green feed or silage	32.0	32.2	28.4		•	
Total all oats	190.8	210.0	232.6	••		

Oats Grown in South Australia

RYE

Rye is a minor crop, but it is used to control sand drift and particularly to stabilise the light soils of the Murray Mallee. Because the sands are deficient in two main nutrients (nitrogen and phosphorus), a mixed superphosphate–ammonia fertiliser is sown with the rye seed early in the season. The rapid early growth of the rye while the ground is still warm and before the strong winds of winter cause sandblast, is at present the most effective form of controlling drifting sand.

Rye provides early greenfeed while some grain is produced on a number of farms. Although most grain is used for stockfeed, varying quantities are exported in different years for milling. Rye hay is of poor nutritional quality and only a few hundred tonnes are produced each year.

In 1988–89, 18,929 hectares of rye for grain yielded 6,369 tonnes.

PASTURES

The area reported as being under various types of pasture for the past four years, is shown in the following table.

Type of pasture	1986	1987	1988	1989
Pure lucerne Clovers and/or medics	94,202 1.076.456	103,060 1.109,307	106,162 1.001.710	110,913 940,817
Sown grasses only	132,455	112,877	120,058	154,146
Native pasture	7,040,279	8,480,860	8,814,094	9,173,606
Total	10,435,726	12,067,308	12,514,148	12,888,812

Area Under Pasture in South Australia at 31 March (Hectares)

The Murray Mallee and Eyre Peninsula have been transformed from unstable farming districts to productive areas through the sowing of improved pastures. The South East Statistical Division has more improved pastures than any other statistical division within the State.

Pastures Other Than Native Pasture : South Australia at 31 March ('000 hectares)

Statistical Division	1986	1987	1988	1989
Adelaide	10	12	10	12
Outer Adelaide	357	365	365	377
Yorke and Lower North	299	303	311	306
Murray Lands	738	819	861	855
South East	1,243	1,281	1,314	1,359
Еуге	642	698	729	668
Northern	106	109	110	138
– Total	3,395	3,586	3,700	3,715

The following table shows the area and production of pastures cut for hay, as well as the area cut for green feed or silage, over the past three years.

Production of Hay and Green Feed from Pastures, South Australia

		Area			Production		
Use and geographical area	1986–87	1987–88	1988-89	1986–87	198788	1988-89	
	hectares	hectares	hectares	tonnes	tonnes	tonnes	
Pure lucerne:							
Cut for hay	19,103	16,827	17,465	89,097	79,122	75,585	
Cut for green feed or silage	1,207	1,368	1,202	•			
Other than pure lucerne (whether sown or volunteer):	·	·					
Cut for hay	110.312	93,685	102,922	336,703	273,472	294,835	
Cut for green feed or silage	3,717	3,480	3,146	,			
Total	134,340	115,360	124,735	••			

PASTURE SEEDS

Sown pastures form the basis for efficient farming in the cereal and high rainfall zones of the State. Legumes (clovers and medics) maintain or increase soil fertility by harbouring rhizobial bacteria which convert nitrogen from the atmosphere. Legumes generally have high nutritive value as livestock feed, and by decaying, or returned as manure, increase soil nitrogen which can be utilised by cereals or other pasture grasses.

		Area		Production		
Crop	1986–87	1987–88	1988-89	1986-87	1987–88	1988-89
	hectares	hectares	hectares	tonnes	tonnes	tonnes
Lucerne Clovers:	12,201	13,993	12,242	2,822	3,504	3,813
Rose, Shaftal	1,145	395	526	437	108	96
Strawberry	436	252	203	81	40	29
Subterranean	3,056	3,222	4,505	1,790	1,855	2,526
White	1,694	1,549	1,064	513	435	268
Other	1,124	616	782	439	150	237
Cocksfoot	62	81	87	10	19	24
Fescue Medics:	28	64	194	25	23	122
Barrel	4,703	2,475	3,244	1,986	523	659
Paragosa	60	-	12	18		5
Snail	238	274	251	131	121	64
Other	24	30	40	12	5	10
Phalaris tuberosa	898	1,028	1,381	242	233	380
Other n.e.i.	1,143	759	1,457	110	82	152
Total	26,812	24,737	25,988	8,616	7,099	8,386

Pasture and Grass Harvested for Seed : Area and Production, South Australia

The seed industry has pioneered many overseas markets for legumes. While many crops are grown each year the industry quickly adapts to fill special demands; this accounts for some of the fluctuations shown in the table above. Lucerne is the most important perennial legume in South Australia and growers in this State supplied approximately 88 per cent of national production in 1988–89.

OILSEEDS

In recent years there has been a significant variation in the area sown to oilseeds. These prove an alternative to wheat, wool and meat production and are mainly grown under contract to processors and stockfeed manufacturers. The seed is crushed to yield oils which have domestic and industrial applications and the high protein meal by-product is used for the manufacture of stockfeeds. Details of area and production of selected oilseeds are shown in the following table.

Selected Oilseed Crops : Area and Production, South Australia

Season	Linseed	Rapeseed	Safflower	Sunflower
	AREA (H	ectares)		
1986–87 1987–88 1988–89	1,203 1,290 248	5,085 4,789 4,271	1,720 3,201 3,319	1,469 789 551
	PRODUCTIO	N (Tonnes)		
1986–87 1987–88 1988–89	1,426 1,073 145	8,341 7,412 7,277	1,386 2,979 2,797	1,740 1,194 808

VEGETABLES

The market garden industry in South Australia is characterised by a large number of growers, most of whom cultivate only a few hectares. Many of the gardens form part of a larger holding. Much of the production of the industry comes from properties with easy access to the Adelaide market. Of the total area of approximately 8,000 hectares devoted to market gardens, districts adjacent to Adelaide account for 3,732 hectares producing all types of vegetables, including large quantities of celery and early tomatoes for export.

		Area		Production			
Vegetable	1986-87	198788	1988-89	1986-87	198788	1988-89	
	hectares	hectares	hectares	tonnes	tonnes	tonnes	
Broccoli	143	191	188	958	1,191	1,347	
Brussels sprouts	125	138	109	2,607	3,051	2,129	
Cabbages (incl. Chinese cabbages)	181	186	222	7,860	6,544	7,750	
Carrots	374	419	429	12,121	12,644	13,223	
Cauliflowers	251	256	278	13,013	12,515	11,723	
Celery	129	117	105	6,748	5,736	3,829	
Cucumbers	55	60	55	2,343	2,922	2,320	
Lettuce	289	337	348	6,372	5,764	6,101	
Melons, rock and cantaloupe	213	231	288	5,838	6,070	6,155	
Melons, water	66	66	47	1,708	1,490	1,241	
Mushrooms	-4	4	6	1,189	1,143	1,390	
Onions	1,083	1,017	1,114	48,378	44,457	48,207	
Peas	42	41	24	92	90	44	
Potatoes	3,402	3,911	3,861	105,438	122,848	119,147	
Pumpkins	436	388	344	8,085	7,098	6,041	
Sweet corn	92	63	84	816	737	1,370	
Tomatoes	203	203	187	6,795	6,049	6,348	
Turnips	25	24	15	504	353	294	
Other	287	305	303	••	••		
Total	7,400	7,957	8,007	••			

Principal Vegetables for Human Consumption, South Australia

About 1,850 hectares are cultivated in the South East Division, with approximately 1,340 hectares being potatoes. An area of some 25 hectares in the Northern Division (mainly on the coastal plains near Port Pirie) is used for the production of peas, potatoes and early tomatoes for Adelaide and Melbourne markets. A substantial area along the River Murray is devoted to production of potatoes, pumpkin and melons for the Adelaide market, tomatoes for local markets and small areas of most other vegetables.

The bulk of the potato production comes from the central and southern Adelaide Hills and from the Mount Gambier area. The 1988–89 average yield was 31 tonnes per hectare.

The Adelaide Plains produce most of the South Australian tomatoes which are grown in glasshouses. Significant quantities, mostly for canning and juice production in local factories, are now grown in the Upper Murray irrigation areas.

GRAPES

Approximately 40 per cent of Australia's vineyard area is located in South Australia where the bulk of the grapes are used for winemaking. In 1988–89 South Australia produced 259 million litres of wine and 3,404 tonnes of dried vine fruit representing 52 per cent and 6 per cent respectively of total Australian production.

	Vine	25	Production of grapes for		
Season	Bearing	Not yet bearing	Wine	Table	Drying
	hectares	hectares	tonnes	tonnes	tonnes
1985–86 1986–87	23,310 22.024	1,213 1,079	280,420	3,046	32,870
1987–88	22,024 21,903	1,079	283,721 247,413	2,860 2,531	24,901 22,077
1988–89	21,791	1,482	310,427	2,572	14,546

Area and Production of Vineyards, South Australia

The area planted to vines at harvest 1989 was 23,274 hectares and total production 327,545 tonnes. Grubbings in 1988–89 totalled 367 hectares.

Area		Total grape	Wine	Dried	fruit productio	on (b)
Season	of vines	production (fresh)	production (a)	Currants	Sultanas	Raisins
	hectares	tonnes	'000 litres	tonnes	tonnes	tonnes
198586	24,523	316,336	220,591	1,910	5,058	775
1986-87	23,103	311,482	223,744	1,671	3,596	642
1987-88	23,033	272,021	210,359	1,363	3,600	152
1988–89	23,274	327,545	259,127	1,363	1,873	168

Area, Production and Utilisation of Grapes, South Australia

(a) Excludes grape spirit added.

(b) Dried weight.

A steady decline in the area of vineyards over the past ten years has now been reversed with the South East substantially increasing its area. The decline was greatest in 1985–86, when the Vine Pull Scheme was in operation.

Grape Growing Districts

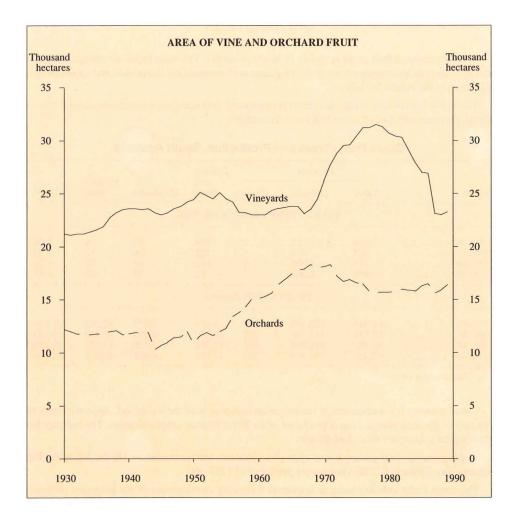
The grape growing districts of South Australia are subject to substantial variety in geographical location, climatic variations and soil conditions and can be divided into seven easily recognisable regions ranging from the Clare–Watervale district in the north to the southern limit of the grape growing area at Coonawarra in the south–east of the State and bounded by the irrigated areas of the River Murray to the east.

Supplementary irrigation is carried out in some grape growing districts which have not been officially designated as irrigation areas, especially Langhorne Creek and Coonawarra where approximately 50 to 60 per cent of all vines are under irrigation. The other areas are mainly dependent on winter rainfall stored in the sub-soil by careful dry-farming methods, to be used during the summer growing season of the vine – the yields in the non-irrigated districts are more variable than the Upper Murray irrigation areas.

Grape Varieties

Premium varieties, including Chardonnay, Pinot Noir, Sauvignon Blanc and Merlot have recorded large increases in area, whilst areas of other varieties such as Grenache, Mataro and Doradillo declined.

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Principal Varieties of Vine, South Australia (Hectares)

Variety	1985-86	1986–87	1987–88	1988–89
Cabernet Sauvignon	2,174	2,113	2,210	2,437
Chardonnay	984	1,123	1,283	1,588
Crouchen	663	541	491	426
Doradillo	923	844	765	731
Grenache	2,294	2,019	1,956	1,927
Mataro	658	539	516	506
Muscat Gordo Blanco	2,009	1.974	1.911	1,805
Palomino and Pedro Ximenez	1,422	1,250	1,183	1,150
Pinot Noir	301	337	392	458
Rhine Riesling	3,153	2,910	2,874	2,796
Sauvignon Blanc	339	349	406	419
Shiraz	3,137	2,856	2,852	2,855
Sultana	2,172	2,053	1.960	1,878
Traminer	371	350	312	302

ORCHARD FRUIT

A wide variety of fruit crops is grown in South Australia. The main types are oranges, peaches and apricots (predominantly grown in the irrigation settlements of the Riverland) and apples (nearly all grown in the Adelaide Hills).

The following table showing citrus trees six years and over and production during recent seasons shows the predominance of navel and valencia oranges.

		Oranges		Lemons		Current	Total(a)
Season	Navel	Valencia	Other	and limes	Mandarins	Grape– fruit	
		TREES 6 YEA	ARS AND	OVER ('0	00)		
1985–86	475	921	3	104	63	74	1,642
1986–87	504	975	3	101	66	72	1,723
1987–88	513	1,006	2	102	69	71	1,764
1988–89	526	1,065	3	95	71	72	1,835
		PROD	UCTION (tonnes)	7		
1985–86	61,348	122,600	299	15,003	5,575	12,292	217,204
1986–87	68,158	133,390	307	16,241	6,529	11,180	235,934
1987–88	63,207	121,398	272	12,044	5,720	12,127	214,860
1988–89	47,321	97,415	260	12,018	6,551	10,311	173,969

Citrus Fruit : Trees and Production, South Australia

(a) Includes other citrus.

Citrus growing is concentrated in the irrigation settlements of the Riverland. Approximately 68 per cent of the total orange crop is produced in the River Murray irrigation areas. The industry has shown great expansion in the last decade.

Apple growing is the principal non-citrus fruit industry and is concentrated in the Adelaide Hills where approximately 13,700 tonnes were produced in 1988–89.

The stone fruits industry became important following development of the irrigation schemes. South Australia is the major apricot–producing State, with the greater part of the crop being dried.

A large proportion of Australia's almonds are produced in South Australia, mainly in the Willunga and Riverland areas. In 1988–89, 1,380 tonnes were produced from 420,107 trees of bearing age.

Cherries, pears, plums and prunes, and strawberries are the most important of the remaining crops.

The Upper Murray irrigation areas and the Barossa Valley of South Australia account for almost the entire Australian production of dried apricots, peaches, pears and nectarines. A small proportion of the Australian production of dried prunes is produced in the Barossa Valley and in the Noarlunga district.

Non-citrus Orchard Fruit : Trees and Production, South Australia

Season	Apples	Apricots	Cherries	Peaches	Pears	Plums and prunes
	7	FREES 6 YEARS	AND OVER ('()00)		
1985–86	344	255	30	120	78	48
1986–87	344	255	29	116	75	46
1987-88	339	266	32	115	76	43
1988–89	321	293	31	114	71	50

Season	Apples	Apricots	Cherries	Peaches	Pears	Plums and prunes
		PRODUCT	ION (tonnes)			
1985–86	17,803	16,553	455	8,388	6,752	1,856
1986–87	21,045	17,402	375	8,607	6,398	1,981
1987-88	19,592	16,173	330	8,056	6,628	864
1988–89	18,317	17,054	330	6,850	6,312	975

Non-citrus Orchard Fruit : Trees and Production South Australia (continued)

OTHER CROPS

Of the other crops cultivated in South Australia such as field peas, canary seed, triticale, lupins, vegetable seeds and coriander, the field peas and lupins are the most important.

In 1988–89, 140,340 hectares of field peas were grown for grain, yielding 152,976 tonnes; virtually all of this area is located in the cereal growing districts north of Adelaide. Field peas are grown mainly as a livestock fodder or for processing into split peas.

Lupin grain is used mainly in stockfeed, as a protein source for poultry and pigs and also to some extent as a protein supplement for ruminants. In 1988–89, 39,702 tonnes of lupins were grown for grain from 46,145 hectares – approximately 78 per cent being produced in the Murray Lands and South East.

A considerable portion of the area devoted to nurseries is found in the vicinity of Adelaide and there are several fruit tree nurseries in the horticultural districts of the River Murray.

Establishments which undertake propagation, cultivation or growing-on of nursery produce for sale provide information about their operations triennially. Latest figures for the 1988–89 season show that the area used for nurseries (including flower growing) and cultivated turf production was 852 hectares for those nurseries within the scope of the 1988–89 Census.

VALUE OF AGRICULTURAL PRODUCTION

The value of agricultural production may be expressed in terms of gross value and local value. Gross value is defined as the value placed on recorded production at wholesale prices realised in principal markets. Where products are absorbed at a local point or become raw material for a secondary industry the value in each case is presumed to be the value of the principal market. Local value equals the gross value of production less marketing costs.

VALUE AND PRICES OF CROPS

The gross value of crops (including pastures) for South Australia in the 1988–89 season was estimated at \$1,052.2 million.

In the following table gross values of principal crops for the seasons 1986–87 to 1988–89 are shown.

Commodity	198687	198788	1988–89
Cereals:		<u></u>	
Wheat	335,337	304,150	292,574
Barley	183,761	153,171	170,791
Oats	15,618	18,930	21,529
Rye	2,955	971	1,033
Crops for hay	16,871	15,214	17,166
Lupins for grain	6,963	6,095	8,295
Rapeseed	1,962	1,816	2,335
Sunflower	449	348	254
Field peas	26,581	37,512	34,004
Field beans	11,027	14,470	7.600
Fruit (excluding grapes):	11,027	17,770	7,000
Citrus	52,554	54,787	64,405
Apples	24,536	18,965	21,781
	18,541	22,603	22,307
Apricots	3,751	3,994	3,719
Peaches	20,807	19,630	22.277
Other	20,007	19,050	22,211
	60 675	05 540	165 107
Wine grapes	69,675	95,542	165,187
Table grapes	2,206	2,676	3,205
Dried currants, raisins, etc.	10,122	10,122	6,622
Vegetables:	60 60 (
Potatoes	22,386	29,724	43,241
Tomatoes	7,352	5,581	5,151
Onions	19,065	17,308	39,978
Other	50,014	53,308	67,453
Other crops	25,632	32,310	40,682
Total crops (excluding pastures)	928,164	919,227	1,061,589
Pastures:			·
Pasture seed	15,243	14,957	13,400
Pastures cut for hay	32,647	29,579	27,970
Total pastures	47,890	44,536	41,369
Gross value of crops	976,054	963,763	1,102,958

Gross Value of Principal Crops, South Australia (\$'000)

Market prices of principal crops grown in South Australia for the years 1983–84 to 1988–89 are set out in the following table.

	•	•	,			
Commodity	1983-84	1984–85	1985-86	1986–87	1987-88	1988–89
Cereals:						
Wheat (a)	164.86	173.72	170.63	149.69	169.07	215.62
Barley (a)	153.95	136.06	122.58	115.85	123.36	168.65
Oats	130.55	116.66	118.85	118.41	147.34	187.96
Rye	131.73	147.65	188.65	135.63	149.53	157.98
Fruit:						
Apples	759.33	910.67	848.00	1,157.33	1,008.67	1,250.00
Apricots	1,018.00	900.00	1,010.00	1,200.00	1,431.00	1,870.00
Peaches	1,229.00	1,170.00	910.00	1.031.48	1,150.00	1,700.00
Pears	692.77	674.44	730.00	880.00	929.57	990.00
Oranges;						
Navel (a)	272.75	272.93	281.57	262.44	291.30	390.00
Other (a)	212.03	233.55	217.59	205.32	234.15	380.00
Grapes;						
Table	961.00	821.00	1,013.00	1.141.00	1,153.00	1,248.00
Wine (b)	228.64	238.29	212.31	235.61	363.48	494.72

Prices of Principal Crops, South Australia (Dollars per tonne)

Commodity	1983–84	1984–85	1985–86	1986–87	1987–88	1988–89
Vegetables:						
Potatoes (a)	328.77	174.39	183.75	212.00	232.47	358.00
Onions	465.30	275.72	268.14	400.40	381.93	840.50
Tomatoes;						
Glasshouse	1,080.00	1,549.00	1,311.00	1,463.00	1,460.00	1,690.50
Other	582.00	732.00	798.00	789.00	1,123.00	1,344.50

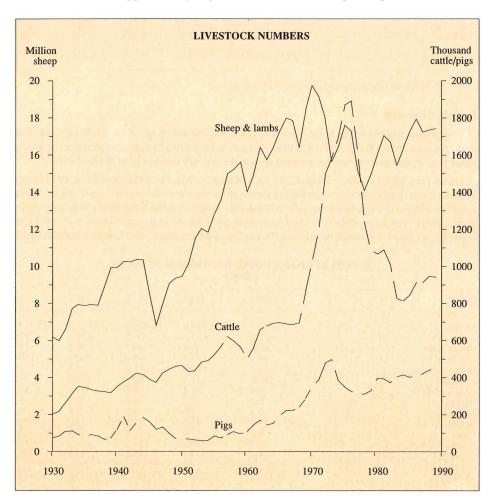
Prices of Principal Crops, South Australia (continued) (Dollars per tonne)

(a) Average price realised. (b) Weighted averaged price at winery.

PASTORAL AND DAIRYING

Pastoral activities, with sheep grazing predominant, are widespread in South Australia under widely varying climatic conditions from the arid saltbush plains in the Far North through to the lush, well-watered pastures of the South East.

South Australia has approximately 11 per cent of the nation's sheep and 4 per cent of cattle.



The Dog Fence

This fence is an unbroken barrier of wire netting about two metres high extending for more than 8,000 kilometres through South Australia, along the South Australia–New South Wales and the New South Wales–Queensland borders and through part of Queensland. It has been erected to protect the sheep lands of these States from dingoes.

SHEEP

Numbers and Distribution

At 31 March 1989 sheep in South Australia numbered 17,413,880. The next table shows the total number of sheep in statistical divisions at 31 March for the years 1985 to 1989.

		('000)				
Statistical Division	1985	1986	1986(a)	1987	1988	1989
Adelaide	66	61	49	41	39	37
Outer Adelaide	2,196	2,304	2,153	2,152	2,099	2,166
Yorke and Lower North	2,304	2,325	2,275	2,160	2,206	2,145
Murray Lands	2,307	2,505	2,457	2,443	2,484	2,488
South East	5,233	5,358	5,255	5,184	5,018	5,216
Eyre	2,410	2,502	2,472	2,417	2,518	2,294
Northern	2,747	2,884	2,846	2,836	2,989	3,068
Total	17,263	17,938	17,506	17,234	17,352	17,414

Sheep Numbers : Statistical Divisions, South Australia, at 31 March ('000)

(a) 1985-86 Census figures adjusted to \$20,000 EVAO cut-off.

Breeds of Sheep

The predominant breed in South Australia is the Merino which accounts for 90 per cent of the total sheep numbers. The South Australian Merino, having a robust constitution and a capacity to travel long distances to water, has adapted well to the hot, dry conditions of the interior.

Of the remaining recognised breeds, the Australasian breeds, Corriedale and Polwarth, are most important, with Poll Dorset numbers having shown an increase over the past six years. The Corriedale and Polwarth are dual purpose sheep breeds used for meat but at the same time producing wool of good quality. The Corriedale is a fixed cross between Lincoln rams and Merino ewes while the Polwarth is a fixed comeback breed from the mating of Merino rams with Lincoln–Merino ewes.

Breeds of Sheep, South Australia, at 31 March ('000)

Breed	1977	1980	1983	1986	1989
Merino	13,174.3	13.590.9	12.873.4	15,089.0	15,713.2
Corriedale	557.1	607.2	560.3	438.8	281.9
Dorset Horn	45.6	95.4	40.7	30.2	34.7
Poll Dorset	58.3	132.7	95.0	100.5	110.2
Border Leicester	108.8	119.0	115.0	128.5	113.9
Polwarth	120.0	131.3	103.8	111.0	73.7
Romney Marsh	18.4	31.4	28.8	21.4	17.3
Ryeland	6.2	4.2	6.0	5.3	5.6
Southdown	2.3	1.9	4.6	3.8	3.3
Suffolk	23.9	41.0	37.1	33.0	38.4
Other	9.6	17.0	12.9	28.1	25.2
Merino-Comeback	73.5	156.9	285.2	813.5	215.7
Crossbred	934.2	1,117.3	1,285.2	1,135.3	780.8
Total	15,132.3	16,046.3	15,448.0	17,938.4	17,413.9

British longwools (Border Leicester, Cheviot and Romney Marsh) are used for mating with the Merino or crossbred ewes to produce fat lambs, but useful types of comeback and crossbred wools are also yielded. British shortwools (Dorset Horn, Ryeland, Suffolk, Southdown and Shropshire) are used principally for production of export lambs.

The following table shows the composition of the sheep flock in South Australia at 31 March from 1986 to 1989.

Year	Rams	Breeding ewes	Maiden ewes	Other ewes	Wethers	Lambs and hoggets (under one year)	Total sheep
1985	231	8,494	(a)	701	3.530	4.307	17,263
1986	238	8,366	(a)	889	4,123	4,324	17,938
1986 <i>(b)</i>	232	8,168	(a)	857	4,002	4,248	17,506
1987	228	7,655	1,011	417	4,095	3,829	17,234
1988	226	7,227	1,251	433	4,083	4,132	17,352
1989	223	7,200	1,342	465	4,259	3,925	17,414

Composition of the Sheep Flock, South Australia, at 31 March ('000)

(a) Previously included in breeding ewes.

(b) 1985-86 Census figures adjusted to \$20,000 EVAO cut-off.

Lambing

In 1989, 7,428,271 ewes were mated and the number of lambs marked totalled 6,151,201. Details of lambs marked and the lambing percentage in each statistical division in 1987–88 and 1988–89 are given in the next table.

Lambing : Statistical Divisions, South Australia

	Lambs r	narked	Lambing percentage (a)		
Statistical Division	1987–88	198889	1987–88	1988–89	
	'000	'000	per cent	per cent	
Adelaide	17	16	89.47	82.12	
Outer Adelaide	708	688	83.21	82.86	
Yorke and Lower North	818	766	83.14	81.88	
Murray Lands	1.069	1.066	84.44	84.79	
South East	1,903	1.814	89.31	88.83	
Eyre	784	709	78.46	72.28	
Northern	1,157	1,093	83.90	80.15	
Total	6,454	6,151	84.63	82.81	

(a) Percentage of lambs marked to ewes mated.

Sheep Shearing and Wool-clip

In the agricultural areas of the State most shearing takes place during the late winter and spring months, August to November. Shearing in the South East Division occurs somewhat later, with most of the wool–clip being obtained in the periods October–November, February–March and August–September.

Approximately 92 per cent of the total wool is obtained from adult sheep. The average fleeceweight in South Australia for 1988–89 was 5.78 kg a head for adult sheep, with a record 6.55 kg a head being achieved in 1983–84. This is significantly higher than the yield obtained in other States, and is primarily because of the larger size of the South Australian Merino, its broader wool quality and longer thicker–stapled fleece.

The next table gives details of sheep and lambs shorn, wool–clip and average fleeceweight in South Australia for the years 1984–85 to 1988–89.

198485	1985–86	1985–86 (a)	1986–87	1987–88	1988–89
NUM	BER SHORI	('000)			
15,214 4,905	15,720 4,674	15,232 4,571	15,649 4,375	15,732 4,737	16,019 4,483
20,119	20,394	19,803	20,024	20,469	20,503
WO	OL-CLIP ('O	000 kg)			
88,998 9,267 4,476	91,242 8,857 4,604	84,098 8,238 4,251	85,591 7,756 4,255	87,873 8,645 4,335	88,293 8,358 4,354
102,741	104,704	96,587	97,601	100,854	101,005
AVERAGE	FLEECEWH	EIGHT (kg)(b)		
6.14 5.11	6.10 5.13	5.80 4.88	5.74 4.87	5.86 4.93	5.78 4.93
	NUM 15,214 4,905 20,119 WOO 88,998 9,267 4,476 102,741 AVERAGE 6.14	NUMBER SHORI 15,214 15,720 4,905 4,674 20,119 20,394 WOOL-CLIP (*C 88,998 91,242 9,267 8,857 4,476 4,604 102,741 104,704 AVERAGE FLEECEWF 6.14 6.10	(a) NUMBER SHORN ('000) 15,214 15,720 4,905 4,674 4,905 4,674 20,119 20,394 19,803 WOOL-CLIP ('000 kg) 88,998 91,242 9,267 8,857 8,238 4,476 4,604 102,741 104,704 96,587 AVERAGE FLEECEWEIGHT (kg)(6.14 6.10 5.80	(a) NUMBER SHORN ('000) 15,214 15,720 15,232 15,649 4,905 4,674 4,571 4,375 20,119 20,394 19,803 20,024 WOOL–CLIP ('000 kg) 88,998 91,242 84,098 85,591 9,267 8,857 8,238 7,756 4,476 4,604 4,251 4,255 102,741 104,704 96,587 97,601 AVERAGE FLEECEWEIGHT (kg)(b) 6.14 6.10 5.80 5.74	(a) NUMBER SHORN ('000) 15,214 15,720 15,232 15,649 15,732 4,905 4,674 4,571 4,375 4,737 20,119 20,394 19,803 20,024 20,469 WOOL-CLIP ('000 kg) 88,998 91,242 84,098 85,591 87,873 9,267 8,857 8,238 7,756 8,645 4,476 4,604 4,251 4,255 4,335 102,741 104,704 96,587 97,601 100,854 AVERAGE FLEECEWEIGHT (kg)(b) 6.14 6.10 5.80 5.74 5.86

Sheep and Lambs Shorn : Wool–clip and Average Fleeceweight South Australia

(a) 1985-86 Census figures adjusted to \$20,000 EVAO cut-off.

(b) Includes crutchings.

A breakdown of the figures for 1988–89 by statistical divisions is given in the next table. This shows the high average fleeceweight obtained in the northern pastoral areas. The relatively light average fleece obtained in the South East Division is explained partly by the lower proportion of Merino sheep, but more importantly by the lighter wool quality of the smaller framed sheep in this area.

Sheep and Lambs Shorn : Wool–clip and Average Fleeceweight Statistical Divisions, South Australia, 1988–89

					•••			erage veight (a)
	N	umber shor	n		Wool-clip			Sheep
Statistical Division	Sheep	Lambs	Total	Sheep (a)	Lambs	Total (a)	Sheep	and lambs
	'000	' <i>000</i> '	' <i>000</i> '	'000 kg	'000 kg	'000 kg	· kg	kg
Adelaide	76	4	80	180	7	188	2.37	2.35
Outer Adelaide	2,040	460	2,500	11,150	808	11,957	5.47	4.78
Yorke and Lower North	1,963	556	2,519	11,493	989	12,482	5.85	4.95
Murray Lands	2,264	746	3,009	14,003	1,345	15,349	6.19	5.10
South East	4,685	1,355	6,040	26,458	2,571	29,029	5.65	4.81
Eyre	2,281	533	2,814	12,930	826	13,756	5.67	4.88
Northern	2,711	829	3,540	16,432	1,812	18,244	6.06	5.15
Total	16,019	4,483	20,503	92,646	8,358	101,005	5.78	4.93

(a) Includes crutchings.

WOOL INDUSTRY

Production of Wool

Total wool production consists of shorn wool (including crutchings) plus dead wool and wool exported on skins. Dead wool is picked from the carcasses of dead sheep. The next table shows wool production and value from 1986–87 to 1988–89. The gross value of production has risen strongly to \$612.2 million due largely to high wool prices.

Wool Production and Value, South Australia

Year	Receivals of shorn wool (a)	Other(b)	Total	Value of wool production
	'000 kg	'000 kg	'000 kg	\$'000
1986–87 1987–88 1988–89	107,354 114,169 113,316	8,452 8,251 6,960	115,805 122,420 120,298	389,279 575,348 612,190

(a) Source: The National Council of Wool Selling Brokers of Australia and ABS Dealers Collection.

(b) Includes fellmongered wool, dead wool, and wool exported on skins.

Wool Quality and Marketing

Most of the wool grown in South Australia is sold through the auction system. Of the South Australian wool passing through the auction system approximately 80 per cent is received by the Adelaide selling centre with the remainder, predominantly of South East origin, going to Victorian selling centres. A similar inflow of wool occurs from western New South Wales, and to a lesser extent from western Victoria.

Adelaide Wool Sales

	Wool s (scoured and		4	Average price		
Year	Bales	Weight	Amount realised	per kg (greasy)	In store at 30 June	
	number	'000 kg	\$'000	cents	bales	
1986–87 1987–88 1988–89	513,708 545,260 526,877	89,111 95,004 92,064	306,047 468,397 497,709	343.44 493.03 540.61	13,618 17,022 29,394	

Source: The National Council of Wool Selling Brokers of Australia.

Wool Prices

Prices paid for wool sold in South Australia tend to be on average less than prices realised in other States, this being partly attributable to the large proportion of medium to broad quality wools grown in South Australia and in western New South Wales.

CATTLE

In comparison with other States, cattle grazing is not a major industry in South Australia. Of the cattle in Australia at 31 March 1989, 4 per cent of those used mainly for meat production and about 6 per cent of those for milk production were in South Australia. At 31 March 1989 the total number of cattle was 942,504.

			Stati	stical Divisi	on			
Classification	Adelaide	Outer Adelaide	Yorke and Lower North	Murray Lands	South East	Eyre	Northern	Total
Cattle for milk production:								
Bulls (a)	0.1	0.6	0.1	0.2	0.5	-	-	1.5
Cows	3.9	41.4	2.5	25.2	17.3	0.6	0.8	91.7
Heifers	1.3	12.4	0.8	8.0	5.0	0.2	0.2	27.9
Calves under one year	1.0	9.2	0.6	6.4	4.4	0.2	0.2	22.0
House cows	-	0.2	0.2	0.2_	0.2	0.2	0.1	1.3
Total	6.3	63.8	4.3	40.0	27.4	1.3	1.4	144.4
Cattle for meat production:	_							
Bulls (a)	0.1	1.9	0.9	1.6	11.0	0.5	4.6	20.6
Cows and heifers	2.8	34.5	14.2	39.8	217.2	10.3	110.5	429.3
Calves under one year	1.7	18.2	9.1	26.8	94.7	6.5	52.2	209.4
Other cattle	0.7	11.0	3.3	8.6	70.4	1.0	43.7	138.7
Total	5.3	65.6	27.6	76.9	393.3	18.4	211.0	798.1
Total cattle	11.6	129.5	31.9	116.9	420.7	19.7	212.3	942.5

Cattle Numbers : Statistical Divisions, South Australia, at 31 March 1989 ('000)

(a) Used or intended for service.

Cattle for Meat Production

Numbers of cattle for meat production have increased steadily in South Australia and at 31 March 1989 there were 798,088 cattle for meat production recorded. At 31 March 1988 there were 794,272 cattle for meat production.

In the northern pastoral areas, Shorthorns are the predominant breed and there are lesser numbers of Herefords; in the South East, Herefords and Shorthorns are the main breeds and there are substantial numbers of Aberdeen Angus while near Adelaide, where a number of studs are located, several breeds are well represented. In recent years several European breeds have been introduced, most notably the Charolais.

Cattle for Milk Production

There has been a steady decline in the total number of cattle for milk production over the last decade or so. The total number at March 1989 was 144,416 compared with 152,966 the previous year.

Properties in South Australia on which dairying is the main activity are situated mainly in the areas where high rainfall or irrigation permits the growing of sown pastures, but many of the mixed farms in the better cereal growing areas carry herds used mainly for milk production. Dairy production on these farms is almost entirely in the form of cream for butter making, whereas the properties in the sown pasture areas mainly market whole milk, either for consumption in the Adelaide area or for cheese making.

DAIRY PRODUCE

Milk

Total milk production in any one year is not known precisely. However, as details are known of two major components of total milk utilisation in South Australia, namely the amount consumed by factories in the production of milk, cheese, butter and other milk products and home consumption in the Metropolitan Milk Board area, an estimate can be made.

The following table shows the estimated production of whole milk and the quantity of this milk used for various purposes in 1988–89 and earlier seasons.

Production and Utilisation of Milk, South Australia ('000 litres)

Year		Milk used for			
	Total milk produced		Home consumption		
		Factory cheese (a)	Milk Board area	Outside Milk Board area	
1986–87 1987–88 1988–89	373,642 377,062 369,528	211,075 197,025 190,075	115,546 119,614 121,327	26,999 24,368 26,407	

(a) Factory production accounts for virtually all cheese produced. Source: Australian Dairy Corporation.

PIGS

In past years pigs were kept in South Australia as a sideline on mixed farms or in conjunction with dairy cattle, but now there is a trend towards specialising in pigs. At 31 March 1989 there were 449,893 pigs, of which approximately 47 per cent were in Outer Adelaide and the Yorke and Lower North Divisions. The principal breeds in South Australia are Large White, Berkshire, Landrace and Tamworth.

Pig Numbers, South Australia, at 31 March

Description	1987	1988	1989
Pigs:			
Boars	3,495	3,573	3,470
Breeding sows	45,641	47,954	47,460
Gilts	6.455	5.317	6,060
Other pigs	366,794	384,172	392,903
Total	422,385	441,016	449,893

MEAT PRODUCTION AND MARKETING

South Australia is a relatively small meat producer, providing approximately eight per cent of total Australian production. The following table shows the number of livestock slaughtered for human consumption (including exports) and the production of meat during the last six years. Slaughterings and meat production on rural establishments are included in these figures.

Livestock Slaughtered and Meat Produced, South Australia

Livestock slaughtered for human consumption		Meat production (carcass weight)					
Year	Cattle and calves	Sheep and lambs	Pigs	Beef and veal	Mutton and lamb	Pigmeat	Total
	'000	'000	' <i>000</i> '	tonnes	tonnes	tonnes	tonnes
1984–85 1985–86 1986–87 1987–88 1988–89 1989–90	434 429 461 453 408 456	3,428 3,856 4,009 4,154 3,961 4,588	589 588 643 602 659 621	80,672 79,313 91,478 92,818 88,143 100,457	65,936 72,992 76,527 79,896 78,362 88,991	36,508 37,432 40,761 36,671 40,364 40,815	183,116 189,736 208,766 209,386 206,869 230,263

		\ ,				
Class of stock	1985	1986	1987	1988	1989	1990
Fat cattle:						
Bullocks and steers;						
Young, 120–160 kg medium .	297.40	291.29	291.16	315.04	350.63	347.77
Steers, 250–300 kg medium	511.08	517.92	535.98	550.98	567.33	575.77
Bullocks, 300–350 kg medium	560.85	579.93	608.61	621.78	619.92	657.74
Cows;						
160–250 kg medium	334.50	352.84	388.31	410.84	408.65	421.75
Calves;						
Prime vealers	212.68	231.84	256.10	265.73	329.10	328.94
Good	142.37	143.53	158.97	153.21	198.44	180.67
Fat sheep:						
Wethers;						
Over 22 kg medium	13.39	16.36	21.63	22.93	18.92	8.01
Ewes;						0101
Under 22 kg medium	10.41	12.00	17.15	17.05	16.76	5.86
Lambs;	10111	12100		17100	10110	2100
16–19 kg medium	20.33	25.68	31.49	28.19	24.90	25.88
Young, 16–19 kg medium	21.49	26.60	33.39	30.86	31.61	27.80
Pigs:	21.19	20.00	55.57	50.00	51.01	27.00
Choppers	192.34	193.21	190.66	206.12	225.94	234.87
Baconers	107.08	112.86	117.54	133.89	146.84	135.82
Porkers	75.52	76.69	76.71	79.07	89.13	87.25
	, 5.52	, 5.07	10.11	, 9.07	07.10	57.25

Livestock, Average Prices at Adelaide Market (Dollars)

GROSS VALUE OF LIVESTOCK PRODUCTS AND SLAUGHTERINGS

Gross value is the value placed on recorded production at the wholesale prices realised in principal markets. The following table shows for the past four years the gross value of livestock products, and livestock slaughterings and disposals.

Particulars	1985–86	1986-87	1987–88	1988–89			
L	IVESTOCK PRO	DUCTS (\$'000)					
Wool	330,150	389,279	575,348	612,190			
Manufactured	32,364	35,001	38,998	39,767			
Market sales (a)	42,165	45,757	48,498	53,775			
Eggs	21,287	22,844	22,873	22,840			
Honey and beeswax	3,966	3,844	4,854	3,316			
Total livestock products	429,932	496,724	690,570	<i>731,</i> 888			
LIVESTOCK S	LAUGHTERING	S AND DISPOSAI	LS (\$'000)				
Cattle and calves	103.036	122,790	138.483	145.854			
Sheep and lambs	73,867	105,594	138.854	155,041			
Pigs	53,166	63,142	62.301	80,394			
Poultry	48,158	48,493	55,871	52,016			
Total livestock slaughterings and disposals	278,226	340,019	395,508	433,305			

Gross Value of Livestock Products and Livestock Slaughterings and Disposals, South Australia

(a) Market sales include white, flavoured, high and low fat milk, and UHT milk.

OTHER RURAL INDUSTRIES

Poultry Farming

Poultry farming is a specialised and distinct industry and it is from the specialised hatcheries and chicken-raising establishments that the bulk of commercial production is obtained. The industry can be divided into two categories; the production of eggs, and the raising of poultry for meat. Chickens, scientifically bred for rapid weight gain and known as 'broilers', account for over 97 per cent of total poultry slaughtered.

The main production centres for both categories of this industry are located within an 80 kilometre radius of Adelaide, near the processing works and main consumption outlets. Particular concentrations of growers are at Murray Bridge and Gawler, with some broiler growers established in the Adelaide Hills.

The trend in the egg industry in South Australia is towards a reduction in the total number of poultry farms, but an increase in average flock size. Housing of birds for commercial purposes is largely planned on the intensive principle, with deep litter pens or single and multiple bird cage units. Laying stock consists mainly of a specially produced crossbreed between the White Leghorn and Australian breeds.

Poultry Numbers and Egg Production : South Australia, at 31 March^(a) ('000)

()						
Particulars	1985	1986	1986(b)	1987	1988	1989
Hens and pullets Other fowls and chickens Ducks	1,148 3,911 5 18 164,946	1,150 3,245 3 29 156,558	1,141 3,236 3 29 156,558	1,124 3,229 2 29 155,805	1,023 3,437 2 33 161,855	1,043 3,764 1 15 150,760

(a) Excludes poultry kept in backyards.
(b) 1985-86 Census figures adjusted to \$20,000 EVAO cut-off.
(c) Recorded by the South Australian Egg Board. Year ended 30 June.

Egg production in 1988-89, as reported by the South Australian Egg Board, totalled approximately 12.5 million dozen. However, these figures do not take into account small producers and the movement of eggs interstate independent of the Egg Board, which may represent a significant proportion of total egg production.

Broiler Industry

The following table shows details of poultry slaughtered for human consumption for the last five years.

Poultry Slaughtered for Human Consumption South Australia(a)

Year	Chickens (broilers, fryers or roasters)	Hens and stags	Other	Total
N	JMBER SLAUGH	TERED ('000)		
1984-85 1985-86 1986-87 1987-88 1988-89	30,952 29,159 28,524 28,641 25,548	359 298 242 294 359	72 76 104 95 99	31,383 29,533 28,870 29,029 26,008

Year	Chickens (broilers, fryers or roasters)	Hens and stags	Other	Total
DRESSED WEIG	GHT OF POULTRY	SLAUGHTERED	(tonnes)(b)	
1984–85	35,882	584 444	332	36,799
1985–86 1986–87	34,235 33,776	444 396	405 526	35,084 34,699
1987–88	34,907	561	506	35,966
1988–89	32,946	570	548	34,069

Poultry Slaughtered for Human Consumption South Australia(a) (continued)

(a) Excludes geese slaughtered.

(b) Dressed weight of whole birds, pieces and giblets as reported by producers.

The broiler industry in South Australia has grown rapidly during the past 25 years. Broilers are specially bred meat strain birds of either sex, that are slaughtered between eight and ten weeks of age at a live weight of approximately 1.5 kg. This rapid growth and efficient conversion of feed to meat has been achieved by extensive breeding programs; the use of specially prepared high protein and energy value poultry feeds; growth promotion and disease control drugs; and broiler houses, with controlled temperature, ventilation and light, conducive to fast growth.

Beekeeping

Beekeeping in South Australia is a small industry – in 1988–89 there were 103 beekeepers with forty or more hives. Most commercial apiarists operate on a migratory basis, following the flowering of the various species of honey flora. The production of honey and beeswax fluctuates considerably from year to year, depending upon seasonal conditions.

10.2 FORESTRY

There are an estimated six million hectares of land classified as wooded in South Australia, but much of this is too small or scattered to be of current economic value for wood production or is better retained in its present form for environmental protection. Some 780,000 hectares carry forest or forest woodland, a decreasing part of which is still exploited for minor quantities of timber and fencing or firewood materials. Many of the forested or wooded areas are of considerable value for soil conservation, watershed protection, shelter, shade and conservation of indigenous plants and animals.

The plantation forest estate is of particular economic significance in South Australia, which because of climatic factors is very deficient in natural timber resources.

Of the State's forest reserve totalling 133,400 hectares, 71,447 hectares is currently under pine plantation (mainly *Pinus radiata*). It is estimated an additional 26,000 hectares are under plantation by private forestry organisations and individuals.

Indigenous Forests

The natural forests of South Australia consist of eucalypt hardwoods restricted principally to the Mount Lofty Ranges, the lower Flinders Ranges, the southern portion of Eyre Peninsula, and the South East. A few species are of commercial value and these are used to a very limited extent for the production of poles, posts, rails and sleepers.

Since the 1983 bushfire damage of forest plantations in the South East and Central regions, an extensive replanting program has been undertaken. So far, a total of 15,400 hectares, 77 per cent of

the affected area, has been re-established and it is planned that the remaining 23 per cent be planted by 1993. Only a small percentage of the salvaged logs remain under water storage and tests have shown that retrieved logs suffered no significant deterioration in strength or durability.

The majority of the planted forest is in the Lower South East. The 625 mm rainfall line roughly divides the South East in two; the Lower South East, with an annual rainfall in excess of 625 mm is quite suitable for commercial forestry, but the Upper South East is not.

FOREST ADMINISTRATION

State Forests

State forests are administered by the Woods and Forests Department which is responsible for the establishment, maintenance and utilization of State Forests, including the management of forest reserves and operation of mills for processing timber produced by those forests. The Forest Reserves are organised into Districts and are under the charge of professional foresters. The Department is also the major timber producer in South Australia and operates three sawmills, three wood preservation plants and a timber engineering plant through its Commercial Group.

State Forests, South Australia (Hectares)

(needales)								
	Plar	ited during	989	Planta	tions at 30 Ju	ne 1990		
	Softwo	ods		Softw	voods			
Location	Pinus radiata	Other Pinus	Hard– woods	Pinus radiata	Other Pinus	Hard woods		
Northern Region:								
Bundaleer	_	_	_	1,337.7	19.9	353.0		
Wirrabara	-		_	1,943.0	55.8	44.0		
Other forests	-	-	-	-	-	146.6		
Total Northern	_		_	3,208.7	75.7	543.6		
Central Region:								
Mount Crawford	144.2	4.4	37.0	3,801.2	243.3	33.3		
Kuitpo	123.9	_		1,805.7	248.9	145.6		
Second Valley	43.9	_	1.0	2,193.1	162.3	12.8		
Other forests			-	701.8	21.3	43.0		
Total Central	312.0	4.4	38.0	8,501.8	675.8	234.7		
South Eastern Region:								
Penola	1,175.0	2.4	4.2	10,417.0	504.5	33.4		
Comaum	_	-	-	2,946.2	282.3	6.4		
Cave Range		_		206.9	105.2	_		
Mount Burr	836.6	6.4	-	14,492.8	829.6	125.3		
Noolook	81.0	-	-	4,590.1	4.0			
Mount Gambier	71.9		_	9,396.0	439.8	37.4		
Myora		-	-	13,142.8	433.2	19.6		
Total South Eastern	2,164.5	8.8	4.2	55,191.8	2,598.6	222.1		
Western Region:								
Wanilla	-			47.9	29.2	377.9		
Waterworks reserves	-			922.9	122.5	3.5		
Total State forests	2,476.5	13.2	42.2	67,945.1	3,501.8	1,381.8		

Source: South Australian Woods and Forests Department.

PRODUCTION

Log production is met from final felling and thinning operations, and planned forest management ensures that the amount of timber cut each year does not exceed new growth.

The logging system used is from stump direct to mill. The Woods and Forests Department also supplies logs to private processing plants in South Australia.

CSR Softwoods and SEAS Sapfor Ltd are major wood processors based in the south east of the State. CSR Softwoods operates the only particle board plants in South Australia and its three sawmills at Kuitpo, Mount Gambier and Jamestown have been progressively updated. SEAS Sapfor operates mills at Tarpeena and Kalangadoo.

Forest Log Production, South Australia^(a) (Cubic metres)

Year	Softwood
1985–86 1986–87 1987–88	531,755 521,854 709,268
1988–89 1989–90	710,487

(a) Source: South Australian Woods and Forests Department. Does not include production by the larger private forest growers.

Production of Sawn Wood, South Australia^(a)

Year	Cubic metres	Proportion of Australian total (per cent)
1985–86	226,094	7.5
1986–87	202,769	6.9
1987–88	254,453	8.1
1988–89	292,686	8.8
1989–90	228,156	7.3

(a) Source: Bureau of Agricultural Economics. Includes sawn equivalent of plywood and veneer, but excludes railway sleepers.

Total log production from State forests for Departmental sawmills and private industry deliveries includes logs for sawlog, preservation, peeler log and pulpwood. As at 30 June 1990, approximately 50,000 cubic metres were still under water storage.

EMPLOYMENT

The number of employees directly employed by the Woods and Forests Department was 1,303 at 30 June 1990, and included 573 people employed directly in milling activities.

RESEARCH AND ADVISORY SERVICES

The virtual dependence of the South Australian forestry industry on a single species necessitates continued research into the maintenance and improvement of *Pinus radiata* resources, as well as into forestry in general.

The Woods and Forests Department maintains its own research facilities and works very closely with the South Australian Regional Station of the Division of Forest Research of the Commonwealth Scientific and Industrial Research Organization (CSIRO) at Mount Gambier. Certain aspects of forestry research are also undertaken by the Soils Division of CSIRO, the Waite Agricultural Research Institute, the University of Adelaide, the Flinders University and the Department of Forestry of the Australian National University.

Joint research is being carried out into tree breeding through the Southern Tree Breeding Association whose South Australian members are the Woods and Forests Department, CSR Softwoods and SEAS Sapfor Ltd.

The Association is producing seed of improved quality to grow seedlings for planting in radiata pine forest areas.

Research activities aimed at an expansion of forestry production include the development of fertiliser use, both to stimulate growth and to bring into production land previously considered unsuitable, and the improvement of planting stock through selective breeding. Silvicultural research is concerned with the maintenance of soil fertility and with combating various diseases and pests. Permanent sample plots are maintained in departmental forests for research into various aspects of forest yield and management.

The Woods and Forests Department provides an advisory service in arboriculture and distributes, through its outlets at Murray Bridge, Belair, Cavan, Berri and Bundaleer, a wide variety of Australian trees and shrubs suitable for planting in various climatic and soil conditions.

FOREST PROTECTION

The Woods and Forests Department has developed an extensive forest protection network, including the development of specialised off-road 4-wheel drive fire fighting and support vehicles. The Department forest fire fighting units are now registered as 12 Country Fire Service brigades and form part of local groups.

The clearing of undergrowth, the maintenance of fire-breaks, the staffing of observation towers and the constant readiness of fire fighting units are all an integral part of forestry practice.

Other protective measures include spraying to prevent plant disorders, measures to control insect pests in the forest, and the eradication of the various weeds and pests which threaten young plants.

A large outbreak of the *Sirex* wood wasp occurred in forest regions throughout the South East following the summer of 1986–87. The Woods and Forests Department undertook the world's largest inoculation program to combat the destructive *Sirex*. More than 120,000 trees were inoculated with a nematode which sterilises *Sirex* eggs. It is expected that *Sirex* numbers will be reduced to insignificant levels by 1990–91.

10.3 FISHERIES

Commercial fishing is undertaken along the entire South Australian coastline. In the sheltered waters of the Gulfs and the West Coast bays, operators take prawns or various marine scale fish species, while in offshore waters southern bluefin tuna and shark are sought.

Rock lobster is taken along the more exposed parts of the coast, while abalone is dived for in most areas. A small quantity of freshwater fish is caught in the River Murray and associated lakes.

The most commercially valuable species are rock lobster and prawns, with tuna, abalone, shark and whiting also making significant contributions. The general marine scale fishery supports the greatest number of fishermen, both amateur and professional.

The total value of fisheries produce landed commercially in South Australia in 1989–90 was \$125.6 million.

There were 1,189 licensed fishermen operating in South Australian waters at 30 June 1990. The number of licence holders in each of the fisheries was; general marine 665, rock lobster 280, prawn 53, Lakes and Coorong 41, Reach (River Murray) 42, abalone 35, and miscellaneous 41. There are approximately 15 Commonwealth licensed fishermen fishing for tuna in South Australia. In addition,

there is an average of one employee fisherman engaged in the industry for each licensed fishing operation, although the number of employees on each vessel varies according to the fishing operation.

Administration

The exploitation of fish resources adjacent to South Australia is controlled by three Acts, the South Australian *Fisheries Act 1982*, the Commonwealth *Fisheries Act 1952* and the *Continental Shelf (Living and Natural Resources) Act 1968* (Cwlth). The *Fisheries Act 1982* was proclaimed and regulations gazetted in June 1984.

Under the State Act, which is administered by the Department of Fisheries, provision is made for the licensing of fishermen and the registration of boats and gear. Control of fishing activity is maintained by licensing, zoning and seasonal closures, the establishment of size limits, bag limits and closed areas, the regulation of amount and type of gear, the prohibition of the use of explosive or noxious substances in any waters and the establishment of aquatic reserves. Controls of this nature are considered necessary for the orderly and efficient use of fish resources, which are in effect 'common property' resources.

Finfish

The major marine species of finfish taken in South Australian waters are tuna, shark, Australian salmon, whiting, garfish and snapper.

	(000)			
Species	198687	1987–88	1988-89	1989–90
Marine:				
Australian salmon	606	669	422	411
Garfish	389	381	463	516
Leatherjacket	332	664	<i>(a)</i> 90	(a)77
Mullet	390	239	283	522
Mulloway	44	26	33	49
Oceanjacket	••		(b)887	(b)917
Orange roughy			(c)3,001	(c)2,888
Tommy ruff	440	499	489	340
Shark	2,123	2,494	2,564	2,258
Snook	76	72	99	104
Snapper	405	333	447	423
Tuna	10,040	9,785	4,872	4,226
Whiting (King George)	589	589	620	634
Total (incl. other)	15,877	(d)19,123	(d)16,584	(d)15,206
Freshwater:				
Golden perch (Callop)	64	63	96	139
Murray cod	8	8	8	4
Bony bream	855	998	985	1,172
European carp	346	485	437	502
Total (incl. other)	1,462	1,701	1,706	1,877
Total finfish production	17,339	20,824	18,289	17,083

Finfish : Production by Major Species, South Australia ('000 kg)

(a) Excludes Oceanjacket. (b) Previously included in Leatherjacket. (c) Not available before 1988-89. (d) Includes catches made in the new Great Australian Bight and South East Trawl Fisheries.
 Source: South Australian Department of Fisheries.

Tuna are taken in the waters west and south of Eyre Peninsula and Kangaroo Island. Occasional catches are taken beyond the continental shelf. The use of spotting aircraft has increased the

efficiency of fishing operations. Traditionally most tuna have been landed at Port Lincoln or Streaky Bay although in recent years a significant proportion of the catch has been off-loaded onto Japanese 'carrier' freezer vessels for direct shipment to the Japanese markets. For 1989–90 the tuna fishery operated with an Australian quota of 5,265 tonnes.

Shark fishing extends along the entire coastline. The main ports of landing are Port Lincoln, Robe, Thevenard/Ceduna, Victor Harbor, Port Adelaide and the south-east rock lobster ports. The two most important species, namely school and gummy sharks, are mainly taken with large mesh gill nets and, to a lesser extent, with long-lines. The Commonwealth Government has prepared a management plan for the southern shark fishery to control the total effort in the fishery.

Operators using purse-seine nets take Australian salmon in waters adjacent to the moderately exposed coastline of southern Yorke and Eyre Peninsulas, Kangaroo Island and the West Coast. A total catch quota of 1,100 tonnes for South Australia has been imposed as emigrants from the South Australian stock are an important component of the Western Australian fishery. The main species of whiting taken is King George whiting which is captured commercially in Spencer and St Vincent Gulfs, Investigator Strait and the West Coast bays. Of the other species garfish, mulloway, black bream and snapper are regarded highly as table fish. Mulloway and black bream are netted mainly in the Coorong and waters adjacent to the River Murray Mouth area.

Snapper are mainly taken by hand-line throughout State waters. In recent years the catches being made by long-lines have increased.

(\$ 000)					
Species	1985–86	1986–87	1987-88	198889	1989–90
Orange roughy Tuna	11.736 		 15.749	(<i>a</i>)7,777 10,053	(a)6,843 (c)17,584
Whiting	4,245	3,591	3,679	4,793	4,173
Snapper Garfish	1,208 1,157	1,321 1,136	1,205 1,376	1,715 1,543	1,648 1,402
Australian salmon	516 3,395	621 4.327	662 6.780	411 6,272	488 5,350
Shark	24,558	29.548	(b)38,717	(b)41.137	(b)45.511

Finfish : Gross Value of Production by Major Species, South Australia (\$'000)

(a) Not available before 1988-89. (b) Includes catches made in the new Great Australian Bight and South East Trawl Fisheries. (c) Price includes a component for value added. Source: South Australian Department of Fisheries.

The River Murray, Lakes area and Coorong are the only commercial sources of fresh water fish in the State because of the general lack of permanent streams and lakes. The River Murray has been sectioned into 'reaches' and 'reserves' for fishing purposes and each commercial river fisherman is issued with a permit to fish a separate reach.

Crustaceans

Prawn trawling is undertaken in Spencer and St Vincent Gulfs, Investigator Strait and on the West Coast of the State. Management of the prawn fisheries has been greatly enhanced by the adoption of permanent and seasonal closures designed to protect small and reproducing prawns. This in turn, maximises the value of the catch by directing fishing to periods when prawns are larger and of higher quality.

Particulars		1985-86	1986-87	1987–88	1988–89	198990
Estimated gross weight Value	'000 kg \$'000	1,908 17,925	1,393 16,077	1,862 20,778	1,984 23,026	1,970 22,747

Prawn Production, South Australia

Source: South Australian Department of Fisheries.

Pots by which southern rock lobster are taken are positioned from the shore to the edge of the continental shelf. The south–east coast between Kingston and the Victorian border is the main fishing area. Good catches are also taken from grounds around Kangaroo Island, near Althorpe Islands and Port Lincoln, and along the West Coast.

Particulars		1985–86	1986–87	1987–88	1988–89	1989–90
Estimated gross weight	'000 kg	2,206	2,208	2,468	2,275	2,525
Value	\$'000	24,298	32,049	37,979	26,891	36,488

Rock Lobster Production, South Australia

Source: South Australian Department of Fisheries.

To prevent over exploitation, almost all South Australian fisheries are 'limited entry' fisheries with constraints being placed on the number and size of vessels that may fish and the type or number of units of gear that may be used.

Although prawns and rock lobsters are the principal species of crustaceans fished in South Australia, there has been a recent increase in commercial fishing for blue crabs and sand crabs.

Molluscs

Abalone is by far the most important mollusc taken in South Australia and is found in greatest numbers at depths of 12 to 30 metres on the extensive reef substrata off the shores of western Eyre Peninsula. Smaller numbers are taken in Spencer Gulf, around Kangaroo Island and off the south–east coast. The two species exploited are greenlip and blacklip.

The abalone fishery is also subject to licence limitation with each diver required to have an authority to take abalone on his commercial fishing licence.

Abalone Production, South Australia

Particulars		1985–86	1986–87	1987–88	1988–89	1989–90
Gross (in shell) weight	'000 kg	877	911	1,037	973	959
Value	\$'000	7,507	10,953	13,219	14,542	16,693

Source: South Australian Department of Fisheries.

Other molluscs taken in South Australian waters include squid (valued at \$835,000 in 1989–90), octopus (\$381,000), and scallops valued at \$243,627.

MARKETING AND PROCESSING

Marketing and processing arrangements vary according to the species. Traditionally, most of the tuna landed in South Australia is canned (not necessarily in South Australia) for domestic consumption. With the introduction of Individual Transferable Quotas and subsequent restructuring of the industry, the higher valued *sashimi* (raw fish) market in Japan is being examined. Southern rock lobster are tailed and frozen for export at most of the main ports, but some are cooked for local consumption. Some prawns are cooked and sold locally but most are frozen and exported. Abalone are either canned or frozen for export. Sharks are gutted and headed at sea and are frozen at the port of landing for interstate markets. Other fish are generally iced for dispatch to the Adelaide market or are scaled, filleted and frozen for general distribution. A proportion of the prime species landed in South Australia are sold for Australian east coast markets.

RESEARCH

Continuing research is important for effective fisheries management. The State Fisheries Department conducts rock lobster, prawn, yabbie, blue crab, Australian salmon, abalone, freshwater fish, squid, whiting, snapper and oyster research programs including tagging, stock sampling, and market measuring. The Department also undertakes research into aspects of its fisheries management programs.

Conservation

The State Department of Fisheries has pioneered, in Australia, the concept of marine national parks and has created thirteen aquatic reserves with a total area of 14,971 hectares. Seal colonies, mangrove communities and areas of scientific and educational interest have been protected. Mangrove communities and allied samphire flats have received particular attention because of their recognised contribution to the productivity of the near–shore marine environment. All mangroves in South Australia are fully protected.

MANUFACTURING

MANUFACTURING INDUSTRY STATISTICS

For the year ended June 1969, the Censuses of Manufacturing and Electricity and Gas Establishments were conducted for the first time on an integrated basis with Censuses of Mining, Retail Trade and Selected Services, and Wholesale Trade. As well as this change in the method of obtaining information on economic activities, different criteria were used to define manufacturing and this resulted in a significant fall in the number of establishments. In particular, service establishments such as dry cleaners and motor repair workshops were no longer classified as manufacturing. In addition to the changes in industry classification, information is now collected for all activities (including such things as installation work or wholesaling) undertaken by manufacturing establishments. Thus, manufacturing industry statistics collected for the 1968–69 Census and subsequent censuses are not comparable with figures from previous censuses. A more detailed explanation of these changes was included on pages 440–4 of the *South Australian Year Book 1972*.

Also, from 1974–75, detailed statistics have not been collected from single establishment enterprises employing fewer than four persons as their contribution to statistical aggregates other than the number of establishments is only marginal. In 1988–89 there were 913 establishments employing fewer than four persons.

Prior to the 1987–88 Census, full–scale Manufacturing Censuses were conducted for each year with the exception of 1970–71 and 1985–86. In future, these full–scale censuses will be conducted on a triennial basis, with small–scale censuses being conducted in each of the intervening years. For these small–scale censuses, businesses provide details relating to employment at end of June, wages and salaries paid and turnover.

STRUCTURE AND LOCATION OF SECONDARY INDUSTRY

To a considerable extent, industrialisation since the 1939–45 War, has evolved around three major industrial groups. The motor vehicle, the electrical goods and the household appliance industries together with their peripheral suppliers of components and services, have accounted for much of the post–war expansion. These industries are located in, or near Adelaide. In fact the tendency for manufacturing industries, particularly those supplying consumer goods, to congregate near their market, has resulted in a heavy concentration of South Australian secondary industries in or near Adelaide. The following tables show this concentration of manufacturing activity in the Adelaide Statistical Division (ASD).

Manufacturing Establishments : Summary of Operations Adelaide Statistical Division and South Australia, 1988–89

(Note: Excludes single establishment enterprises with fewer than four persons employed.)

Item	Unit	Adelaide Statistical Division	South Australia	ASD as percentage of SA
Establishments at 30 June Employment at 30 June:	Number	2,034	2,542	80
Males	Number	61,237	77,289	79
Females	Number	21,196	25,666	83
Wages and salaries	\$'000	1,824,474	2,312,392	79
Turnover	\$'000	9,975,063	13,066,741	76

Statistical Division	Establish– ments at 30 June	Employ ment at 30 June	Wages and salaries	Turnover
	number	number	\$'000	\$'000
Adelaide	2,034	82,433	1,824,474	9,975,063
Outer Adelaide	155	4,202	90,596	654,910
Yorke and Lower North	49	635	9,200	61,043
Murray Lands	102	2,982	61,189	515,769
South East	95	5,225	117,927	591,108
Еуге	39	692	13,922	105,719
Northern	68	6,786	195,084	1,163,128
Total State	2,542	102,955	2,312,392	13,066,741

Manufacturing Establishments : Summary of Manufacturing Operations by Statistical Division, South Australia, 1988-89 (Note: Excludes single establishment enterprises with fewer than four persons employed.)

Generally, industrial plants outside the Adelaide Statistical Division are located near the sources of supply of raw materials. These include the sawmills and paper pulp industries of the South East, the fruit processing plants of the Riverland, the wineries and distilleries of the Barossa Valley and the Riverland and various dairy produce, meat slaughtering, fish processing and cement manufacturing plants. The two most important manufacturing undertakings beyond the vicinity of Adelaide are the iron and steel complex at Whyalla and the silver-lead-zinc smelters at Port Pirie. The sites of these undertakings together with the power station at Port Augusta are related to the location of mineral resources.

There are exceptions, where industrial plants are not located near their sources of raw materials. These include an agricultural machinery plant at Mannum, a woollen mill at Lobethal, clothing production at Mount Gambier and heavy engineering at Whyalla. Wallaroo and Port Lincoln, being central to their markets, are the sites of chemical fertiliser production and the latter also is the location of several seafood processing plants.

A summary of manufacturing operations by industry subdivision within the Adelaide Statistical Division is detailed below and the distribution of activity between this Division and the Rest of the State can be seen by comparing this and the subsequent table.

Industry Subdivision	Establish– ments at 30 June	Employ– ment at 30 June	Wages and salaries	Turnover
	number	number	\$'000	\$'000
Food, beverages and tobacco	189	9,751	212,458	1,301,628
Textiles	41	1,988	47,682	345,057
Clothing and footwear	103	3,901	68,674	266,028
Wood, wood products and furniture	335	5,271	93,231	409,265
Paper, paper products, printing				
and publishing	192	6,133	149,429	631,602
Chemical, petroleum and coal products	41	2,084	57,142	459,843
Non-metallic mineral products	91	3,388	83,604	475,938
Basic metal products	42	2,372	53,701	399,009
Fabricated metal products	346	7,883	161,357	767,512
Transport equipment	126	18,003	428,384	2,849,903
Other machinery and equipment	329	14,497	317,300	1,342,663
Miscellaneous manufacturing	199	7,162	151,513	726,616
Total manufacturing	2,034	82,433	1,824,474	9,975,063

Manufacturing Establishments : Summary of Operations by Industry Subdivision, Adelaide Statistical Division, 1988-89 Evoludos ingle establishment enterprises with fewer than four n

The number of manufacturing establishments in South Australia employing four or more persons increased from 2,505 in 1987–88 to 2,542 in 1988–89, an increase of 1.5 per cent. Employment at 30 June 1989 was 102,955, an increase of 8.2 per cent from the 30 June 1988 figure of 95,168. The industry groups transport equipment, basic metal products, and other machinery and equipment recorded the largest percentage increases in employment.

•	-			-
Industry Subdivision	Establish– ments at 30 June	Employ– ment at 30 June	Wages and salaries	Turnover
	number	number	\$'000	\$'000
Food, beverages and tobacco	381	16,307	348,175	2,471,218
Textiles	48	2,493	54,975	377,636
Clothing and footwear	106	4,152	73,258	272,722
Wood, wood products and furniture	394	7,977	152,224	725,457
Paper, paper products, printing		·	105.004	600.001
and publishing	239	7,841	197,294	830,921
Chemical, petroleum and coal products	50	2,333	62,447	514,416
Non-metallic mineral products	126	3,890	95,758	548,566
Basic metal products	48	7,675	218,263	1,439,724
Fabricated metal products	419	8,883	180,592	852,643
Transport equipment	148	18,752	443,629	2,883,852
Other machinery and equipment	372	15,344	331,416	1,409,167
Miscellaneous manufacturing	211	7,308	154,362	740,418
Total manufacturing	2,542	102,955	2,312,392	13,066,741

Manufacturing Establishments : Summary of Operations by Industry Subdivision, South Australia, 1988–89

(Note: Excludes single establishment enterprises with fewer than four persons employed.)

The importance of manufacturing industry in South Australia relative to Australia as a whole can be gauged from the following comparison.

Manufacturing	Establishments : Summary of Operations	
South	Australia and Australia, 1988–89	

(Note: Excludes single establishment enterprises with fewer than four persons employed.)

Item	Unit	South Australia	Australia	South Australia as a percentage of Australia
Establishments at 30 June	Number	2,542	31,249	8.1
Employment at 30 June:				
Males	Number	77,289	781,372	9.9
Females	Number	25,666	291,262	8.8
Wages and salaries	\$m	2,312.4	25,599.1	9.0
Turnover	\$m	13,066.7	151,856.6	8.6

Although there were 2,542 establishments operating at 30 June 1989 only 193 or 7.6 per cent had an employment of 100 persons or more while 1,762 establishments, or 69.3 per cent of the total, employed less than 20 persons. The 26 largest establishments employed 30,468 persons or 29.6 per cent of the total.

In the following table manufacturing establishments are grouped according to the number of persons employed.

Manufacturing Establishments : Selected Variables by Size of Establishment South Australia, 30 June 1989

Size of establishment (average employment)	Establish ments	Persons employed	Wages and salaries	Turnover
	number	number	\$`000	\$'000
Fewer than 20	1,762	14,574	241,034	1,230,947
20 but fewer than 50	437	13,474	269,943	1,587,856
50 but fewer than 100	150	10,361	220,988	1,225,675
100 but fewer than 200	105	14,609	326,444	1,834,792
200 but fewer than 500	62	19,469	477,292	3,014,458
500 or more	26	30,468	764,508	4,105,145

(Note: Excludes single establishment enterprises with fewer than four persons employed.)

Details of persons employed and distribution of employment in manufacturing establishments for 1988–89 are given in the following tables. Females constituted 24.9 per cent of the total employment, but industries traditionally associated with female employment had a much higher component; textiles, clothing and footwear industries, in particular, employ a high proportion of females.

Manufacturing Establishments : Employment 30 June 1989, South Australia

(Note: Excludes single establishment enterprises with fewer than four persons employed.)

Industry Subdivision	Males	Females	Persons	Percentage of total employment
Food, beverages and tobacco	11,127	5,180	16,307	15.8
Textiles	1,345	1,148	2,493	2.4
Clothing and footwear	1,149	3,003	4,152	4.0
Wood, wood products and furniture	6,828	1,149	7,977	7.7
Paper, paper products, printing and				
publishing	5,424	2,417	7,841	7.6
Chemical, petroleum and coal products	1,870	463	2,333	2.3
Non-metallic mineral products	3,473	417	3,890	3.8
Basic metal products	7,113	562	7,675	7.5
Fabricated metal products	7,262	1,621	8,883	8.6
Transport equipment	15,762	2,990	18,752	18.2
Other machinery and equipment	11,307	4,037	15,344	14.9
Miscellaneous manufacturing	4,629	2,679	7,308	7.1
Total manufacturing	77,289	25,666	102,955	100.0

Manufacturing Establishments : Employment 30 June 1989 by Type of Employment, South Australia

(Note: Excludes single establishment enterprises with fewer than four persons employed.)

Working

Industry SubdivisionproprietorsEmployeesTotal

Food, beverages and tobacco	205	16,102	16,307
Textiles	19	2,474	2,493
Clothing and footwear	34	4,118	4,152
Wood, wood products and furniture	249	7,728	7,977
Paper, paper products, printing and publishing	55	7,786	7,841
Chemical, petroleum and coal products	5	2,328	2,333
Non-metallic mineral products	32	3,858	3,890
Basic metal products	17	7,658	7,675
Fabricated metal products	180	8,703	8,883
Transport equipment	26	18,726	18,752
Other machinery and equipment	96	15,248	15,344
Miscellaneous manufacturing	64	7,244	7,308
Total manufacturing	982	101,973	102,955

INDIVIDUAL INDUSTRIES

In this section details are given of major South Australian secondary industries. However, in order to maintain confidentiality of details for individual businesses, statistics relating to a number of important industries are not published. The classification used is based on the 1983 edition of the Australian Standard Industrial Classification (ASIC).

Meat and Abattoir By-products

Most of the abattoirs in South Australia are located in country areas. Details of country butchers who slaughter livestock mainly for sale in their own retail shops are not included in the following table.

	Establis	iments					
Year	Adelaide Statistical Division	Other	Employment at 30 June	Wages and salaries	Purchases, etc.	Turnover	Value added
	number	number	number	\$'000	\$'000	\$'000	\$'000
1984-85	13	29	2,584	42,156	238,178	302,776	64,998
1986–87	9	27	2,764	51,328	224,777	300,384	78,999
1987-88	13	25	2,565	53,397	n.a.	331,768	n.a.
1988-89		40	2,759	55,443	n.a.	382,581	n.a.

Meat and Abattoir By–products, South Australia

Wine and Brandy

South Australia is the leading State in wine and brandy production. For 1988–89, 40 per cent of Australian establishments classified to this industry were located in this State and their contribution to national totals was 48 per cent of employment, 54 per cent of wages and salaries and 54 per cent of turnover.

Wine and Brandy, South Australia

(Note: Excludes single establishment enterprises with fewer than four persons employed.)

	Establis	hments					
Year	Adelaide Statistical Division	Other	Employment at 30 June	Wages and salaries	Purchases, etc.	Turnover	Value added
	number	number	number	\$'000	\$'000	\$'000	\$'000
1984–85 1986–87	24 25	43 50	2,475 2,659	39,306 50.857	195,026 257,853	281,129 371,499	119,491 135,372
1987–88 1988–89	25	51 83	2,575 2,696	54,213 60,663	n.a. n.a.	425,476 508,628	n.a. n.a.

Wood and Wood Products

The major activities in this sector of manufacturing are log sawmilling, resawn and dressed timber and joinery and wooden structural fittings industries.

Wood and Wood Products, South Australia

	Establish	nments					
Year	Adelaide Statistical Division	Other	Employment at 30 June	Wages and salaries	Purchases, etc.	Turnover	Value added
	number	number	number	\$'000	\$'000	\$'000	\$'000
1984–85 1986–87 1987–88 1988–89	126 137 144 166	39 36 36 42	4,694 4,411 4,068 4,863	79,586 80,451 79,830 100,607	221,720 233,959 n.a. n.a.	373,266 382,079 396,300 504,477	154,460 159,515 n.a. n.a.

(Note: Excludes single establishment enterprises with fewer than four persons employed.)

Printing and Allied Industries

There are two large establishments producing daily newspapers in Adelaide. Newspaper printing offices are also located in most large towns, and a number of these produce newspapers for more than one locality. Particulars of general printing establishments, including the activities of the Stateprint Division of the Department of State Services, are also incorporated in the following table.

Printing and Allied Industries, South Australia

(Note: Excludes single establishment enterprises with fewer than four persons employed.)

	Establish	hments					
Year	Adelaide Statistical Division	Other	Employment at 30 June	Wages and salaries	Purchases, etc.	Turnover	Value added
·	number	number	number	\$'000	\$'000	\$'000	\$'000
1984–85 1986–87	161 157	37 40	5,856 5,692	94,099 120,950	142,885 181,066	356,291 421,005	219,276 243,509
1987-88	168	40	5,547	118,643	n.a.	481,110	n.a.
1988-89	178	45	5,893	138,697	n.a.	538,752	n.a.

Cement and Concrete Products

Only one firm produces cement in South Australia, its two manufacturing plants being at Birkenhead and Angaston. The Angaston plant, based on the limestone deposits, is an example of a manufacturing location being established near the source of the raw material.

Cement and Concrete Products, South Australia

(Note: Excludes single establishment enterprises with fewer than four persons employed.)

	Establish	iments					
Year	Adelaide Statistical Division	Other	Employment at 30 June	Wages and salaries	Purchases, etc.	Turnover	Value added
	number	number	number	\$'000	\$'000	\$'000	\$'000
1984-85	54	40	1,830	35,724	156,286	251.917	96,966
1986-87	59	35	1,990	50,157	158,439	285,129	129,319
1987-88	61	40	2,033	50,486	n.a.	302,834	n.a.
1988-89	48	24	2,153	53,522	n.a.	342,656	n.a.

Basic Iron and Steel

In 1941 a blast furnace was installed at Whyalla to utilise iron ore from the Middleback Ranges. This ore is transported by rail a distance of fifty–five kilometres to Whyalla. Before 1965 Whyalla was the major source of Australia's foundry iron but this changed in 1965 when the Basic Oxygen Steelmaking plant began producing steel. The main items of production are structural steel sections

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(such as girders and beams) and rails. In 1988–89, the 30 establishments in South Australia, classified to this industry group, reported total employment at 30 June 1989 of 5,289; wages and salaries \$151,022,000 and turnover \$781,313,000.

Transport Equipment (Motor Vehicles and Parts)

The largest single industry in South Australia and a major contributor to industrial growth since 1945 is the motor vehicle industry. However, as there are only a few firms engaged in motor vehicle production, confidentiality reasons prevent publication of detailed figures.

In 1988–89 establishments mainly engaged in the manufacture of motor vehicles and parts contributed 16.0 per cent of South Australia's total manufacturing employment. It should be noted that this figure understates the importance of the motor vehicle industry to South Australia as some firms involved in the manufacture of components and accessories are classified to other industries. (For example, firms making rubber components for the motor industry are considered to be in the rubber industry.)

	Establish	iments					
Year	Adelaide Statistical Division	Other	Employment at 30 June	Wages and salaries	Purchases, etc.	Turnover	Value added
	number	number	number	\$'000	\$'000	\$'000	\$'000
1984-85	86	6	14,129	272,341	894,531	1,321,531	439,513
1986-87	93	3	13,275	296,463	1,092,242	1,653,310	549,164
1987-88	95	7	13,627	322,621	n.a.	1,807,932	n.a.
1988-89	100	7	16,540	391,900	п.а.	2,371,118	n.a.

Transport Equipment (Motor Vehicles and Parts), South Australia

Appliances and Electrical Equipment

For many years South Australia has been one of the leading States in the production of the larger household appliances, including refrigerators, washing machines, cooking stoves and ranges. These items constitute a significant part of the total activity shown in the next table. Also represented are manufacturers of radio and television components, water-heating systems, batteries and other electrical machinery and equipment.

This group of industries is the second most important in the State and in 1988–89 accounted for 8.9 per cent of total manufacturing employment in South Australia.

Appliances and Electrical Equipment, South Australia
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(Note: Excludes single establishment enterprises with fewer than four persons employed.)

	Establish	iments					
Year	Adelaide Statistical Division	Other	Employment at 30 June	Wages and salaries	Purchases, etc.	Turnover	Value added
	number	number	number	\$'000	\$'000	\$'000	\$'000
1984–85 1986–87 1987–88 1988–89	83 85 94 109	3 3 2 4	7,358 7,687 8,269 9,215	126,305 143,082 163,014 195,277	253,604 340,254 n.a. n.a.	486,571 639,024 742,325 897,868	231,223 305,488 n.a. n.a.

Further References

Additional information may be found in the following ABS publications:

- 8202.0 Manufacturing Establishments: Summary of Operations by Industry Class, Australia
- 8209.4 Manufacturing Establishments: Summary of Operations by Industry, South Australia

8203.0 Manufacturing Establishments: Details of Operations by Industry Class, Australia

- 8204.0 Manufacturing Establishments: Selected Items of Data Classified by Industry and Employment Size, Australia
- 8303.0 Manufacturing Commodities: Principal Articles Produced, Australia

Chapter 12

MINING AND ENERGY

12.1 MINING

South Australia has a well developed mineral industry and in recent years crude oil and natural gas have surpassed coal and iron ore as the major products. The State also has important resources of industrial minerals which make up a significant proportion of the total annual value of mineral production.

MINING ADMINISTRATION

The *Mining Act 1971* reserves all minerals to the Crown and regulates and controls all mining operations in South Australia.

The state and conditions of the mine, machinery, ventilation, and all other matters relating to the safety, health and well-being of the employees and general public are regulated by the *Mines and Works Inspection Act 1920*. The *Petroleum Act 1940*, *Petroleum (Submerged Lands) Act 1982*, Cooper Basin (Ratification) Act 1975, Stony Point (Liquids Project) Ratification Act 1981 and the *Petroleum Shortages Act 1980* provide for the control of petroleum exploration and the production, conservation and distribution of petroleum by pipeline. The administration of these Acts is the responsibility of the Minister of Mines and Energy and the Director–General, Department of Mines and Energy.

MINING CLAIMS, LEASES AND LICENCES

Legislation

The granting of leases and licences and the pegging of new claims is governed by the *Mining Act* 1971. A total of 280 private mines was current at 30 June 1990. Mineral royalties received by the Department of Mines and Energy during 1989–90 amounted to \$42,940,000.

The following table shows tenements held under the *Mining Act 1971* and the *Petroleum Act 1940* for the last six years.

Tenements Held Under Mining and Petroleum Acts, South Australia

			At 30) June		
Particulars	1985	1986	1987	1988	1989	1990
Mineral claims	122	91	163	103	133	175
Precious stones claims	927	1,130	1,771	2,170	2,285	2,556
Leases	1,606	1,657	1,607	1,625	1,665	1,568
Exploration licences	175	163	150	129	138	133
Petroleum exploration and production						
licences and permits	39	49	50	49	52	61

Minerals Resumed

The mineral rights on private land were resumed by the Crown in July 1972 so that all minerals are the property of the Crown.

A royalty of 2.5 per cent (5 per cent for extractive minerals) of the value of the minerals, realised upon their sale, is payable to the Minister of Mines and Energy on all minerals (except precious stones) recovered and sold or used for commercial purposes. No royalty is payable on precious stones.

Extractive Minerals

Extractive minerals are defined as sand, gravel, stone, shell, shale or clay but this does not include any such minerals that are mined for a prescribed purpose, nor fire–clay, bentonite or kaolin.

The royalties collected from the mining of extractive minerals are paid into the Extractive Areas Rehabilitation Fund to be used in rehabilitating land disturbed by mining operations. The Fund may also be used for research into methods of mining engineering and practice with a view to reducing environmental damage or impairment.

General Conditions

A current miners right or, in the case of precious stones, a precious stones prospecting permit must be held by every prospector to authorise the pegging of the appropriate class of claim.

At least three weeks notice of entry for prospecting or mining purposes must be given to the landholder if the land is freehold or held on perpetual lease. Three weeks notice must also be given to any landholder before 'declared equipment' can be used on his land. In either case the landholder may lodge an objection with the Warden's Court.

A claim (other than a precious stones claim) has a maximum term of twelve months, is not transferable and must be converted to a lease before minerals can be removed for sale or used for commercial purposes.

Exploration licences have a maximum term of five years and a maximum area of 2,500 square kilometres and are subject to the terms agreed. Twenty–eight days notice must be given in the *South Australian Government Gazette* before an exploration licence is granted.

MINERAL INDUSTRY STATISTICS

A mining establishment is one predominantly engaged in an activity specified in Division B of the Australian Standard Industrial Classification (ASIC). The ASIC defines 'mining' as including the extraction of minerals occurring naturally as solids such as coal and ores, liquids such as crude petroleum, or gases such as natural gas.

Statistics on the operations of establishments in Division B have been collected each year in the mining census, which since 1968–69 has been conducted on an integrated basis with other economic censuses. However, the 1988–89 Census of Mining was restricted to the metallic minerals, coal, oil and gas industries. A full census including statistics on construction materials and other non–metallic industries is being conducted for the 1989–90 financial year.

Mining Establishments : Summary of Operations by Industry Subdivision South Australia, 1988–89

Industry Subdivision	Number of establishments operating at 30 June 1989	Persons employed (a)	Wages and salaries	Turnover	Purchases, transfers in and selected expenses	Value added
Metallic minerals	3)		\$ million	\$ million	\$ million	\$ million
Coal Crude petroleum including natural gas	3) 1) 1)	2,437	87.8	952.1	167.4	· 801,2

(a) At 30 June 1989; includes working proprietors.

MINERAL COMMODITY STATISTICS

Mineral commodity statistics published in the *South Australian Year Book* are those recorded by the Director–General of Mines and Energy.

		Q	uantity	Va	ılue(b)
Mineral	Unit of quantity	1988–89	1989–90(c)	1988–89	1989–90(c)
				\$'000	\$'000
Metallic:					
Copper	'000 tonnes	17	49	57,683	147,495
Iron ore (c)	'000 tonnes	2,346	2,439	21,117	21,953
Uranium oxide	tonnes	645	642	50,533	40,312
Other	••			1,630	12,026
Non-metallic:					,
Barite	'000 tonnes	10	12	438	671
Coal (d)	'000 tonnes	2.675	2,922	66,847	66,746
Dolomite	'000 tonnes	944	991	4,447	5.711
Gypsum	'000 tonnes	1,399	1,400	3,970	3,992
Kaolin	'000 tonnes	-,7	6	579	533
Limestone	'000 tonnes	1,921	1,889	9,497	12,582
Opal (e)		1,241	1,000	61,700	51,996
Salt	 '000 tonnes	857	1.006	3.910	4,821
Talc	'000 tonnes	14	1,000	986	1.031
Other			14	1,808	1,878
Construction material, quarrying	 '000 tonnes	12,108	 10,498	68,715	68,938
Natural sand products	'000 tonnes	3.192	3,225	18,893	20,724
	'000 tonnes	721	895	2,255	2,455
Natural clay products	Millions of m ³	4.827	4,891	321,312	349,241
Natural gas(f)	Kilolitres		647,789	92,449	
Condensates		752,287			95,783
Crude oil	Kilolitres	1,650,657	1,492,009	206,411	224,318
Liquefied petroleum gas	'000 tonnes	563	518	71,576	81,894
Total				1,066,756	1,215,101

Mining and Quarrying Production, South Australia^(a)

(a) Quantities disposed of as recorded by the Department of Mines and Energy. (b) Ex-mine site. (c) Preliminary figures. (d) Up to December 1988, value of coal production was provided by ETSA. (e) Estimated. (f) Value of gas ex-Moomba plant includes value of CO2 from Caroline No. 1 well and also value of ethane.

Iron Ore

Iron ore is mined in the Middleback Ranges on upper Eyre Peninsula. These ranges lie to the west of Whyalla, a coastal port with a steelworks, and extend discontinuously from Iron Knob in the north to Iron Duke nearly 65 kilometres to the south. In excess of 184 million tonnes of ore have been mined since 1900. Production for 1989 was 2.5 million tonnes. Following development of the South Middleback Ranges, the Iron Duke mine will replace the Iron Baron operation 30 kilometres to the north. Production commenced at Iron Duke early in 1990.

Copper

Copper mining was very important in the early days of the settlement of South Australia. The rich discoveries at Kapunda in 1842, Burra in 1845, and Wallaroo–Moonta in 1859–60 came at a time when the colony's development was stagnating and severe financial difficulties were being encountered.

Copper production fluctuated over the years but renewed interest in copper during the 1960s led to the discovery of new, but lower grade, ore bodies at the old copper fields of Kanmantoo and Mount Gunson, and to the working of remnant low–grade ore at Burra. Cupric oxide is produced at Burra for the manufacture of timber preservatives, catalysts, friction materials for brakes and clutches, copper chemicals and as a trace element in agriculture. Raw materials are now being derived from

Mount Gunson by heap leaching and cementation of remnant oxidised copper ores and 4,316 tonnes of copper (as copper cement) were produced during 1989.

The Olympic Dam deposit at Roxby Downs, which has an area of twenty square kilometres, has indicated ore reserves of at least 2,000 million tonnes averaging 1.6 per cent copper, 0.6 kg/tonne uranium oxide, 0.6 gm/tonne gold and 4gm/tonne silver. Detailed infill drilling has indicated a higher grade zone of ore reserves. The joint venture partners (Western Mining Corporation Ltd and the BP Group) commenced production of this \$850 million project in mid 1988. During 1989, 28,500 tonnes of copper, 520 tonnes of uranium oxide and 10,300 ounces of gold were produced. Expansion beyond initial project levels is dependent on future market requirements for copper and uranium

Gypsum

The largest part of Australian reserves of gypsum are located in South Australia. The deposits have in general formed in coastal basins, the largest of these occurring at Lake MacDonnell. Other deposits are found at Streaky Bay, Lake Fowler, Cooke Plains and the Morgan–Blanchetown area.

These deposits have been worked extensively over the past fifty years to provide the bulk of Australasian requirements for the plaster industry and for Portland cement manufacture. Approximately 1.5 million tonnes were produced in 1989.

Salt

Conditions in South Australia are ideal for the production of salt from sea water by solar evaporation. Large solar salt works are located at Dry Creek (near Adelaide), Port Price (Gulf St Vincent), and Whyalla. Salt is also harvested from several saline lakes, in particular Lake Bumbunga and Lake MacDonnell. Production for 1989 was approximately 946,000 tonnes.

Opal

The opal fields at Coober Pedy, Mintabie and Andamooka supply most of the world's precious opal. The estimated value of raw opal production in South Australia was \$55.6 million in 1989. Most of this is exported to Hong Kong, Japan, USA and Germany.

Coal

Several large coalfields have been discovered in South Australia but only the Leigh Creek coalfield operated by the Electricity Trust of South Australia is being mined. To date more than 44 million tonnes of coal has been delivered to the power stations at Port Augusta. Production was approximately 2.9 million tonnes during 1989.

Oil and Natural Gas

The \$1.5 billion Cooper Basin Liquids Project, completed in September 1984, is the largest onshore petroleum development in Australia.

Production during 1989 amounted to 1.6 million kilolitres of crude oil, 695,000 kilolitres of condensate, 598,000 tonnes of liquefied petroleum gas and approximately 4,900 million cubic metres of natural gas. Thus, the South Australian portion of the Cooper Basin contributed a significant proportion of the nation's crude oil and condensate production, LPG output and natural gas requirements.

Limestone and Dolomite

Principal deposits include dolomite at Ardrossan for the steel industry; limestone at Penrice, near Angaston, for the chemical and cement industries; and limestone at Klein Point and Rapid Bay for the cement industry. During 1989 approximate production of limestone was 1.9 million tonnes and of dolomite 1.0 million tonnes.

MINERAL DEVELOPMENTS

In the South Australian portion of the Cooper/Eromanga basins petroleum province, located in the far north–east of the State, eighty–nine oil and gas fields were on production at the beginning of 1990, out of a total of 158 fields discovered in the area since petroleum was first found at Gidgealpa Field in 1962. Most fields now onstream have preliminary fluid treatment facilities plus a network of separate gas and oil flowlines and trunklines laid to bring all production in to the central Moomba treatment plant for final processing.

At Moomba, the incoming raw gas stream initially has water and carbon dioxide removed. Next, the liquids recovery plant extracts the valuable condensate and LPG from the gas stream. The resultant sales gas is then pipelined to Sydney and Adelaide markets. The separated gas liquids plus the stabilised crude oil from oil fields are finally put into the liquids pipeline leading to the fractionation plant at Port Bonython on Spencers Gulf.

SANTOS Ltd is the operator and principal partner in the production of Cooper Basin oil and gas, and acts as marketing agent for all Port Bonython crude oil. The other producers are Delhi Petroleum Pty Ltd, Bridge Oil Ltd, SAGASCO Resources Ltd, Crusader Ltd, Basin Oil NL, Comada Energy Ltd, Hartogen Energy Ltd and Vamgas Ltd (a subsidiary of SANTOS Ltd).

By the beginning of 1990 more than \$5.2 billion in petroleum sales revenue had been paid to the Cooper Basin producers since gas production commenced in 1969. Royalty payments to the South Australian Government from petroleum sales over the same period exceeded \$238 million.

Natural gas has been discovered at Katnook and Ladbroke Grove approximately 10 kilometres south of Penola in the Otway Basin. Negotiations are underway between the Pipelines Authority of South Australia (PASA) and the licensees of Petroleum Exploration Licence No. 32 to supply a local South East gas market for at least 15 years. It is anticipated that a contract will be signed to supply gas to PASA during 1990. Gas production is scheduled to commence in early 1991.

Developments continued at the Olympic Dam mine with the commissioning of the backfill plant and the filling of three completed stopes. The metallurgical plant operated at the planned rate during the year with the first specification silver being produced in the June quarter 1990.

Mining of the newly developed Iron Duke deposit in the Middleback Ranges by BHP has commenced with a scheduled production of 1.5 million tonnes annually.

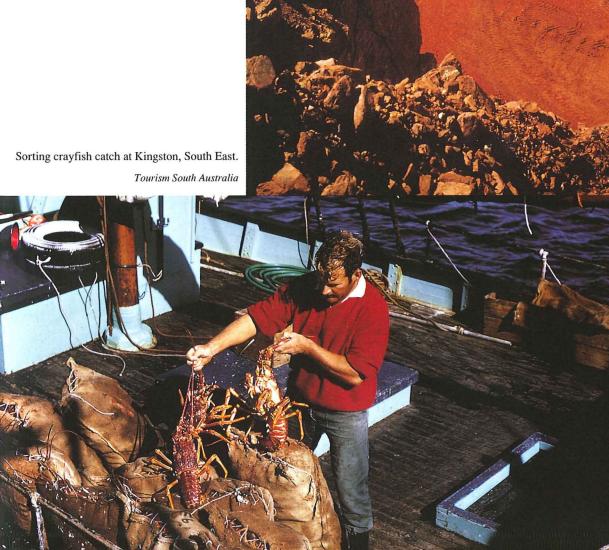
As future power generation in South Australia will require an increase in the use of coal, deposits at Lochiel, Sedan, Weedina, Kingston and Wintinna continue to be evaluated.

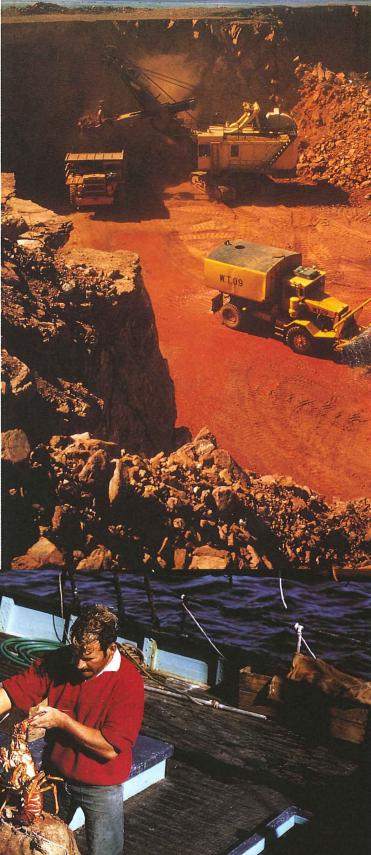
Type of mineral	1985–86	1986-87	198788	198889	1989–90(a)
Copper, lead, zinc, silver, nickel,					
cobalt	3.7	2.9	7.9	4.6	5.9
Gold	4.2	2.2	5.0	5.4	1.2
Iron ore	n.p.	n.p.	n.p.	0.2	0.2
Mineral sands	n.p.	0.7	0.5	n.p.	1.3
Tin, tungsten, scheelite, wolfram	n.p.		n.p.	n.p.	n.p.
Uranium	37.2	0.9	2.0	1.2	n.p.
Other metallic (b)	n.p.	n.p.	n.p.	0.1	0.3
Coal	0.7	1.2	1.2	0.7	0.1
Construction materials (c)		n.p.	n.p.	-	-
Diamonds	2.2	1.5	0.9	2.4	2.4
Other non-metallic (d)	0.3	n.p.	0.6	0.8	0.6
Total	48.9	11.0	18.9	16.6	13.0

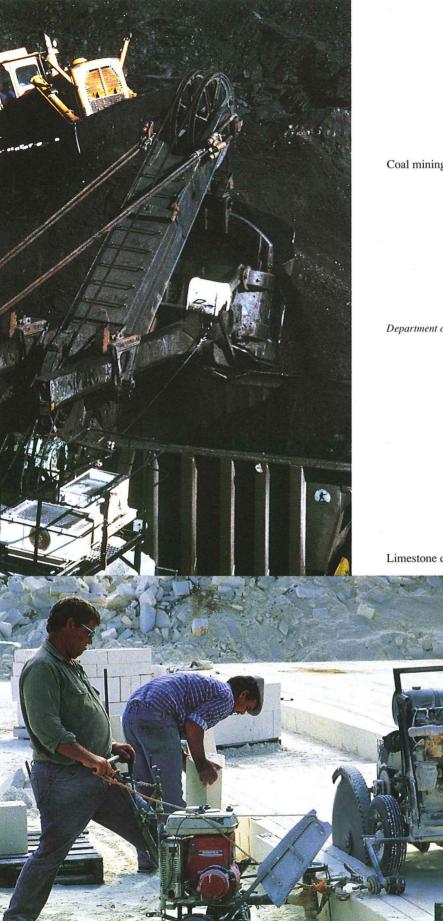
Private Mineral Exploration (Other than Petroleum) Expenditure by Type of Mineral Sought, South Australia (\$ million)

(a) Excludes details of mineral explorers reporting less than \$5,000 per quarter. (b) Includes precious metals other than gold and silver. (c) Comprises aggregate, sand, gravel and all stone used for construction purposes. (d) Includes genstones other than diamonds. Iron ore mining at Iron Monarch.

Department of Industry, Trade and Technology







Coal mining at Leigh Creek.

Department of Industry, Trade and Technology

Limestone quarrying at Mount Gambier.



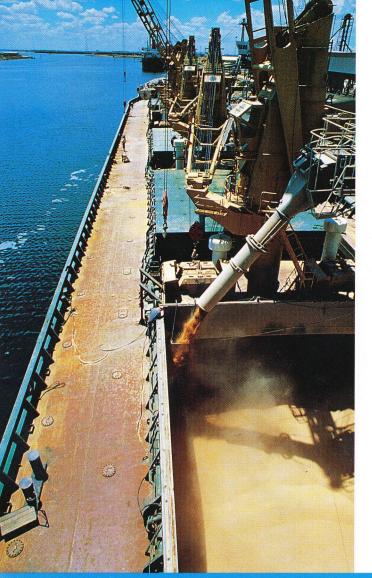
Processing of Pinus radiata logs at Nangwarry, South East.

Night harvesting of barley at Yorke Peninsula.

Department of Industry, Trade and Technology

Australian Barley Board





Bulk loading of barley for export at Port Adelaide.

Australian Barley Board

Opal mining fields at Coober Pedy.

Tourism South Australia



The Department of Mines and Energy spent approximately \$28.1 million in 1989–90 on geological and other investigations, drilling and mineral research work to assist the State's mineral industry.

Details of private petroleum exploration and development for South Australia are shown in the following table for the years 1986 to 1989.

Particulars	Unit	1986	<i>19</i> 87	<i>19</i> 88	1989
Wells drilled (a):					
Exploration	No.	40	56	71	53
Development	No.	6	24	10	15
Depth drilled:					
Exploration	'000m	95.2	129.6	170.8	114.9
Development	'000m	14.1	50.5	27.1	25.2
Expenditure:					
Private sources:					
Exploration	\$'000	68,287	57.829	80,386	n.y.a.
Development		53,047	25,674	178,875	n.y.a.

Private Petroleum Exploration and Development, South Australia

(a) Number of wells reaching total depth during year.

Source: Bureau of Mineral Resources, Geology and Geophysics.

12.2 ENERGY

South Australia's Energy Resources

Although South Australia has a reasonably varied energy resource base, the State depends almost entirely on non-renewable fossil fuels for its energy needs. Details of these resources, namely coal, natural gas, liquid petroleum gas (LPG), crude oil and condensate and some others, are given below.

Coal

South Australia has one operating coal mine, located 550 kilometres north of Adelaide at Leigh Creek. It is expected that coal mining will continue at Leigh Creek until the year 2025, supplying coal to both the present 240 megawatts (MW) Thomas Playford B Power Station and the adjoining new 2 x 250 MW Northern Power Station, as well as a planned third 250 MW unit.

Approximately 2.7 million tonnes of Leigh Creek coal is used to generate approximately 40 per cent of the State's electricity, the remainder being generated from gas.

A significant quantity of high rank bituminous coal is imported into South Australia from the eastern States for the production of coke in the iron and steel industry at Whyalla, and also for use in the lead–zinc smelters at Port Pirie.

A number of longer term energy scenarios for the State have indicated that the proportion of electricity generated from coal may increase during the next century. To plan for this event the State has been examining the feasibility of using local low grade coals which are in abundant supply.

Natural Gas

Over the last twenty years natural gas (largely methane) has become a vital part of South Australia's energy consumption pattern.

The State was one of the earliest users of natural gas in Australia with first supplies arriving in Adelaide from the Cooper Basin in November 1969. More than half this gas is presently consumed in electric power generation at the Electricity Trust of South Australia power stations at Torrens Island, Dry Creek and Mintaro. The Trust's use of natural gas provided the economic justification

for the construction of the 790 kilometre pipeline needed to deliver the gas to Adelaide, Peterborough, Port Pirie, Mintaro and Angaston. The remainder is reticulated to homes, industry and commercial premises for use directly in heating and drying applications. In early 1989 the existing gas pipeline spur to Port Pirie township and smelters was extended across Spencer Gulf to supply Whyalla's blast furnace and the Port Bonython plant, plus local domestic users.

At the end of 1987, natural gas was discovered at Katnook No. 1, approximately 10 kilometres south–west of Penola in the Otway Basin. Although the initial proven gas discovery was small, further exploration and appraisal drilling carried out nearby at Ladbroke Grove No. 1 and Katnook No. 2 during early 1989, has indicated a gas reserve of sufficient size to supply the State's South East commercial and domestic users presently relying on electricity or fuel oil for their primary heating requirements.

Liquid Petroleum Gas (LPG)

Recoverable LPG reserves in the Cooper Basin as of January 1990 are about 7.3 million tonnes. LPG (propane and butane) is recognised as an important substitute for petrol in South Australia. LPG is used in the production of synthetic natural gas, which is reticulated as town gas in Mount Gambier, Renmark, and Roxby Downs.

The Cooper Basin producers have constructed an LPG storage and loading terminal at Port Bonython, near Whyalla, which is connected to the Moomba processing facilities by a liquids pipeline. The bulk of South Australia's LPG requirements are now supplied from this facility, although the Port Stanvac refinery will continue to supply small amounts to the local market. Sales of commercial LPG commenced in June 1984 with the first overseas exports taking place in August 1984.

Crude Oil and Condensate

Crude oil and condensate in this State currently satisfies about 43 per cent of energy demand. While Australia is better situated than many other countries in terms of having a local source of oil, in 1988–89 this State imported 68.0 per cent of its feedstock requirements from overseas.

Information provided by the South Australian Department of Mines and Energy indicates that discovered fields in the South Australian segment of the Cooper and Eromanga Basins contain 7.9 million kilolitres of recoverable crude oil and 8.3 million kilolitres of condensate (liquids recoverable from gas wells) at January 1990.

Wood

Approximately 2 per cent of this State's annual energy demand is met by wood. Its main use is in the domestic sector as a heating fuel, although some (largely wood waste) is used in industry, particularly in the forestry industry and for generating some electricity in the south–east of the State. Currently, most wood supplies come from the State's forestry areas in the South East and from the Riverland mallee scrub.

Solar

South Australia, because of its latitude and dry climate has a significant potential for utilising direct or radiant solar energy. Solar hot water systems for domestic applications and for swimming pools are already in use and offer the potential for significant cost savings. Appropriate building design can utilise available solar radiant energy in winter to offset heating requirements. The full potential of solar energy applications will only be realised with advances in technology and improvements in relative cost. There is already increasing scope for the use of photo–voltaic cells to generate electricity in remote areas for specialised purposes such as telecommunications.

SOUTH AUSTRALIAN ENERGY AUTHORITIES AND ORGANISATIONS

In South Australia, there are several authorities and organisations concerned with the extraction, processing, distribution and monitoring of the State's energy resources *e.g.* the Pipelines Authority of South Australia and the South Australian Energy Council. Information about these bodies is contained in pages 384–6 of the *South Australian Year Book 1983*.

ELECTRICITY

The Electricity Trust of South Australia (ETSA), a public corporation, is responsible for electricity generation and distribution throughout most of the State. The Trust is an autonomous body, which reports to Parliament through the Minister of Mines and Energy. It is responsible for its own finances (including loan raising) and pays all normal State taxes such as payroll tax, land tax and local government rates.

There are seven power stations in South Australia controlled by ETSA. Torrens Island Power Station, with a generating capacity of 1,280 MW, is the largest, while the Northern Power Station, commissioned in 1985, has a generating capacity of 500 MW. The Electricity Trust's total capacity at 30 June 1990 was 2,350 MW.

To meet future demands, a third 250 MW unit at the Northern Power Station or its base load plant equivalent will be required some time after 1995.

The three–State interconnection linking South Australia to the Victoria/New South Wales power grid was first connected on 30 November 1989 and commenced commercial operation on 1 March 1990. The interconnection project provided the equivalent of 250 MW of peaking capacity through the sharing of reserves with Victoria and New South Wales. This allowed the retirement in March 1990 of the remaining plant at Osborne Power Station and will defer the need for extra capacity.

The Trust relies on natural gas as its main fuel with more than 50 per cent of its total generation in 1989–90 coming from this source. Gas has been used at the Torrens Island Power Station since 1969, at the Dry Creek Power Station since 1973, and at Mintaro since 1984.

Leigh Creek coal is used exclusively in the Thomas Playford Power Station and the Northern Power Station at Port Augusta.

About 90 per cent of new housing subdivisions are underground mains areas. In these subdivisions 11 KV and low voltage lines are installed underground and developers pay a contribution towards ETSA's costs. The Electricity Trust and local government authorities share the costs of conversion schemes from overhead to underground reticulation in areas where aesthetic benefits to the general public are possible.

	()									
Particulars	1986	1987	1988	1989	1990					
Residential Industrial General purpose Bulk supply Public lighting Pumping for major water pipelines .	2,752,141 2,276,453 1,501,054 86,399 57,456 215,800	2,830,006 2,264,780 1,558,615 58,210 58,476 122,202	2,948,226 2,360,053 1,684,572 56,932 59,476 148,127	2,961,526 2,514,526 1,752,535 167,363 60,602 150,543	3,110,809 2,626,011 1,867,065 220,641 61,873 143,593					
Total	6,889,303	6,892,289	7,257,386	7,607,095	8,029,992					

Electricity Trust of South Australia, Sales of Electricity (MWh)

At 30 June 1990 the Trust supplied 660,000 customers accounting for over 98 per cent of all electricity customers in the State. The Trust supplies indirectly 1,540 customers through special tariffs. A further 1,500 customers are supplied by diesel plant operated by the District Council of Coober Pedy and 1,300 customers by diesel and gas plant operated by the District Council of Peterborough. There are a further 20 small towns and isolated outback communities equipped with diesel generating plant and supplying 860 customers.

GAS

The South Australian Gas Company, was a privately owned company incorporated and regulated by an 1861 Act of Parliament to supply gas to Adelaide and surrounding villages. The first gas was produced at Brompton in 1863 and subsequent plants were opened at Port Adelaide in 1866 and Glenelg in 1875. Gas was first produced at Port Pirie in 1892.

In June 1988 the Gas Company merged with the Government owned South Australian Oil and Gas Corporation (SAOG) to form a new company, SAGASCO Holdings Ltd. The utility is now known as South Australian Gas Company Limited and SAOG has been renamed SAGASCO Resources Ltd.

Since the 1950s a considerable expansion of the distribution system has taken place. This is evident from the following table which gives details of number of consumers and length of mains at 30 June in selected years and at 31 December 1989.

		At 31 December			
Particulars	1950	1960	1970	1980	1989
Number of consumers (a) Length of mains (km)	84,629 1,677	121,720 2,525	186,670 3,603	250,545 4,967	307,850 5,890

South Australian Gas Company Limited, Consumers and Mains

(a) Includes 38,000 consumers of bottled gas.

Natural gas from the Cooper Basin became available in 1969. By 1971, all appliances in the Adelaide metropolitan area had been converted to natural gas, and all coal carbonising and carburetted water gas making plants were shut down.

Natural gas is reticulated through most of the Adelaide metropolitan area, as well as Port Pirie (since 1976), Angaston (since 1983), Peterborough (since 1987) and Whyalla (since 1988). Liquefied petroleum gas (LPG) is reticulated to consumers in Roxby Downs and Renmark and used on the feedstock in the production of tempered liquefied petroleum gas (TLP) which is reticulated at Mount Gambier.

The Gas Company places great emphasis on promoting natural gas with both the domestic and commercial/industrial markets as a cheap and non–polluting fuel.

Chapter 13

COMMERCE

13.1 INTERNAL TRADE

RETAIL TRADE

A Census of the Retail Industry was conducted for the year ended 30 June 1986 (1985–86 Retail Census). The scope of the Census included all establishments classified to the Australian Standard Industrial Classification 1983 Edition (ASIC) Subdivision 48 (Retail Trade). Also included were establishments classified to ASIC 4728, Builders Hardware Dealers n.e.c. Excluded from the collection were establishments classified to ASIC classes 4846 (Shoe Repairers) and 4857 (Electrical Appliance Repairers n.e.c.). The aim of the census was, in general, to include all retail establishments that operated at any time during the year ended 30 June 1986. Seasonal businesses which normally operate during certain periods of the year are included as far as possible even if they were not operating at 30 June 1986. However, in general, establishments which ceased operations during the year or commenced operations during the last two months of the year are included in census results only if their contribution to statistical aggregates is significant.

	Establish		employed une (a)	Wages	T
Industry class	ments at 30 June	Males	Females	and salaries	Turnover (b)
	number	number	number	\$'000	\$'000
Retail establishments:					
Department and general stores;					
Department stores	37	2,398	7,549	108,619	828,357
General stores	19	55	104	1,621	11,057
Clothing, fabrics and furniture stores;					
Men's and boys' wear stores	218	476	336	8,506	64,510
Women's and girls' wear stores	878	305	2,485	22,015	175,196
Footwear stores	252	290	738	9,631	71,199
Fabrics and household textile stores	349	245	842	7,599	58,104
Floor coverings stores	80	277	149	6,758	60,631
Furniture stores	252	842	458	18,943	150,583
Household appliance and hardware stores;					,
Domestic hardware stores	418	536	660	8,177	74,750
Watchmakers and jewellers	248	339	634	8,494	60,073
Music stores	113	201	189	3,824	40,564
Household appliance stores	565	1,355	899	25,053	279,188
Motor vehicle dealers, petrol and tyre	505	1,000	077	20,000	279,100
retailers:					
New motor vehicle dealers	1,335	6,661	1,459	105.736	1,532,849
Used motor vehicle dealers	376	1,258	289	19,165	336,315
Service stations (c)	797	3,266	1,728	37,776	596,857
Smash repairers	577	2.027	374	21,121	85,644
Motor cycle dealers	105	297	74	4,772	68,541
Boat and caravan dealers	105	310	103	4,764	51,927
Tyre and battery retailers	165	731	103	13,350	97,720
Food stores:	105	151	104	15,550	91,120
	1.319	6 707	10.249	137,869	1 407 220
Grocers, confectioners and tobacconists		6,783	10,248		1,497,220
Butchers	635 323	1,501	498	16,106	135,394
Fruit and vegetable stores		536	576	4,644	62,601
Liquor stores	101	288	114	4,873	79,015
Bread and cake stores	193	296	630	5,953	27,301
Fish shops, take away food and milk bars	2,315	4,005	5,798	37,117	363,519

Retail Industry : Summary of Operations by Industry Class South Australia, 1985–86

	Establish-	Persons employed at 30 June (a)		Wages	m	
Industry class	ments at 30 June	Males	Females	and salaries	Turnover (b)	
	number	number	number	\$'000	\$'000	
Other retailers;						
Pharmacies	487	736	1,949	26,348	182,675	
Photographic equipment stores	77	94	178	2,790	22,727	
Sports and toy stores	348	622	396	7,323	75,138	
Newsagents, stationers and booksellers	537	816	1,213	13,009	118,137	
Secondhand goods dealers	407	427	389	2,995	29,681	
Nurserymen and florists	348	404	798	7,074	43,899	
Retailing n.e.c.	408	354	570	3,983	35,944	
Total retail establishments	14,387	38,731	42,531	706,006	7,317,316	

Retail Industry : Summary of Operations by Industry Class South Australia, 1985–86 (continued)

(a) Includes working proprietors.(b) Sales of goods (retail and wholesale) and all other operating revenue.(c) The turnover figure for this industry does not reflect sales of petrol on commission.

Surveys of Retail Establishments

Prior to June 1988, estimates of the value of retail sales of goods were calculated from monthly returns received from a sample of retail and selected service establishments.

From June 1988 the series is based on a new survey of retail and selected service establishments. The main changes introduced are the reporting of 'turnover' of retail establishments rather than the narrower 'retail sales' and the re-basing of the survey on the results of the 1985-86 Retail Census.

The following table shows the estimates of the value of turnover of retail and selected service establishments at current prices by industry for the years 1986-87 to 1989-90. Data for periods prior to June 1988 have been converted to the new basis.

(\$ million)									
Industry	1986–87	1987–88	1988–89	1989–90					
Grocers, confectioners, tobacconists	1,678.4	1,745.3	1,838.0	1,923.8					
Butchers	134.2	114.4	147.3	160.4					
Other food stores	378.9	421.1	424.0	456.0					
Hotels, liquor stores, licensed clubs	644.1	705.6	729.2	733.1					
Cafes and restaurants	n.a.	n.a.	263.6	266.2					
Clothing and fabric stores	333.1	343.5	386.1	430.5					
Department and general stores	896.1	923.3	933.3	1,000.0					
Footwear stores	60.2	74.7	79.7	88.5					
Domestic hardware stores, jewellers	81.9	106.6	136.9	169.1					
Electrical goods stores	348.5	403.5	415.3	403.4					
Furniture stores	173.6	149.1	170.9	175.6					
Floor coverings stores	49.5	47.9	52.1	63.7					
Pharmacies	161.0	174.9	199.5	230.3					
Newsagents	129.3	128.6	143.0	157.0					
Other stores (b)	n.a.	n.a.	256.8	272.7					
Total	5,488.5	5,795.6	6,175.7	6,530.0					

Turnover of Retail Establishments at Current Prices by Industry^(a) South Australia

(a) Retail sales before June 1988 have been adjusted to a turnover basis. See the Explanatory Notes of Retail Trade, Australia (8501.0).

(b) Includes photographic stores, sports and toy stores, secondhand goods dealers, nurserymen and florists, retailers n.e.c. and hairdressers and beauty salons.

SERVICE INDUSTRIES

The 1986–87 Service Industries Survey covered ten personal and travel related industries. Seven of these were also part of the 1979–80 Census of Retail and Selected Services Industries, therefore allowing some comparisons between the two periods. (These industries are motion picture theatres, cafes and restaurants, hotels (mainly drinking places), accommodation, licensed clubs, laundries and dry cleaners, and hairdressers and beauty salons.) Data for motor vehicle hire, travel agency services and photography services have been collected for the first time.

The 1987–88 Service Industries Survey covered twelve professional and business related industries. The industries included had not previously been surveyed in this detail by ABS so there are no earlier statistics available to which they can be compared.

A brief summary of details of the 1986–87 and 1987–88 Surveys is contained in the following tables.

ASIC Cla	155	Enterprises operating at end June	Persons employed at end June	Wages and salaries (a)	Turnover		Net operating surplus
		No.	No.	\$m	\$m	\$m	\$m
1986-87							
5711	Motor vehicle hire	24	186	3	19	n.a.	n.a.
5741	Travel agency services (b)	106	619	9	20	n.a.	n.a.
9133	Motion picture theatres	22	441	9 5	20	8	3
9231	Cafes and restaurants	636	6.400	47	179	65	13
9232	Hotels (mainly drinking places) .	558	9,282	93	497	125	21
9233	Accommodation	280	3,367	38	121	57	15
9241-3	Licensed clubs	432	2,742	21	85	32	7
9340	Laundries and dry cleaners (c)	142	1.062	10	36	18	5
9351-2	Hairdressers and beauty salons .	1.016	3,796	27	75	41	11
9361	Photography services	127	357	2	12	5	2
1987-88	_						
6310	Real estate agents	674	3,164	72	152	93	15
6334	Architectural services	266	830	16	57	28	10
6335	Surveying services	47	330	8	20	10	10
6336	Engineering and technical		550	0	20	10	
0550	services (d)	287	1,819	43	108	61	11
6371	Legal services	323	3,148	40	178	83	39
6372	Accounting services	503	3,764	37	153	76	35
6381	Computing services	221	958	20	57	29	5
6382	Advertising services	165	1.014	20	259	36	14
6385	Debt collecting and credit	105	1,014	20	237	50	14
0505	reporting services	22	169	3	8	4	1
6386	Pest control services	37	249	4	14	8	3
6387	Cleaning services (e)	266	5,446	37	59	45	6
6388-9	Security/protection and	200	5,440	51	57	75	0
0500-9	business services n.e.c.(f)	63	1,028	16	37	23	6

Selected Service Industries : Summary of Operations South Australia, 1986–87 and 1987–88

(a) Gross earnings of all employees before taxation and other deductions. Drawings of working proprietors and partners are excluded. (b) Includes the travel agency divisions of the major financial institutions (mainly banks). (c) Excludes carpet cleaning services. (d) Includes quantity surveyors. (e) Includes carpet cleaning services. (f) Excludes quantity surveyors.

Tourist Attractions : Summary of Operations, South Australia, 1986-87

Number of attractions surveyed	Total visitors	Employment at end June (a)	Wages and salaries	Total income	Net capital expenditure
	,000		\$'000	\$'000	\$'000
355	<i>(b)</i> 9,618	1,342	16,537	50,985	3,352

(a) Excludes voluntary workers. (b) Excludes visitors to National Parks.

Tourist Attractions^(a) : Type Of Employment, South Australia 30 June 1987_(b)

	Males		Females		Total		
Type of employment	Full- time	Part- time	Full- time	Part- time	Full- time	Part- time	Total
Working proprietors and partners Permanent employees Casual employees	66 405 26	35 27 173	49 140 35	25 55 306	115 545 61	60 82 479	175 627 540
Total	497	235	224	386	721	621	1,342

(a) Includes museums, art galleries, amusement parks, casinos, zoos, botanical gardens, national parks and reserves, tourist caves, historic attractions etc.

(b) Includes only 273 attractions which were run by proprietors or employed staff. Many attractions are operated solely by voluntary workers and are therefore not included in this table. Attractions which did not employ staff at end June 1987, e.g. due to seasonal closedowns, are also not included in this table.

INTERSTATE TRADE

Although a wide range of statistics of production, domestic sales and overseas trade in goods has been prepared for many years, knowledge of trading patterns in the South Australian economy was deficient because of the absence of statistics of the interstate trade in this State. Surveys of interstate trade in merchandise were undertaken for the years ended 30 June 1979, 1982, 1985 and 1988.

Results from the 1987-88 survey are shown in the following table.

Value of Interstate Trade by Commodity, South Australia 1987–88(a)

	Expo	rts	Impo	orts
Commodity group	\$m	SE%	\$m	SE%
Livestock, food, animal and vegetable oils and fats	624.0	3.7	746.3	10.0
Australian wine and brandy	257.9	4.9	34.0	0.4
Other beverages	85.7	0.2	n.p.	n.p.
Tobacco and tobacco products	n.p.	n.p.	n.p.	n.p.
Mineral fuels, lubricants and related materials	465.6	0.2	366.5	7.8
Chemicals and chemical products	171.8	3.1	735.9	9.7
Other crude materials (inedible)	187.0	15.0	185.3	1.3
Leather, rubber, wood and paper products	n.p.	n.p.	508.7	10.3
Clothing and footwear	178.9	4.5	398.7	11.7
Textile yarn, fabrics and related products n.e.c.	102.8	5.5	228.2	19.0
Metal products	805.2	2.1	690.6	6.8
Road motor vehicles and parts	1,778.2	2.6	708.8	5.4
Other transport equipment	44.2	29.5	28.1	37.8
Domestic appliances and equipment	321.1	15.3	271.9	33.3
Other machinery and equipment	503.6	4.5	932.8	20.4
Sanitary, plumbing, heating, lighting equipment and furniture	135.8	11.6	120.9	7.8
Non-metallic mineral manufactures	93.2	12.9	84.2	8.1
Other manufactured goods	313.2	10.4	535.1	17.3
Total	6,546.8	1.4	6,655.6	4.1

(a) The relative standard errors associated with the estimates for exports (\$6,546.8 million with a standard error of 1.4%) and imports (\$6,655.6 million with a standard error of 4.1%) indicate that no statistical inference can be drawn about South Australia being a net importer or exporter of goods.

TOURISM

The ABS introduced a series of tourist accommodation surveys in September quarter 1975 to provide an indication of the utilisation of accommodation available by measuring occupancy rates. The surveys calculate occupancy rates as the proportion of guest rooms, sites or units occupied to the number of rooms, sites or units available for accommodating paying guests.

Establishments in the surveys are grouped into four categories – licensed hotels with facilities, *i.e.* bath or shower and toilet in most guest rooms; licensed or unlicensed motels, private hotels or guest–houses with facilities; caravan parks with powered sites for caravans, and toilet, shower and laundry facilities available for guests; and self–contained holiday flats, units and houses. Caravan parks were included in the surveys from the September quarter 1977. Excluded at that time were licensed hotels, private hotels and guest–houses without facilities.

Up to June quarter 1986 the surveys included establishments providing accommodation predominantly to short-term guests (*i.e.* guests staying for periods of less than 2 months).

Commencing with September quarter 1986 the surveys also included caravan parks which are predominantly occupied by long-term guests. A new survey was introduced in September quarter 1987 when holiday flats and serviced apartments providing self-catering facilities were included. Establishments comprising at least 5 units providing short-term accommodation are surveyed.

The number of establishments identified in the survey is determined by the nature of the services and facilities provided, and 129 licensed hotels with facilities, 243 motels, 175 short–term caravan parks, 35 long–term caravan parks and 79 letting entities (with letting rights to at least 5 flats, units or houses) were included in the June quarter 1990.

				Quarter		
Particulars	Unit	June 1989	Sept. 1989	Dec. 1989	Mar. 1990	June 1990
LICENSE	D HOTELS V	VITH FACIL	ITIES			
Establishments at end of quarter Guest rooms Room occupancy rate Takings	Number Number Per cent \$'000	125 3,616 47.1 11,148	126 3,644 49.5 11,398	125 3,975 46.6 13,169	129 4,236 46.5 13,534	129 4,235 43.4 13,111
MOTE	LS ETC. WIT	H FACILITI	ES			
Establishments at end of quarter Guest rooms Room occupancy rate Takings	Number Number Per cent \$'000	225 5,780 53.0 15,142	224 5,801 52.5 15,496	225 5,865 58.1 18,446	230 5,929 60.1 19,077	243 6,081 52.6 17,556
SHORT	T-TERM CAR	RAVAN PAR	KS			
Establishments at end of quarter Sites (a) Site occupancy rate Takings	Number Number Per cent \$'000	161 19,195 15.1 3,220	159 19,021 13.9 3,099	161 19,157 18.0 4,278	160 19,126 24.1 5,542	175 19,847 17.6 4,257
LONG	-TERM CAR	AVAN PARI	<s< td=""><td></td><td></td><td></td></s<>			
Establishments at end of quarter Sites (a) Site occupancy rate Takings	Number Number Per cent \$'000	36 3,403 41.4 1,036	36 3,439 38.5 1,030	36 3,453 42.8 1,117	36 3,407 45.6 1,187	35 3,495 44.6 1,168
HOLIDAY	FLATS, UN	ITS AND HO	USES			
Letting entities Flats, units etc. Unit occupancy rate Takings	Number Number Per cent \$'000	83 1,171 41.5 2,292	84 1,191 39.7 2,326	84 1,221 46.7 2,997	85 1,219 61.7 3,759	79 1,113 45.4 2,301

Tourist Accommodation Survey, South Australia

(a) Includes on-site vans, other powered sites, unpowered sites and cabins, flats etc.

	Licensed hote	els, motels etc.	with facilities	Shor	term caravan	parks
Statistical Division and Subdivision	Establish– ments at 30 June 1990	Guest rooms at 30 June 1990	Average room occu– pancy rate 1989–90	Establish– ments at 30 June 1990	Sites (a) at 30 June 1990	Average site occupancy rate for 1989–90
	number	number	per cent	number	number	per cent
Northern Western Eastern	23 17 58	431 342 3,646	45.8 53.5 60.0) 5	1,109	48.2
Southern	28	727	53.5	8	756	37.1
Adelaide	126	5,146	57.4	13	1,846	43.8
Barossa Kangaroo Island Onkaparinga Fleurieu	21 12 4 19	290 241 109 395	46.8 41.9 48.3 45.6) 10	1,190 2,417	16.5 14.5
Outer Adelaide	56	1,035	45.4	25	3,607	15.2
Yorke Lower North	16 11	232 128	39.4 52.0	23 8	2,417 458	18.9 21.5
Yorke and Lower North	27	360	43.9	31	2,875	19.2
Riverland Murray Mallee	20 16	590 226	45.1 40.2	12 15	1,792 1,276	20.7 9.2
Murray Lands	36	816	43.7	27	3,068	16.2
Upper South East	21 32	392 716	47.4 50.0	9 12	1,016 1,561	13.4 11.1
South East	53	1,108	49.1	21	2,577	12.1
Lincoln West Coast	22 8	351 246	42.9 48.8	13 9	1,506 1,056	14.1 17.0
Eyre	30	597	45.4	22	2,562	15.3
Whyalla Far North	12 9	306 349	48.1 44.0		1,167	15.2
Pirie Flinders Ranges	7 16	133 466	62.0 51.7	10 15	633 1,512	13.3 17.4
Northern		1,254	49.8	36	3,312	16.0
South Australia	372	10,316	52.0	175	19,847	18.4

Tourist Accommodation Survey by Statistical Division and Subdivision, 1989–90

(a) Includes on-site vans, other powered sites, unpowered sites and cabins, flats etc.

Tourist Accommodation Survey : Details by Size of Establishment South Australia, June Quarter 1990

		Size of establishment (number of rooms)						
Particulars	Unit	1-9	10–15	16-25	26-50	51 & over	Total	
	LICENSED HO	DTELS WIT	TH FACILI	TIES				
Establishments	Number	33	36	20	24	16	129	
Guest rooms	Number	219	425	399	793	2,399	4,235	
Room occupancy rate	Per cent	31.7	37.7	30.2	44.8	47.2	434	
Takings	\$'000	232	513	432	1,993	10,002	13,111	
	MOTELS E	TC. WITH	FACILITI	ES				
Establishments	Number	49	53	48	74	19	243	
Guest rooms	Number	280	669	1,005	2,699	1,428	6,081	
Room occupancy rate	Per cent	35.7	47.5	48.5	54.5	57.7	52.6	
Takings	\$`000	549	1,339	2,179	7,826	5,664	17,556	

		Size of establishment (number of sites)					
Particulars	Unit	1–50	51-100	101– 200	201– 300	301 and over	Total
	SHORT-TE	RMCARA	VAN PARI	KS			
Establishments	Number	45	54	53	13	10	175
Sites (a)	Number	1,546	3,981	7,194	3,141	3,985	19,847
Site occupancy rate	Per cent	12.4	17.1	20.6	17.2	15.2	17.6
Takings	\$'000	196	705	1,950	629	777	4,257
	LONG-TEI	RM CARA	VAN PARK	S			
Establishments	Number	9	9	15	2	_	35
Sites (a)	Number	267	736		2,492	-	3,495
Site occupancy rate	Per cent	34.8	40.5		46.8	-	44.6
Takings	\$'000	79	240		849	-	1,168

Tourist Accommodation Survey : Details by Size of Establishment South Australia, June Quarter 1989 (continued)

(a) Includes on-site vans, other powered sites, unpowered sites and cabins, flats etc.

Further References

Additional information may be found in the following ABS publications:

- 8501.0 Retail Trade, Australia (Monthly)
- 8502.4 Interstate Trade, South Australia
- 8622.4 Retail Census, Details of Operations, South Australia, 1985–86
- 8623.4 Retail Census, Small Area Statistics, South Australia, 1985–86
- 8626.4 Retail Census, Establishment Size Statistics, South Australia, 1985–86
- 8635.0 Tourist Accommodation, Australia (Quarterly)
- 8635.4 Tourist Accommodation, South Australia (Quarterly)
- 3401.0 Overseas Arrivals and Departures, Australia (Monthly)
- 3402.0 Overseas Arrivals and Departures, Australia (Quarterly)

13.2 FOREIGN TRADE

ADMINISTRATION

Under the Constitution of Australia, the Commonwealth Parliament is responsible for legislation relating to trade and commerce with other countries. Matters relating to trade and commerce are dealt with by these Commonwealth Government Departments.

The Department of Foreign Affairs and Trade is responsible for developing and maintaining Australia's position as a world trading nation through international trade and commodity commitments and agreements, developing export markets, and formulating proposals for the Government on Australia's international trade policy and trading objectives. It is also responsible for matters related to the commercial development, marketing, and export of minerals and fuels. It has Trade Commissioners at various overseas centres.

The Department of Industry, Technology and Commerce cooperates with the Department of Foreign Affairs and Trade in international tariff negotiations and the Australian system of tariff preferences for developing countries. The Department is also responsible for the collection of customs and excise duties and for the detailed administration of various controls over the import and export of goods through the Australian Customs Service.

The Department of Primary Industry and Energy administers Commonwealth policy relating to production and marketing arrangements for primary products. It cooperates with the Department of Foreign Affairs and Trade in the negotiation of international trade and commodity agreements, in participation in international conferences, and in the administration of provisions relating to primary products in existing international agreements. The Department is responsible for the inspection, grading, and labelling of primary produce submitted for export.

The State Government is represented overseas by South Australia's Agent-General in London whose functions are to foster Australian trade, investment and tourism from the United Kingdom and Western Europe. Other agencies with similar responsibilities are in Hong Kong, Singapore and Tokyo.

METHOD OF RECORDING IMPORTS AND EXPORTS

Foreign trade statistics are compiled by the Australian Bureau of Statistics from documentation submitted by exporters and importers, or their agents, to the Australian Customs Service as required by the Customs Act.

Exports

From 1 July 1978 the ABS changed the basis of recording State details in Australian export statistics from 'State of Lodgment' (of export documents) to 'State of Origin' (of exported goods). State of origin is defined as the State in which the final stage of production or manufacture occurs. Statistics in the following export tables are on a 'State of Origin' basis, and caution should be exercised when making comparisons with earlier periods.

A 'State of Loading' recording base has simultaneously been developed by ABS. The table on page 235 shows for comparative purposes, South Australian exports (principal commodity groups) by both 'State of Loading' and by 'State of Origin'.

Imports

Imports continue to be collected and published on a 'State of Lodgment of Import Documents' basis and there is no break in the series. Imports do not provide a record of the overseas goods used or consumed in South Australia as some of the goods pass subsequently to other Australian States and, more commonly, some goods imported through other States pass into South Australia.

Valuation

Exports

Goods actually sold to overseas buyers before shipment are valued at the free–on–board (f.o.b.) (*i.e.* the charges and expenses involved in delivering the goods are excluded) Australian port of shipment equivalent of the actual price at which the goods were sold. Goods shipped on consignment are valued at the f.o.b. Australian port of shipment equivalent of the current price offering for similar goods of Australian origin in the principal markets of the country to which the goods are dispatched for sale. The recorded value of exports includes the value of the outside package, other than international containers used for containerised cargo. Exporters who do not know the value of the goods at shipment_and enter an appropriate value must subsequently submit an entry either confirming or revising the estimated return.

Imports

The recorded value of imports is the Customs value (formerly referred to as the value for duty). On 30 November 1981, Australia changed its system of valuation from the Brussels Definition of Value (BDV) to the GATT Agreement on Customs Valuation. The Agreement reflects one of a number of trade related codes of conduct established during the round of Multilateral Trade Negotiations (MTN) concluded in 1979.

Under the Agreement the primary basis for establishing the Customs value is the price actually paid or payable, provided a number of conditions are met. The most important condition is that the buyer and seller must be independent of each other. If the conditions are not met the GATT Agreement offers a set of practical rules to determine the Customs value.

The recording of the value of imports remains on a free–on–board (f.o.b.) basis. The recorded value also continues to include the value of the outside package, other than international containers used for containerised cargo.

FOREIGN TRADE OF SOUTH AUSTRALIA

EXPORTS

The total value of exports of South Australian origin during 1988-89 was \$2,446.8 million.

This value is 8.1 per cent higher than 1987–88. The increase over the value of exports ten years ago was 165 per cent, while the increase in the Australian Export Price Index over the same period was 97 per cent, thus there has been an appreciable increase in South Australian foreign exports in real terms over this period.

Wheat and wool remained South Australia's most valuable export commodities during 1988–89. The income from exports of wine, petroleum products, lead and road vehicles continues to improve, as illustrated in the following table.

Commodity	1984-85	198586	1986–87	1987–88	1988–89
QU	ANTITY				
Live sheep and lambs ('000)	1,738	1,466	1,178	1,878	2,164
Beef, veal, lamb and mutton (tonnes)	36,531	37,767	41,901	62,931	56,799
Crustaceans, molluscs and aquatic invertebrates (tonnes)	4,190	4,701	4,589	5,880	4,622
Wheat (tonnes)	2,158,477	1,583,070	2,140,608	1,877,100	1,358,751
Barley (tonnes)	1,457,531	1,902,898	1,638,465	868,678	934,153
Wine of fresh grapes (incl. fortified) ('000 litres)	6,179	8,129	15,850	28,562	28,656
Wool (a): Greasy (tonnes)	50,103	58,496	66,496	67,642	55,884
Other (tonnes)	8,341	6,606	4,477	4,769	4,918
Crude petroleum (incl. condensate) ('000 litres)	261,385	134,166	39,938	48,678	241,648
Fuel oil ('000 litres)	227,619	226,591	349,853	253,790	340,805
Lubricating petroleum oils ('000 litres)	146,120	123,789	159,329	134,788	182,606
Iron and steel blooms, billets etc. (tonnes)	378,931	384,476	367,549	271,598	176,891
Refined copper and copper alloys, unwrought (tonnes)					10,764
Lead and lead alloys, unworked (tonnes)	118,866	143,432	106,293	102,307	142,066
VAL	UE (\$'000)				
Live sheep and lambs	51,623	39,498	35,208	61,708	71,733
Beef, veal, lamb and mutton	77,232	85,232	115,511	170,590	155,890
Crustaceans, molluscs and aquatic invertebrates	68,669	91,722	105,767	134,670	91,043
Wheat	405,255	305,084	318,555	280,582	273.765
Barley	215,887	236,026	181,771	102.454	132,080
Wine of fresh grapes (incl. fortified)	10,550	13,623	28,346	56,180	70,362
Wool (a): Greasy	165,724	197,132	255,490	339.621	353,466
Other	36,187	33,801	25,942	37,993	41,391
Crude petroleum (incl. condensate)	57,646	27,242	6,036	7,870	40,066
Fuel oil	53,550	58,505	45,356	42,634	63,185
Lubricating petroleum oils	76,035	74,674	82,505	63,866	70,976
Iron and steel blooms, billets, slabs etc	84,175	92,673	92,745	63,660	44,141
Refined copper and copper alloys, unwrought	-			2	42,012
Lead and lead alloys, unworked	61,087	80,563	73,419	94,222	115,793
Road vehicles, parts and accessories	28,986	31,605	69,692	92,901	120,659

Overseas Exports from South Australia, Principal Commodities

(a) Wool of sheep and lambs, excluding wool tops.

Overseas Exports from South Austral	a, Principal Commodity Groups
. (\$'000)	

Commodity group	1986-87	1987–88	1988-89
Food and live animals:			
Live animals other than fish	41,009	64,933	74,814
Meat and meat preparations	135,793	195,919	179,653
Fish and fish preparations	117,509	138,107	93,752
Cereals and cereal preparations	530,406	418,564	466,503
Vegetables and fruit	74,871	75,222	63,626
Other	27,204	39,413	39,638
Beverages and tobacco	29,341	57,577	72,184
Crude materials, inedible (except fuels):		01,011	,, _ 0 (
Textile fibres and their wastes	282,071	378.093	395,126
Metalliferous ores and metal scrap	26,918	24.876	56,641
Other	35,490	42,233	38,554
Mineral fuels, lubricants and related materials	161,667	130,149	194,145
Animal and vegetable oils, fats and waxes	3,722	3.997	6,415
Chemicals and related products n.e.c.:	5,12.2	5,771	0,415
Medicinal and pharmaceutical products	11,926	12.583	10,704
Other	3,506	9.825	12,081
Manufactured goods classified chiefly by material:	5,500	2,025	12,001
Iron and steel	103,158	88,295	58,811
Non-ferrous metals	142,631	164,944	185,906
Other	33,005	47,713	64,741
Machinery and transport equipment:	33,005	47,715	04,741
Power generating machinery and equipment	2,654	10.434	25.059
Machinery specialised for particular industries	15,610	22,909	28,643
	27,789	31.029	31,022
Electrical machinery, appliances and parts			124,955
Transport equipment	71,567	99,577	
Other	25,036	20,338	16,627
Miscellaneous manufactured articles:			
Professional and scientific instruments; photographic	16 105	10 21 5	22.016
and optical goods; clocks	16,125	19,315	33,946
Other	9,538	19,409	25,610
Commodities and transactions n.e.c. (a)	118,599	147,906	147,676
Total	2,047,147	2,263,360	2,446,832

(a) Includes items deemed confidential.

Liquefied petroleum gas (LPG) is a principal export commodity, but because of confidentiality restrictions, no details are available at the State level.

Although exports of manufactured goods have generally been increasing, the bulk of exports is still of goods usually classified as primary products. In 1988–89 the 'Crude materials, inedible' group accounted for \$490.3 million, or 20.0 per cent of exports (including wool \$394.9 million, 16.1 per cent), and the 'Food and live animals' group accounted for \$989.8 million or 40.5 per cent.

Overseas Exports from South Australia, Principal Countries (\$'000)

Country of consignment	1984–85	1985–86	1986–87	198788	1988–89
Canada	8,070	18,317	17.039	26,299	48,943
China	130,226	122,697	148,840	83,074	50,558
France	23,342	28,707	39,862	55,889	51.279
Germany, Federal Republic of	20,952	31,570	30,937	35,337	52,594
Hong Kong	35,332	28,765	31,427	33,832	65.877
India	45.059	77,195	38,415	75,345	58.846
Indonesia	15.887	28,907	34,960	27.813	24,808
Iran	36,927	39,728	61.478	95,774	110,576
Italy	25.029	22,890	34.062	46.886	52.162
Japan	251.663	357,125	301.255	393,189	384,165
Korea, Republic of	37.534	23.672	27.265	41.759	59.220
Malaysia	37,195	35,606	23,684	31,738	48,399

Country of consignment	1984-85	198586	1986–87	1987–88	1988–89
New Zealand	123,693	103,541	139,751	165,197	228,377
Oman	2,934	21,366	18,193	24,626	31,553
Philippines	10,862	8,813	13,700	20,977	25,509
Saudi Arabia	118,727	183,940	129,596	75,167	92,681
Singapore	75,506	85,790	75,646	89,344	109,472
Taiwan	37,454	42,340	59,623	64,774	77,848
Thailand	11,592	8,332	22,398	8,947	34,476
United Arab Emirates	41,187	44,614	48,417	43,732	79,734
United Kingdom	85,476	72,688	72,954	94,039	108,013
United States of America	160,936	135,867	192,530	215,572	171,774
USSR	161,262	150,520	142,170	83,946	136,926
Yemen, People's Democratic Republic of	36,682	44,841	26,581	33,381	21,580
Other	387,886	270,402	316,364	396,723	321,462
Total	1.921,413	1,988,233	2.047.147	2,263,360	2,446,832

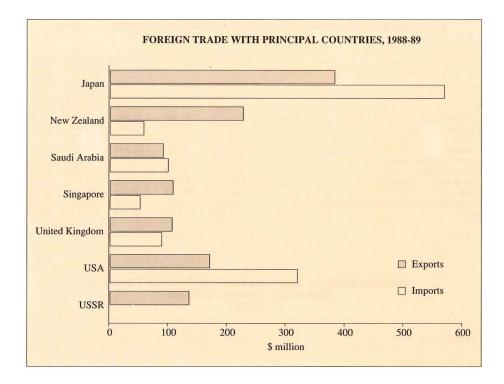
Overseas Exports from South Australia, Principal Countries (continued) (\$'000)

Overseas Exports: South Australia to Principal Countries Commodity Groups, 1988–89 (\$'000)

Commodity group	Japan	New Zealand	USA	USSR	Iran	Total (a)
Food and live animals:						
Live animals other than fish	_	585	2	70	_	74.814
Meat and meat preparations	48,569	2.515	59.057	-	_	179.653
Fish and fish preparations	62,341	213	10.517	_	_	93,752
Cereals and cereal preparations	47,467	15.842	766	6,885	64,714	466,503
Vegetables and fruit	3,661	7,502	919	0,005		63,626
Other	7,089	2,772	2,595	_	_	39,638
Beverages and tobacco	3,727	10,253	8,738		_	72,184
Crude materials, inedible (except fuels):	5,121	10,255	6,756		-	12,104
Textile fibres and their wastes	53,990	113	5,716	129,970	_	395,126
	11,196	113	7,561	129,970	_	56.641
Metalliferous ores and metal scrap	6.493	3,542	7,501			38,554
Other						
Mineral fuels, lubricants and related materials	2	40,044	15,611	-		194,145
Animal and vegetable oils, fats and waxes	520	-				6,415
Chemicals and related products n.e.c.:	2	074	6 9 4 4			10 70 /
Medicinal and pharmaceutical products	2	274	5,344	-	-	10,704
Other	56	2,228	251	-		12,081
Manufactured goods classified by material:						
Iron and steel	10,667	5,868	27	-	38,379	58,811
Non-ferrous metals	10,192	10,436	3,948	-	7,458	185,906
Other	11,653	12,308	11,029		-	64,741
Machinery and transport equipment:						
Power generating machinery and equipment	16,283	2,073	30		25	25,059
Machinery specialised for particular industries	221	2,221	4,464	-		28,643
Electrical machinery, apparatus, appliances and parts	122	11,380	2,051			31,022
Transport equipment	9,025	81,262	10,889			124,955
Other	26	2,457	2,411			16,627
Miscellaneous manufactured articles:						
Professional and scientific instruments;						
photographic and optical goods; clocks	1.588	1.544	8,546	_		33.946
Other	1.761	10,539	6.048	-		25.610
Commodities and transactions n.e.c. (b)	77,514	2,263	4,447	-	-	147,676
Total	384,165	228,377	171,774	136,926	110,576	2,446,832

(a) To all countries. (b) Includes items deemed confidential.

These tables show the value of exports to principal countries. Japan replaced the United Kingdom as South Australia's principal export market in 1966–67 and retained that position until 1978–79. For the next three years USSR was the principal export market, but from 1982–83 Japan is once again the country of consignment with the highest value of exports. In 1988–89 exports to Japan comprised 15.7 per cent of the total.



Exports of Wheat

In 1988–89, 1.36 million tonnes of South Australian wheat was exported overseas. The unit price of \$201 per tonne was an improvement on the extremely low price of \$149 per tonne in the years 1986–87 and 1987–88 and compared well with the 1985–86 unit price of \$193 per tonne. The value of wheat exported in 1988–89 was \$273.8 million, the main countries of consignment being Iran, the United Arab Emirates, Oman and China.

I.	,,				
Country of consignment	1984–85	1985–86	1986–87	1987–88	1988–89
Bangladesh	3,660	_		4,665	2,025
China	25,045	18,445	43,098	28,524	22,051
Egypt	_	_	31,239	27,947	12,603
India	_		_	-	6,605
Iran	20,459	16,677	27,496	63,171	64,714
Japan	-	-	_		3,799
Malaysia	3,199	8,195	664	-	17,359
New Zealand	13,622	12,409	6,907	9,733	14,923
Oman	_	11,041	10,298	13,005	25,213
Qatar	5,434	5,083	2,421	6,794	6.682
Sri Lanka	-	_	· -	800	1,127
United Arab Emirates	25,189	31,483	33.138	20.133	57,013
USSR	76,575	109,611	74,252	5,774	6,885
Yemen, Arab Republic of	36,807	14.835	25,807	18.014	11.065
Yemen, People's Democratic Republic of	36,477	44,814	26,581	33,373	21,580
Other	158,788	32,491	36,654	48,649	122
Total	405,255	305,084	318,555	280,582	273,765

Overseas Exports of Wheat from South Australia (\$'000)

Exports of Wool

In 1988–89 the major export markets for South Australian wool were USSR (\$130.0 million, 32.9 per cent), Japan (\$54.0 million, 13.7 per cent), France (\$31.3 million, 7.9 per cent) and Italy (\$30.1 million, 7.6 per cent).

Country of consignment	1984-85	1985–86	1986-87	198788	198889
Czechoslovakia	4,945	13,606	7,280	21,227	14,474
France	10,375	12,430	17,832	28,501	31,330
German Democratic Republic	2,322	2,662	2,045	2,272	8,845
Germany, Federal Republic of	8,694	7,781	14,084	16,284	18,377
India	6,442	12,759	9,286	22,431	9,911
Italy	17,261	14,720	17,988	20,524	30,111
Japan	27,049	31,558	45,051	66,598	53,990
Korea, Republic of	7,291	8,136	11.637	9,325	15,017
Poland	7,729	13,927	1,468	18,165	12,395
Taiwan	3,662	12,216	5,421	8,693	6,248
United Kingdom	4,945	3,926	7,651	9,890	8,820
USSR	45,676	40,494	67,910	74,443	129,970
Other	55,769	57,038	74,386	79,712	55,637
Total	202,160	231,253	282,040	378,065	395,125

Overseas Exports of Wool ^(a) from South Australia (\$'000)

(a) SITC 268. Wool and other animal hair (includes wool tops from 1 January 1988).

Value of Exports by 'State of Loading' and by 'State of Origin'

The following table shows a comparison between the two methods of compiling State export statistics (refer to explanatory notes on page 230). The net increases, within certain limitations, represent the excess of the value of South Australian produced commodities which are shipped for overseas export through ports in other States (principally the Port of Melbourne), over commodities produced in other States which are shipped through South Australian ports.

The value of commodities of South Australian origin loaded for export in ports in other States is as follows – New South Wales, \$59.7 million; Victoria, \$741.9 million; Queensland, \$12.1 million; Western Australia, \$22.5 million; other States and Territories, \$0.1 million; total \$836.3 million.

Overseas Exports from South Australia : Principal Commodity Groups 1988–89 (\$'000)

Commodity group	State of origin – SA	State of loading – SA	Net difference
Food and live animals:			
Live animals other than fish	74,814	63,107	11,707
Meat and meat preparations	179,653	44,115	139,538
Fish and fish preparations	93,752	46,087	47,665
Cereals and cereal preparations	466,503	458,499	8,004
Vegetables and fruit	63,626	42,384	21.242
Other	39,638	24,634	15,004
Beverages and tobacco	72,184	20,778	51,406
Crude materials, inedible (except fuels):			
Textile fibres and their wastes	395,126	293,095	102,031
Metalliferous ores and metal scrap	56,641	200,074	-143,433
Other	38,554	25,973	12,581
Mineral fuels, lubricants and related materials	194,145	194,098	<u></u> 47
Animal and vegetable oils, fats and waxes	6,415	6,247	168
Chemicals and related products n.e.c:			
Medicinal and pharmaceutical products	10,704	2,682	8,022
Other	12,081	8,527	3,554

Overseas Exports from South Australia : Principal Commodity Groups 1988–89 (continued) (\$'000)

Commodity group	State of origin – SA	State of loading – SA	Net difference
Manufactured goods classified chiefly by material:			
Iron and steel	58,811	57,182	1,629
Non-ferrous metals	185,906	139,259	46,647
Other	64,741	33,621	31,120
Machinery and transport equipment:			<i>,</i>
Power generating machinery and equipment	25,059	14,529	10.530
Machinery specialised for particular industries	28,643	8,379	20,264
Electrical machinery, apparatus, appliances and parts .*.	31,022	10,350	20,672
Transport equipment	124,955	33,382	91,573
Other	16,627	6,167	10,460
Miscellaneous manufactured articles:	<i>,</i>		,
Professional and scientific instruments; photographic			
and optical goods; clocks	33,946	7.672	26,274
Other	25,610	10,883	14,727
Commodities and transactions n.e.c. (a)	147,676	107,706	39,970
Re-exports	, –	8,624	-8,624
Total	2,446,832	1,868,052	578,780

(a) Includes items deemed confidential.

IMPORTS

The total value of overseas imports passing through Customs recording points in South Australia during 1988–89 was \$1,861.4 million, \$56.8 million more than in 1987–88.

The proportions of imports obtained from the major sources have changed considerably in the years since the 1939–45 War *e.g.* in 1953–54 Japan supplied only 0.5 per cent of the total value of imports into South Australia but in 1988–89 accounted for 30.6 per cent; the United Kingdom which supplied over half the imports in 1953–54 accounted for only 4.9 per cent in 1988–89. Japan was the major source of imports into South Australia in 1988–89 with \$570.0 million, the USA (\$321.0 million) and Saudi Arabia (\$101.2 million) were the second and third largest sources of imports.

The following table shows the overseas imports to South Australia by principal commodity groups.

Overseas Imports to South Australia, Principal Commodity Groups (\$'000)

Commodity group	1986-87	1987-88	1988–89
Food and live animals:			
Fish and fish preparations	16,813	15,518	15,149
Other	20,444	26,505	34,244
Beverages and tobacco	6,838	10,922	11.058
Crude materials, inedible (except fuels):	,	,	
Cork and wood	22,707	26.825	35,533
Crude fertilisers and crude minerals	22,323	18,720	31,546
Other	19,494	43.271	33,130
Mineral fuels, lubricants and related materials	147,720	157.523	173,189
Animal and vegetable oils, fats and waxes	1,285	1.075	1,964
Chemicals and related products n.e.c.	- ,	-,	-,
Organic chemicals	14,608	17,861	21,428
Fertilisers (excl. crude)	31,196	31.634	40,531
Plastics in non-primary forms	20,387	19,931	16,780
Other	40,218	52,215	61,494

Overseas Imports to South Australia, Principal Commodity Groups (continued) (\$'000)

Commodity group	1986–87	1987–88	1988–89
Manufactured goods classified chiefly by material:			
Rubber manufactures n.e.c.	28,081	35,720	40,848
Cork and wood manufactures (excl. furniture)	23,247	36,748	33,271
Paper, paperboard and manufactures thereof	38,249	45,544	49,582
Textile yarn, fabrics and made-up articles	49,756	54,802	47,603
Non-metallic mineral manufactures n.e.c.	26,911	34,267	39,843
Iron and steel	46,485	78.650	82,472
Manufactures of metal n.e.c.	64,236	72,352	43,076
Other	9,180	11,267	11,660
Machinery and transport equipment:	.,	,	,
Power generating machinery and equipment	142,722	213.389	44,403
Machinery specialised for particular industries	59,363	140.717	82,431
Metalworking machinery	35,273	21.286	19,278
General industrial machinery and equipment, and	,	,	
machine parts n.e.c.	61,469	76.884	121.005
Office machines and ADP machines	10.236	16,438	22,175
Telecommunications and sound recording and	,	,	,
reproducing apparatus and equipment	33,895	21,299	25,980
Electrical machinery, apparatus, appliances and parts	63,184	71.701	89,406
Road vehicles	236,411	233.667	415,117
Other transport equipment	4,331	7.207	14,825
Miscellaneous manufactured articles:	1,001	,,_0,	,
Professional, scientific and controlling instruments;			
photographic and optical goods; clocks and watches	31.304	38.427	55.012
Other	78,478	90.331	105,473
Commodities and transactions n.e.c. (a)	94,985	81,915	41,893
Total	1,501,827	1,804,614	1,861,399

(a) Includes items deemed confidential.

Overseas Imports to South Australia, Principal Countries (\$'000)

Country of origin	1984–85	1985–86	1986–87	198788	1988–89
Austria	5,266	11,553	7,705	12,114	17,564
Belgium–Luxembourg	5,099	7,560	7,216	13,884	10,010
Canada	24,684	25,306	31,683	42,059	33,661
China	10,431	9,357	13,364	21,655	20,944
Denmark	6,991	8,919	9,791	11,813	18,734
France	23,231	29,656	30,448	33,529	36,638
Germany, Federal Republic of	61,911	81,168	74,273	84,704	92,447
Hong Kong	21,195	22,050	24,470	27,233	28,526
Indonesia	4,754	8,329	13,888	22,105	35,779
Italy	45,141	51,719	47,783	64,684	54,484
Japan	478,744	670,753	570,090	649,490	570,007
Korea, Republic of	14,298	11,126	20,374	23,327	30,578
Malaysia	19,579	15,869	24,339	20,311	28,276
Netherlands	9,738	27,831	12,035	13,814	14,159
New Zealand	25,667	30,251	30,089	45,325	60,028
Portugal	2,568	5,425	7,868	13,302	14,168
Saudi Arabia	285,275	146,764	98,044	104,368	101,223
Singapore, Republic of	62,809	35,339	27,440	26,087	53,406
Spain	5,205	7,974	7,486	14,653	11,145
Sweden	7,903	8,610	19,629	17,660	10,691
Taiwan	30,085	34,400	50,302	55,686	52,682
Thailand	9,451	13,736	16,712	21,755	20,160
United Arab Emirates	-	37,598	17,506	25,214	28,069
United Kingdom	75,552	81,867	67,065	120,248	90,357
United States of America	266,392	264,397	197,096	223,277	320,951
Other	101,271	89,200	75,131	96,317	106,712
Total	1,603,240	1,736,757	1,501,827	1,804,614	1,861,399

The following table shows for 1988–89 the imports from principal countries.

	(\$ 000)					
Commodity group	Japan	USA	Saudi Arabia	Federal Republic of Germany	UK	Tota (a)
Food and live animals:						
Fish and fish preparations	85	349	_	350	80	15,149
Other	143	5,570	_	1.105	1,692	34,244
Beverages and tobacco	3	171		81	1,923	11,058
Crude materials, inedible (except fuels):						
Cork and wood	-	12,750	-	77	3	35,533
Crude fertilisers and crude minerals	2,281	2,325		7	112	31,540
Other	366	3,600		296	165	33,130
Minerals fuels, lubricants and related materials	14	373	101,167	532	186	173,189
Animal and vegetable oils, fats and waxes	_	192	,	9	2	1.964
Chemicals and related products n.e.c.:						,
Organic chemicals	3,394	4.694	_	370	2,472	21,428
Fertilisers (excl. crude)		29,281	_	7	80	40,531
Plastics in non-primary forms	2,491	7.756	-	264	623	16,780
Other	3,328	16,719	_	7,459	15,155	61,494
Manufactured goods classified chiefly by material:	2,020			.,	,	,
Rubber manufactures n.e.c.	19,165	4,301	_	2,385	1.824	40,84
Cork and wood manufactures (excl. furniture)	83	1,362	_	2,360	21	33.27
Paper, paperboard and manufactures thereof	7,376	5,367	_	2,003	4,662	49,58
Textile yarn, fabrics and made-up articles	3,432	3,816		746	1,985	47,60
Non-metallic mineral manufactures n.e.c.	5,577	3,160		3,019	1,369	39,84
Iron and steel	63,292	3,029		1.650	1,490	82,472
Manufactures of metal n.e.c.	8,532	5,864		8,209	2,399	43,076
Other	372	701		1,131	940	11,660
Machinery and transport equipment:	512	701		1,151	740	11,000
Power generating machinery and equipment	15,364	13,614		2.057	2.782	44.40
Machinery specialised for particular industries	15,961	21,393	_	15,769	3,263	82,43
Machinery specialised for particular industries	7,509	3,211		948	1.871	19,278
General industrial machinery and equipment	1,509	5,211	-	540	1,071	19,27
and machine parts n.e.c.	30,188	20,380	_	15,521	5,650	121,005
Office machines and ADP machines	1,656	10,624		15,521	725	22,17
Telecommunications and sound recording, and	1,050	10,024	-	62	123	22,17.
reproducing apparatus and equipment	12,954	3,114		589	379	25,980
Electrical machinery, apparatus, appliances	12,934	5,114	-	569	519	20,900
and parts	23,982	12 255	_	4,721	3,972	89,400
Road vehicles	320,648	12,355 66,300	_	4,721	4,298	415,11
	520,048 150	,	_	8,790 955	4,298	14.82
Other transport equipment	150	8,748	-	935	47	14,82.
Miscellaneous manufactured articles:						
Professional, scientific and controlling instruments;	10 700	16 004		2 025	2 000	55 017
photographic and optical goods; clocks and watches	12,723	15,806	-	3,835	3,099	55,012
Other	5,703	17,825	-	5,427	22,776	105,473
Commodities and transactions n.e.c. (b)	3,235	16,202	56	1,693	4,310	41,893
Total	570,007	320,951	101,223	92,447	90,357	1,861,399

Overseas Imports to South Australia from Principal Countries, 1988–89 (\$'000)

(a) From all sources. (b) Includes items deemed confidential.

13.3 PRICES

The prices of a wide range of commodities and services are recorded at regular intervals by the Australian Bureau of Statistics for the purpose of compiling various price indexes.

Price indexes aim to measure the degree of change in price levels of specified quantities and qualities of a list of selected items. It is traditional to select a certain year, known as the base year, and to equate the average aggregate price (of the list of items) in that year to 100. Index numbers then represent the change in prices from that period.

When index numbers for different places are compared (*e.g.* Consumer Price Index, Capital Cities) the only legitimate comparison is the relative change *i.e.* that prices increased or decreased more in one place than another. The actual levels of prices may differ substantially.

RETAIL PRICE INDEXES

Consumer Price Index

The Consumer Price Index (CPI) measures price changes relating to the spending pattern of a large proportion of metropolitan employee households, where employee households have been defined as those households which obtain at least three–quarters of their total income from wages and salaries, excluding the top 10 per cent (in terms of income) of such households.

The CPI is a chain of linked indexes with significant changes in composition and weighting effected at regular intervals. During each period between links the weighting pattern remains unchanged. At times of linking the weighting pattern is brought up-to-date and the content of the index is reviewed.

The eleventh series of the index was introduced in March quarter 1987 with a weighting pattern derived from the Household Expenditure Survey 1984 and a reference base 1980–81 = 100.

There are 107 expenditure classes or groupings of like items within the index and each class has its own weight or measure of relative importance. In calculating the index, price changes for the various expenditure classes are combined using these weights.

The wide range of commodities and services in the CPI are arranged in eight major groups, with index numbers compiled for each of these groups as well as a total for all items.

Index numbers for Adelaide for these individual groups and for 'All Groups' are recorded in the next table.

Quarter	Food	Clothing	Housing	Household equipment and operation	Trans– portation	Tobacco and alcohol	Health and personal care	Recrea– tion Educa– tion (a)	All groups
1987:									
September	162.5	161.6	173.4	169.0	182.5	189.4	163.8	148.8	170.5
December	163.9	166.5	176.1	172.6	187.7	191.9	169.7	150.6	173.8
1988:									
March	165.0	166.7	175.2	174.0	192.0	195.5	177.1	155.7	176.3
June	170.0	173.1	175.8	176.8	191.4	200.6	180.8	158.6	179.2
September	176.0	174.5	180.0	180.1	195.2	205.2	182.8	158.3	182.7
December	177.4	180.3	185.0	182.5	199.6	206.9	182.7	161.6	185.7
1989:									
March	180.4	180.2	197.2	184.0	201.6	210.9	190.8	163.3	189.5
June	185.6	186.2	204.3	185.4	204.9	215.8	191.6	165.2	193.2
September	189.5	186.6	212.6	187.5	205.8	221.2	196.0	166.9	196.5
December .	188.4	188.7	219.0	191.1	210.5	223.5	201.7	170.1	199.6
1990:									
March	186.8	190.1	223.4	193.5	215.6	228.5	209.4	173.0	202.5
June	190.7	191.9	226.5	197.8	218.3	234.0	216.3	175.3	206.2

Consumer Price Index, Adelaide (Base Year: 1980–81 = 100.0)

(a) Base: March quarter 1982 = 100.0.

Household Expenditure Surveys

During 1988–89, the Australian Bureau of Statistics conducted a survey in order to obtain information about the expenditure patterns of private households (a household is defined as a group of people who live together and have common provision for food and other essentials of living – a household may contain more than one income unit). Expenditure in this survey relates to the value of goods and services as they were acquired (*e.g.* bankcard purchases are counted as expenditure at the time of acquisition, and not at the time the bankcard bill was paid). Household expenditure surveys were previously conducted in 1974–75, 1975–76 and 1984.

Particulars	Adelaide	South Australia
	Average weekly household expenditure (\$)	
Commodity or service:		
Current housing costs	69.14	62.75
Fuel and power	13.23	13.04
Food and non-alcoholic beverages	86.68	85.27
Alcoholic beverages	15.62	15.67
Tobacco	7.05	6.66
Clothing and footwear	28.54	25.88
Household furnishings and equipment	30.12	23.88
Household services and operation	20.95	20.65
Modical care and health expenses	20.93	20.03
Medical care and health expenses		
Transport	71.36	69.63
Recreation	54.36	54.13
Personal care	9.75	9.55
Miscellaneous commodities and services	34.84	35.88
Total commodity or service expenditure	462.07	448.13
Selected other payments:		
Income tax	108.19	100.51
Mortgage payments	6.42	5.40
Other capital housing costs	16.49	17.65
Superannuation and life insurance	15.99	15.15
Average weekly household income	588.08	557.80
Average weekly income per head (a)	229.72	217.04
Average weekly expenditure per head (a)	180.50	174.37
Average number of employed persons in household	1.2	1.2
Number of households in sample	662	815

Household Expenditure Survey, South Australia, 1988-89

(a) Per head estimates of average weekly expenditure or income are derived by dividing the weekly expenditure or income, of all household members, by the number of household members irrespective of age.

The collection of data relating to expenditure at the household level is important in providing information for use in improving the representativeness of the items and the weighting pattern used to compile the Consumer Price Index.

In 1988–89, the average weekly income of households in South Australia was \$557.80, while average weekly expenditure was \$448.13. Income tax payments accounted for a large part of the difference between income and expenditure as defined. The larger items of average weekly household expenditure in 1988–89 were food and non–alcoholic beverages (\$85.27), transport (\$69.63), current housing costs (\$62.57) and recreation (\$54.13).

To enable comparisons of expenditure patterns by income level, in the following table households have been ranked according to their income, and then divided into five groups of equal size, called quintiles.

Household Expenditure Survey : Household Expenditure and Characteristics
by Income Quintile Group, South Australia, 1988–89

	Weekly household gross income (\$)					
		Veekly hou	sehold gros	s income	(\$)	
	0-208	209- 368	369- 606	607- 887	888 or more	
Expenditure group and household characteristics	Lowest 20%	Second quintile	Third auintile	Fourth quintile		All house- holds
			· · · · · · · · · · · · · · · · · · ·	·		
AVERAGE WEEKLY HO	USEHOLD	EXPENDI	TURE (\$) (<i>b)</i>		
Commodity or service:						
Current housing costs (selected dwelling)	28.08	41.18	66.88	86.02	90.17	62.7
Fuel and power	7.99	11.09	12.72	14.55	18.63	13.0
Food and non-alcoholic beverages	47.92	65.68	80.81	106.63	123.92	85.2
Alcoholic beverages	4.16	7.55	12.84	19.04	34.21	15.6
Tobacco	4.22	5.97	7.41	6.83	8.74	6.6
Clothing and footwear	11.67	13.34	21.74	37.78	44.31	25.8
Household furnishings and equipment	13.34	14.38	28.24	31.72	55.07	28.7
Household services and operation	11.57	16.78	19.12	25.43	30.03	20.6
Medical care and health expenses	8.99	12.01	22.17	24.24	33.41	20.2
Transport	19.67	36.21	64.85	105.44	120.03	69.6
Recreation	20.22	22.00	45.11	60.62	120.78	54.1
Personal care	4.41	6.08	7.61	11.76	17.68	9.5
		11.00	29.65	51.03	76.17	35.8
Miscellaneous commodities and services	9.42	11.88	29.05	51.05		
	9.42	264.16	419.15	581.10	773.15	448.1
Miscellaneous commodities and services	191.64	264.16	419.15	581.10		448.1
Miscellaneous commodities and services	191.64	264.16	419.15	581.10		448.1
Miscellaneous commodities and services	191.64	264.16	419.15	581.10		
Miscellaneous commodities and services Total commodity and service expenditure PROPORTION OF TOTAL EXPENDITUR Commodity or service:	<i>191.64</i> RE ON COM 14.7 4.2	264.16 MODITIE 15.6 4.2	419.15 S AND SE 16.0 3.0	581.10 RVICES (Per cent)	14
Miscellaneous commodities and services Total commodity and service expenditure PROPORTION OF TOTAL EXPENDITUR Commodity or service: Current housing costs (selected dwellings)	<i>191.64</i> RE ON COM 14.7	264.16 MODITIE 15.6	419.15 S AND SE 16.0	581.10 RVICES (14.8	Per cent)	14
Miscellaneous commodities and services Total commodity and service expenditure PROPORTION OF TOTAL EXPENDITUR Commodity or service: Current housing costs (selected dwellings) Fuel and power	<i>191.64</i> RE ON COM 14.7 4.2	264.16 MODITIE 15.6 4.2	419.15 S AND SE 16.0 3.0	581.10 RVICES (14.8 2.5	Per cent) 11.7 2.4	14 2 19
Miscellaneous commodities and services Total commodity and service expenditure PROPORTION OF TOTAL EXPENDITUR Commodity or service: Current housing costs (selected dwellings) Fuel and power Food and non–alcoholic beverages	191.64 RE ON COM 14.7 4.2 25.0	264.16 MODITIE 15.6 4.2 24.9	419.15 S AND SE 16.0 3.0 19.3	581.10 RVICES (14.8 2.5 18.3	Per cent) 11.7 2.4 16.0	14 2 19 3
Miscellaneous commodities and services Total commodity and service expenditure PROPORTION OF TOTAL EXPENDITUR Commodity or service: Current housing costs (selected dwellings) Fuel and power Food and non-alcoholic beverages Alcoholic beverages	191.64 RE ON COM 14.7 4.2 25.0 2.2	264.16 MODITIE 15.6 4.2 24.9 2.9	419.15 S AND SE 16.0 3.0 19.3 3.1	581.10 RVICES (14.8 2.5 18.3 3.3	Per cent) 11.7 2.4 16.0 4.4	14 2 19 3 1
Miscellaneous commodities and services Total commodity and service expenditure PROPORTION OF TOTAL EXPENDITUR Commodity or service: Current housing costs (selected dwellings) Fuel and power Food and non–alcoholic beverages Alcoholic beverages Tobacco	191.64 RE ON COM 14.7 4.2 25.0 2.2 2.2	264.16 MODITIE 15.6 4.2 24.9 2.9 2.3	419.15 S AND SE 16.0 3.0 19.3 3.1 1.8	581.10 RVICES (14.8 2.5 18.3 3.3 1.2	Per cent) 11.7 2.4 16.0 4.4 1.1	14 2 19 3 1 5
Miscellaneous commodities and services Total commodity and service expenditure PROPORTION OF TOTAL EXPENDITUR Commodity or service: Current housing costs (selected dwellings) Fuel and power Food and non-alcoholic beverages Alcoholic beverages Tobacco Clothing and footwear	191.64 RE ON COM 14.7 4.2 25.0 2.2 2.2 6.1	264.16 MODITIE 15.6 4.2 24.9 2.9 2.9 2.3 5.0	419.15 S AND SE 16.0 3.0 19.3 3.1 1.8 5.2	581.10 RVICES (14.8 2.5 18.3 3.3 1.2 6.5	Per cent) 11.7 2.4 16.0 4.4 1.1 5.7	14 2 19 3 1 5 6
Miscellaneous commodities and services Total commodity and service expenditure PROPORTION OF TOTAL EXPENDITUR Commodity or service: Current housing costs (selected dwellings) Fuel and power Food and non–alcoholic beverages Alcoholic beverages Tobacco Clothing and footwear Household furnishings and equipment	191.64 RE ON COM 14.7 4.2 25.0 2.2 2.2 2.2 6.1 7.0	264.16 MODITIE 15.6 4.2 24.9 2.9 2.3 5.0 5.4	419.15 S AND SE 16.0 3.0 19.3 3.1 1.8 5.2 6.7	581.10 RVICES (14.8 2.5 18.3 3.3 1.2 6.5 5.5	Per cent) 11.7 2.4 16.0 4.4 1.1 5.7 7.1	14 2 19 3 1 5 6 4
Miscellaneous commodities and services Total commodity and service expenditure PROPORTION OF TOTAL EXPENDITUR Commodity or service: Current housing costs (selected dwellings) Fuel and power Food and non-alcoholic beverages Alcoholic beverages Tobacco Clothing and footwear Household furnishings and equipment Household services and operation	191.64 RE ON COM 14.7 4.2 25.0 2.2 2.2 6.1 7.0 6.0	264.16 MODITIE 15.6 4.2 24.9 2.9 2.3 5.0 5.4 6.4	419.15 S AND SE 16.0 3.0 19.3 3.1 1.8 5.2 6.7 4.6	581.10 RVICES (14.8 2.5 18.3 3.3 1.2 6.5 5.5 4.4	Per cent) 11.7 2.4 16.0 4.4 1.1 5.7 7.1 3.9	14 2 19 3 1 5 6 4 4
Miscellaneous commodities and services Total commodity and service expenditure PROPORTION OF TOTAL EXPENDITUR Commodity or service: Current housing costs (selected dwellings) Fuel and power Food and non-alcoholic beverages Alcoholic beverages Tobacco Clothing and footwear Household furnishings and equipment Household services and operation Medical care and health expenses	191.64 RE ON COM 14.7 4.2 25.0 2.2 2.2 6.1 7.0 6.0 6.0 4.7	264.16 MODITIE 15.6 4.2 24.9 2.9 2.3 5.0 5.0 5.0 5.4 6.4 4.5	419.15 S AND SE 16.0 3.0 19.3 3.1 1.8 5.2 6.7 4.6 5.3	581.10 RVICES (14.8 2.5 18.3 3.3 1.2 6.5 5.5 5.5 5.4 4.4 4.2	Per cent) 11.7 2.4 16.0 4.4 1.1 5.7 7.1 3.9 4.3	14 2 19 3 1 5 6 4 4 4 4 15
Miscellaneous commodities and services Total commodity and service expenditure PROPORTION OF TOTAL EXPENDITUR Commodity or service: Current housing costs (selected dwellings) Fuel and power Food and non–alcoholic beverages Alcoholic beverages Tobacco Clothing and footwear Household furnishings and equipment Household services and operation Transport Recreation	191.64 RE ON COM 14.7 4.2 25.0 2.2 2.2 6.1 7.0 6.0 6.0 4.7 10.3	264.16 MODITIE 15.6 4.2 24.9 2.3 5.0 5.4 6.4 4.5 13.7	419.15 S AND SE 16.0 3.0 19.3 3.1 1.8 5.2 6.7 4.6 5.3 15.5	581.10 RVICES (14.8 2.5 18.3 3.3 3.1.2 6.5 5.5 4.4 4.2 18.1	Per cent) 11.7 2.4 16.0 4.4 1.1 5.7 7.1 3.9 4.3 15.5	14 2 19 3 1 5 6 4 4 4 15 12
Miscellaneous commodities and services Total commodity and service expenditure PROPORTION OF TOTAL EXPENDITUR Commodity or service: Current housing costs (selected dwellings) Fuel and power Food and non-alcoholic beverages Food and non-alcoholic beverages Tobacco Clothing and footwear Household furnishings and equipment Household services and operation Medical care and health expenses Transport	191.64 RE ON COM 14.7 4.2 25.0 2.2 2.2 6.1 7.0 6.0 4.7 10.3 10.6	264.16 MODITIE 15.6 4.2 24.9 2.9 2.3 5.0 5.4 6.4 4.5 13.7 8.3	419.15 S AND SE 16.0 3.0 19.3 3.1 1.8 5.2 6.7 4.6 5.3 15.5 10.8	581.10 RVICES (14.8 2.5 18.3 3.3 1.2 6.5 5.5 5.5 4.4 4.2 18.1 10.4	Per cent) 11.7 2.4 16.0 4.4 1.1 5.7 7.1 3.9 4.3 15.5 15.6	14. 2. 19. 3. 1. 5. 6. 4. 4. 4. 15. 12.
Miscellaneous commodities and services Total commodity and service expenditure PROPORTION OF TOTAL EXPENDITUR Commodity or service: Current housing costs (selected dwellings) Fuel and power Food and non-alcoholic beverages Alcoholic beverages Clothing and footwear Household furnishings and equipment Household services and operation Medical care and health expenses Transport Personal care	191.64 RE ON COM 14.7 4.2 25.0 2.2 2.2 6.1 7.0 6.0 4.7 10.3 10.6 2.3	264.16 MODITIE 15.6 4.2 24.9 2.9 2.3 5.0 5.4 6.4 4.5 13.7 8.3 2.3	419.15 S AND SE 16.0 3.0 19.3 3.1 1.8 5.2 6.7 4.6 5.3 15.5 10.8 1.8	581.10 RVICES (14.8 2.5 18.3 3.3 1.2 6.5 5.5 5.5 5.5 5.5 4.4 4.2 18.1 10.4 2.0	Per cent) 11.7 2.4 16.0 4.4 1.1 5.7 7.1 3.9 4.3 15.5 15.6 2.3	14, 2, 19, 3, 1, 5, 6, 4, 4, 15, 12, 2, 8,
Miscellaneous commodities and services Total commodity and service expenditure PROPORTION OF TOTAL EXPENDITUR Commodity or service: Current housing costs (selected dwellings) Fuel and power Food and non–alcoholic beverages Alcoholic beverages Tobacco Clothing and footwear Household furnishings and equipment Household services and operation Medical care and health expenses Transport Recreation Personal care Miscellaneous commodities and services Total commodity and service expenditure	191.64 RE ON COM 14.7 4.2 25.0 2.2 2.2 6.1 7.0 6.0 4.7 10.3 10.6 2.3 4.9	264.16 MODITIE 15.6 4.2 24.9 2.3 5.0 5.4 6.4 4.5 13.7 8.3 2.3 4.5	419.15 S AND SE 16.0 3.0 19.3 3.1 1.8 5.2 6.7 4.6 5.3 15.5 10.8 1.8 7.1	581.10 RVICES (14.8 2.5 18.3 3.3 1.2 6.5 5.5 4.4 4.2 18.1 10.4 2.0 8.8 100.0	Per cent) 11.7 2.4 16.0 4.4 1.1 5.7 7.1 3.9 4.3 15.5 15.6 2.3 9.9	14, 2, 19, 3, 1, 5, 6, 4, 4, 4, 15, 12, 2, 2, 8, 8, 100,
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Miscellaneous commodities and services Total commodity and service expenditure PROPORTION OF TOTAL EXPENDITUR Commodity or service: Current housing costs (selected dwellings) Fuel and power Food and non-alcoholic beverages Alcoholic beverages Tobacco Clothing and footwear Household services and operation Medical care and health expenses Transport Recreation Personal care Miscellaneous commodities and services	191.64 RE ON COM 14.7 4.2 25.0 2.2 2.2 6.1 7.0 6.0 4.7 10.3 10.6 2.3 4.9 100.0 75.94	264.16 MODITIE 15.6 4.2 24.9 2.3 5.0 5.4 6.4 4.5 13.7 8.3 2.3 4.5 100.0 270.48	419.15 S AND SE 16.0 3.0 19.3 3.1 1.8 5.2 6.7 4.6 5.3 5.5 10.8 1.8 7.1 100.0 479.55	581.10 RVICES (14.8 2.5 18.3 3.3 1.2 6.5 5.5 4.4 4.2 18.1 10.4 2.0 8.8 100.0 738.77	Per cent) 11.7 2.4 16.0 4.4 1.1 5.7 7.1 3.9 4.3 15.5 15.6 2.3 9.9 100.0 1,203.56	448.1 14. 2. 19. 3. 1. 5. 6. 4. 4. 4. 15. 12. 2. 8. 100. 557.8 2.5 4
Miscellaneous commodities and services Total commodity and service expenditure PROPORTION OF TOTAL EXPENDITUR Commodity or service: Current housing costs (selected dwellings) Fuel and power Food and non–alcoholic beverages Alcoholic beverages Tobacco Clothing and footwear Household furnishings and equipment Household services and operation Medical care and health expenses Transport Recreation Personal care Miscellaneous commodities and services Total commodity and service expenditure Average weekly household income (\$) Average number of persons per household	191.64 RE ON COM 14.7 4.2 25.0 2.2 2.2 6.1 7.0 6.0 4.7 10.3 10.6 2.3 4.9 100.0 75.94 1.51	264.16 MODITIE 15.6 4.2 24.9 2.3 5.0 5.4 6.4 4.5 13.7 8.3 2.3 4.5 100.0 270.48 2.22	419.15 S AND SE 16.0 3.0 19.3 3.1 1.8 5.2 6.7 4.6 5.3 5.5 10.8 1.8 7.1 100.0 479.55 2.78	581.10 RVICES (14.8 2.5 18.3 3.3 1.2 6.5 5.5 4.4 4.2 18.1 10.4 2.0 8.8 100.0 738.77 3.05	Per cent) 11.7 2.4 16.0 4.4 1.1 5.7 7.1 3.9 4.3 15.5 15.6 2.3 9.9 100.0 1,203.56 3.25	14. 2. 19. 3. 1. 5. 6. 4. 4. 15. 12. 2. 8. 100. 557.8 2.5

Further details on methodology and definitions may be obtained from the information paper 1988–89 Household Expenditure Survey (6527.0).

Detailed information on the Household Expenditure Survey can be obtained from the bulletin 1988–89 Household Expenditure Survey, Summary of Results (6530.0).

OTHER PRICE INDEXES

The following indexes covering non-retail sectors of the economy are published by the Australian Statistician:

Export Price Index, Import Price Index, Price Index of Copper Materials, Price Index of Materials Used in Manufacturing Industry, Price Indexes of Materials Used in Coal Mining, Price Index of Articles Produced by Manufacturing Industry, Price Index of Materials Used in House Building, and Price Index of Materials Used in Building Other than House Building. House Price Indexes

Separate State figures are published for the last three indexes, and these are further explained below.

Price Index of Materials Used in Building Other than House Building

This index measures changes in prices of selected materials used in the construction of buildings other than houses and low-rise flats. It is a fixed weights index, the composition of which is in accordance with the materials usage in building projects selected as representative for the purpose. Such usage was derived from reported values of each material used in construction of buildings other than houses commenced in the six State capital cities in the three years ended June 1977. The reference base of the index is the year 1979–80 = 100.0.

Prices are collected at the mid-point of the month to which the index refers, or as near as practicable. They relate to specified standards of each commodity and are obtained in all State capital cities from representative suppliers of materials used in building.

Index numbers for separate groups of materials and the 'All Groups' index for Adelaide are shown in the following table.

Group	1987–88	1988-89	1989-90p
Structural timber	210.3	227.4	261.7
Clay bricks	224.6	237.0	252.5
Ready mixed concrete	187.8	210.4	219.8
Pre cast concrete products	221.5	238.2	266.0
Galvanised steel decking, cladding etc.	195.2	206.3	227.6
Structural steel	203.4	219.3	236.2
Reinforcing steel bar, fabric and mesh	180.6	194.5	212.1
Aluminium windows	227.2	249.5	262.5
Steel windows, doors, louvres etc.	218.9	234.0	247.3
Builders hardware	231.3	254.0	278.1
Sand, aggregate and filling	188.1	195.5	206.0
Carpet	196.0	214.0	218.8
Paint	217.5	237.9	250.8
Non-ferrous pipes	184.6	210.0	212.7
Special purpose index (a)	202.6	219.7	235.6
All electrical materials	210.4	222.9	244.7
All mechanical services	211.7	224.3	240.3
All plumbing materials	204.4	223.4	241.5
All groups	204.7	220.7	237.1

Price Index of Materials Used in Building Other than House Building, Adelaide (Base of each Index: 1979–80 = 100.0)

(a) All groups excluding electrical installation materials and mechanical services components.

Further information on the method of compiling the index may be found in the publication *Price Index of Materials Used in Building Other than House Building (6407.0).*

Price Index of Materials Used in House Building

This index measures changes in prices of selected materials used in the construction of houses. It is a fixed weights index, the composition of which is in accordance with the usage of materials in actual houses which were selected as representative for the purpose. The index does not purport to represent buildings of any kind other than houses.

Price Index of Materials Used in House Building, Adelaide (Base Year: 1985–86 = 100.0)

Material	1986-87	1987–88	1988-89	1989-90p
All groups	105.1	110.8	120.9	129.7

House Price Indexes

These indexes reflect price movements for both established houses and project homes. The house price indexes are compiled by the ABS for use in calculating the Mortgage Interest Charges component of the CPI, however they are published separately because of the widespread interest in information specifically relating to housing.

Established houses are defined as detached residential dwellings on their own block of land where the houses can be new or secondhand. Price changes therefore relate to the house and land as a package.

Project homes are houses that are built on a client's block of land and price changes only apply to the dwelling.

In Adelaide established house prices rose 9.9% in the year to June 1990, while project homes rose 3.4% in the same period.

COMMODITY PRICES

Retail Prices of Food

The next table shows the average retail prices of selected food items in Adelaide during recent years. Items included are those which are considered identical or sufficiently comparable from place to place to warrant publication of comparative prices.

Average Retail Prices of Selected Food and Grocery Items, Adelaide December Quarter (Cents)

(Cents)								
Item	Unit	1985	1986	1987	1988	1989		
Milk, bottled, delivered	2x600 mL	88	92	98	(a)77	80		
Cheese, processed, sliced, wrapped	500 g	212	221	242	252	278		
Butter	500 g	154	161	164	164	159		
Bread, white loaf, sliced, supermarket sales	680 g	91	91	94	101	106		
Biscuits, dry	250 g	89	96	94	109	107		
Breakfast cereal, corn based	500 g	153	168	175	196	206		
Flour, self-raising	2 kg	160	167	178	188	200		
RiceBeef:	l kg	77	94	94	92	102		
Rib (without bone)	l kg	517	513	515	563	579		
Rump steak	l kg	847	877	894	973	995		
Comed silverside	l kg	504	534	554	573	620		
Sausages	l kg	294	299	314	331	339		
Lamb:	1 116	251	277	514	551	557		
Leg	1 kg	340	394	439	450	473		
Loin chops	l kg	397	504	547	572	612		
Forequarter chops	l kg	298	372	411	422	432		
Pork:		200	0.2			100		
Leg	1 kg	514	544	521	551	592		
Chops	l kg	603	636	644	663	719		
Chicken, frozen	1 kg	264	296	309	309	303		
Bacon, middle rashers, pre-packed	250 g	216	234	241	246	269		
Salmon, pink	220 g	179	(b)209	229	309	296		
Potatoes	1 kg	70	95	80	115	180		
1000000	1 16	70	95	80	115	100		

Average Retail Prices of Selected Food and Grocery Items, Adelaide December Quarter (continued)

(Cents)

ltem	Unit	1985	1986	1987	1988	1989
Onions	1 kg	64	111	104	235	140
Peaches, canned	825 g	121	132	141	156	165
Peas, frozen	500 g	88	88	95	112	134
Eggs (55 grams)	doz.	195	204	188	203	225
Sugar	2 kg	132	144	155	162	201
Теа	250 g	149	139	146	141	135
Coffee, instant, jar	150 g	399	499	449	455	434
Tomato sauce	600 mL	102	106	119	124	132
Margarine, poly-unsaturated	500 g	125	127	121	135	132

(a) 1 litre carton, supermarket sales. (b) 210g.

Other Commodity Prices

South Australian prices of agricultural products are shown in the table on pages 188–9, and separate details of wheat, barley, wool and livestock are given under the appropriate headings in Part 10.1.

Further References

Additional information may be found in the following ABS publications:

6401.0 Consumer Price Index, Australia

6407.0 Price Index of Materials Used in Building other than House Building, Australia

- 6408.0 Price Index of Materials Used in House Building, Australia
- 6416.0 House Price Indexes, Australia
- 6440.0 A Guide to the Consumer Price Index, Australia
- 6527.0 1988–89 Household Expenditure Survey, Australia
- 6530.0 1988–89 Household Expenditure Survey, Australia: Summary of Results

TRANSPORT AND COMMUNICATION

14.1 LAND TRANSPORT

ROADS

Roads in South Australia are officially classified as national highways, arterial roads, and local roads; these classifications have been determined by the Commonwealth Government in consultation with the South Australian Government.

The Department of Road Transport is the road authority for South Australia. Its key objective is to serve the transport needs of the community by developing and managing the road network and its use as an integrated part of the transport system. Responsibility for the construction and maintenance of roads is shared between the Department and the various Local Government Authorities. The Department is responsible for the construction, reconstruction, maintenance and improvement of the whole national highway network in the State (2,460 kilometres), nearly all of the arterial road network (9,761 kilometres) and 12.7 per cent (10,540 kilometres) of the local road network. Most of the local roads maintained by the Department are located in the unincorporated areas of the State.

The following table shows the length of roads according to class of road and type of surface at 30 June 1990.

	Type o			
Class of road	Sealed	Unsealed	Total	
National highways (a)	2,460	_	2,460	
Rural	8,338 953	509	8,847 953	
Local roads (c): Rural	6,135	69,578	75,713	
Urban	6,239	958	7,197	
Total	24,125	71,045	95,170	

Length of Roads : Type of Surface, South Australia, 30 June 1990 (Kilometres)

(a) Roads declared by the Commonwealth Minister for Transport to be national highways under the provisions of the Australian Centennial Roads Development Act 1988 (Cwlth). They are selected roads linking Adelaide with other State capital cities including Darwin and Canberra.

(b) Roads declared by the Commonwealth Minister for Transport to be arterial roads under the provisions of the Australian Centennial Roads Development Act 1988 (Cwlth).

(c) Roads not included in above categories.

The Department of Road Transport maintains approximately 1,300 major bridges and culverts throughout the State. The River Murray in South Australia is bridged at five locations (four of which are on two interstate routes) and the Department provides free and continuous ferry services across the river at thirteen places. A free ferry service also operates across Cooper Creek, on the Birdsville Track in the far north of the State, when the creek is in flood.

Road Finance

For South Australia, the main sources of funds for road works during 1989-90 were:

- (a) the net proceeds of fees imposed by the State Government for the registration of motor vehicles and the licensing of drivers;
- (b) an allocation from the collection of motor fuel licence fees levied pursuant to the *Business* Franchise (Petroleum Products) Act 1979;
- (c) Commonwealth Government grants to the States and Territories pursuant to the Australian Centennial Roads Development Act 1988 (Cwlth);
- (d) Commonwealth Government grants to the States and Territories pursuant to the *Interstate Road Transport Act 1985* (Cwlth) and the *Interstate Road Transport Charges Act 1985* (Cwlth);
- (e) advances for capital purposes from the State Consolidated Account; and
- (f) property rates and other levies imposed by municipal and district councils.

RAILWAYS

Railway systems in South Australia are operated by both the Commonwealth and South Australian Governments. Management of the Australian National railways is vested in the Australian National Railways Commission (ANRC).

In August 1975 the State Government approved the transfer of non-urban railways to the Australian National Railways Commission, although the actual transfer did not become operative until 1 March 1978.

At 30 June 1990 ANRC operated 4,904 route kilometres of country rail track in South Australia. This included part of the 1,435 mm gauge Trans–Australia Railway from Kalgoorlie to Broken Hill; the 1,435 mm gauge Tarcoola to Alice Springs line; and other 1,600 mm and 1,067 mm gauge lines, including the isolated Eyre Peninsula system (1,067 mm gauge).

At 30 June 1990 the State Transport Authority (STA) operated 125 route kilometres of metropolitan (1,600 mm gauge) rail track in South Australia.

TRANSPORT CONTROL AND OPERATIONS

STATE TRANSPORT AUTHORITY

The State Transport Authority is constituted as a body corporate under the *State Transport* Authority Act 1974.

The main role of the State Transport Authority set out in its corporate charter is:

- (a) to provide passenger transport services for the people of the Adelaide Metropolitan area, through an integrated network of bus, tram and rail routes which offers reasonable access, with emphasis on the large numbers of people who travel regularly and have similar destinations; and
- (b) in accordance with Government policy and with the resources available, the Authority will provide a level and standard of service, consistent with demand, in the most cost effective manner. It will actively plan and develop services and facilities required to serve the needs of its market.

From July 1975, by virtue of the Railways (Transfer Agreement) Act 1975 and the Railways Agreement (South Australia) Act 1975 (Cwlth), the Australian National Railways Commission acquired the non-metropolitan portion of the South Australian Railways, *i.e.* the country and

interstate passenger services and all freight services, subject to a number of conditions and controls exercised by the State. Facilities within the metropolitan area concerned with the handling of freight and the servicing and repair of rollingstock also became the property of the Commission.

The STA railway system extends generally from Adelaide to the extremities of the metropolitan area at Outer Harbor, Gawler Central, Belair and Noarlunga Centre and includes interconnecting loops and branch lines. Under the terms of the Act the Commission and the Authority have the right to run their rollingstock over the railways of each other.

Item	1985–86	198687	1987–88	198889	1989–90
	'000				
Passenger journeys (a) Traffic vehicle kilometres run:	67,127	60,950	58,240	53,930	54,220
Bus	38,899	39,562	39,024	37,753	38,642
Tram	778	863	821	751	713
Rail	9,083	8,696	7,039	7,024	7,160
	NUMBER				
Total route kilometres:					
Bus	1.021.9	1.022.1	1.020.1	1.020.1	1.049.1
Tram	11.38	11.38	11.38	10.80	10.80
Rail	152.77	148.97	127.39	128.20	126.20
Vehicle fleet at 30 June:					
Buses (b)	745	736	699	701	740
Tramcars	20	19	21	21	21
Rail cars	155	143	145	131	131
Number of employees at 30 June (c)	3,680	3,715	3,596	3,374	3,458

State Transport Authority, Selected Non–financial Details

(a) From 1987-88 initial passenger boardings. (b) Includes charter and tour buses. (c) Includes staff made available by Australian National.

ROAD PASSENGER TRANSPORT CONTROL

Private Services

Legislation covering the regulation of private bus operations in South Australia is included in Part IVB of the *Road Traffic Act 1961*, and is enforced by the Department of Transport.

Private operations are regulated *via* a licensing system which includes the issuing of licences authorising route service, tour and charter, community bus, school children and other special categories. Route service licences have a currency of five years, with other licences having tenures of twelve months.

Country Town Bus Services

Commencing in May 1975, the State Government offered financial assistance through local government to urban bus services outside the metropolitan area. Under the arrangement, financial responsibility for the provision of bus services is vested in the local government authority, but the State Government contributes two-thirds of the operating loss.

Councils have the option of acquiring local bus fleets or arranging for a local bus proprietor to provide the bus service under contract. In the case of the contract system, the fare revenue is retained by the local government authority and the contractor is paid an agreed sum per kilometre to operate buses on routes and within specified timetables determined by a three–person management committee. The committee consists of an elected Council representative, the chief executive officer or his deputy, and a representative of the Minister of Transport.

Contract services are operated in Port Pirie, Port Augusta, Port Lincoln, Mount Gambier and Murray Bridge. In Whyalla the bus service is municipally owned and operated.

Interstate and Country Services

Regular interstate coach services and special charters and tours operate to all mainland States. In addition, a network of bus route services operates on radial routes from Adelaide to all parts of the State. These services are provided by thirteen private companies, under licences issued by the Office of Transport Policy and Planning. Most are operated from two adjacent terminals in Franklin Street, Adelaide.

Intrastate passenger route services on all routes are controlled by the Office of Transport Policy and Planning. Generally, pick-up and set-down rights on the routes are non-competitive with other route service operations. The Office of Transport Policy and Planning also regulates tour, charter and school children runs etc. within the State.

TAXI-CABS

The *Metropolitan Taxi–Cab Act 1956*, administered by the Metropolitan Taxi–Cab Board, is the governing legislation providing for the control of taxi–cabs and hire cars within the Metropolitan Planning Area as defined by Section 5(1) of the *Planning and Development Act 1966*, together with the whole of the Municipality of Gawler and from 2 September 1982 the district council area of Mount Barker. The Board is responsible for the granting of licences or permits to operate taxi–cabs and the charging of permit fees.

Licences issued at 30 June 1990 include taxi–cabs 878; hire cars 55; and funeral cars 11. Vehicle drivers licences current totalled 3,443.

In areas not under the control of the Metropolitan Taxi–Cab Board, taxi licences are issued by local government authorities under the provisions of the Local Government Act.

MOTOR VEHICLES

Control of Road Traffic

Legislation covering the registration of motor vehicles, licensing of drivers and third party insurance in South Australia is contained in the *Motor Vehicles Act 1959*.

The present legislation for the control of road traffic in South Australia is set out in the *Road Traffic Act 1961* and the *Motor Vehicles Act 1959*.

New Motor Vehicle Registrations

New motor vehicle registrations during the financial years 1985–86 to 1989–90 are shown in the following table.

	-	-			
Type of vehicle	1985–86	1986–87	1987–88	1988-89	1989–90
Cars and station wagons	40,840	29,788	29,915	31,921	35,211
Utilities	3,503	2,438	2,214	2,649	3,197
Panel vans	2,584	1,491	1,223	1,462	1,781
Trucks	3.029	2.073	1,909	2,294	2.411
Other truck type vehicles (b)	250	197	221	247	201
Buses	254	231	208	162	216
Motor cycles	3,781	1,999	1,890	1,363	1,704
Total	54,241	38,217	37,580	40,098	44,721

New Motor Vehicle Registrations, South Australia^(a)

(a) Includes Commonwealth Government owned vehicles except defence services vehicles.

(b) Includes truck type vehicles not designed for freight carrying, e.g. tow trucks, fire engines, ambulances and hearses.

Registration of Motor Vehicles

Under the provisions of the *Motor Vehicles Act 1959* all motor vehicles, unless specifically exempted, must be registered with the Registrar of Motor Vehicles at the Motor Registration Division of the Department of Transport before being driven on any road.

Type of vehicle	1986	1987	1988	1989	1990
	'000				
Cars	543.0	543.8	552.1	562.3	575.5
Station wagons	108.6	110.4	114.0	118.0	123.4
Commercial vehicles	148.2	148.0	149.1	152.1	154.9
Motor cycles	36.1	32.7	31.1	30.1	29.7
Total on register	835.8	834.9	846.3	862.5	883.5
	PERSONS				
Population per vehicle	1.65	1.66	1.66	1.65	p1.63
	'000'				
Tractors, plant, equipment	7.2	7.1	7.0	7.0	6.8
Trailers and caravans	184.1	188.9	195.4	202.7	210.6
Traders plates	3.2	3.2	3.2	3.2	3.2
	5.2	5.2	3.2	5.2	3.2

Motor Vehicles on Register, South Australia^(a), at 30 June

(a) Includes Commonwealth Government owned vehicles except defence services vehicles.

Drivers Licences

From 1 July 1989, the following classes of drivers licences have applied in South Australia:

Class 1	Any motor car, and any other motor vehicle, the Gross Vehicle Mass (G.V.M.) of which does not exceed 4.5 tonnes (except a motor omnibus capable of carrying more than 12 adult persons (including the driver), an articulated motor vehicle, a heavy trailer combination or a motor cycle).
Class 2A	Any motor vehicle the G.V.M. of which does not exceed 15 tonnes (except a motor omnibus capable of carrying more than 12 adult persons (including the driver), an articulated motor vehicle, a heavy trailer combination, or a motor cycle).
Class 2	Any motor vehicle (except a motor omnibus capable of carrying more than 12 adult persons (including the driver), an articulated motor vehicle, a heavy trailer combination, or a motor cycle).
Class 3A	Any motor vehicle (except a motor omnibus capable of carrying more than 12 adult persons (including driver), an articulated vehicle the gross combination mass limit of which exceeds 24 tonnes, a heavy trailer combination the hauling unit of which has a gross combination mass limit exceeding 24 tonnes or a motor cycle).
Class 3	Any motor vehicle (except a motor omnibus capable of carrying more than 12 adult persons (including the driver), a B Double, a Road Train or a motor cycle).
Class 3R	Any motor vehicle (except a motor omnibus capable of carrying more than 12 persons (including the driver) or a motor cycle).
Class 4A	Any motor cycle which has an engine capacity not exceeding 250 c.c.

Class 4	Any motor cycle.
Class 5A	Any motor omnibus with a seating capacity not exceeding 30 adult persons including the driver.
Class 5B	Any motor omnibus the G.V.M. of which does not exceed 15 tonnes.
Class 5	Any motor omnibus.
Class 6	Any self-propelled wheelchair.

From 30 October 1989 the minimum age for the issue of a probationary driver's licence was raised from 16 years to 16 years 6 months. The minimum age for the issue of a learner's permit remained at 16 years. Applicants for a probationary driver's licence, who are aged under 18 years, are subject to probationary conditions until age 19, or in other cases, for a period of twelve months.

Drivers and riders licences current at 30 June 1990 totalled 908,479. The number in force first exceeded 100,000 in 1931, exceeded 300,000 by 1957, 500,000 by 1969, and had exceeded 800,000 by 1984.

Third Party (Bodily Injury) Insurance

Under the *Motor Vehicles Act 1959* every motor vehicle driven on a road, unless specifically exempted, must be covered by an insurance policy. This policy insures the owner of the motor vehicle and any other person who at any time drives the vehicle in respect of all liability that may be incurred in respect of the death of, or bodily injury to, any person caused by, or arising out of the use of the vehicle in any part of Australia.

A person claiming damages in respect of death or bodily injury caused by negligence in the use of an uninsured motor vehicle on a road may bring an action for the recovery of those damages against the nominal defendant appointed by the Minister of Transport and published in Government Gazette. Payments made by the nominal defendant are recoverable from the driver of the motor vehicle or any person liable for the negligence of that driver.

Motor Vehicle Usage

A survey was conducted throughout Australia in late 1988 for the purpose of gathering information on the usage of motor vehicles. The period covered by the survey was for the twelve months ended 30 September 1988. Previous surveys were conducted in 1963, 1971, 1976, 1979, 1982 and 1985.

The survey population (motor vehicles on the register), from which the sample was drawn, was extracted from the registration systems of the Commonwealth Government and State motor vehicle registration authorities. It was then stratified according to body type and characteristics such as tare weight and age of vehicle.

Of the vehicles selected for the 1988 sample, 75 per cent were trucks, utilities, vans without rear seats and panel vans; 25 per cent cars, station wagons, vans with rear seats and motor cycles. The emphasis on 'commercial' vehicles was necessary because of the diverse usage characteristics of commercial vehicles and because a major interest of users is in road freight transport.

Additional details relating to South Australia and Australia are shown in the bulletins Survey of Motor Vehicle Usage, Twelve months Ended 30 September 1988 (9208.0) and Survey of Motor Vehicle Usage, Commercial Vehicle Usage, Australia, Twelve Months Ended 30 September 1988 (9209.0).

	Average distance t	Average annual distance travelled for business purposes		
Type of vehicle	'000km	SE%	'000km	SE%
Cars and station wagons	14.4	(2)	12.2	(5)
Motor cycles	5.2	(7)	3.5	(22)
Utilities and panel vans	18.1	(5)	18.3	(6)
Rigid trucks	15.3	(3)	15.1	(3)
Articulated trucks	83.7	(3)	83.6	(3)
Non-freight carrying trucks	7.7	(9)	7.6	(10)
Buses	44.7	(4)	44.4	(4)
Total	14.9	(2)	15.4	(3)

Motor Vehicle Usage : Average Annual Distance Travelled, South Australia, 1988

Motor Vehicle Usage : Average Rate of Fuel Consumption, South Australia, 1988

	Petrol		Diesel or distillate		LPG or dual fuel	
Type of vehicle	Litres per 100 km	SE%	Litres per 100 km	SE%	Litres per 100 km	SE%
Cars and station wagons	11.8	(0)	12.7	(4)	16.3	(3)
Motor cycles	5.9	(4)		(-)		(-)
Utilities and panel vans	13.4	(3)	12.1	(3)	16.8	(12)
Rigid trucks	21.5	(3)	28.3	(2)	30.9	(15)
Articulated trucks	46.4	(4)	52.0	(1)		(–)
Non freight-carrying trucks	28.0	(9)	34.8	(7)	40.0	(0)
Buses	21.0	(13)	36.1	(1)	41.0	(15)
Total	12.1	(0)	30.2	(3)	17.3	(4)

Census of Motor Vehicles

A census of motor vehicles on the register in Australia at 30 September 1988 was completed during 1989. The following table classifies motor vehicles on register by type of vehicle and year of manufacture at 30 September 1988 for South Australia.

Motor Vehicles on Register : Type of Vehicle and Year of Manufacture South Australia, 30 September 1988(*a*) ('000)

	Type of vehicle						
Year of manufacture	Cars and station wagons	Utilities and panel vans	Rigid trucks	Articu– lated trucks	Non freight carrying trucks	Buses	Total (a)
Before 1971	70.4	8.9	9.7	0.4	1.2	0.3	90.9
1971–1974	97.9	11.8	6.3	0.6	1.4	0.3	118.3
1975–1978	148.9	19.5	9.8	1.1	2.0	0.6	181.9
1979–1982	154.6	20.8	10.0	1.1	1.1	0.7	188.3
1983	38.9	5.6	2.2	0.2	0.3	0.2	47.4
1984	43.9	6.8	2.8	0.2	0.4	0.2	54.3
1985	47.3	6.9	3.4	0.2	0.4	0.2	58.4
1986	31.7	4.5	2.1	0.2	0.3	0.2	38.9
1987	28.6	3.2	1.5	0.1	0.2	0.2	33.8
1988	19.2	2.1	1.0	0.1	0.1	0.1	22.5
Total	681.5	90.0	48.7	4.1	7.4	3.0	834.7

(a) Excludes motor cycles (34,371).

ROAD ACCIDENT PREVENTION

The Division of Road Safety of the Department of Transport was established in 1981 for the purpose of developing, coordinating and implementing road safety policy embracing education, enforcement and legislation, traffic regulation and vehicle design and safety.

There are a number of other Government organisations involved in the promotion of road safety in South Australia including the Road Traffic Board, the Motor Registration Division, and the Police, Highways and Education departments.

The primary role of the Division is to achieve greater coordination, consolidation and integration of the road safety effort in South Australia. Its administrative responsibilities presently extend to the promotion of road safety through media and publicity and instructional activity, centred on its Road Safety Centre at Oaklands Park and road safety policy and research.

By virtue of its road safety role the Division of Road Safety undertakes the majority of road safety research, investigation and evaluation in South Australia.

Road Traffic Accidents

Statistics of road traffic accidents are compiled from reports made to members of the South Australian Police Department by persons involved in such accidents.

For the purpose of the following statistics, only those casualty accidents which occurred because of the presence of a moving vehicle on a road or other public thoroughfare (e.g. public car park, beach) and which also involved a fatality or the hospitalisation of injured persons have been included. Thus the casualty statistics refer to:

- (a) the death of any person within a period of thirty days of the accident; or
- (b) bodily injury to any person to an extent requiring hospitalisation.

The following table shows summary details of road traffic accidents for the years 1985 to 1989. During 1989 the total number of road traffic accidents decreased by 0.4 per cent (from 2,140 in 1988 to 2,132 in 1989). The number of accidents which resulted in fatalities decreased by 2.4 per cent (from 206 in 1988 to 201 in 1989).

						te per 100,0 hicles on reg			late per 100 mean popu	
Year	Total acci dents(b)	Fatal acci– dents	Persons killed	Persons injured	Total acci– dents	Persons killed	Persons injured	Total acci– dents	Persons killed	Persons injured
1985	2,672	240	269	3,171	327	33	388	195	20	231
1986	2,569	259	288	2,968	307	34	355	186	21	215
1987	2,406	230	256	2,912	288	31	349	173	18	209
1988	2,140	206	223	2,590	253	26	306	152	16	184
1989	2,132	201	222	2,492	247	23	289	150	14	175

Road Traffic Accidents, South Australia

(a) 'Motor vehicles on register' is the number recorded at 30 June; includes Commonwealth Government owned vehicles except defence services vehicles; excludes tractors, trailers, plant, equipment and caravans.

(b) Includes only those accidents involving a fatality or the hospitalisation of injured persons.

Drivers (including motor cyclists) under twenty-one years of age, representing 8 per cent of licence holders at 30 June 1989, accounted for 24 per cent of drivers killed and 29 per cent of drivers injured during 1988. For drivers aged twenty-one to twenty-nine years deaths were 25 per cent and injuries 23 per cent while their representation in the driving population was 21 per cent. Pedestrians sixty years and over accounted for 13 per cent of pedestrians injured and 40 per cent of pedestrians killed.

In the following table, the types of road users killed and injured are shown according to age groups for 1989.

Age group of casualty (years)	Drivers of motor vehicles	Motor cyclists	Pedal cyclists	Pass– engers (a)	Pedes– trians	All other	Total
		PERSON	NS KILLED				
Under 5	- 10 15 8 18 9 7 15 1	- 2 8 10 3 1 - -	- 2 2 - 1 2 2 4 -	1 9 9 4 8 6 1 2 6 4	1 3 5 6 2 6 1 3 19 -		2 4 15 34 35 21 34 14 14 44 5
Total	84	27	13	51	47		222
		PERSON	S INJURED				
Under 5	- 23 209 168 96 149 95 69 126 137		1 61 15 14 12 17 8 6 6 11	20 4 105 118 70 36 48 32 25 55 204	7 10 45 29 29 12 23 11 11 32 35	- - - - 1 1	27 15 243 427 364 207 286 162 118 221 422
Total	1,072	305	151	718	244	2	2,492

Road Traffic Accidents : Age Groups of Casualties, South Australia, 1989

(a) Passengers include pillion motor cyclists.

The following table shows casualties by type of road user in each of the six years to 1989.

Year	Drivers of motor vehicles	Motor cyclists	Pedal cyclists	Pass– engers	Pedes– trians	All other	Total
	s	PERSON	18 KILLED				
1984	80	25	8	77	42		232
1985	104	44	6	76	38	1	269
1986	118	38	10	72	50		288
1987	103	39	10	67	37	-	256
1988	92	28	4	53	43	3	223
1989	84	27	13	51	47	-	222
		PERSON	S INJURED)			
1984	1,162	545	173	955	262	3	3,100
1985	1,266	527	168	948	260	2	3,171
1986	1,177	489	148	863	284	7	2,968
1987	1,175	355	184	915	281	2	2,912
1988	1,079	286	170	822	229	4	2,590
1989	1,072	305	151	718	244	2	2,492

Road Traffic Accidents : Casualties, South Australia

14.2 SEA TRANSPORT

HARBOURS

The South Australian commercial ports system comprises the following ports:

(a) State commercial deep sea ports

Port Adelaide	Port Pirie
Port Bonython	Thevenard
Port Giles	Wallaroo
Port Lincoln	
Drivetaly exercised commercial deep see ports	

(b) Privately operated commercial deep sea ports

WhyallaPort StanvacBallast HeadProper BayArdrossanProper Bay

The Department of Marine and Harbors also maintains jetties and wharves for promenade and fishing purposes at many other minor ports no longer used by commercial vessels.

The control of all harbours (including the River Murray) is vested in the Minister of Marine; he is responsible for the control of navigation within harbours and for all harbour facilities including lights, buoys, beacons, bulk loading plants and fishing boat accommodation, and in addition for the control of the competency of masters and others in charge of intrastate vessels. Relevant legislation administered by the Department of Marine and Harbors includes the *Harbors Act 1936*, the *Marine Act 1936*, the *Prevention of Pollution of Waters by Oil Act 1961* and the *Boating Act 1974*.

In 1989–90 the State–owned ports handled 11,354,000 tonnes of cargo or approximately 58.7 per cent of the total tonnage of 19,328,000 tonnes passing through all the ports in South Australia.

The Department of Marine and Harbors is responsible for the provision of a shipping service between Port Adelaide and Kangaroo Island/Port Lincoln.

SHIPPING

Control of Shipping

The Commonwealth Parliament is empowered under the Constitution to make laws in respect of trade and commerce with other countries and among the States.

Navigation and shipping are regulated under the Navigation Act 1912 (Cwlth) which applies to ships registered in Australia (except those engaged solely in the domestic trade of any one State) and other British ships whose first port of clearance and whose port of destination are within Australia. Other shipping Acts under the trade and commerce power are the Sea–Carriage of Goods Act 1924 (Cwlth), the Seamen's Compensation Act 1911 (Cwlth), the Seamen's War Pensions and Allowance Act 1940 (Cwlth), the Australian Coastal Shipping Commission Act 1966 (Cwlth), the Australian Coastal Shipping Agreement Act 1956 (Cwlth) and the Stevedoring Industry Act 1956 (Cwlth).

Shipping in South Australia is controlled by the *Navigation Act 1912* (Cwlth) and, where this does not apply, by the *Harbors Act 1936* and the *Marine Act 1936*. Both of the State Acts are administered by the Department of Marine and Harbors.

Registration of Ships

The Australian Register of Ships was established in Canberra by the Commonwealth Government and became operative on 26 January 1982. It replaced the British Register of Ships, which had become inappropriate as a means of registering Australian ships.

Registration of a ship provides proof of nationality and ownership, and enables the registration of encumbrances over a ship.

Overseas Shipping

Overseas shipping cargo statistics are compiled from returns submitted by shipping companies, or their representatives, to Customs Houses at each port in South Australia. The statistics relate to overseas ships calling at or departing from South Australian ports for the purpose of carrying cargo from or to overseas ports. Excluded are naval ships, yachts and other craft used for pleasure, foreign fishing ships that neither load nor discharge cargo, geophysical, oceanographic research and seismic survey ships, offshore oil drilling rigs and related service ships, Australian registered fishing ships operating from Australian ports and all ships of 200 registered net tonnes and under.

Cargo statistics are recorded in gross weight tonnes. Gross weight is the total weight of cargo, excluding the weight of containers.

Port	1987	1988	1989	1990
Port Adelaide: Vessel calls Deadweight tonnage ('000)	409 7,913	389 8,389	421 8,997	875 21,734
Port Pirie: Vessel calls Deadweight tonnage ('000)	72 1,677	59 1,266	45 1,005	2 37
Other: Vessel calls Deadweight tonnage ('000)	322 10,375	253 8,375	243 9,054	51 2,929
Total : Vessel calls Deadweight tonnage ('000)	803 19,964	701 18,030	709 19,056	928 24,700

Shipping : Overseas Vessel Calls at South Australian Ports

Shipping : Overseas Cargo Discharged and Loaded in South Australia

	Disch	arged	Loaded		
Year	Gross weight	Value	Gross weight	Value	
	'000	\$m	'000	\$m	
	tonnes		tonnes		
1987	1,806	979	6,492	1,527	
1988	2,216	1,026	5,328	1,506	
1989	2,490	1,026	5,275	1,818	
1990	1,880	1,150	6,532	1,854	

Cargo Handled at Major Ports

The South Australian Department of Marine and Harbors records details of cargo handled at the larger ports in this State and the following table shows details for each of the last five years.

Port	1985-86	1986–87	1987–88	1988–89 (a)	1989–90 (b)
Ardrossan	884	1,044	983	1.092	1.309
Ballast Head	74		115	132	104
Cape Jervis	20			152	-
Kingscote	130	120	103	101	90
Klein Point	831	791	730	834	580
Penneshaw	20	,,,,	/50		
Port Adelaide	4.253	4,144	3,962	4,264	4,027
Port Bonython	2,216	2.022	1,982	2,236	1,968
Port Giles	233	230	179	387	325
Port Lincoln	961	1.329	913	764	1,109
Port Pirie	1.310	957	1.128	845	1,028
Port Stanvac	2,907	3,189	2,979	3,436	3,375
Proper Bay	30	16	33	39	35
Rapid Bay	149	309	194	145	332
Thevenard	1.017	1,452	1.182	1,260	1,427
Wallaroo	448	526	500	367	468
Whyalla	2,495	2,681	2,592	3,059	3,151
Total	17,979	18,849	17,575	18,961	19,328

Cargo Handled : Major Ports, South Australia ('000 tonnes)

(a) Excludes 31,000 tonnes for 1988–89 between the ports of Cape Jervis and Penneshaw.
 (b) Excludes 35,000 tonnes for 1989–90 between the ports of Cape Jervis and Penneshaw.

Distances to Overseas Ports

Distances in kilometres from Port Adelaide to principal overseas ports are shown in the following table. Distances by sea from Port Adelaide to the ports of other Australian capital cities are given on page 1.

Port Adelaide to:	Kilometres	Port Adelaide to:	Kilometres
Africa:		North America:	
Cape Town	10,377	East Coast;	
Asia:		Baltimore	(a)23,135
Colombo	7,982		(c)19,059
Djakarta	5,643	Montreal	(a)23,541
Hong Kong	8,856		(c)21,368
Singapore	6,510	New York	(a)22,961
Yokoĥama	9,780		(c)19,200
Europe:		West Coast;	.,
Liverpool	(a)21,630	San Francisco	13,653
*	(b)19,774		
London	(a)21,705	Vancouver	14,357
	(b)19,839	Central America:	
Marseilles	(a)21,144	Panama	15,385
	(b)16,688	South America:	
Naples	(a)21,663	East Coast;	
1	(b)15,940	Buenos Aires	(d)14,388
New Zealand:		Rio de Janeiro	(d)15,901
Auckland	3,769	West Coast;	
Wellington	3,482	Valparaiso	12,353

Distances from Port Adelaide to Principal Overseas Ports

(a) Via Cape Town. (b) Via Suez Canal. (c) Via Panama Canal. (d) Via Cape Horn.

14.3 AIR TRANSPORT

CIVIL AVIATION

Control of Civil Aviation

In Australia, civil aviation is subject to the Air Navigation Act 1920 (Cwlth) and to regulations made under the Act.

The present regulations, administered by the Department of Transport and Communications, the Civil Aviation Authority and the Federal Airports Corporation, cover the registration of aircraft and the issue of certificates of airworthiness, the licensing of aircraft services, aircraft operating crews, aerodromes, flying training schools, and the rules of the air. These authorities are responsible for the provision and operation of air traffic services and rescue and fire fighting services and have assumed responsibility for the coordination of search and rescue operations. They are also responsible for the prevention of undesirable effects of air traffic on the environment and of unlawful interference with aircraft and aviation facilities.

Aerodromes

There were thirty-five aerodromes used for civil aviation in South Australia at 30 June 1990.

The main airport in South Australia is the Adelaide Airport located six kilometres west of the city. The airport has both a domestic and an international terminal, the latter having scheduled services to Europe, the Far East and New Zealand.

Since the opening of the Adelaide Airport the aerodrome at Parafield, about eighteen kilometres north of Adelaide, has been restricted principally to use by light aircraft.

Adelaide and Parafield airports are owned and operated by the Federal Airports Corporation (FAC). The FAC was established on 1 January 1988 by the Commonwealth Government and is a statutory body designed to place the airports, with their terminals, runways and associated facilities on a proper commercial basis.

On 21 August 1990 the Government announced its intention to transfer the remaining Commonwealth aerodromes to local ownership and to encourage local owners of aerodromes currently jointly funded by the Commonwealth under the Aerodrome Local Ownership Plan to take over full responsibility for their aerodrome.

Mount Gambier Aerodrome and Port Lincoln Aerodrome have already transferred to local ownership.

Two airports, Ceduna and Whyalla, are still operated by the Commonwealth Department of Transport and Communications.

There are thirty licensed aerodromes, including sixteen which are operated by local councils and participate in the Aerodrome Local Ownership Plan.

In addition to the civil aerodromes there are two major aerodromes, one at Woomera controlled by the Department of Defence through the Defence Research Centre, and the other at Salisbury (Edinburgh Airfield), which are used by aircraft associated with trials operations. Edinburgh Airfield is also the base for two Royal Australian Air Force maritime squadrons.

Aircraft on Register

The following table shows figures for registered aircraft based in the South Australia–Northern Territory Region, classified by type of operation.

	At 30 June						
Type of operation	1986	1987	1988	1989	1990		
Regular public transport (a)	_		_	1	1		
Private	486	448	495	515	534		
Charter	233	244	260	298	326		
Other (b)	147	130	156	179	200		
Total	866	822	911	993	1,061		

Aircraft Based in South Australia–Northern Territory Region, Type of Operation

(a) Excludes major airlines servicing interstate routes. (b) Includes agricultural work, ambulance, survey and pilot training functions.

General Air Services

International air services commenced through Adelaide on 2 November 1982. At June 1990, there were three international carriers, Qantas, British Airways and Singapore Airlines, providing international services to Adelaide. These services link Adelaide with major centres including Singapore, London and Auckland.

Domestic air services to South Australia are provided by Ansett Transport Industries (Operations) Ltd, operating as Ansett of Australia, and Australian Airlines. At June 1990, the airlines provided direct services from Adelaide to the following major centres: Alice Springs, Brisbane, Canberra, Melbourne, Perth and Sydney. In addition, there were thirteen commuter operators providing services in South Australia at June 1990. The commuter sector of the Australian aviation industry is defined as those operators performing regular public transport services whose fleet contain exclusively aircraft with a maximum seating capacity of 38 or a maximum payload of 4,200 kilograms. Commuters served thirty–eight South Australian ports at June 1990.

Airport	198586	198687(a)	1987–88	1988-89	1989–90p(c)
		PASSENGERS (b)		
Adelaide	1,962,167	1,943,171	2,085,225	2,134,048	1,665,290
Adelaide International	118,559	139,555	141,519	138,433	162,859
Ceduna	3,379	2,917	4,446	4,675	4,663
Kingscote	53,692	40,406	41,712	44,161	47,037
Mount Gambier	34,467	36,112	45,469	48,787	50,981
Port Lincoln	88,725	70,982	65,960	74,593	76,685
Whyalla	52,970	41,461	37,617	39,603	41,673
	F	REIGHT-TONNE	S (b)		
Adelaide	18,675	15,030	16,472	16,532	8,701
Adelaide International	4,326	4,479	6,327	6,877	7,002
Ceduna	9	4	5	4	4
Kingscote	34			-	-
Mount Gambier	57	39	41	48	47
Port Lincoln	134	65	42	48	46
Whyalla	38	24	21	24	26
	AIRO	CRAFT MOVEME	NTS (b)		÷
Adelaide	51,050	48,920	46,041	46,744	40,795
Adelaide International	1,310	1.667	1.647	1,705	2,163
Ceduna	298	383	637	606	1,500
Kingscote	11,921	9,049	7,287	6,533	4,228
Mount Gambier	4,327	4,629	5,353	6,043	6,566
Port Lincoln	8,499	7.371	5,237	6,553	9,272
Whyalla	4,685	4,736	3,113	3,195	2,925

Principal Airports : Traffic Data, South Australia

(a) Airlines of South Australia ceased services in April 1986. (b) Includes all domestic and commuter services. (c) Decline in traffic data due to mass resignation of airline pilots on 24 August 1989 and subsequent capacity rebuilding.

14.4 COMMUNICATION

POSTAL SERVICES

The Australian Postal Corporation, trading as Australia Post, provides the national postal services.

In addition to surface and airmail carriage of postal articles recent years have seen the introduction and expansion of electronic transmission of mail and development of 'speed services' such as Express Courier and International Express Post.

Australia Post acts as an agent for many services of Commonwealth, State and local government departments and authorities, and for private sector principals.

Post office agencies are conducted by persons who receive an allowance based on business transacted. In many instances this type of business is conducted in conjunction with some other business activity.

At 30 June 1990 there were 3,691 persons employed in postal services in South Australia and Northern Territory comprising 2,669 full-time staff, 439 staff employed part-time, 363 post office agency staff and 220 mail contractors who held mail service contracts with Australia Post.

Postal Articles Handled

Details of articles handled by post offices in South Australia and the Northern Territory during the years 1985–86 to 1989–90 are shown in the following table.

	(•	,			
Year	Standard articles(a)	Non–standard articles(a)	Parcels (a)(b)	Security post	All articles
Posted for delivery:					
Within Australia;					
1985–86	211,466	25,358	2,495	295	239,614
1986–87	218,089	26,227	2,202	263	246,781
1987–88	231,622	27,751	1,948	267	261,588
1988–89	250,469	28,936	2,017	246	281,668
1989–90	252,910	29,343	2,031	235	284,519
Beyond Australia;	,		=,001		
1985–86	8,964	655	87	61	9,767
1986–87	7,970	776	102	55	8,903
1987–88	9,167	971	123	57	10,318
1988–89	10,393	1,223	130	56	11,802
1989–90	9,819	1,038	126	48	11,031
Received from beyond Australia:	- ,	.,			,
1985–86	4,962	1,127	119	22	6,230
198687	4,718	1,116	108	25	5,967
1987	4,863	1,154	115	16	6,148
1988–89	4,492	1,155	123	17	5,787
1989–90	4,396	1,008	93	17	5,514
1707-70	4,590	1,000	25	17	5,514

Postal Articles Handled, South Australia and Northern Territory ('000)

(a) Includes Certified and Messenger Delivery, Priority Paid mail and Express Courier.

(b) Includes registered parcels.

TELECOMMUNICATIONS SERVICES

The Australian Telecommunications Corporation (Telecom Australia) was established by the *Telecommunications Amendment Act 1988*. Telecom Australia has the responsibility for operating and maintaining efficient and economical communication networks, which will best meet the needs of Australia's society. At the present time Telecom Australia has the statutory authority to being the

sole provider of the first telephone. Telecom Australia is also charged with a 'Community Services Obligation'. This obligation states that Telecom must provide telecommunication services to people living in country and remote localities.

At June 1990 there were approximately 7,000 staff employed by Telecom Australia in South Australia and the Northern Territory. During the financial year 1989–90, 56,330 new telephone services were installed in customer's premises.

The following table shows telecommunication services in South Australia and the Northern Territory for the period 1985–86 to 1989–90.

Services	1985–86	1986–87	1987–88	1988–89	1989–90				
Telephone exchanges Telephone services in operation Telex services in operation	571 605,272 4,510	568 628,541 3,837	526 646,658 2,526	516 674,037 1,696	507 707,176 1,051				
Calls made (millions)									
Local telephone Manual trunk Subscriber trunk dialling Manual international (a) International direct dialled (b) Telex calls within Australia (c) International telex	627 3.096 93.342 0.380 1.489 5.077 0.574	667 2.917 104.037 0.368 1.993 4.246 0.542	724 2.773 116.845 0.284 2.744 2.490 0.420	725 2.713 127.715 0.351 3.301 1.698 0.275	789 2,844 136.196 0.542 4.697 1.961 0.189				

Telecommunication Services and Calls Made, South Australia and Northern Territory

(a) Figures are for South Australia only until 1988–89, from 1989–90 include Northern Territory. (b) Figures are for South Australia only. (c) Excludes official Telecom calls.

RADIO AND TELEVISION SERVICES

There are twenty medium frequency amplitude modulation (AM) services operating in South Australia. Of these, six are in Adelaide (three Australian Broadcasting Corporation (ABC), two commercial and one public station). Six commercial and nine ABC stations service country areas.

Of thirty-four frequency modulation (FM) services, eight are in Adelaide (two ABC, three commercial and three public stations) and four are in the country (all public stations); the ABC also operates twenty translator stations.

The first television station, NWS–9, commenced operation in September 1959. The main television stations currently operating in South Australia are ABS–2 (national); SAS–7, NWS–9 and ADS–10 (commercial) and Special Broadcasting Service (SBS). There are four commercial and twenty–two ABC stations servicing country areas.

Further References

Additional information may be found in the following ABS publications:

- 9206.0 Shipping and Air Cargo Commodity Statistics, Australia
- 9208.0 Survey of Motor Vehicle Usage, Australia
- 9252.0 Information Paper: Overseas Shipping and Air Cargo: an Overview, Australia
- 9303.0 Motor Vehicle Registrations, Australia
- 9304.0 Motor Vehicle Registrations, Australia
- 9309.0 Motor Vehicle Census, Australia
- 9401.0 Road Traffic Accidents Involving Fatalities, Australia
- 9405.0 Road Traffic Accidents Involving Casualties (Admissions to Hospitals), Australia

Chapter 15

PUBLIC FINANCE

15.1 FRAMEWORK OF PUBLIC FINANCE

STRUCTURE

The collection of public revenue and the expenditure of public money in South Australia are the responsibility of three groups of authorities: (i) Commonwealth Government; (ii) South Australian Government and State public corporations which together make up State Authorities; and (iii) local government.

Reference is made to the revenue and expenditure of the Commonwealth Government only to the extent that it affects the finances of the State Government. The transactions which are included represent only a small proportion of total expenditure by the Commonwealth Government within South Australia.

The power to raise revenue from taxation is vested in the various governments and authorities by Acts of Parliament. Other revenue comes from the proceeds of the sale of goods and services to the public and to other governments and authorities. A major proportion of the revenue of the State Government, and a smaller proportion of the revenue of local government authorities and some public corporations is derived from grants from other levels of government. A further source of funds is the loan market; government securities are issued for loan raisings in Australia and overseas.

FINANCIAL MANAGEMENT

State Government

The financial administration legislation under which the State's finances are managed is the *Public Finance and Audit Act 1987*. The Act provides the framework within which the Government exercises control over the money which Parliament has appropriated.

The Act has established several types of accounts which, when taken together, comprise the Public Accounts. The most important of these accounts are the:

- Consolidated Account
- Special Deposit Accounts
- Deposit Accounts

Consolidated Account

The Consolidated Account is the Treasurer's main operating account and it is also the account in which all receipts and payments referred to in the Budget are recorded.

The Public Finance and Audit Act requires all money received by the Treasurer be paid into the Consolidated Account except where other legislative provisions permit these receipts to be credited to some other account. With limited exceptions, funds can only be issued from the Consolidated Account under the authority of the annual Appropriation Act (the Budget).

Expenditure from the Consolidated Account, in the main, comprises expenditure by Government departments, debit servicing costs, subvention to statutory authorities and grants to non–government bodies engaged in activities which the Government wishes to support.

Deposit Accounts

These are principally moneys lodged with the Treasurer by public authorities and other bodies on current account; funds held for specific purposes pursuant to legislation, not necessarily expendable in any one year; contractors' and statutory deposits and unclaimed moneys. The terms and conditions on which deposits are accepted are determined by the Treasurer.

Special Deposit Accounts

The Treasurer is empowered under the Public Finance and Audit Act to establish special Deposit Accounts for purposes relating to the activities of a Government department. Activities transacted through Special Deposit Accounts take place outside the formal budgetary process but under the broad supervision of the Treasurer.

The most common function of special Deposit Accounts is to facilitate the accounting for plant stores and workshop activities. In addition, the activities of certain Departmental trading enterprises *e.g.* Woods and Forests Department, are carried out through special Deposit Accounts to remove some of the constraints imposed by the appropriation process and to give the agency the flexibility needed to respond quickly to commercial opportunities.

Although the main function of many of them is to facilitate the allocation of charges and recoups to various headings of receipts and payments within the State Budget, some contain substantial transactions which are not reflected in the Budget, *e.g.* the Woods and Forests Working Account which includes most of the transactions of forest operations in South Australia, and the Highways Fund through which a major proportion of the State's roads expenditure is transacted. Deposit and Suspense Accounts showed a credit balance of \$159,639,372 at 30 June 1989.

Public Corporations

A public corporation is defined as a body (other than a local government authority) created by or under legislation to carry out an activity or activities on behalf of a government, or a body in which a government has a controlling interest.

Most public corporations enjoy considerable freedom in the conduct of their financial affairs. Section 7 of the Public Finance and Audit Act permits money received by an instrumentality of the Crown, that would otherwise be paid into the Consolidated Account, to be applied by the instrumentality without Parliamentary appropriation for the purpose of carrying out its functions.

There are numerous examples of bodies which operate in this way but some of the more prominent are the South Australian Government Financing Authority (SAFA), STA, the Electricity Trust and the Pipelines Authority.

Local Government Authorities

The relevant legislation under which local government finances are managed is the Local Government Act and the 'Local Government Accounting Regulations 1979'. The Regulations provide for uniformity in local government accounting and the adoption, as far as possible, of accepted accounting principles.

15.2 INTER-GOVERNMENTAL FINANCIAL RELATIONS

The Commonwealth Government's financial relations with the State and local government sectors comprise three broad types:

- (a) the provision of financial assistance in the form of grants or advances;
- (b) the Commonwealth undertaking borrowings of amounts determined by the Australian Loan Council on behalf of the States; and

(c) the determination by Loan Council of the level of borrowings that can be undertaken each financial year by State semi-government and local authorities, government-owned companies and trusts.

Financial Assistance to State Government

The Commonwealth has made payments to the States since Federation. Before the 1939–45 War these payments had a relatively small impact on the overall finances of the States; they were confined in the main to special grants designed to assist the financially weaker States and to certain specific purpose grants, including assistance for roads and for debt charges.

During and after the 1939–45 War however, there was a marked increase in the amount and scope of assistance to the States. This reflected not only the introduction and continuation of uniform income tax, but also an increase in the range and variety of the activities of both Commonwealth and State governments and greater participation by the Commonwealth Government in matters which were previously considered to be the sole responsibility of the States.

Commonwealth financial assistance to the States is provided in three main forms namely:

- (1) General revenue assistance these are untied grants to assist in meeting recurrent State outlays. This is the largest inter–government transfer, accounting for 52 per cent of Commonwealth payments to the six States and Northern Territory in 1988–89.
- (2) General purpose capital payments these are untied payments to assist with State outlays for capital purposes. They comprise the proceeds of borrowings by the Commonwealth on behalf of the States along with grants from the Commonwealth provided in lieu of such borrowings. In addition, the States are permitted to nominate amounts from within the borrowing component of the program for public housing purposes. These latter amounts are provided as loans from the Commonwealth on concessional terms and conditions.
- (3) Specific purpose payments these are payments to the States to meet expenditure the purpose of which is designated by the Commonwealth and/or as a condition of States agreeing to undertake particular actions. In 1988–89, approximately 76 per cent of the payments were for recurrent purposes and virtually all were provided as grants. Some of these payments are passed on by States to local government authorities.

(4 mmony							
1985–86	1986–87	198788	1988–89	1989–90			
1,267.3	1,381.9	1,470.0	1,316.0	1,397.1			
131.2	100.9	51.8	39.6				
72.7	56.0	27.4	39.6	39.6			
1,471.1	1,538.8	1,549.1	1,395.2	1,436.6			
539.8	571.6	591.1	757.1	828.7			
221.7	253.2	256.0	269.3	261.0			
761.5	824.8	847.1	1,026.5	1,089.7			
2,232.7	2,363.5	2,396.3	2,421.6	2,526.3			
	1,267.3 1,267.3 131.2 72.7 1,471.1 539.8 221.7 761.5	1985-86 1986-87 1,267.3 1,381.9 131.2 100.9 72.7 56.0 1,471.1 1,538.8 539.8 571.6 221.7 253.2 761.5 824.8	1985-86 1986-87 1987-88 1,267.3 1,381.9 1,470.0 131.2 100.9 51.8 72.7 56.0 27.4 1,471.1 1,538.8 1,549.1 539.8 571.6 591.1 221.7 253.2 256.0 761.5 824.8 847.1	1985-86 1986-87 1987-88 1988-89 1,267.3 1,381.9 1,470.0 1,316.0 131.2 100.9 51.8 39.6 72.7 56.0 27.4 39.6 1,471.1 1,538.8 1,549.1 1,395.2 539.8 571.6 591.1 757.1 221.7 253.2 256.0 269.3 761.5 824.8 847.1 1,026.5			

Commonwealth Payments and Loan Council Borrowings South Australia (\$ million)

Financial Assistance To Local Government

The Commonwealth's financial relations with local government consist of payments from the Commonwealth Budget made directly or through State Governments, and Loan Council arrangements on local government borrowings.

General Purpose Assistance

General purpose assistance comprises untied grants which are the local government equivalent of general purpose assistance to the State Government Sector. The grants are paid initially to the States who are required to pass on the full amounts to local government authorities.

General purpose financial assistance has been paid to local government authorities since 1974–75. Arrangements since 1986–87 have been embodied in the *Local Government (Financial Assistance) Act 1986* (Cwlth).

Direct Payments

There are a number of programs under which local government authorities are among the bodies eligible for Commonwealth assistance. The grants are required to be spent on specific purposes designated by the Commonwealth *e.g.* child care.

Assistance Passed on Through the States

Some of the funds provided to the States for specific purposes are passed on to local government. The amounts passed on are generally at the discretion of State governments, although in certain instances (such as road funding) the amounts passed on are subject to the approval of the Commonwealth.

(\$million)						
Particulars	1985–86	1986–87	1987–88	1988–89	1989–90	
General purpose assistance (a) Direct payments:	46.1	49.9	55.5	57.3	58.5	
Current Capital	5.8 2.0	4.9 1.6	3.1 0.1	3.1 0.1	3.6 0.4	
Total direct	7.9	6.5	3.2	4.0	3.9	
Specific Purpose Assistance on-passed by the State	23.6	21.2	20.1	15.4	17.3	
Total Commonwealth payments	31.5	27.7	23.3	19.4	21.2	

Commonwealth Payments to Local Government South Australia

(a) General purpose assistance is paid in the first instance to the State Government.

15.3 STATE AUTHORITY FINANCE

The financial statistics for the public sector essentially are a reclassification of information published in accounting statements of the public authorities supplemented by additional dissections of the reported transactions.

Transfers between funds and accounts within the accounting systems and transfers between public authorities are eliminated on consolidation.

Public financial enterprises such as banks and insurance companies are excluded from the statistics on the ground that combining their income or outlay on capital transactions with equivalent transactions of other public authorities would provide a less meaningful account of public sector activity.

Classification Schemes

The two main transactions classifications used in the compilation of government finance statistics are the economic transactions framework (ETF) and government purpose classification (GPC).

The economic transactions framework categorises outlays, revenue and grants received and financing transactions according to their economic character to facilitate study of the macro– economic effect of government activity on the economy and to provide basic building blocks for grouping transactions to be incorporated into the Australian National Accounts.

The government purpose classification is used to group outlays with similar functions to facilitate study of the broad purposes of public sector spending and assessment of the effectiveness of outlays in meeting government policy objectives. To facilitate international comparisons the GPC classification closely follows the same classification principles as the United Nations 'Classifications of the Functions of Government (COFOG)'.

Details of definitions and classifications used in public finance statistics are given in *Classifica*tions Manual for Government Finance Statistics, Australia (1217.0).

RECEIPTS AND FINANCING

Details of receipts and financing transactions of South Australian State authorities have been consolidated from the accounts of the State Government departments and corporations and are classified in the following table to show the major sources of funds. The Personal Income Tax Sharing Entitlement grants are the largest revenue source of State authorities.

State Authorities : Receipts and Financing Transactions, South Australia (\$ million)

Classification	198586	1986–87	1987–88	1988–89
Revenue and grants received:				
Taxes, fees and fines Net operating surplus of trading enterprises;	834.9	908.2	1,076.2	-
Operating revenue	1,771.8	1,824.4	2,042.9	2,423.0
Operating expenditure Property income;	1,451.2	1,496.5	1,649.5	1,919.4
Income from public financial enterprises	19.1	37.4	39.3	42.0
Interest received	289.9	240.9	306.0	391.6
Other	66.7	41.6	44.1	68.4
Other revenue Grants received;	15.1	20.2	26.1	26.7
From the Commonwealth,				
For current purposes	1,807.1	1,953.0	2,061.1	2,072.8
For capital purposes	288.9	304.9	279.7	305.6
From local authorities	0.2	0.2	0.1	-
Total revenue and grants received	3,642.4	3,834.2	4,225.9	4,661.4
Financing transactions:				
Advances from the Commonwealth (net) Net borrowing;	87.9	65.9	-108.7	-59.0
General government	257.9	400.1	429.4	88.4
Public trading enterprises	170.8	45.2	-114.2	-186.1
Deposits received (net)	-44.5	1.4	81.2	13.3
Decrease in investments	-110.4	-292.3	-287.2	223.7
Decrease in currency and deposits	-49.2	150.3	230.0	125.4
Increase in provisions	134.8	150.8	307.4	233.4
Other funds available	-52.7	41.5	-141.4	-25.8
Total financing transactions	394.5	563.1	396.7	417.7
Total funds available	4,036.9	4,397.3	4,622.6	5079.1

State Taxation

Until the introduction of the uniform income tax scheme in 1942–43 with the Commonwealth being the sole levier of income tax, income tax was the major source of taxation receipts in South Australia. The major forms of taxation then left to the State were payroll tax, motor tax, succession and stamp duties, and land tax, but legislative changes in 1980 have subsequently reduced the levels of succession duties, land tax and gift duties. Stamp duty is payable on a wide range of instalment purchase, leasing and other lending transactions. Commencing in 1977–78, under the new personal income tax sharing arrangements, each State was given the right to impose a surcharge or grant a rebate on personal income tax in its State. Any State surcharges or rebates would be collected or paid by the Commonwealth on behalf of the States. To date no State has imposed a surcharge or granted a rebate under the income tax sharing arrangements. Total taxation collected by the Commonwealth in South Australia far exceeds State taxation. Total Commonwealth taxation collected in South Australia in 1987–88 was \$4,539.8 million.

Particulars	1985–86	1986–87	1987–88	1988–89
Employers' payroll taxes	215.0	223.7	249.1	301.5
Taxes on property:				
Land taxes	38.5	44.2	56.7	63.7
Taxes on immovable property n.e.c.	2.2	1.9	1.9	2.7
Financial institutions transactions taxes	31.1	33.3	38.0	43.7
Stamp duties	115.5	121.4	176.1	229.9
Taxes on provision of goods and services:				
Excises:				
Agricultural production taxes	2.3	1.9	1.6	0.8
Levies on statutory corporations	28.2	29.1	32.6	35.1
Taxes on gambling;				
Taxes on government lotteries	33.9	43.8	49.8	59.8
Taxes on private lotteries	2.4	2.4	2.3	2.0
Casino taxes	5.2	10.5	11.5	14.2
Race betting taxes	21.8	23.3	26.9	29.5
Taxes on insurance;	21.0	20.0	20.7	27.5
Insurance companies' contributions to				
fire brigades	26.1	28.6	30.0	31.9
Third party insurance taxes	2.2	23.0	2.2	2.4
Taxes on insurance n.e.c.	46.3	50.4	43.1	41.1
Taxes on use of goods and performance of activities:	40.5	50.4	45.1	41.1
Motor vehicle taxes:				
	60.7	72.4	85.9	88.1
Vehicle registration fees and taxes	43.2	43.0	83.9 47.8	59.2
Stamp duty on vehicle registration				
Drivers licences	11.0	17.7	19.6	17.8
Road transport and maintenance taxes	0.3	0.3	0.4	0.4
Franchise taxes;	4.0	5.0	5.0	<i>c</i> 1
Gas franchise taxes	4.8	5.2	5.2	6.1
Petroleum products franchise taxes	46.4	47.3	67.5	76.4
Tobacco franchise taxes	38.9	40.9	44.1	51.0
Liquor franchise taxes	30.2	33.2	36.1	41.2
Other taxes on use of goods etc	0.9	1.1	1.0	1.3
Fees and fines:				
Fees from regulatory services	14.9	16.5	29.8	33.9
Fines	12.8	13.6	16.9	17.2
Total taxation	834.9	908.2	1,076.2	1,250.8

State Authorities : Taxation, South Australia (\$ million)

OUTLAYS

Outlays of State authorities are shown in the following table grouped according to whether they are current or capital. Fundamental distinction between the two rests on whether the transactions are 'used up' over a period of one year or represent assets which generate a future stream of assets.

Grants and other transfers between State authorities have been eliminated on consolidation in the table below.

(\$ million)							
Classification	198586	198687	198788	1988–89			
Current outlay:							
Final consumption expenditure;							
Gross current expenditure	2,542.9	2,744.1	3,014.9	3,285.0			
Offsetting receipts from sales	338.7	355.4	438.6	569.8			
Requited current transfer payments;							
Interest payments,							
To Commonwealth on advances	270.2	275.8	276.9	264.2			
Other	336.7	385.6	494.0	596.2			
Unrequited current transfer payments;							
Subsidies paid	134.4	135.4	170.2	169.5			
Personal benefit payments	82.0	97.1	96.1	84.9			
Current grants,							
To non-profit institutions	154.3	172.1	194.8	221.1			
To local authorities	55.0	60.5	66.0	67.1			
Other current transfers		2.3	3.1	18.2			
Total current outlay	3,236.8	3,517.6	3,877.3	4,137.5			
Capital outlay:							
Gross fixed capital expenditure	705.7	729.8	628.8	793.5			
Increase in stocks	-33.8	9.2	15.5	28.7			
Expenditure on land and intangible assets	14.3	22.0	20.5	-7.1			
Capital transfer payments;	14.5	22.0	20.5	7.1			
Capital grants,							
To private sector and public financial							
enterprises	11.4	12.4	18.9	17.5			
To local authorities	32.6	29.7	30.0	28.6			
Advances paid (net):	5		2010				
To public financial enterprises	27.9	30.6	22.4	11.6			
To private sector	23.9	34.2	9.5	65.0			
Other	18.1	11.9	-0.7	. 4.0			
Total capital outlay	800.2	879.8	745.1	941.7			
Total outlay	4,036.9	4,397.3	4,622.6	5,079.1			

State Authorities : Outlay, South Australia (\$ million)

The following table shows outlay of State authorities classified by purpose of public sector spending. Education accounted for 25.2 per cent of total outlay in 1988–89 and health for 17.1 per cent.

State Authorities : Outlay by Purpose, South Australia (\$ million)

Classification	1985–86	1986-87	198788	198889
General public services	141.1	160.2	191.0	196.5
Public order and safety	264.0	303.1	309.9	346.0
Education	1,056.5	1,143.2	1,192.3	1,277.9
Health	658.6	736.6	813.0	869.9
Social security and welfare	143.0	153.4	172.1	189.8
Housing and community amenities	349.0	368.2	297.1	230.5
Recreation and culture	128.8	131.5	142.3	131.3
Fuel and energy	112.1	93.7	138.5	284.1
Agriculture, forestry, fishing and hunting	69.7	123.0	87.1	125.7
Mining, manufacturing, construction	19.1	29.9	63.2	49.5
Transport and communications	367.4	370.1	329.9	391.9
Other economic affairs	64.4	63.1	61.5	67.1
Other purposes	663.4	721.3	824.4	918.9
Total outlay	4,036.9	4,397.4	4,622.4	5,079.2

Further References

Additional information may be found in the following ABS publications:
5501.4 State Authorities Finance, South Australia
5504.0 State and Local Government Finance, Australia

15.4 LOCAL GOVERNMENT FINANCE

For the purpose of determining the scope of local government finance statistics, a local government authority is defined as:

- (a) an authority set up under a local government Act to carry out the functions of local government in a defined area (known as a municipality or district council) the members of which are elected by persons enrolled as electors for the House of Assembly in respect of an address within the area, or who are ratepayers in respect of rateable property within the area. A body corporate is enrolled under the name of a nominated agent; or
- (b) an authority created or acquired by a local government authority (as defined above) or by two or more local government authorities (in South Australia an authority established under Part XIX or Section 666(c) of the *Local Government Act 1934*).

Revenue Transactions

Rates and government grants are the principal sources of revenue of local government authorities and represented 52.0 per cent and 20.0 per cent respectively of total receipts in 1988–89.

Details of revenue from ordinary services, as distinct from business undertakings, and loan receipts during the five years to 1988–89 are as follows.

(4						
Particulars	198485	1985–86	1986–87	198788	1988-89	
Rates (including penalties)	187.1	206.9	228.3	252.1	279.3	
Licences, fees and fines	10.9	11.1	12.0	13.9	15.9	
Charges for services	36.2	42.3	49.1	54.8	58.8	
Contributions and donations	4.0	4.9	7.9	6.8	6.0	
Reimbursements received	12.7	14.0	11.5	13.5	16.8	
Interest received	14.0	20.7	20.9	15.6	21.3	
Sale of land and other fixed assets	17.6	12.4	15.6	20.4	26.9	
Other	1.4	1.5	1.8	2.6	2.9	
Government grants:						
General purpose	41.7	45.9	49.7	54.9	57.0	
Specific purpose	58.4	58.0	49.1	53.8	47.8	
Total revenue	384.3	417.7	445.9	488.4	532.5	
Loan receipts	29.1	34.1	37.2	35.4	41.1	
Total revenue and loan receipts	413.4	451.7	483.0	523.7	573.5	

Local Government Authorities : Ordinary Services, Revenue and Loan Receipts, South Australia (\$ million)

Loan Receipts

Loans raised by local government authorities during 1988–89 totalled \$41.1 million for ordinary services. Most of these loans were raised with the Local Government Finance Authority.

Outlay Transactions

A number of differences occur between the presentation of local government finance statistics and those of other levels of government. Public sector finance statistics generally are prepared on a net basis in which selected receipts are offset against relevant outlays, and vice versa, but in local government finance statistics transactions are shown as gross values and subsequently adjusted to the net basis when consolidated into the State and local government sector accounts. For this reason the tables which follow show 'current outlay on goods, services and land' rather than the net concept of final consumption expenditure. A summary of ordinary services outlay of local government authorities during the five years to 1988–89 is shown in the next table.

(+							
Particulars	1984-85	1985–86	198687	1987–88	1988–89		
Outlay on goods, services and land:							
Capital;							
New fixed assets,							
Roadworks construction	56.3	57.9	54.7	60.1	61.2		
Other	78.0	87.0	78.4	87.5	95.6		
Land and other fixed assets	3.5	4.3	16.0	21.6	11.9		
Current;							
General public services	45.0	52.1	64.8	70.9	69.8		
Roadworks, maintenance	41.0	44.0	51.0	52.1	56.6		
Other	135.4	151.1	157.8	173.7	200.4		
Total outlay on goods etc.	359.3	396.5	422.8	466.0	495.5		
Debt charges:							
Interest	23.9	26.5	28.5	31.4	33.5		
Debt redemption	17.2	19.3	21.1	23.6	26.9		
Levies paid to government	3.7	4.3	4.8	5.6	6.1		
Donations paid	1.8	2.6	2.6	2.7	7.8		
Other	0.2	0.4	2.2	0.1	0.1		
Total outlay	406.7	449.9	481.9	530.1	570.6		

Local Government Authorities : Ordinary Services, Outlay, South Australia (\$ million)

Electricity Undertakings

Three councils in the northern area of the State, Roxby Downs (M), Peterborough (M) and Hawker (DC) owned and operated electricity supply schemes during 1987–88, Cooper Pedy (DC) owns electricity supply equipment which the Cowell Electric Supply Co Ltd operates.

During this period the Electricity Trust of South Australia assumed control of the remaining Eyre Peninsula schemes with the associated \$4.7 million debt. Current outlay consisting of working expenses and interest paid on loans raised for the schemes totalled \$2.0 million, gross capital formation and debt redemption principal repayments totalled an additional \$0.3 million.

Electricity undertakings are classified as trading activities in local government finance statistics and details of the transactions are not included in the ordinary services of local government authorities.

Further References

Additional information may be found in the following ABS publications:

5501.4 State Authorities Finance, South Australia

5502.4 Local Government Finance, South Australia

5504.0 State and Local Government Finance, Australia

15.5 AUSTRALIAN NATIONAL ACCOUNTS

National accounting aims at providing a systematic summary of the transactions taking place in the economy, especially of those that relate to the production and use of goods and services, and to transfers of income or capital between sectors of the economy. Major interest is focused on the domestic production account and within that, gross domestic product (GDP).

Estimates of State Accounts have been prepared in recent years. These estimates are a dissection of the Australian National Accounts and in some cases have been built up using the same data sources as those used in the National Accounts; in others the dissections are based on a variety of sources ranging from those directly related, for example the economic censuses, to general indicators of activity such as population changes and household income.

A full presentation of Australian National Accounts is contained in the bulletins *Australian National Accounts*, *National Income and Expenditure* (5204.0) and *Quarterly Estimates of National Income and Expenditure*, *Australia* (5206.0) and the other publications in this series.

STATE ACCOUNTS

While national estimates are based on the concepts and conventions embodied in the United Nations *A System of National Accounts* (SNA) 1968, no such standard is available for sub–national (Regional/State) accounts. The national concepts generally are applicable to State Accounts but a number of conceptual and measurement issues which are important to State Accounts either do not apply or are insignificant at the national level. Most of the problems arise in the context of State gross product for the transport and communication industries where a number of conceptual views are possible. A detailed discussion of the issues surrounding the compilation of State accounts together with a description of the available data sources and the estimation methodology are contained in the *State Accounts, Australia: Issues and Experimental Estimates* (ABS Occasional Paper 1984/4).

The fundamental concepts of gross domestic product are:

Gross Domestic Product at Market Prices (usually referred to as Gross Domestic Product) is the total market value of goods and services produced, after deducting the cost of goods and services used up in the production process but before deducting allowances for the consumption of fixed capital (or depreciation allowances). In concept it is the sum, for all producers, of the value of their sales (including any indirect taxes levied thereon), plus increases in their stocks, less the purchase of intermediate goods and services from other producers. For those producers, like general government, who do not generally sell their output, it includes output valued at cost instead of sales.

Gross Domestic Product at Factor Cost is that part of gross domestic product accounted for by gross payments to factors of production. It is equivalent to gross domestic product less indirect taxes plus subsidies.

Methodology

There are three distinct approaches which can be taken to measure gross domestic product namely:

- (1) the income approach;
- (2) the expenditure approach; and
- (3) the production approach

State gross product shown in the following table is derived using the income approach as it was not possible to prepare an expenditure–based estimate using available data sources. For example, for some States interstate trade statistics are seriously incomplete for goods and virtually non–existent for services and data for Commonwealth government final expenditure by State is not available.

Particulars	1984-85	1985–86	1986–87	1987–88	198889
Wages, salaries and supplements Gross operating surplus	9,193 6,339	9,989 7,251	10,708 7,898	11,382 8,945	12,816 10,155
State Gross Product at Factor Costs	15,532	17,240	18,606	20,327	22,971
Indirect taxes less subsidies	1,722	1,880	2,049	2,393	2,589
State Gross Product at Market Prices	17,254	19,120	20,655	22,720	25,560
Total per head of mean population (\$)	12,635	13,887	14,880	16,229	18,000
Total as a percentage of national gross domestic product (per cent)	8.0	8.0	7.9	7.7	7.6

State Gross Product, South Australia (\$ million)

Further References

Additional information may be found in the following ABS publications:

5204.0 Australian National Accounts, National Income and Expenditure

5206.0 Quarterly Estimates of National Income and Expenditure, Australia

5211.0 Australian National Accounts, Gross Product by Industry

5220.0 Australian National Accounts, State Accounts

PRIVATE FINANCE

16.1 BANKING AND CURRENCY

BANKING

The banking system in Australia in 1990 comprised a central bank (the Reserve Bank of Australia); thirty-seven banks (one owned by the Commonwealth Government, three by State Governments, and thirty-three privately owned); the Commonwealth Development Bank and the Australian Resources Development Bank (specialist banks, owned respectively by the Commonwealth Government and a consortium of the four major banks).

Sixteen banks, plus the Reserve Bank, have branches in South Australia.

The conduct of banking business in Australia is governed by the *Banking Act 1959* (Cwlth). Amendments to the Banking Act late in 1989 gave the Reserve Bank explicit powers for prudential supervision of banks. They also provided the Reserve Bank with greater power to seek information from banks and to investigate the affairs of banks.

Other important amendments to the Banking Act removed the distinctions between trading and savings banks, and they formally replace the Statutory Reserve Deposit requirement on trading banks with a new non–callable deposit requirement applicable to all banks and placed greater emphasis on prudential supervision of banks and provided a formal statutory foundation for this supervision.

Additional historical information on banking is contained in the 1986 edition of the South Australian Year Book and the Year Book Australia.

RESERVE BANK OF AUSTRALIA

The Reserve Bank of Australia functions as a central bank, controls the Australian note issue and acts as banker to the Commonwealth and some of the States. As part of its responsibility under the Banking Act to protect the interests of bank depositors, the Reserve Bank conducts prudential supervision of banks. The ultimate responsibility for sound management of a bank resides with that bank's board and management but in consultation with banks, the Reserve Bank maintains a framework of prudential standards within which a bank must operate. The standards cover a bank's capital, liquidity management, large credit exposures and various other aspects of its operations.

COMMONWEALTH BANKING CORPORATION

The Commonwealth Banking Corporation was established under the *Commonwealth Banks Act* 1959 (Cwlth). It is the controlling body for the Commonwealth Bank and the Commonwealth Development Bank.

Commonwealth Development Bank

The Commonwealth Development Bank is a supplementary source of finance for primary production and for the establishment or development of small business undertakings. It does not compete with conventional lenders, but provides financial help when finance is not otherwise available on suitable terms.

AUSTRALIAN RESOURCES DEVELOPMENT BANK LIMITED

This corporation was formed by the major trading banks with the support of the Reserve Bank and was given bank status by an amendment to the Banking Act in 1967. It provides finance for the development of Australia's natural resources mainly in the form of refinanced bank loans but also by direct lending and equity participation.

PRIMARY INDUSTRY BANK OF AUSTRALIA LIMITED

The Primary Industry Bank of Australia Limited was established under the authority of the *Primary Industry Bank Act 1977* (Cwlth). An unrestricted national banking authority was granted to the bank on 30 June 1987, and the Primary Industry Bank Act was repealed. The bank has since been able to expand its original objective of refinancing loans to primary producers to include new rural loans as well as commercial and property loans.

The Adelaide Branch opened in November 1987 giving the bank a presence in all mainland capital cities in Australia.

BANKS ORIGINATING IN SOUTH AUSTRALIA

The Savings Bank of South Australia commenced operations on 11 March 1848 following the enactment of an ordinance in 1847. It merged with the State Bank of South Australia on 1 July 1984.

With a subscribed capital of \$500,000 in 50,000 shares of \$10 each, the first trading bank promoted in South Australia was The Bank of Adelaide which opened for business on 11 December 1865. The Australia and New Zealand Banking Group Ltd effectively took over the operations of The Bank of Adelaide from 1 October 1980.

Pursuant to the State Advances Act of 1895 the State Bank of South Australia commenced business in 1896. The original Act directed that advances were to be made on first mortgage to farmers, other primary producers and local government authorities. The *State Bank Act 1925* repealed the State Advances Act, and enlarged the scope of the activities of the Bank by making provision for loans on overdraft and all business of general banking.

Branches and Agencies

Of the thirty-seven trading banks which operate in Australia, the sixteen banks listed below conduct business in South Australia:

Government banks

Commonwealth Bank of Australia

State Bank of South Australia

Private banks

Australia and New Zealand Banking Group Limited Westpac Banking Corporation National Australia Bank Limited Advance Bank Australia Limited Bank of New Zealand Bank of Singapore (Australia) Limited Banque Nationale de Paris Challenge Bank Limited Chase AMP Bank Limited Citibank Limited National Mutual Royal Bank Limited NatWest Australia Bank Limited Primary Industry Bank of Australia Limited Standard Chartered Bank Australia Limited

Banks	Branches	Agencies
Commonwealth Bank of Australia	75	474
State Bank of South Australia	176	305
Australia and New Zealand Banking Group	132	89
Westpac Banking Corporation	95	8
National Australia Bank	85	11
Other Banks	12	_
Total – Metropolitan area	341	507
Country	234	380
Total State	575	887

Banks : Branches and Agencies at 30 June 1990, South Australia

The State Bank of South Australia has branches in the Northern Territory, Brisbane and Cairns. It also has branches in New York and London, with offices in Chicago, Los Angeles and Hong Kong. In June 1990 the United Banking Group in New Zealand became part of the State Bank Group.

Banks : Balance of Deposits and Advances to Customers Accounts South Australia(a) (\$ million)

	<i>De</i>	Depositors balances			
Year	Bearing interest	Not bearing interest	Total	Loans, advances and bills discounted	
1986	6,129	591	6,720	n.a.	
1987	6,563	611	7,174	п.а.	
1988	7,629	700	8,329	n.a.	
1989	8,600	722	9,322	n.a.	
1990	11,274	800	12,074	13,771	

(a) Average of weekly figures for month of June.

Interest Rates

Bank interest rates are not formally determined under the Banking Act. Maximum rates are fixed after discussions between the Reserve Bank and the banks, and with the approval of the Treasurer. State Government banks, although not bound by rulings of the Reserve Bank, tend to conform to them.

School Banking

Special banking facilities for school children were introduced into South Australia with the inauguration of the School Banking Department of the Savings Bank of South Australia on 28 April 1908. The State Bank of South Australia assumed this role after merger with the Savings Bank of South Australia on 1 July 1984. The Commonwealth Bank of Australia and some private banks provide similar services at some schools.

CURRENCY

The Commonwealth Treasurer is empowered by legislation to arrange for the making and issuing of coins of specified denominations. Australia's coin requirements are met by the Royal Australian Mint in Canberra. Australian notes are printed by Note Printing Australia, a division of the Reserve Bank in Melbourne. Notes in circulation are of the denominations \$5, \$10, \$20, \$50 and \$100.

A plastic \$10 commemorative note was released in January 1988 to coincide with the Bicentennial. In May 1990, the Bank announced that a new series of currency notes would be issued, commencing with the \$5 note. The new series will be printed on plastic, and incorporate optically variable devices like that pioneered on the commemorative \$10 note. Coins in circulation are 1 cent and 2 cent (bronze) and 5, 10, 20, 50 cents (cupro-nickel), \$1 and \$2. The \$1 and \$2 notes were replaced by coins in 1984 and 1988 respectively.

16.2 OTHER PRIVATE FINANCE

AUSTRALIAN STOCK EXCHANGE LIMITED

The Stock Exchange of Adelaide was formed in 1887 by the amalgamation of the Adelaide Stock Exchange and the Stock Exchange of South Australia. One hundred years later, the six State capital city exchanges were amalgamated into one national Exchange, the Australian Stock Exchange Limited (ASX), which commenced business on 1 April 1987. The ASX has transformed the share market industry through the development of computer trading. The hubbub of the trading floor disappeared in Adelaide on 31 August 1990. On that date, the trading floor in Adelaide closed, and all stocks were incorporated into the computer trading system.

NEW FIXED CAPITAL EXPENDITURE

Estimates of capital expenditure are obtained from a sample of private enterprises other than in the agriculture and community services industries. State dissections are achieved by allocating expenditure to the State where the assets have or will be used.

New fixed capital expenditure refers to expenditure on new fixed tangible assets including major improvements, alterations and additions,

Further details are available in the quarterly bulletin State Estimates of Private New Capital Expenditure (5646.0).

	1 maio n	(\$ million)		Australia	
		Selected ina	lustry		Trucco	·
Period	Manufac– turing	Finance, property and business services	Other selected industries	Total	Type of New building and structures (a)	Other new capital equipment
1987–88 1988–89 1989–90	656 628 757	365 429 458	819 663 523	1,840 1,721 1,738	517 594 626	1,323 1,126 1,112

Private New Fixed Capital Expenditure, South Australia

(a) Includes mine development.

BUILDING SOCIETIES

The operations of building societies in South Australia are regulated by the Building Societies Act 1975 which is administered by the Commissioner of Corporate Affairs, with whom they must be registered. There are two categories of building society in South Australia - permanent and terminating (Starr-Bowkett) societies. Five Starr-Bowkett societies operate in South Australia and are expected to terminate by 1995.

A permanent building society is an organisation that has not by its rules any fixed date or certain event or result when it is to terminate; is authorised to accept money on deposit; and operates on a cooperative basis by borrowing predominantly from its members and providing finance to its members principally in the form of housing loans.

More detailed statistics are available in the annual bulletin *Permanent Building Societies: Assets, Liabilities, Income and Expenditure* (5632.0).

The statistics below summarise information collected from the five permanent building societies balancing within the 1987–88 and 1988–89 financial years.

Permanent Building Societies : Liabilities and Assets, South Australia (\$'000)

Liabilities	1987–88	1988-89	Assets	198788	1988-89
Share capital and reserves:			Financial assets:		
Share capital	1,178,266	1,227,774	Placements and deposits	263,585	112,818
Reserves	65,440	75,789	Bills, bonds and other		
Borrowings	678,608	758,161	securities	375,465	402,012
Other liabilities	25,837	29,925	Loan outstandings	1,213,137	1,496,708
			Cash, accounts receivable		
· .			and other financial assets	26,929	25,485
			Other assets	69,035	54,626
Total liabilities	1,948,151	2,091,649	Total assets	1,948,151	2,091,649

Permanent Building Societies : Income and Expenditure, South Australia (\$'000)

1987–88	198889	Income	1987-88	1988-89
				•
		Income and interest from:		
127,086	129,854	Loans	160,908	195,100
38,908	56,495	Deposits	19,820	12,682
7,790	16,619	-		
20,870	23,774	Income from holdings of		
		securities	12,392	51,659
18,659	18,929			
19,263	19,346	Other income	26,872	19,992
232,576	265,017	Total income	253,897	279,433
	127,086 38,908 7,790 20,870 18,659 19,263	127,086 129,854 38,908 56,495 7,790 16,619 20,870 23,774 18,659 18,929 19,263 19,346	Income and interest from: 127,086 129,854 38,908 56,495 7,790 16,619 20,870 23,774 Income from holdings of securities 18,659 18,929 19,263 19,346 Other income	Income and interest from: 160,908 127,086 129,854 Loans 160,908 38,908 56,495 Deposits 19,820 7,790 16,619 19,820 19,820 20,870 23,774 Income from holdings of securities 12,392 18,659 18,929 19,263 19,346 Other income 26,872

CREDIT UNIONS

Credit Unions are registered under the *Credit Unions Act 1989* which is administered by the Commissioner of Corporate Affairs. Credit Unions operate on a cooperative basis by predominantly borrowing from and providing finance to their own members.

The following table shows details of Credit Unions' assets and liabilities. The figures are aggregates of returns submitted by Credit Unions for their relevant accounting periods closing on various dates during the financial years shown.

Particulars	1986–87	198788	198889
NUMB	ER		
Societies	20 201,777	20 216,472	18 229,557
\$'000)		
Income:			
Interest on loans to members Other	87,675 14,218	96,618 17,591	102,297 19,675
Total	101,893	114,210	121,972
Expenditure:			
Interest on deposits	63,967 34,430	65,447 44,186	67,258 48,936
Total	98,397	109,633	116,194
Assets:			
Financial; Loan outstandings	516,659	546,000	592,281
Cash on hand	3,110	3,609	4,703
Placements and deposits	54,789	59,117	45,743
Securities	4,963	14,805	16,692
Other financial	13,911	19,624	15,368
Other	24,237	21,515	22,888
Total	617,669	664,671	697,674
Liabilities:			
Share capital and reserves;	1.400	1 471	1 605
Paid-up share capital	1,409 20,249	1,471	1,695
ReservesBorrowings;	20,249	24,747	30,499
Deposits	583,786	623.833	639,975
Other	7,786	9,170	19,659
Other	4,439	5,450	5,845
Total	617,669	664,671	697,674

Credit Unions, South Australia

FINANCE COMMITMENTS

Details of personal, commercial and lease finance are provided by banks, insurance companies, finance companies, superannuation funds and other financial corporations registered under the *Financial Corporations Act 1974* (Cwlth). Details of personal and lease finance are also provided by permanent building societies and credit unions.

Finance companies are incorporated companies mainly engaged in providing to the general public, personal loans, wholesale finance, factoring, other consumer and commercial loans, financial leasing of business plant and equipment and bills of exchange. A company is mainly engaged in providing these credit facilities if 50 per cent or more of its assets consist of balances outstanding with respect to these types of financing, or if 50 per cent or more of its income is derived from such types of financing.

Particulars of housing finance for owner occupation are not included in personal, commercial and lease finance; refer pages 169–170.

Personal Finance

Personal loans comprise all loans to persons and are used predominantly for the purchase of consumer durables; loans for the purchase of housing are excluded.

The following table shows finance commitments made by significant lenders to individuals for their private use. Credit Unions accounted for \$246 million in total personal finance commitments during 1989–90, nearly 90 per cent of the 'other lenders' category.

	198889			1989–90		
Purpose of commitment	Banks	Finance companies	Other lenders	Banks	Finance companies	Other lenders
Commitments under fixed loan facilities:						
Purchase of;						
Motor vehicles	161.5	197.2	81.0	115.7	220.8	100.6
Boats, caravans and trailers	8.7	4.0	4.9	6.4	3.3	4.4
Household and personal goods	10.0	8.5	16.0	10.6	n.a.	n.a.
Land and dwellings (a)	46.1	8.1	27.6	29.1	5.0	22.9
Travel and holidays	8.5	3.1	8.9	6.5	2.6	8.6
Debt consolidation	27.1	9.0	31.9	22.8	6.5	29.3
Refinancing	47.8	11.5	8.5	65.2	12.1	8.3
Other	126.3	20.7	59.4	102.8	n.a.	n.a.
Commitments under revolving credit facilities:						
New and increased credit limits	514.1	45.9	38.3	555.9	58.6	37.8
Total personal finance commitments	950.1	308.0	276.5	914.9	328.3	282.5

Personal Finance Commitments, South Australia (\$ million)

(a) Includes alterations and additions.

Commercial Finance

Commercial finance covers finance commitments made by significant lenders to government, private and public enterprises, non-profit organisations and to individuals for investment and business purposes.

Commitments under revolving credit facilities are distinctive in that a borrowing limit is set for a specific period and during that time, any amount may be borrowed up to that limit. Most importantly, any repayments of principal increase the amount of credit available.

Commercial Finance Commitments, South Australia (\$ million)

		1988-89		1989–90		
Purpose of commitment	Banks	Finance companies	Other lenders	Banks	Finance companies	Other lenders
Commitments under fixed loan facilities;						
Erection of buildings	143.8	244.0	11.6	385.2	164.7	10.9
Purchase of real estate	334.4	191.1	8.7	293.7	199.4	2.0
Rural property	104.2	1.8	27.7	70.7	1.1	2.4
Wholesale finance	52.7	80.2	0.2	25.3	95.1	32.4
Purchase of plant and equipment	113.3	153.5	6.2	121.9	152.3	2.8
Refinancing	199.5	7.7	8.1	286.7	2.5	3.4
Other	830.2	268.9	17.1	1,224.0	320.9	2.1
New and increased credit limits	4406.2	60.5	13.7	3,480.6	64.7	282.7
Total commercial finance commitments	6,184.5	1,007.7	93.3	5,888.2	1,000.6	338.6

Lease Finance

A finance lease refers to the leasing of tangible assets under an agreement which transfers from the lessor to the lessee substantially all the risks and benefits incident to ownership of the asset without actually transferring legal ownership.

The following table shows lease finance commitments made by significant lenders to private and public enterprises.

Value of Goods Under New Finance Lease Commitments, South Australia (\$ million)

		198889		1989–90		
Dther motor vehicles	Banks	Finance companies	Other lenders	Banks	Finance companies	Other lenders
Motor cars	282.2	151.5	3.4	31.3	142.1	1.8
Other motor vehicles	28.4	61.5	5.6	18.4	54.7	-
Construction, earthmoving and agricultural						
equipment	12.1	18.6		14.6	13.5	-
Automatic data processing equipment and						
office machines	10.0	18.9	39.4	17.5	14.4	49.9
Shop and office furniture and equipment	13.5	24.1	-	13.2	20.1	-
Other	47.7	49.5	-	25.2	28.6	-
Total	139.9	324.0	48.5	120.3	273.4	51.7

MERCHANT BANKS

The first Australian merchant bank was formed in Melbourne in 1949, but it was not until the late 1960s that merchant banks established themselves in the Australian marketplace as a separately identifiable group.

In 1972, Australian merchant banks, with a common interest in the bill market, formed the Accepting Houses Association of Australia (AHA). This became the Australian Merchant Bankers Association in 1979 when the AHA merged with the Issuing Houses Association of Australia to represent the wider interests of merchant banks.

Merchant banks operate as intermediaries in the professional sector of the capital market and have been responsible for a number of important changes in the Australian financial system. These include the development of the commercial bill market and expansion of the market for promissory notes and certificates of deposit. They have also enabled the expansion of domestic activities through a more widespread access to overseas funds.

Merchant banks are strongly involved in the short-term money market, being largely responsible for the unofficial market overtaking the official market in size during the early 1970s. Their dealings with the Stock Exchange include the underwriting of equity issues, management of investment portfolios and acting as principal in bonds. Merchant banks also provide advice relating to mergers and takeovers, financial re-organisations and planning for expansion.

In 1990 ownership guidelines for dealers were amended to remove the requirement for a spread of ownership and the restriction on foreign ownership. Two new authorisations were announced, bringing the number of authorised dealers to ten.

Merchant banks are predominantly regulated and supervised by the State Corporate Affairs Commission. The *Financial Corporations Act 1974* (Cwlth) requires them to be registered as Money Market Corporations. In addition they are required to be licensed under the Securities Industry Code in each State in order to deal in or advise on securities.

Further References

Additional information may be found in the following ABS publications:

- 5609.0 Housing Finance for Owner Occupation, Australia
- 5616.0 Finance Companies: Assets, Liabilities, Income and Expenditure, Australia
- 5618.0 Credit Co-operatives: Assets, Liabilities, Income and Expenditure, Australia
- 5625.0 Private New Capital Expenditure, Australia, Actual and Expected Expenditure, Preliminary
- 5626.0 Private New Capital Expenditure, Australia, Actual and Expected Expenditure
- 5632.0 Permanent Building Societies: Assets, Liabilities, Income and Expenditure Australia
- 5642.0 Personal Finance, Australia
- 5643.0 Commercial Finance, Australia
- 5644.0 Lease Finance, Australia

Regional Studies

SOUTH EAST

Size and Location

The South East Statistical Division extends from Coonalpyn to Port MacDonnell and is bounded to the west by the Southern Ocean and to the east by the Victorian border. It covers a total area of 2,543,470 hectares (approximately 2.5 per cent of the area of the State).

The South East comprises the District Councils of Beachport, Coonalpyn Downs, Lacepede, Millicent, Mount Gambier, Naracoorte, Penola, Port MacDonnell, Robe and Tatiara, the Municipality of Naracoorte, and the City of Mount Gambier.

Topography and Soils

In recent geological time a vast shallow sea covered most of the south east of South Australia and part of Victoria. Over time, this sea retreated irregularly to the present coastline and this has had a marked influence on the topography and soils of the region. The sea has left behind a series of low ridges, being the coastal dunes of former shores. Originally composed of material similar to that found on modern beaches, these ridges are now consolidated into limestone, although they are covered by sandy matter.

Lying parallel to the present coast these low ridges (30 to 40 metres high) have impeded effective drainage to the sea. Consequently the inter–dune areas were swampy and contained lagoons or lakes of various sizes which resulted in a black clay topsoil covering large areas of these low–lying flats. Red loams known as Terra Rosa soils occur on the western junction of these black flats and sandy ridges.

Volcanic activity has determined the topography and soils in the south–eastern corner of the Division while the more northern areas have a land formation resulting from strong wind erosion. This erosion has re–sorted materials from old sea beds, piling up sand into dunes, and these are a common feature of the area popularly known as the Ninety Mile Desert.

Good supplies of underground water can be obtained through most parts of the region. In most cases the quantity and quality is suitable for irrigation and several areas of intensive development where crops and pastures are irrigated can be found throughout the region. The exception are the north and western districts where both the frequency and quality of water is more irregular and difficult to obtain.

Meteorology

The South East of South Australia experiences warm to hot, predominantly dry summers and cool wet winters. However, the coastal stations south of Beachport frequently report showers or early morning drizzle during summer.

During the warmer months of November to March anticyclones are usually centred in the Great Australian Bight and extend ridges of high pressure through Bass Strait to the Tasman Sea. Low pressure systems and their associated cold fronts occasionally bring showers and drizzle to most of the south east of the State. During the winter months, however, the subtropical ridge shifts northwards and the region is influenced to a greater extent by eastward moving depressions and their associated cold fronts. The rainfall is greatest over the elevated terrain in the vicinity of Mount Burr, Mount Gambier and Kalangadoo – the highest annual average in the area is 829 mm at Lake Leake. However, the rainfall decreases fairly uniformly to less than 450 mm north–east of Keith and Bordertown.

For agricultural purposes rainfall during January and February is generally of little value, but March rainfall is usually effective in the area encompassed by Mount Gambier, Mount Burr and Kalangadoo. By the end of April the rainfall is effective over the whole district and remains so until October. The growing season closes over the northern parts of the district during November, but on average extends well into December south of the line joining Lake St Clair, near the coast, and Coonawarra. Thus, over the southern sector of this district the growing season extends from early April into December, approximately nine months, while over the remainder it is of about eight months duration.

The mean temperatures (the average of the maxima and minima) have special significance to agriculture and horticulture. Although the area is one of the coldest in the State, the mean monthly temperature never falls bellow 7°C so that nowhere is growth completely inhibited.

Mean January maxima range from about 21°C at Cape Northumberland to about 29°C at Bordertown while mean minima for that month range from about 10°C at Coonawarra to approximately 14°C at Bordertown.

In July mean maxima, generally lie within the range from 12.5° C to 14.5° C at all stations. Mean July minima, however, range from about 4° C at Coonawarra to about 8° C at Robe.

The South East is prone to frost in those localities where air drainage is poor and where the sea has no warming influence. Severe frosts are usually first experienced in June at stations more than 30 kilometres from the coast and as early as May in the extreme north–east beyond the Naracoorte Range. The last severe frost generally occurs in August away from the coast, is usually delayed until September further inland and is experienced as late as October in the extreme north–east.

Population

Population growth for the South East Statistical Division in the ten year period 1961 to 1971 was substantially below the population growth for the State. Population in the South East grew by 7.6 per cent compared to 21.1 per cent for the State. However, in the ten year period 1976 to 1986, population growth in the South East followed the State growth more closely; 5.7 per cent compared to 8.5 per cent for South Australia.

Area	1961	1966	1971	1976(a)	1981	1986
South East Statistical Division	53,876	57,567	57,981	59,510	61,630	62,890
Total State	969,340	1,094,984	1,173,707	1,274,100	1,318,770	1,382,550

Population, South East Statistical Division and South Australia

(a) Estimated resident population from 1976.

The estimated resident population of the South East Statistical Division was 63,063 persons at 30 June 1989, representing 4.4 per cent of the State's population. Sixty–nine per cent of the South East's population live in the Lower South East subdivision, predominantly in the local government areas of Mount Gambier (C) (35.2 per cent) and Millicent (13.1 per cent). Tatiara in the Upper South East subdivision represents 11.3 per cent of the South East's population.

Area	198	34	1989		
	Persons	Per cent	Persons	Per cent	
Upper South East	19,938	31.6	19,468	30.9	
Naracoorte (M)	4,996	7.9	4,810	7.6	
Tatiara (DC)	7,338	11.6	7,142	11.3	
Lower South East	43,070	68.4	43,595	69.1	
Millicent (DC)	8,408	13.3	8,284	13.1	
Mount Gambier (C)	19,435	30.8	22,214	35.2	
Mount Gambier (DC)	7.068	11.2	5,039	8.0	

Estimated Resident Population in Major Statistical Local Areas South East Statistical Division

The following table shows the estimated resident population, classified by sex, in statistical local areas in the South East Statistical Division at 30 June 1989. ('Statistical local areas' equate directly with 'local government areas'.)

Estimated Resident Population by Sex and Statistical Local Area, South East Division, 30 June 1989

Statistical local area	Males	Females	Persons
Beachport (DC)	980	874	1.854
Lacepede (DC)	1,306	1,255	2,561
Lucindale (DC)	850	758	1,608
Millicent (DC)	4,179	4.105	8,284
Mount Gambier (C)	10,920	11,294	22,214
Mount Gambier (DC)	2,660	2,379	5.039
Naracoorte (M)	2,378	2,432	4,810
Naracoorte (DC)	1.082	928	2,010
Penola (DC)	1.969	1.772	3,741
Port MacDonnell (DC)	1,247	1.216	2,463
Robe(DC)	698	639	1.337
Tatiara (DC)	3,679	3,463	7,142
Total	31,948	31,115	63,063

The following table presents the urban and rural components of the population for both the South East Statistical Division and the State. The urban component of the South East is 61.9 per cent compared to 84.6 per cent for the State.

Population: Urban and Rural Components, South East Statistical Division and South Australia, Census 1986

	South Statistical		South Australia		
Particulars	Persons	Per cent	Persons	Per cent	
Urban	37,271	61.9	1,138,036	84.6	
Rural	22,980	38.1	205,625	15.3	
Migratory	-		2,284	0.1	
Total	60,251	100.0	1,345,945	100.0	

	Census 30 June				
Country of birth	1971	1976	1981	1986	
SOUT	H EAST STATIST	TICAL DIVISION		Section Section	
Australia	89.1	89.6	89.4	90.0	
United Kingdom and Ireland	5.0	4.9	4.5	4.3	
Other Europe and USSR	5.3	4.8	4.3	3.8	
New Zealand	0.2	0.3	0.3	0.5	
Asia	0.2	0.2	0.3	0.3	
Other (a)	0.2	0.3	1.1	1.1	
	SOUTH AUST	RALIA			
Australia	76.1	76.4	76.2	76.5	
United Kingdom and Ireland	12.6	12.7	11.8	10.9	
Other Europe and USSR	9.6	8.9	8.6	7.8	
New Zealand	0.3	0.3	0.5	0.6	
Asia	0.7	0.9	1.2	2.0	
Other (a)	0.6	0.7	1.6	2.1	

Birthplace of Population, South East Statistical Division and South Australia (Per cent)

(a) Prior to 1981, birthplace not stated was imputed. From 1981 it was a separate category and has been included in 'other'.

The above table shows the percentage birthplace figures of the South East and South Australia. Between 1971 and 1986, the growth in the population of the South East has increased at a faster rate than for the State. Overseas migration has been a more important component of population growth for the State than for the South East.

The proportion of persons born in the United Kingdom (including the Republic of Ireland) and in Europe showed a steady decline over the 15 years from 1971 to 1986 in both the State and the South East. The percentage born in the United Kingdom declined from 5.0 per cent in 1971 to 4.3 per cent in 1986, while the proportion of those born in Europe showed a greater decline from 5.3 per cent to 3.8 per cent.

The next table shows the percentage age distribution of the population of the South East and the State. The table indicates that the South East has a slightly younger age distribution than the State, with 56.1 per cent of the population under 35 years in the South East and 53.4 per cent in that age group in the State.

Age (years)	South Statistical		South Australia		
	Persons	Per cent	Persons	Per cent	
0–14	15,180	24.1	295,905	20.8	
15–24	9,747	15.5	229,087	16.1	
25–34	10,384	16.5	235,398	16.5	
35-44	9,393	14.9	210,710	14.8	
45–54	6,197	9.8	144,183	10.1	
55–64	5,467	8.7	132,195	9.3	
65 and over	6,695	10.6	177,169	12.4	
Total	63,063	100.0	1,424,647	100.0	

Age Distribution of the Estimated Resident Population: South East Statistical Division and South Australia, 30 June 1989

Births and Deaths

When compared with the State as a whole, the South East has had a substantially higher birth rate and a slightly lower death rate in recent years. This is partly attributable to the younger age distribution of the population, but it is likely that there are other relevant factors.

Year	South East Statistical Division			South Australia		
	Number	Rate (a)	Number	Rate (a)		
1986	1,046	16.5	19,741	14.4		
1987	949	15.1	19,235	13.8		
1988	947	15.1	19,155	13.6		
1989	962	15.3	19,610	13.8		

Live Births : Number and Rate by Usual Residence of Mother, South East Statistical Division and South Australia

(a) Number of births per 1,000 of estimated resident population at 30 June.

Deaths : Number and Rate by Usual Residence of Deceased South East Statistical Division and South Australia

Year	South Statistical		South Australia		
	Number	Rate (a)	Number	Rate (a)	
1986	374	5.9	10,328	7.5	
1987	427	6.8	10,531	7.6	
1988	444	7.1	10,690	7.6	
1989	494	7.8	11,348	8.0	

(a) Number of deaths per 1,000 of estimated resident population at 30 June.

Education

Government Schools

In July 1990 there were fifty government schools in the South East Statistical Division. This number included six high schools, thirty-three primary schools, three junior primary schools, five area schools, one rural school, one special school and one transition unit. Total enrolment was 11,114, with 4,989 secondary students; 6,086 primary students; 21 students at special school, and 18 at the Mount Gambier Transition Unit. Of the regular schools, Grant High School in Mount Gambier had the highest enrolment with 964 students, and Comaum Rural School with 9 students had the lowest enrolment.

The Lower and Upper South East District Education Offices at Mount Gambier and Naracoorte are the regional administrative centres for schools in the South East Statistical Division.

Non-government Schools

In the South East Statistical Division there are four Catholic primary schools and one Lutheran primary school. There is also a Catholic co-educational secondary school located at Mount Gambier. In all there were 397 secondary and 776 primary students enrolled in non-government schools in the Division in 1990.

Pre-school Education

In the South East Statistical Division, pre-school education is provided by the Children's Services Office pre-schools, child-care centres and Education Department child/parent centres.

In September 1990, there were twenty Children's Services Office pre–schools with a total enrolments of 778 and twelve child/parent centres with total enrolments of 333 children. In addition there were five child care centres with a total of 204 places available.

Other Education

The Department of Employment and Technical and Further Education (DETAFE) maintains a TAFE College at Mount Gambier, with campuses at Kingston, Millicent and Naracoorte.

Health Facilities

In the South East Statistical Division, public hospitals are located at Bordertown, Keith, Kingston, Millicent, Mount Gambier, Naracoorte and Penola.

There are ambulance services at Beachport, Bordertown, Keith, Kingston, Lucindale, Millicent, Mount Gambier, Nangwarry, Naracoorte, Penola, Robe and Tintinara. A regional Red Cross blood transfusion centre and a district nursing branch are also located at Mount Gambier.

Employment

The following table shows that 30.7 per cent of employed males in the South East are employed in the agriculture, forestry and fishing industries, compared with 8.1 per cent for South Australia. This may seem a high proportion but is explained by the fact that over 38 per cent of the population live in non–urban areas. A higher proportion of self-employed persons and employers would be expected in this area. The next table shows that this is the case, with only 64.4 per cent of the labour force in the South East being employees compared with 74.5 per cent for the State.

	South East Statistical Division		South Australia	
Industry	Number	Per cent	Number	Per cent
	MALI	ES		
Agriculture, forestry, fishing, etc	5,104	30.7	27,717	8.1
Mining	68	0.4	4,372	1.3
Manufacturing	3,275	19.7	68,393	20.1
Electricity, gas and water	272	1.6	9,098	2.7
Construction	1,230	7.4	30,103	8.9
Wholesale and retail trade	2,567	15.4	61,288	18.0
Transport and storage	696	4.2	22,008	6.5
Communication	271	1.6	8,430	2.5
Finance, business services, etc	577	3.5	25,211	7.4
Public administration, defence	544	3.3	18,787	5.5
Community services	1,099	6.6	38,959	11.5
Entertainment, recreation	526	3.2	14,910	4.4
Other and not stated	417	2.5	10,820	3.2
Total employed population	16,646	100.0	340,096	100.0
	FEMAL	LES		Personal State
Agriculture, forestry, fishing, etc	2,092	20.9	13,146	5.7
Mining	12	0.1	724	0.3
Manufacturing	841	8.4	21,958	9.6
Electricity, gas and water	25	0.3	713	0.3
Construction	173	1.7	4,742	2.1
Wholesale and retail trade	2,190	21.9	47,678	20.9
Transport and storage	164	1.6	4,139	1.8
Communication	100	1.0	2,735	1.2
Finance, business services, etc	559	5.6	23,468	10.3
Public administration, defence	234	2.3	9,029	3.9
Community services	2,387	23.9	73,457	32.1
Entertainment, recreation	981	9.8	19,822	8.7
Other and not stated	237	2.4	7,051	3.1
Total employed population	9,995	100.0	228,662	100.0

Industry of Employ	ed Persons : South East Statistical Division
	South Australia, Census 1986

Occupational status	South Statistical		South Australia		
	Persons	Per cent	Persons	Per cent	
Employer	2,393	8.3	33,570	5.3	
Self-employed	5,117	17.7	61,468	9.8	
Employees	18,631	64.4	468,202	74.5	
Unpaid helper	501	1.7	5,518	0.9	
Unemployed	2,299	7.9	60,101	9.6	
Total labour force	28,941	100.0	628,859	100.0	

Occupational Status of Labour Force : South East Statistical Division and South Australia, Census 1986

The next table showing the level of qualification obtained indicates that in this area there is a larger than average proportion of non–qualified persons. A factor that may account for this is that the area is dominated by the agriculture, forestry and fishing industries and this particular industry group is usually characterised by a low proportion of qualified people.

Population Aged 15 years and Over : Level of Qualification Obtained, South East Statistical Division and South Australia, Census 1986

Qualification	South Statistical		South Australia		
	Persons	Per cent	Persons	Per cent	
Degree or higher	1,100	2.5	47,592	4.5	
Diploma	1,527	3.4	36,013	3.4	
Trade	3,548	8.0	103,972	9.9	
Other and not stated	7,303	16.5	201,299	19.1	
Not qualified	31,008	69.7	660,983	63.0	
Total	44,486	100.0	1,049,859	100.0	

Housing

The following table shows the number of occupied private dwellings in the South East Statistical Division and South Australia. Excluding caravans etc. in caravan parks (collected in this category for the first time in the 1986 Census), the number of occupied private dwellings in the South East has grown by 38.2 per cent between 1966 and 1986, well below the growth experienced by the State (57.6 per cent).

Occupied Private Dwellings, South East Statistical Division and South Australia

Area	1966	1971	1976	1981	1986
South East Statistical Division	14,439	15,809	17,058	18,662	(a)19,952
South Australia	299,933	342,064	390,514	432,136	<i>(b)</i> 472,825

(a) Includes 174 caravans etc. in caravan parks. (b) Includes 3,162 caravans etc. in caravan parks.

The next table shows the number of dwellings and persons by structure of dwelling. In both South Australia and the South East, well over 75 per cent of the population live in houses. However, as may be expected due to the large rural component of the population, the proportion living in flats in the South East was less than half of that for the State.

	Dwe	ellings	Persons	
Structure	Number	Proportion of total	Number	Proportion of total
SOUT	TH EAST STAT	ISTICAL DIVISIO	N	
Separate house	17,134	72.9	51,695	85.8
Semi-detached house	1,074	4.6	3,090	5.1
Row or terrace house	139	0.6	243	0.4
Other medium density	1,325	5.5	2,353	3.9
Flats over three storeys	21	0.1	36	0.1
Caravan, etc. in caravan park	174	0.7	295	0.5
Other caravan, houseboat, etc	73	0.3	148	0.2
Improvised dwelling	30	0.1	76	0.1
House or flat attached to shop				
or office	147	0.6	439	0.7
Not stated	183	0.8	527	0.9
Total occupied private dwellings	20,300	86.3	58,902	97.8
Non-private dwellings	94	0.4	1,349	2.2
Total occupied dwellings	20,394	86.7	60,251	100.0
Unoccupied private dwellings	3,122	13.3		
Total dwellings and persons	23,516	100.0	60,251	100.0
	SOUTH AU	STRALIA		
Separate house	367,423	69.8	1,083,816	80.5
Semi-detached house	32,689	6.2	85,342	6.3
Row or terrace house	3,122	0.6	5,322	0.4
Other medium density	57,738	11.0	95,492	7.1
Flats over three storeys	2,106	0.4	3.534	0.3
Caravan, etc. in caravan park	3,162	0.6	5,881	0.4
Other caravan, houseboat, etc	988	0.2	1,977	0.2
Improvised dwelling	606	0.1	1,656	0.1
House or flat attached to shop			-,	
or office	2,520	0.5	7,137	0.5
Not stated	5,633	1.1	14,689	1.1
Total occupied private dwellings	475,987	90.5	1,304,846	97.0
Non-private dwellings	1,631	0.3	41,099	3.0
Total occupied dwellings	477,618	90.8	1,345,945	100.0
Unoccupied private dwellings	48,546	9.2		
Total dwellings and persons	526,164	100.0	1,345,945	100.0

Dwellings and Number of Persons by Structure of Dwelling South East Statistical Division and South Australia, Census 1986

The following table shows that a slightly higher proportion of private occupied dwellings are owned in the South East (41.4 per cent) than in South Australia (38.0 per cent). Conversely, a lower proportion are being purchased in the South East than for the whole of the State.

	South Statistical		South Australia		
Nature of occupancy	Number	Per cent	Number	Per cent	
Owned Being purchased	8,342 5,036	41.5 25.0	179,564 147,911	38.0 31.3	
Total	13,378	66.5	327,475	69.3	
Rented: SA Housing Trust Other Government Private and not stated	2,479 621 2,610	12.3 3.1 13.0	52,299 6,874 67,988	11.1 1.5 14.4	
Total	5,710	28.4	127,161	26.9	
Other (b)	1,036	5.1	18,189	3.8	
Total	20,124	100.0	472,825	100.0	

Occupied Private Dwellings ^(a), Nature of Occupancy, South East Statistical Division and South Australia, Census 1986

(a) Excludes caravans etc. in caravan parks. (b) Includes nature of occupancy not stated.

The following table classifies the number of vehicles by private dwellings. Only 6.9 per cent of private dwellings in the South East have no vehicles. Also, there is a higher percentage of dwellings having two or more cars in the South East than for the State.

	South Statistical		South Australia		
Number of vehicles	Private dwellings	Per cent	Private dwellings	Per cent	
0	1,408	6.9	56,315	11.8	
1	7.666	37.8	202,001	42.4	
2	7,296	35.9	151,848	31.9	
3 or more	3,549	17.5	54,150	11.4	
Not stated	381	1.9	11,673	2.5	
Total	20,300	100.0	475,987	100.0	

Occupied Private Dwellings, Number of Motor Vehicles^(a), South East Statistical Division and South Australia, Census 1986

(a) Motor vehicles owned or driven by members of the household and garaged or parked at or near the dwelling on Census night. (Excludes motor cycles, scooters and tractors, includes company vehicles kept at home.)

Water Supply

Water for domestic and industrial use in the South East is obtained from various sources. These include the River Murray, the Blue Lake, underground water from bores and springs, and domestic rainwater tanks.

A 143 - kilometre pipeline between Tailem Bend and Keith, which was completed in 1969, forms the backbone of a scheme involving 800 kilometres of branch mains to supply River Murray water to towns and farmlands in the Upper South East.

In the Kingston–Lucindale–Beachport area, artesian water is obtained from bores sunk into water bearing sands overlaid by lignitic impervious clay which is more than 15 metres thick. Water flowing at the rate of up to 270,000 litres an hour is obtainable from these sands.

Tertiary bryozal limestone (porous and cavernous) known as the Gambier Limestone is the aquifer most commonly used for domestic and irrigation supplies in the South East. The groundwater occurs at, or close to the surface at various places and is recharged by local rainfall. Groundwater is used extensively for irrigation and by industry, particularly the pulp and paper mills at Snuggery.

Large volumes of groundwater flow in the porous limestones, some of which discharge near the coast. In the area around Ewen Ponds there are several springs from which water is carried to the sea by Eight Mile Creek. Several major springs occur along a sharp structures fault between Tartwaup, five miles north-west of Mount Gambier, and a point about midway between Millicent and Mount Burr. The most important of these are the Snuggery Springs which flow at a rate of up to 18 megalitres in 24 hours. Strong springs also occur near Beachport.

Water supply for the city of Mount Gambier comes from the Blue Lake. The Lake is more than 80 metres deep, has a surface area of 70 hectares and is believed to have a capacity of 36,000 megalitres. Most of the towns in the South East have reticulated water supplies, but some depend on rainwater tanks and shallow wells for their supply.

The majority of activities using water in the South East depend on groundwater supplies. To ensure that groundwater resources are not over–exploited, or that pollution does not reduce the beneficial use of the resource, the Government has appointed two Water Resources Committees to assist in managing the resource. The committees, which are appointed under the provisions of the *Water Resources Act 1990*, are made up of both private and public sector members, and deal with the Upper South East and Lower South East respectively.

A recent review of water quality management in the South East by a consultant commissioned by the Government, has shown that there is no widespread groundwater pollution. There are, however, a number of localised areas of pollution resulting from past activities. The underlying theme of the recommendations in the review is that users of the groundwater resource must bear the responsibility for monitoring and managing their operations so they do not adversely impact on the resource. This includes both industrial and domestic users. Community involvement in water resources matters is being implemented, particularly through the committees mentioned earlier.

Sewerage

In the South East sewage is disposed of by full scale sewerage systems installed by the Engineering and Water Supply Department; by common effluent drains and treatment works installed under the supervision of the South Australian Health Commission; and by septic tanks approved by the Central Board of Health.

Common effluent drainage differs from full scale sewerage in that it is designed to dispose of only liquid effluent from septic tanks. Because no solids are carried, pipes can be laid at lesser gradients than are required for full scale sewerage systems.

Full scale sewerage schemes are located at Millicent, Mount Gambier, Naracoorte, Mount Burr and Nangwarry, and there are common effluent schemes at Bordertown, Keith, Kalangadoo, Lucindale, Penola, Robe, Southend and Tarpeena. In 1989 a sewerage treatment plant was completed at Finger Point to treat sewage from Mount Gambier. Previously, untreated sewage was discharged direct to the ocean at Finger Point, near Port MacDonnell.

Electricity and Gas Supply

The Electricity Trust of South Australia has regional headquarters and a district depot at Mount Gambier. Other depots are established at Bordertown, Millicent and Naracoorte. The Trust has 156 employees in the South East and has 33,500 customers in the area.

The early history of electricity supply in the South East is similar to other rural areas in the State. Electricity was available in towns but was limited to a compact group of customers. Direct current permitted the use of storage batteries, which were adequate for off–peak loads. The generating plant could be shut down and did not require maintenance for most of the night, and therefore the installation of alternating current generators was not generally planned. By 1954 there were 14 individual generating stations in the South East situated at Beachport, Bordertown, Kalangadoo, Kingston, Lucindale, Millicent, Mount Burr, Mount Gambier, Nangwarry, Naracoorte, Penola, Port MacDonnell, Robe and Snuggery

To utilise wood waste, a steam power station was built at Mount Gambier and the first unit was commissioned in 1956. In March 1963 Mount Gambier power station was connected to the Trust's interconnected system by the completion of 132kV transmission lines from Tailem Bend. About the same time lower voltage transmission lines were constructed opening up large areas for electricity reticulation. A second 132kV line was commissioned in 1972.

The Snuggery power station, near Millicent, was officially opened in February 1979. This is a distillate fuelled gas turbine station which can also be used as a synchronous condenser for voltage control. The plant has an installed capacity of 75MW.

The interconnection of supply between South Australia, Victoria and New South Wales commenced in March 1990. A 275 kV double circuit line links the substation near Mount Gambier to Heywood in Victoria. A newly constructed double circuit 275kV line passes through the South East to Mount Gambier from Tailem Bend.

Tempered liquified petroleum gas is distributed in Mount Gambier by the South Australian Gas Co Ltd. Elsewhere in the South East, bottled gas is available.

Agriculture

Because of the relatively high rainfall, open grasslands, and generally fertile soil, especially around Mount Gambier, agriculture and livestock production has been practised in the South East from the earliest days of settlement. By 1940 there were in excess of two million sheep and 75,000 heads of cattle in the Division.

Reclamation of land through the drainage of surface water, improvement in agricultural practices, fertiliser knowledge and new machinery allowed for an even faster rate of growth after the 1939–45 War.

Livestock

Drought, shortage of labour and a rapidly expanding rabbit population brought a fall in livestock numbers in the mid–1940s with the number of sheep declining from 2 million to 1.8 million in the period from 1940 to 1945. However, conditions improved from that time, including more effective poisoning techniques and the appearance of the rabbit disease myxomatosis.

		Year ended 31 March				
	Са	attle			Sheep and	
Year	For meat production	For milk production	Pigs	Sheep	lambs shorn	Wool clip
	No.	No.	No.	'000	'000	tonnes
1959	110,113	58,339	6,036	3,930	4,256	18,349
1964	182,838	68,730	14,017	4,375	4,964	23,422
1969	291.016	58,426	30.057	5,604	5,981	30,082
1974	735,943	49,903	30,801	4,292	4,976	25,289
1979	434,122	36,888	24,446	4,475	5,068	25,333
1984	376,285	34,785	56,298	5,144	6,092	32,370
1989	427,154	28,761	59,621	5,630	6,566	31,595

Livestock Numbers and Shearing, South East^(a)

(a) Counties Buckingham, Cardwell, Grey, MacDonnell and Robe.

Livestock numbers increased steadily through the 1960s and early 1970s with beef cattle reaching a peak of 806,800 in 1976. Sheep numbers reached a peak of around 5.8 million in 1970 and at 31 March 1989 there were 5.6 million sheep, 427,100 beef cattle and 28,800 dairy cattle in the South East. Beef numbers have increased to the point where this small region now runs half of the State's cattle and is the major fattening area for the State. However, in 1989 the sheep industry remains the major activity on an income basis.

Dairying

During the 1960s the dairy industry experienced fluctuating fortunes and was often in difficulties. This led to a total reconstruction in the late 1960s and early 1970s. The number of dairy farms dropped markedly, as technical advances in herd and milk handling encouraged larger units. Milk production has risen as a result of better management and a greater proportion of the milk produced is now made into cheese. There is also a tendency for a more specialised dairy farms and thus pig farming has also become more specialised.

Crops

The South East is currently characterised more by its diversity of crops rather than by high production of any one crop. The range includes cereals, pasture seeds, vines, edible oil crops and vegetables.

The cereals, wheat, barley and oats have been the principal crops for more than 100 years but the other crops are more recent. Most were being produced by 1920 but it was not until the 1960s that much larger production increases occurred to develop these crops into individual industries in their own right. Several of these crops developed in response to changes in the grazing industry with pasture seed production responding to the needs from the land clearing and development of the 1950s. Later, edible oil and grain legume crops helped to maintain farm viability when livestock numbers were low. Several crops such as vegetables, forestry and vines have expanded to meet either State needs or national trends.

The increased use of irrigation has had a marked effect on the production of pasture and crops, and has allowed the introduction of several summer growing crops.

Although the proportion of cereals grown in the South East is small (three per cent of the State's wheat and barley and 15 to 20 per cent of the State's oats), the region is able to produce wheat suitable for both bread and biscuit making, some malting quality barley and excellent samples of well–filled oats.

The production of pasture seeds became very important after the 1939–45 War. In the 1950s up to 8,000 hectares, comprising subterranean and strawberry clover, lucerne, phalaris and rye grass seed were harvested annually. Developments in crop management, harvesting techniques and improved quality control have made this region one of the leading seed producing areas in Australia. In 1988–89, 15,700 hectares were grown for pasture seed and 6,458 tonnes were harvested.

Potatoes and onions are the most important vegetables grown, with onions now representing over a quarter of the State's production. Other vegetables grown commercially in the region are broccoli, brussels sprouts, cabbage, carrots, cauliflower, lettuce, snow peas, pumpkins, sweetcorn and tomatoes.

Although vines were planted and wine produced in the Coonawarra area before 1900, the South East did not become well known as a producing area until after the 1939–45 War. The increases in demand for wine during the 1960s encouraged large vine plantings. As well as expanding the Coonawarra district, major plantings were centred around Padthaway, 45 kilometres north–west of Naracoorte. In 1988–89 there were 3,417 hectares of vines planted. This area has been continuously increasing over recent years.

Oilseeds have been grown extensively in the South East for many years. Rapeseed predominates, followed by safflower, sunflower and linseed. In 1988–89 the total area was 7,960 hectares, and production was 10,700 tonnes.

Grain legume crops are widely grown in the region. Lupins head the list, followed by field beans, field peas and chick peas. In 1988–89, total area sown to legumes was 25,400 hectares. These crops are mainly used as stock feed and as a soil fertility improver.

Small seed production is popular in the South East. Apart from pasture seeds these imclude coriander, vegetable seed, mustard seed and vetch. Total area and production of these commodities in 1988–89 was 1,970 hectares and 2,572 tonnes.

	(Ionnes)											
Crop	1963–64	1968–69	1973–74	1978–79	1983–84	1988–89						
Cereals for grain :						1.000						
Wheat	35,726	93,565	17,322	76,474	116,751	46.324						
Barley	13,320	35,332	17,136	73,001	75,722	39,344						
Oats	40,292	66,152	15,493	38,771	26,135	28,536						
Hay:												
Wheaten	1,776	2,923	621	1,529	1,791	853						
Barley	1,482	3,126	1.638	2,668	1,896	3,016						
Oaten	31,508	42,583	17.876	23,955	13.007	10,974						
Lucerne	17,746	63,043	64,417	19.069	22,431	29,496						
Other pastures	38,049	169,956	167,492	118,598	154,769	152,252						
Legume:						,						
Field peas	74	270	588	3,998	6,186	6,391						
Vegetables:				- ,	0,200	0,077						
Potatoes	5,580	12,404	13.442	20,404	30,903	47,376						
Onions	307	611	1.091	4.399	8,841	12,755						
Carrots	n.a.	43	169	759	1,068	1,898						
Grapes used for:		10	105	105	-,000	1,070						
Wine	760	1,582	1,661	19,841	29,910	42,517						

Principal Crop Production, South East^(a) (Tonnes)

(a) Counties Buckingham, Cardwell, Grey, MacDonnell and Robe.

Forestry

The South Australian Woods and Forests Department was formed in 1875 and a nursery was established near the Leg of Mutton Lake at Mount Gambier in 1876. The first experimental plantings of *Pinus radiata* in the South East were at the Mount Gambier Lakes in 1879 and Mount Burr in 1880. In 1904 the department set up a sawmill at Moorak, near Mount Gambier, to saw radiata pine. Regular plantings commenced at the Mount Burr and Penola Forest Reserves in 1907.

Pinus radiata, a native of California (USA), is believed to have been introduced into Australia by the Californian gold miners who settled at Ballarat and Bendigo during the gold rushes of the 1850s. It requires a minimum annual rainfall of about 600 millimetres and it readily adapts to southern Australian conditions. This species is fast growing, has a long fibre wood, is easy to saw, readily accepts preservation treatment and is easy to dry by seasoning. At present, *Pinus radiata* accounts for more than 95 per cent of the plantations in the South East, with *Pinus pinaster* being planted in a few small areas where, because of less fertile soil, it is better suited than the radiata pine.

New plantations are established on previous farmland or in areas which have already brought one wood crop to harvest. For successful plantations, planting sites need to be cultivated by ploughing or ripping; pests such as rabbits have to be excluded and weed re–growth has to be controlled. The planting of seedlings, previously raised in nurseries, is carried out by hand or, where the area allows, by planting machine, to give approximately 1,600 trees per hectare.

A plantation may be thinned as many as six times. The first, at age 10 to 14 years, is to remove mostly suppressed and malformed trees. One row in six, called the extraction row, is completely removed to enable trucks to drive through the compartment to load. Subsequent thinnings produce progressively larger diameter logs. Plantations may be clear felled from 35 to 50 years of age.

The smallest logs provide the raw material for paper and particle board manufacture and some are pressure-treated for fencing purposes. Larger logs are cut into lengths and sent to the sawmills for the production of floor boards, constructional lumber, furniture stock and packing cases. Some

logs, more than 250 millimetres in diameter, are selected for peeling, and veneer from the knot-free sections is used for the manufacture of ice cream spoons, spatulas and similar products. Edge slabs from the larger logs are used to produce high quality wood chips to be used in the manufacture of particle board and paper.

There are three government forest districts containing seven forest reserves in the South East, *viz*. Mount Burr and Noolook Forest Reserves in the Mount Burr Forest District, Mount Gambier and Nyora Forest Reserves, in the Mount Gambier Forest District and Comaum, Penola and Cave Range Forest Reserves in the Penola Forest District. In addition there are private forest lands administered by companies at several locations, mostly adjacent to government plantations. At 30 June 1990 the net area of government plantations in the South East was 58,000 hectares.

Fishing

Southern rock lobster is the main product of the fishing industry in the South East. In 1989-90 season 1,528 tonnes of lobster with a landed value of \$22.5 million were taken off the South East coast. The main ports of landing are Port MacDonnell, Robe, South End, Beachport and Kingston.

Whole lobsters are cooked for marketing in Adelaide and the eastern States and tails are frozen and exported mainly to the United States of America. In recent years there has been an increasing emphasis on redirecting the frozen tail product into a live rock lobster export market in Asian countries. Plants at Kingston, Robe, Beachport and Port MacDonnell process the lobsters for export and local consumption.

In 1989–90 approximately 147 tonnes of abalone with an estimated value of \$2.1 million were taken in waters along the South East coast.

Manufacturing

Sawmilling

In 1904 the Woods and Forests Department established a small mill at Moorak, near Mount Gambier, to saw radiata pine thinnings from early plantations. Subsequently, several other small mills were erected, with a principal output of packaging materials.

By 1931 a large area of plantations had reached the age at which second and third thinnings could commence and the Department opened a sawmill equipped with a Swedish gang saw at Mount Burr. A similar mill was established at Nangwarry in 1940. Both of these mills have been progressively modernised with the latter having recently undergone a \$6.4 million upgrade.

In 1958 operations commenced at the Mount Gambier Sawmill, the largest sawmill of its kind in Australia. At present its log intake is in excess of 160,000 cubic metres annually and it produces structural timbers, mouldings, flooring and industrial packaging materials.

The three major government sawmills have associated thermal electric power stations fed on mill residue. The power stations at Nangwarry and Mount Gambier are connected to the Electricity Trust of South Australia network and contribute to the power supply for the region.

There are many privately owned sawmills in the area, several in the vicinity of Mount Gambier, one at Tarpeena and others are located near the forests. Some of these mills produce a large range of products.

Paper and Paperboard

In 1942 the production of paperboard commenced at the Snuggery Mill, 10 kilometres south of Millicent, and in 1963 a second board machine began production. The major input in this process is timber (from the nearby government forest) which is ground into pulp. Other raw materials include chemical pulps imported from overseas, waste paper, clay, alum, starch and dyes. The types of board produced include white lined manilla, document and tag manillas, pulp board, triplex board, container board and lined and unlined chip boards.

In July 1960, a small mill utilising forest thinnings to produce toilet tissue began operations near the paperboard mill. In July 1964 the plant was extended by the installation of a toilet tissue rewinder and later the same year an extensive expansion program commenced. This included a high speed tissue machine with associated pulping and bleaching equipment. In 1973 further expansion took place with the introduction of another high speed tissue machine and extensions to warehousing and converting capacity.

The range of base papers produced includes flat tissues, single and two-ply toilet tissues, facial and napkin tissues and paper towelling.

Particle Boards

Particle boards are pressed-sheet building and joinery boards made from chipped or flaked wood particles cemented with glue under heat and pressure. Sheets of particle board are widely used in furniture, cabinets, partitions, interior walls, ceilings and floors.

At present there are three particle board plants in the region; all are owned by the same company. The first plant was installed in 1956 and its output characterised by a series of holes, is used for office partitions and prefabricated panels for house construction.

The second plant commenced operations in 1960 and the third in 1967 and their product is used extensively in furniture manufacture.

Limestone and Dolomite

The use of limestone as a building material in the South East was first recorded by G.F. Angas after a visit he made to the area in company with Governor Grey in 1844.

Today the Marte area about 10 kilometres west of Mount Gambier is one of the largest producers of building stone in Australia. Annual production during the past 40 years has averaged about 20,000 tonnes of ashlars - large blocks of distinctive white to cream bryozoal limestone which are cut from quarry faces using mobile mechanical saws. The main zone of quarries is less than a kilometre wide but extends north-west to south-east for about six kilometres.

Limestone is also mined by ACI Resources Ltd from a deposit in the Caroline area 28 kilometres south-east of Mount Gambier. Most is transported to Melbourne for glass and fibreglass manufacture but some is also used for agricultural lime and as a filler in plastics and paint manufacture.

ACI also operates a quarry three kilometres north-east of Tantanoola to provide dolomite for flat glass and fibreglass manufacture. Approximately 40,000 tonnes of dolomite per year is transported interstate for the manufacture of window glass in plants at Dandenong (Victoria) and Ingleburn (NSW). Up to 10,000 tonnes per year is used locally as an agricultural additive.

Carbon Dioxide

Natural carbon dioxide (CO_2) was first discovered near Mount Gambier in 1966. There are very few commercial CO_2 wells of this type in the world and this is the first and only commercial operation in Australia. It is believed that this field has sufficient carbon dioxide to supply Australia's needs for at least the next 30 years.

Natural Gas

Reserve estimates for the Katnook and Ladbrook Grove gas fields in the Otway Basin confirm availability of gas to satisfy South East markets. A four-kilometre pipeline has been laid to connect the Katnook gas field to the new SAFRIES potato chip factory south of Penola.

Wine Industry

In the latter half of the nineteenth century John Riddoch established several fruitgrowing communities in an area known as the Coonawarra Fruit Colony which was part of his vast property,

Yallum Park. In 1891 vineyards were established, and wine cellars were built in 1896 on what is now the well known Terra Rosa soil – an area of about 15 square kilometres.

A second winery which concentrated on dry red wines was established in 1908. By this time the original winery which had changed hands several times was specialising in the distilling of brandy and spirits. Since the change in ownership in 1945, however, the original cellars have also concentrated in the production of red wine. Two additional wineries were completed in the 1960s and, since then, the industry has grown to such an extent that at 30 June 1989 there were eleven establishments classified to wine and brandy production in the Penola District Council area.

The main varieties of grapes grown in the Coonawarra area are Shiraz, Cabernet Sauvignon and Rhine Riesling.

At Padthaway, about 100 kilometres north of Mount Gambier, a further area has been developed for vine growing by several well-known wine producing companies.

At 31 March 1990 there were 3,208 hectares of grape–bearing vines in the South East Statistical Division which, in 1989–90, yielded 44,959 tonnes of grapes to be used in wine production.

Dairy Products

In the latter half of the nineteenth century the suitability of the milk from the area for cheese production was recognised by local farmers, and surplus milk was made into butter and cheese. Several of the farmers began processing the milk from neighbouring farms, thus becoming specialist manufacturers.

During this period some of the larger properties were subdivided to provide for closer settlement and this resulted in an increasing number of dairy farms. After 1900, a number of larger manufacturers had entered this field; many of these were co-operatives formed by the dairy farmers. The number of factories increased until the 1960s but since then the tendency has been for the number of manufacturing units to decrease. An example of this was the amalgamation of three co-operatives in 1971.

At 30 June 1989 there were three manufacturing establishments in the South East Statistical Division primarily engaged in cheese production.

Other Manufacturing

Other significant manufacturing establishments in the South East Statistical Division include meat processing works at Bordertown and Mount Schank, two seafood processing plants at Port Mac-Donnell, an abattoir at Naracoorte, a potato chip factory at Penola, a worsted spinning mill at Millicent, clothing manufacturer and furniture factory all located at Mount Gambier.

Retail Establishments

At 30 June 1986 there were 800 retail establishments operating in the South East Statistical Division with retail sales valued at \$329.2 million during 1985–86. Of these establishments, 524 were located in the Lower South East Statistical Subdivision.

Just over 28 per cent of all retail establishments operating in the South East Statistical Division were motor vehicle dealers, petrol and tyre retailers whose retail sales represented 42 per cent of total retail sales for the area. This represented a relatively high proportion when compared with South Australia where 24 per cent of retail establishments were classified to that industry group and had 38 per cent of total retail sales.

There were 240 food stores operating in the South East with retail sales of \$102.1 million, the second highest turnover for the various retail groupings.

Tourism

One of the major tourist attractions of the area is the volcanic cones and lakes at Mount Gambier, the major crater containing the Blue Lake which is famous for its unusual colour change in November each year from grey to rich blue and then back to grey again by June.

Other attractions include the pine plantations, the largest softwood forests in Australia, the sawmills which conduct tours of inspection, the limestone caves at Tantanoola and Naracoorte and the varied coastal scenery.

A variety of accommodation is available for tourists to the South East. At 30 June 1990 there were 10 hotels and 43 motels, with a total of 1,108 guest rooms and 3,308 bed–spaces. There were also 21 short–term caravan parks with 1,629 powered sites, 703 unpowered sites, 134 on–site vans and 111 cabins or units located at caravan parks.

Transport

Sea

In the early history of the South East the ports at Kingston, Robe, Beachport, Grey and Port MacDonnell were used extensively for the export of wool and importing of supplies from Adelaide. However, after the rail link with Adelaide was established in the 1880s, these ports declined in importance. Portland, an all-weather deep sea port in Western Victoria now provides a convenient outlet for some agricultural and pastoral products of the South East.

Road

There are two major road systems in the South East. The eastern area is served by roads from Keith and Bordertown on the National Route 8 (Dukes Highway) which run south through Naracoorte and Penola to Mount Gambier. The coastal towns are served by the Princes Highway which runs south along the coast through Kingston and Millicent to Mount Gambier. A network of minor roads links the smaller towns in the South East.

A highly efficient road transport system serves the area well for transportation of timber, general merchandise, livestock, frozen foods, petroleum products, chemicals and bulk liquid carbon dioxide.

Regular passenger bus services operate between Mount Gambier and Adelaide, nearby Victorian towns and Melbourne.

Rail

Rail connection between Adelaide and the South East has been operating since the 1880s. Freight trains run to both Adelaide and Melbourne.

Air

Mount Gambier has a privately owned all-weather airport run by the district council of Mount Gambier with sealed runways and air services to Melbourne and Adelaide. There are licensed aerodromes at Millicent and Naracoorte.

Media

The South East is served by the following radio stations, 5MG Mount Gambier, 5PA Naracoorte and ABC-FM, operated by the Australian Broadcasting Commission, and 5SE Mount Gambier, a commercial radio station. Two television stations operate in the area, the national stations ABGS1 and SBS, and the commercial station SES8.

A local newspaper the *The Border Watch* established in 1861, is published tri-weekly in Mount Gambier and papers from Adelaide and Melbourne are available daily in the larger towns.

Appendix

STATISTICAL SUMMARY

In the next twenty—one pages, a historical summary of some of the more important statistics relating to South Australia is shown. This is intended to present a general picture of the development of the State. Naturally the range of statistics available for the early years of the colony is very limited, and in addition it is not always possible to achieve perfect comparability in presenting details covering a period in excess of 150 years. Generally, all series on each page relate to either financial or calendar years but some financial year series have been included on pages which contain information shown in calendar years.

The first year shown on each page is the earliest for which any series on that page is available. Blanks at the top of some columns indicate that information relating to these particular series either was not collected or is not available for these early years, or is not available on a basis comparable to more recent statistics.

All major breaks in series are covered by footnotes, but minor changes are not so recorded, and the statistics should be interpreted with this in mind. An example can be quoted from the table on deaths from principal causes where comparability is affected somewhat by changes in classification, particularly in 1950, but no footnote to this effect has been included.

The following standard symbols have been used throughout the summary:

- n.a. not collected
- n.y.a. not yet available
- p preliminary figure or series subject to revision
- .. not applicable
- nil or less than half the final digit shown
- break in continuity of figures

					Annual popula	tion growth	
	Population	estimate at 31 E	ecember	Recorded natural increase	Rate of natural	Total	Rate of popula-
Year	Males	Females	Persons	(b)	increase (c)	increase	tion growth
							per cent
1836	309	237	546			546	
1841	8,755	6,730	15,485			855	5.84
846	14,711 37,321	11,182 29,217	25,893	577 1,786	22.29 26.85	3,433 2,838	15.29 4.46
851	56,264	51,622	66,538 107,886	3,341	20.83	10,499	10.78
861	67,409	63,403	130,812	3,589	28.00	5,230	4.17
866	88,024	80,883	168,907	4,029	24.39	7,430	4.60
871	97,019	91,625	188,644	4,704	25.21	4,098	2.22
876	116,894	107,666	224,560	4,674	21.51	14,484	6.89
881	152,453	133,518	285,971	6,696	23.81	9,578	3.47
886	160,814	145,896	306,710	6,943	22.54	-2,603	-0.84
891	168,826	155,895	324,721	6,526	20.23	5,774	1.81
896	179,024	173,043	352,067	5,974	16.95 14.29	99	0.03
901 906	(d)180,440 184,803	(d)178,890 181,710	(d)359,330 366,513	(d)5,105 5,049	14.29	(d)2,080 3,892	0.58 1.07
911	214,061	205,331	419,392	7.019	17.05	12,530	3.08
916 <i>(e)</i>	212,585	229,253	441.838	6,780	15.35	-4,147	-0.93
921	251,170	250,572	501,742	6,992	14.07	10,736	2.19
926	285,013	275,912	560,925	6,606	11.92	13,877	2.54
931	289,397	287,682	577,079	4,191	7.28	2,612	0.45
941 <i>(e)</i>	301,645	304,721	606,366	4,677	7.78	7,310	1.22
$946(e) \dots$	317,238	323,180	640,418	9,352	14.72	9,536	1.51
951	375,188 436,807	368,597 425,145	743,785 861,952	10,279 11,371	14.03 13.40	20,942 27,291	2.90 3.27
956 961	494,600	484,800	979,400	14,584	15.03	22,400	2.68
964	529,100	522,900	1,052,000	12,002	11.57	29,600	2.89
965	544,300	538,700	1,083,000	12,146	11.38	31,000	2.95
966	554,000	549,800	1,103,700	11,017	10.07	20,700	1.92
967	559,300	556,700	1,115,900	11,315	10.19	12,200	1.10
968	566,700	565,400	1,132,100	11,291	10.06	16,200	1.45
969	574,700	574,700	1,149,400	12,640	11.09	17,200	1.52
970	<u>584,400</u> 602,000	<u>585,900</u> 606,700	$\frac{1,170,200}{1,208,700}$	12,479	10.77	20,900	<u>1.81</u>
971 972	608,800	613,400	1,208,700	12,020	9.89	13,400	1.10
973	615,700	619,900	1,235,600	10,474	8.53	13,400	1.09
974	627,700	632,000	1,259,800	9,906	7.97	(f)24,200	1.95
975	633,200	637,500	1,270,700	9,958	7.87	10,900	0.86
976	637,800	642,300	1,280,200	8,902	6.98	9,500	0.75
977	643,200	649,100	1,292,300	9,406	7.31	12,100	0.94
978	645,400	653,200	1,298,600	8,781	6.78	6,300	0.49
979	648,200	656,400	1,304,600	8,753	6.73	6,000	0.46
980	651,600 657,000	661,100 668,200	1,312,600 1,325,200	8,861 9,550	6.77 7.24	8,000 12,600	0.61
981 982	663,600	674,100	1,325,200	9,550 8,751	6.57	12,600	0.96
983	671,700	681,500	1,353,200	9,961	7.40	15,400	1.15
984	678,000	687,400	1,365,300	9,952	7.32	12,100	0.89
985	684,400	692,400	1,376,800	9,295	6.78	11,500	0.84
986	690,600	697,500	1,388,200	9,413	6.81	11,400	0.83
987	697,100	704,200	1,401,400	8,704	6.24	13,200	0.95
988	704,900	711,700	1,416,600	8,466	6.01	15,200	1.08
989	712,800	719,000	1,431,800	8,285	5.82	15,200	1.07

POPULATION AND DEMOGRAPHY^(a)

(a) Figures before January 1962 exclude full-blood Aborigines. Figures from 1971 are compiled on the basis of estimated resident population. (b) Births and deaths of full-blood Aborigines, where identified in registration, have been excluded from natural increase figures before 1 January 1962. (c) Excess of births over deaths per 1,000 of mean population. From 1971 mean estimated resident population. (d) Includes Northern Territory before 1901. (e) During the 1914-18 War, defence personnel leaving the State were treated as departures, but during the 1939-45 War they were retained in the population, and troops of other States and countries were excluded. (f) Effect of Cyclone Tracy.

		Live birth	is	Adoptions (b)	Ma	rriages	Diva	rces (c)
Year	Number	Rate (a)	Ex-nuptial (%)	Number	Total	Rate (a)	Total	Rate (a)
1846	937	36.2			220	8.5	_	
1851	2,759	41.5			189	2.8		
1856	4,488	41.6		57	1,171	10.9		
1861	5,551	43.3		49	1,158	9.0		
1866	6,782	41.1		43	1,299	7.9		
1871	7,082	38.0		67	1,250	6.7		
1876	8,224 10,708	37.8	2.2	93	1,852	8.5		
1881 1886	10,708	38.1 36.3	2.3 2.4	84 82	2,308 1,976	8.2 6.4	10	0.0
1891	10,737	33.4	2.9	63	2,315	7.2	5	0.0
1896	10,012	28.4	3.5	76	2,183	6.2	6	0.0
1901	9,079	25.4	4.0	67	2,304	6.5	6	0.0
1906	8,921	24.6	4.0	85	2,679	7.4	3	0.0
1911	11,057	28.9	4.2	60	4,036	9.8	20	0.0
1916	11,857	26.9	3.8	104	3,602	8.2	14	0.0
1921	11,974	24.1	3.1	111	4,383	8.8	88	0.2
1926	11,483	20.7	3.1	216	4,503	8.1	71	0.1
1931	9,079	15.8	3.3	241	3,069	5.3	138	0.2
1936 1941	8,911 10,965	15.2 18.2	3.1 2.8	297 319	5,182 6,855	8.8 11.4	213 273	0.4 0.5
	-							
1946	15,813	24.9 23.8	3.2 2.9	371 399	6,700 6,646	10.6 9.1	654 637	1.0
1951 1956	17,463 18,964	23.8	3.4	402	6,277	9.1 7.4	567	0.9 0.7
1957	19,536	22.4	3.3	470	6,581	7.5	529	0.6
1958	20,047	22.4	3.7	472	6,505	7.3	483	0.5
1959	20,372	22.1	3.7	575	6,614	7.2	503	0.5
1960	20,966	22.2	4.0	571	6,607	7.0	610	0.6
1961	22,399	23.1	4.6	594	6,804	7.0	718	0.7
1962	21,361	21.7	4.8	591	7,021	7.1	685	0.7
1963	21,367	21.2	5.0	644	7,302	7.2	765	0.8
1964	20,866	20.2	5.9	619	7,765	7.5	887	0.9
1965	20,891	19.6	6.3	717	8,680	8.2	852	0.8
$1966(d) \dots$	20,362 20,386	18.6	6.8	783	9,051	8.3	1,069 929	1.0
1967 1968	20,380 21,207	18.4 18.9	6.7 7.4	839 780	9,434 9,652	8.5 8.6	929 915	0.8 0.8
	21.077	10.2	6.9	797	10 500	0.2	963	0.0
1969 1970	21,977 22,617	19.3 19.5	7.6	834	10,599 10,864	9.3 9.4	903	0.8 0.8
1971	22,996	19.4	7.8	879	10,833	9.2	1,264	1.1
1972	21,844	18.2	8.3	776	10,829	9.1	1,235	1.0
1973	20,407	16.8	8.8	649	10,806	9.0	1,582	1.3
1974	20,181	16.3	9.3	558	10,769	8.8	1,561	1.3
1975	19,986	16.0	9.7	551	9,843	8.0	1,812	1.4
1976	18,947	14.9	9.4	549	10,902	8.6	(f)6,142	4.8
1977 1978	19,260 18,558	15.0 14.3	9.8 11.0	658 506	10,126 9,800	7.9 7.6	4,419 3,805	3.4 2.9
		14.5	11.0			7.0	5,605	2.9
1979 1980	18,478 18,499	14.2 14.1	11.4 12.5	415 475	9,778 10,064	7.6 7.8	3,794 4,203	2.9 3.2
1980	19,351	14.1	12.5	505	10,004	7.8 7.8	4,205	3.1
1982	19,294	14.5	13.1	396	10,935	8.2	4,526	3.4
1983	(e)19,830	14.8	14.3	424	10,550	7.9	4,431	3.3
1984	20,052	14.8	14.5	438	10,643	7.9	4,114	3.0
1985	19,790	14.5	14.6	222	10,148	7.4	4,216	3.1
1986	19,741	14.4	17.5	347	9,878	7.2	3,776	2.8
1987 1988	19,235 19,155	13.8 13.6	17.8 18.8	346 244	9,695 10,128	7.0 7.2	4,050 4,031	2.9 2.9
1989	19,610	13.8	21.1	229	9,776	6.9	3,740	2.6

BIRTHS AND SOCIAL

(a) Rate per 1,000 of mean population. From 1976 mean resident population. (b) Year ended 30 June. (c) Dissolutions made absolute. (d) Vital events of full-blood Aborigines, where identified in registrations, were excluded before 1966.
 (e) From 1983 State of usual residence not State of registration. (f) The Family Law Act 1975 (Cwlth) came into operation throughout Australia in 1976.

		DEATHS	•			
			Rates from causes		Infe	unt (b)
Year	Number	Rate (a)	Diseases of the heart	Cancer	Number	Rate (c)
1841			(
1846	360	14.0				
1851	973	14.6			539	195.4
1856	1,147	10.6		0.1	610	135.9
1861	1,962	15.3		0.1	1,064	191.7
1866	2,753	16.7		0.2	1,385	204.2
1871	2,378	12.7		0.2	851	120.2
1876	3,550	16.3		0.4	1,228	149.3
1881	4,012	14.3		0.3	1,364	127.4
1886	4,234	13.8		0.3	1,409	126.1
1891	4,211	13.1		0.5	976	90.8
1896	4,038	11.5		0.5	1,015	101.0
1901	3,974	11.1		0.6	909	100.1
1906	3,872	10.7	1.0	0.8	675	75.7
1911	4,038	9.8	1.0	0.7	670	60.6
1916	5,077	11.5	1.3	0.8	. 868	73.2
1921	4,982	10.0	1.1	0.9	784	65,5
1926	4,877	8.8	1.0	1.0	509	44.3
1931 1936	4,888 5,464	8.5 9.3	1.4 1.9	1.2	330	36.4
1930	5,404	9.5	1.9	1.3	277	31.1
1941	6,288	10.5	2.6	1.3	356	32.5
1946	6,461	10.2	3.0	1.3	428	27.1
1951	7,184	9.8	3.2	1.2	428	24.5
1956	7,593 7,576	9.0 8.7	3.2 2.9	1.2 1.3	377 403	19.9
1957	7,570	0.7	2.9	1.5	405	20.6
1958	7,743	8.6	2.9	1.3	449	22.4
1959	7,943	8.6	2.9	1.2	422	20.7
1960	7,804	8.3	3.1	1.2	397	18.9
1961 1962	7,815 8,232	8.1 8.4	2.9 3.1	1.3 1.4	448 409	20.0 19.2
1902	0,232	0.4	5.1	1.4	409	19.2
1963	8,201	8.1	3.0	1.3	399	18.7
1964	8,906	8.6	3.2	1.3	397	19.0
1965	8,788	8.3	3.1	1.3	385	18.4
1966(<i>d</i>) 1967	9,345 9,071	8.5 8.2	3.2 3.1	1.3 1.4	364 346	17.9 17.0
1907	9,071	0.2	5.1	1.4	540	17.0
1968	9,916	8.8	3.3	1.4	345	16.3
1969	9,337	8.2	3.0	1.5	347	15.8
1970	10,138 9,686	8.8	3.2	1.4	367	16.2
1971 1972	9,080	8.2 8.1	2.9 2.9	1.4 1.5	366 367	15.9 16.8
1272	5,707	0.1	2.9	1.5	507	10.0
1973	9,835	8.1	3.0	1.5	276	13.5
1974	10,236	8.3	3.0	1.5	312	15.5
1975 1976	9,947 9,999	7.9 7.8	2.9 2.9	1.5 1.5	222 276	11.1 14.6
1977	9,784	7.6	2.9	1.5	221	14.0
	2,101		2.0		221	11.5
1978	9,763	7.5	2.8	1.5	227	12.2
1979 [°]	9,661	7.4	2.8	1.5	166	9.0
1980 1981	9,580 9,706	7.3 7.4	2.6 2.6	1.6 1.7	187 157	10.1 8.1
1982	10,457	7.4 <u>7.9</u>	2.0	<u>1.7</u>	221	0.1 11.5
1983(e)	9,869	7.3	2.6	1.7	183	9.2
1984 1985	10,099 10,496	7.4 7.7	2.6 2.7	1.8 1.8	152 188	7.6 9.5
1986	10,328	7.5	2.7	1.8	146	9.3 7.4
1987	10,531	7.6	2.7	1.8	165	8.6
	10 (00		a -			
1988	10,690	7.6	2.7	1.9	152	7.9
1989	11,348	8.0	2.7	1.9	146	7.4

DEATHS

(a) Rate per 1,000 of mean population. From 1976 mean resident population. (b) Under one year of age from 1871, previously under two years of age. (c) Rate per 1,000 live births registered. (d) Vital events of full-blood Aborigines, where identified in registrations, were excluded before 1966. (e) From 1983 State of usual residence not State of registration.

			Primary a	nd second	tary					
		Governme	ent schools (a)		Non-gover	mment schools		Tertiary stud	ents	
		Sti	udents		Sti	ıdents	Univers-	Colleges of Advanced	Technical and Further	
Year	No.	Primary	Secondary	No.	Primary	Secondary	ities (b)	Education	Education	
1851	115	3,031								
1856	147	6,516								
1861	219	10,711		236						
1866	292	14,690		n.a.						
1871	307	15,791		n.a.						
1876	281	25,889		326			58			
1881	405	36,888		363			74			
1886	504	44,405		n.a.			197			
1891	552	47,094		285			246			
1896	639	59,944		232			320			
1901	706	63,183		230			591			
1906	708	57,270		215	(c)9		626			
1911	743	53,494	1,800	179	(c)11		641			
1916	857	63,935	3,047	(d)218	(d)12		491			
1921	973	77,111	3,067	171	13	,951	1,338			
1926	1,019	79,204	6,527	188		,139	1,575			
1931	1,075	81,218	10,503	186	14	,310	2,092			
1936	1,100	75,411	9,280	174		,993	2,025			
1941	1,006	63,303	10,761	167		,915	2,211			
1946	811	61,242	11,870	145	16	,310	3,723			
1951	728	81,642	14,106	146		,677	3,720			
1956	699	118,365	22,134	163		,050	3,828			
1961	688	135,274	41,889	165		,652	6,250			
1966	700	154,253	60,834	172	(e)24,188	(e)12,999	9,364			
1967	674	157,424	65,630	173	23,533	13,469	9,658			
1968	683	157,997	58,814	171	22,814	13,599	9,803			
1969	676	159,682	71,599	171	22,257	14,203	10,128	3,420		
1970	681	156,922	71,866	170	22,464	14,642	10,176	3,443		
1971	662	156,458	74,982	169	22,669 22,232	15,018	10,682	4,242	70 540	
1972	(f)615	154,886	77,926	163	22,232	15,233	11,124	(g)4,291	78,540	
1973	614	152,698	79,088	163	21,929	15,806	11,497	6,662	78,214	
1974	613	152,901	79,578	157	22,399	16,494	12,264	12,163	88,154	
1975	619	151,975	82,737	151	22,479 22,177	16,818	12,876	13,773	91,421	
1976	625 626	151,499 152,079	82,115 81,131	147 145	22,177	17,122 17,085	13,493 13,390	14,560 15,168	124,305 139,651	
1977	020	132,079		145	22,301	17,065	15,590	15,108	159,051	
1978	628	149,964	80,491	151	22,353	17,088	12,904	15,996	137,837	
1979	632	146,793	77,732	155	22,591	17,381	12,840	16,042	147,329	
1980	638	142,290	76,392	159	23,347	17,769	12,677	16,976	149,437	
1981 1982	638 (h)716	$137,860 \\ 131,250$	75,173 75,266	163 169	24,729 25,805	18,583 19,952	12,811 12,892	17,558 17,031	163,440 168,007	
	• •	-						,		
1983	714	127,334	78,183	173	27,183	21,087	13,242	17,158	177,913	
1984	708	121,615	79,605	174	(i)27,427	21,957	13,584	18,277	169,430	
1985	708 711	117,588 115,388	78,648 75,686	175 178	28,133 28,729	23,113 24,059	13,833 13,971	18,434 19,742	139,129 140,892	
1986 1987	717	112,311	73,680	178	28,729	24,039	13,971	18,903	140,892	
			,		,	,		,		
1988	715	112,349	71,108	178	29,912	25,333	15,142	20,178	(j)110,521	
1989	708	117,266	67,259	183	31,127	25,236	16,069	21,836	100,931	

EDUCATION

(a) Net enrolment to 1969, thereafter at census date (at or about 1 August, or 1 July). Includes Northern Territory before 1958. (b) Excludes students at Conservatorium of Music not also enrolled for degree or diploma subject. (c) On last school day. (d) Non-government schools compulsorily registered, previous years incomplete. From 1916 to 1961 net enrolment including Northern Territory. (e) From 1962 at census date. Excludes Northern Territory. (f) From 1972 includes only primary and secondary, before 1972 included technical institutions. (g) In approved courses at colleges of advanced education. (h) Government junior primary schools counted separate from 1982. (i) From 1984 includes a small number of special students. (j) Data are not comparable to previous years because of reduction of double counting of individuals.

	Mental	d hospitals	Recognise	
Medic practitione registere	hospitals admissions during year (a)	Admissions	Number of hospitals	'ear
, ,	10		1	846
é	9	413	1	851
10	69	559	1	.856
1	68	795	1	861
8	88	1,257	1	866
7	111	1,433	1	871
9	149	2,282	1	876
11	199	2,258	1	881
15	207	2,022	1	886
17	224	2,301	1	891
27	195	2,633	1	896
34	214	3,554	1	901
24	231	4,476	9	906
29	273	8,547	21	911
32	302	12,453	27	916
36	272	15,642	31	921
44	249	22,438	45	926
45	250	26,505	51	931
47	272	34,014	52	.936
81	247	40,593	55	941
94	<i>(b)</i> 302	(b)46,696	(b)58	946
1,17	452	57,401	60	951
1,39	553	69,295	65	956
1,46	543	73,249	65	957
1,50	659	75,282	64	958
1,60	712	79,426	65	959
1,68	1,637	82,948	65	960
1,73	1,846	87,386	66	961
1,82 1,88	1,925 2,604	89,409 94,144	65 65	962 963
2,00	3,132	99,491	65	964
2,08	3,061	105,098	65	965
2,17	2,810	111,313	67	966
2,28	2,866	117,693	65	967
2,37	2,733	122,835	65	968
2,47	2,964	132,864	65	969
2,56	3,378	135,433	66	970
2,70	3,527	135,927	67	971
3,05	3,602	147,058	68	972
3,15	3,225	158,261	69	973
3,34	3,309	164,797	70	974
3,76	3,410	168,832	71	975
4,53	3,665	179,733	73	976
4,57	3,489	190,806	81	977
4,78	3,648	202,802	81	978
4,80	3,971	216,315	81	979
5,10	4,470	220,138	81	980
5,50	6,279	228,593	81	981
4,77	6,790	222,319	81	982
4,99	5,867	237,625	81	983
5,20	6,084	249,572	81	984
5,24	7,026	241,123	81	985
5,27	7,700	242,709	81	986
5,31	6,210	246,004	81	987
5,33	5,456	251,148	81	988
n.y.	4,274	n.y.a.	81	989

HEALTH

(a) From 1959–60 covers all in-patients (certified and voluntary) in institutions. Before this covered only certified patients in two 'long-term' institutions. (b) Year ended 30 June from 1946.

	Ce	ourts			Pensi	ioners (d)
	Matters	proven (a)				Disability
Year	Higher courts (b)	Lower courts (c)	Police personnel	Bank– ruptcies	Age and invalid	and service
1041	27			24		
1841 1846	37 40			36 16		
1851	103		127	106		
1856	85	2,919	174	88		
1861	62	3,025	151	115		
1866	107	4,341	208	252		
1871	91	4,864	187	247		
1876	129	7,905	257	200		
881	213	13,231	371	696		
1886	121	6,808	401	535		
1891	85	6,918	388	142		
1896	110	5,149	347	240		
1901	98	4,968	359	165		
1906	92	5,249	373	172		
1911	74	7,303	423	190		
1916	52	7,145	541	324	10,993	794
1921	97	8,968	566	155	12,320	14,663
1926	174	21,417	633	439	14,098	16,144
1931	274	14,760	763	996	20,602	16,653
1936	171	14,920	701	551	26,134	15,997
1941	177	21,990	707	284	29,642	15,424
1946	231	(e)20,585	(<i>e</i>)830	23	29,512	30,687
1951	307	28,675	913	53	36,582	51,589
1956	362	28,221	1,018	150	47,754	66,535
1961	606	52,155	1,376	561	60,483	72,695
1966	738	71,694	1,595	648	67,999	68,439
1967	707	87,110	1,660	660	70,521	66,624
1968	692	105,027	1,777	759	74,016	65,078
1969	712	105,966	1,845	659	76,616	62,986
1970	694	114,499	1,881	611	85,076	61,928
1971	(f)931	110,543	1,971	(g)626	88,936	60,406
1972	964	123,063	2,063	643	92,771	58,682
1973	982	(h)94,068	2,167	554	104,350	59,707
1974	906	93,037	2,264	373	116,117	59,522
1975	989	104,402	2,461	437	123,627	(i)59,130
1976	1,080	95,758	2,548	351	130,229	59,536
1977	1,075	105,224	2,718	456	136,473	60,492
1978	1,258	105,413	2,879	673	141,941	61,642
1979	1,281	88,404	3,093	847	146,860	62,505
1980	n.a.	n.a.	(j)3,423	1,016	159,599	65,109
1981	n.a.	n.a.	3,427	1,012	153,210	67,696
1982	1,321	(k)15,384	3,400	860	155,924	69,924
1983	1,935	(1)31,102	3,357	962	160,694	73,812
1984	2,213	32,526	3,361	817	(m)171,418	76,686
1985	2,923	29,455	3,373	706	172,064	77,967
1986	2,549	31,918	3,492	922	174,057	78,401
1987	3,096	30,235	3,661	1,353	175,795	74,944
1988	n.y.a.	n.y.a.	3,573	1,414	180,973	74,342
1989	n.y.a.	n.y.a.	3,565	1,326	183,330	72,393

LAW AND ORDER : SOCIAL WELFARE

(a) Each type of offence counted separately when there are multiple charges against an individual. (b) Distinct persons only. From 1982 includes corporate bodies. (c) Year ended 30 June from 1943 to 1983. (d) Year ended 30 June. (e) Year ended 30 June from 1943. (f) Year ended 30 June from 1971. (h) Excludes juvenile offenders from 1973. (i) From 1974-75, war pensions known as disability pensions. (j) From 1980 includes trainees, cadets and probationary constables. (k) Excludes offences relating to the Road Traffic Act. (l) From 1983 excludes minor traffic offences. (m) Includes carer pensions from 1984.

							Un	employed (a)
		ilian force (a)		vilian vment (a)		ectory yment (b)	Nu	mber	Rate (c)
Year	Males	Females	Males	Females	Males	Females	Males	Females	Persons
······	'000	'000	'000	'000	'000	'000	'000	'000	per cent
1911 1916–17 1920–21 1925–26 1930–31					22.6 20.8 24.5 33.1 19.3	5.3 5.2 5.9 6.9 4.6			
1935–36 1940–41 1945–46 1950–51 1951–52					31.4 40.1 49.5 66.8 68.0	7.1 10.8 13.7 16.2 15.9			
1952–53 1953–54 1954–55 1955–56 1956–57					67.1 70.7 73.7 76.1 75.5	13.4 14.8 15.9 16.4 16.4			
1957–58 1958–59 1959–60 1960–61 1961–62					75.9 77.4 81.3 81.9 81.8	16.6 16.7 17.7 18.1 17.3			
196263 196364 196465 196566 196667	321.9	143.5	316.6	136.5	86.7 90.9 94.7 96.2 96.1	18.6 19.9 21.5 22.1 22.1	5.3	7.0	2.6
1967–68 1968–69 1969–70 1970–71 1971–72	319.8 328.7 332.7 335.4 343.2	144.5 152.1 161.2 168.1 170.1	315.0 323.9 329.3 331.4 338.0	138.1 146.0 155.8 163.1 162.1	<u>98.9</u> (d)93.3 95.4 n.a. 96.3	22.5 (d)23.0 24.4 n.a. 25.4	4.9 4.9 3.4 4.0 5.1	6.4 6.2 5.4 5.0 7.9	2.4 2.3 1.8 1.8 2.5
1972–73 1973–74 1974–75 1975–76 1976–77	348.9 358.3 364.3 366.5 <u>372.0</u>	182.2 196.5 200.9 211.3 <u>217.0</u>	341.5 352.9 358.5 355.0 <u>361.0</u>	172.6 188.0 190.9 194.3 203.2	97.8 <u>100.6</u> (<i>e</i>)91.8 91.0 89.2	27.7 <u>30.8</u> (<i>e</i>)25.6 26.1 24.9	7.5 5.3 5.8 11.5 11.0	9.6 8.4 10.0 17.0 <u>13.7</u>	3.2 2.5 2.8 4.9 <u>4.2</u>
1977–78 1978–79 1979–80 1980–81 1981–82	(f)380.1 376.1 376.2 375.7 274.2	(f)223.0 224.0 222.2 229.7 229.5	(/)356.0 352.2 349.8 350.7 348.7	(f)206.5 203.2 200.4 210.3 208.6	82.9 82.8 82.6 80.9 81.0	22.9 23.7 23.0 23.1 22.6	(f)24.1 23.9 26.4 25.0 25.5	(f)16.5 20.8 21.8 19.5 20.8	(f)6.7 7.4 8.1 7.3 7.7
1982–83 1983–84 1984–85 1985–86 1986–87	382.1 (g)384.5 390.0 (h)396.5 396.2	224.5 (g)236.7 248.1 (h)260.7 269.3	338.9 (g)349.9 358.0 (h)365.5 362.9	199.7 (g)214.6 226.0 (h)241.2 245.9	70.5 70.9 71.3 n.a. 67.7	19.9 20.8 21.2 n.a. 22.5	43.1 (g)34.6 32.0 (h)31.0 33.2	24.8 (g)22.0 22.1 (h)19.5 23.5	11.2 (g)9.1 8.5 (h)7.7 8.5
1987–88 1988–89 1989–90	399.0 410.7 422.7	279.7 287.1 290.2	364.8 382.2 394.3	255.8 266.3 269.8	71.7 77.3 n.y.a.	23.5 25.8 n.y.a.	34.2 28.5 28.4	23.9 20.8 20.4	8.6 7.1 6.8

EMPLOYMENT AND UNEMPLOYMENT

(a) From the June Labour Force Survey from 1978; August in earlier years. (b) Average employment (including working proprietors), over the year to 1967–68. From 1968–69 employment at 30 June. (c) The unemployment rate is the number unemployed as a proportion of the number in the labour force. (d) Direct comparisons with previous years are not possible because of changes in the scope of the census. (e) From 1974–75 excludes single establishment enterprises employing fewer than four pressons. (f) Labour force before 1977–78 are based on 1976 Census benchmarks. From 1977–78 estimates are based on 1981 Census benchmarks. (g) From 1983–84, labour force based on 1986 Census benchmarks. (h) Estimates for periods before April 1986 are based on the old definition of employed persons.

	State liv	ving wage	minim	ic and um wage es (a)		ım weekly rates (b)	Award rates of pay indexes (c)	
31 December	Males	Females	Males	Females	Males	Females	Males	Female
	\$	\$	\$	\$	\$	\$	-	
911			5.10					
916	5.40		6.15		5.90	2.48		
921	7.95	3.50	7.95		8.94	4.52		
926	8.55	3.95	8.55		9.57	5.00		
931	6.30	3.15	5.81		7.50	4.39		
936	6.60	3.30	6.90		7.95	4.33		
941	8.70	4.35	8.40		10.58	5.54		
946	9.85	5.50	10.20		12.41	7.60		
951	19.50	14.60	19.50	14.60	23.60	17.02		
952	22.90	17.15	22.90	17.15	27.08	19.68		
953	23.10	17.30	23.10	17.30	27.35	19.91		
954	23.10	17.30	23.10	17.30	28.16	19.99		
955	23.10	17.30	23.10	17.30	28.50	20.18		
956	24.10	18.05	24.10	18.05	29.63	20.92		
957	25.10	18.80	25.10	18.80	20.69	21.95		
958	25.60	19.20	25.60	19.20	31.24	22.38		
959	27.10	20.30	27.10	20.30	33.99	23.92		
960	27.10	20.30	27.10	20.30	34.22	24.29		
961	28.30	21.20	28.30	21.20	35.46	25.20		
962	28.30	21.20	28.30	21.20	35.65	25.23		
963	28.30	21.20	28.30	21.20	36.40	25.52		
964	30.30	22.70	30.30	22.70	38.69	27.29		
965	30.30	22.70	30.30	22.70	39.48	27.75		
966	32.30	24.20	32.30	24.20	41.75	29.42		
967	33.30	25.20	(a)37.05	21.20	43.79	31,32		
968	34.65	26.55	38.40		48.23	33.60		
969	(d)34.65	(d)26.55	41.90		50.76	35.94		
970	(d)34.65	(d)26.55	41.90		52.12	37.51		
971	37.85	29.00	45.90		59.38	44.16		
972	39.85	31.00	50.60		65.82	50.50		
973	43.15	34.10	59.60		75.20	62.11		
974	46.50	37.30	67.60	(e)60.80	103.32	91.47		
975	(f)	(f)		2.40	115.13	103.34		
976	0,	07		0.20	132.20	125.62	104.3	104
977				.80	145.69	139.06	115.1	114
978			119	9.60	158.53	149.15	124.2	123
979				3.40	167.12	154.58	131.1	128
980				1.40	184.39	172.56	146.2	144
981				1.40	215.25	192.63	167.1	160
982				1.40	(g)229.10	(g)209.52	186.1	181
983			150).60	(<i>h</i>)	(<i>h</i>)	195.8	191.
984				5.80	12	()	204.8	202
985				3.50			(i)103.8	(i)103.
986				2.40			106.3	106
987				2.40			111.5	111.
988			188	3.40			119.1	119

WAGES

(a) Provisions for minimum wages (for adult males only) were inserted in Commonwealth Awards in July 1966 and basic wages were replaced by the total wage concept in July 1967. (b) Adult rates for all industries excluding rural. (c) Base: weighted average minimum award rate, June 1976 = 100.0. Includes wage and salary earners for all industries except rural, permanent defence forces and private households employing staff. (d) An economic loading of 3 per cent of the sum of the living wage plus margin was added to all award rates of pay from December 1969 to January 1971. (e) Between May 1974 and June 1975 the minimum wage for adult males was extended to adult females in three steps. (f) Increased to \$48.20 and \$38.60 for males and females respectively from May 1975 and abolished in September 1975, award rates thereafter being specified as total wages. (g) At 1 August. (h) Discontinued and replaced by award rates of pay indexes. (i) Base: June 1985 = 100.0.

		Reta	il price ind	lexes: Ade	laide			ultural pr incipal ma	
	' <i>C</i> '	Series (a	1)		Consumer	·(b)	Wheat (per	Barley	
Year	Food and groceries	Rent	All groups	Food	Housing	All groups	tonne) (c)	(per tonne)	Woo (per kg
							\$	\$	cent
901	575								
911	570	010	000				12.71	16.53	15.5
921	941 1,045	819 927	989 1,026				29.39 22.82	19.49 17.64	24.74 27.4
926 931	789	755	837				8.41	9.92	12.5
936	798	795	839				14.07	9.83	21.8
941	905	893	988				16.42	21.43	21.7
946	1,006	894	1,120				29.47	27.91	24.7
947	1,067	897	1,165				36.49	39.33	40.5
948	1,230	903	1,277				56.70	74.30	65.9
949	1,351	912	1,393	38.6	38.4	45.0	45.64	36.95	81.0
950	1,494	929	1,521	41.7	40.0	48.4	52.98	49.69	106.1
951	1,931	949	1,833	48.2	42.5	54.6	53.76	51.54	237.2
952 953	2,380 2,444	1,055 1,155	2,159 2,246	62.5 68.7	47.6 55.9	66.8 73.1	60.63 61.77	71.74 71.12	118.5 137.7
954	2,525	1,174	2,277	71.2	61.5	74.7	53.35	44.84	138.1
955	2,657	1.247	2,354	72.9	63.2	75.6	49.05	59.97	120.6
956	2,871	1,358	2,466	76.2	67.6	78,1	49.60	46.74	103.5
957	2,710	1,468	2,463	78.9	72.3	81.2	53.28	48.50	135.6
958	2,768	1,592	2,536	76.9	74.9	81.8	53.50	52.38	103.0
959	2,998	1,674	2,647	80.7	76.7	83.6	51.51	49.43	83.8
960				84.6	78.3	86.2	53.83	44.53	98.8
961				90.9 87.7	83.2 85.9	89.8 89.5	55.37 55.70	40.39 49.43	88.4 91.6
962 963				86.6	86.7	89.1	53.94	48.94	98.9
964				88.8	88.7	90.2	52.65	49.12	119.5
965				93.9	92.1	93.9	51.88	50.84	97.3
966				97.1	95.7	97.0	55.15	51.85	102.9
967				100.0	100.0	100.0	54.67	52.56	99.6
968				104.7	102.1	102.9	58.86	52.47	82.8
969				106.4	104.7	105.3	50.01	41.09	91.7
970				107.1 109.5	109.3 115.9	108.2	51.88 52.98	36.82 49.21	75.0 59.7
971 972				113.6	124.4	112.5	55.26	49.21	72.2
973	N	ot calcul	lated	123.1	133.3	126.5	56.09	59.30	178.0
974				148.3	150.6	143.9	103.20	87.59	176.5
975				163.7	185.3	169.7	111.21	106.11	120.1
976				<u>180.6</u>	222.1	190.5	104.46	98.14	134.4
977				(d)65.6 73.1	(d)75.6 81.9	(d)70.5 77.5	90.36 102.20	106.52 88.37	173.3 179.0
978									
979				80.6 90.9	86.0 92.1	83.2 91.6	127.83 153.24	83.95 126.84	193.6 224.5
980 981				100.0	92.1 100.0	100.0	155.24	120.84	24.5
982				100.0	110.1	110.5	159.61	139.47	262.8
983				118.9	123.4	123.5	177.54	155.35	260.2
984				127.2	136.2	132.3	164.86	153.95	281.1
985				134.5	150.5	138.7	173.72	136.06	281.8
986				145.4	161.7	150.2	170.63	122.58	304.9
987 988				157.1 165.4	169.4 175.1	164.0 175.0	149.69 169.07	115.85 123.36	343.4 493.0
989				188.9	220.4	201.2	215.62	168.65	540.6

(a) Base: average all groups, six capital cities 1923 to 1927 = 1,000. (b) Base of each group 1966-67 = 100.0. Index numbers are average for year ended 30 June in the year stated. (c) Bulk wheat from 1962, previously bagged. (d) Base of each group 1980-81 = 100.0.

	Rainf	all	Evaporation	Sunshine	7	emperature	
Year	Days of rain	Total	Total	Total	Extreme maximum	Extreme minimum	Mean
	days	mm	mm	hours	°C	°C	°C
1841	93	459					
1846	114	651					
1851	128	786					
1856	118	635					
1861	147	602			42.8	1.7	17.4
1866	121	514			43.1	2.9	17.7
1871	125	592	1,345		44.1	3.0	17.8
1876	104	344	1,548		45.7	0.3	16.9
1881	127	460	1,422		41.0	1.8	16.7
1886	118	368	1,421	2,588	44.7	2.0	17.1
1891	109	353	1,322	2,753	39.3	2.3	16.8
1895	121	385	1,337	2,644	44.0	1.3	17.4
1901	119	459	1,494	2,523	43.3	1.8	17.5
1906	130	674	1,400	2,366	45.1	2.3	17.6
1911	127	408	1,233	2,415	39.3	1.6	17.2
1916	142	715	1,411	2,512	41.9	3.5	16.7
1921	100	575	1,478	2,658	43.1	2.8	18.2
1926	116	429 567	1,473 1,517	2,689	40.1 45.9	3.0	17.3 16.8
1931 1936	146 123	493	1,525	2,534 2,431	43.9 39.8	3.1 2.8	17.1
1941	125	575	1,604	2,472	43.3	3.3	16.9
1946	135	575	1,385	2,301	41.3	2.0	16.3
1951	135	648	1,645	2,339	40.5	2.6	16.9
1956	154	692	1,638	2,379	38.3	4.1	16.4
1957	110	426	1,736	2,673	40.9	3.4	16.8
1958	121	447 289	1,672	2,455	39.0	1.2	16.4
1959	88 129	289 588	1,750 1,606	2,592 2,356	43.3 41.8	3.1 2.4	17.3
1960 1961	129	380	n.a.	2,586	41.8	2.4	16.3 17.8
1962	125	459	n.a.	2,559	40.8	4.2	17.8
1963	118	621	1,620	2,369	39.9	3.3	17.0
1964	135	557	1,507	2,200	40.3	2.3	16.3
1965	111	340	1,648	2,439	38.8	2.6	17.3
1966	123	495	1,612	2,432	40.7	3.3	16.9
1967	89	256	1,939	2,841	39.0	3.9	17.3
1968	141	656	1,870	2,410	43.1	2,2	17.0
1969	112	526	1,783	2,665	41.1	3.9	16.7
1970	149	484	1,886	2,658	40.5	2.9	16.6
1971	147	674	1,813	2,624	39.6	4.2	17.1
1972	106	448	1,947	2,967	39.6	2,3	17.3
1973	129	677	1,740	2,686	40.5	3.7	17.7
1974	136	638	1,561	2,584	36.9	3.6	17.2
1975	142	523	1,635	2,596	41.2	3.8	17.2
1976	110	367 400	1,636 1,665	2,831	40.5	3.3	16.7
1977	<u>117</u>			<u>2,876</u>	<u>40.3</u>	<u>3.6</u>	17.2
1978 (a)	127	588	1,533	2,723	39.3	2.2	16.4
1979	137	660	1,557	2,702	42.0	3.0	17.2
1980	119	527	1,616	2,897	43.3	3.3	17.5
1981 1982	119 105	671 357	1,542 1,571	2,739 2,878	43.4 44.2	2.4 0.4	17.4 17.4
1983 1984	127 130	692 518	1,446 1,460	2,745 2,802	42.8 37.7	0.7 1.9	17.0 16.7
1985	123	562	1,421	2,716	41.8	1.5	16.9
1986	126	605	1,406	2,705	41.9	1.7	16.5
1987	121	575	1,381	2,780	40.7	1.6	16.8
1988	126	545	1,458	2,777	40.9	3.0	17.8
1989	119	503	1,396	2,650	40.3	1.0	17.2
1990	117	482	1,406	n.y.a.	42.0	2.0	17.0

METEOROLOGY, ADELAIDE

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(a) Recorded at Bureau of Meteorology, Kent Town from 1978, previously West Terrace, Adelaide.

RURAL PRODUCTION

Land Cultivation

	Rural	Area of rural	Area under	crop (b)	Area of pastures	Area
Year	establish– ments	establish– ments	Fertilised	Total	top– dressed	under irrigation
	No.	'000 ha	'000 ha	'000 ha	'000 ha	'000 ha
1846-47				14		
1856–57				82		
1861–62				162		
186667				245		
1871–72				339		
1876–77				497		
1881–82				873		
1886–87				925		
1891–92				780		
1896–97				830		
1901–02			335	905		
1906–07			629	873		
1911–12	27,120	47,012	1,010	1,200		
1916-17	29,278	52,475	1,156	1,468		
1921–22	29,693	54,311	1,197	1,367		9.1
1926–27	29,654	54,867	1,430	1,572	66	14.3
1931-32	30,648	52,354	1,705	2,112	56	17.3
1936-37	31,321	55,433	1,619	1,853	366	17.1
1941-42	30,565	58,936	1,409	1,609	427	18.5
1946-47	28,040	59,154	1,366	1,572	450	18.7
195152	28,698	61,425	1,284	1,496	870	23.6
1956–57	27,936	60,675	1,376	1,610	1,488	26.7
1957-58	27,971	61,530	1,401	1,581	1,621	32.9
1958–59	28,105	61,639	1,494	1,679	1,504	34.4
1959–60	28,527	62,903	1,489	1,643	1,405	40.8
1960-61	28,711	63,316	1,751	2,010	1,335	41.3
1961–62	28,886	63,494	1,644	1,825	1,450	43.9
196263	28,922	63,413	1,787	1,996	1,518	45.6
196364	28,711	64,307	1,938	2,177	1,616	47.7
1964-65	28,754	63,517	1,932	2,141	1,908	49.8
1965–66	28,759	64,505	1,971	2,142	2,061	52.1
1966–67	28,957	65,361	2,073	2,322	2,119	56.2
1967–68	29,058	65,059	2,037	2,270	2,076	70.1
1968–69	29,137	65,603	2,431	2,783	1,728	70.4
1969–70	29,035	65,839	2,138	2,407	2,008	75.3
1970–71	29,087	65,795	1,884	2,141	1,938	77.3
1971–72	29,095	65,146	2,113	2,478	1,822	76.1
1972–73	29,001	65,372	1,864	2,084	2,033	83.1
1973–74	28,738	64,843	2,146	2,451	2,425	80.2
1974–75	28,185	63,825	1,986	2,257	2,138	78.9
1975–76	(a)25,143	63,577	1,821	2,116	1,133	77.9
1976–77	(a)21,597	63,052	1,785	2,036	1,408	n.a.
1977–78	21,909	62,494	2,309	2,565	1,607	n,a
1978–79	22,022	62,655	2,596	2,827	1,614	78.4
1979–80	23,155	62,786	n.a.	2,772	1,811	n.a.
1980-81	22,249	62,437	n.a.	2,773	1,894	79.5
1981–82	21,402	62,897	2,677	2,865	1,782	n,a
1982-83	21,172	60,196	n.a.	2,856	1,610	n.a
198384	19,923	62,063	n.a.	3,108	1,631	86.0
1984-85	19,915	62,616	2,633	2,908	1,754	n.a
1985–86 (c)	14,488	57,854	2,530	3,000	1,551	n.a
1986–87	15,369	59,471	2,663	3,066	1,522	91.8
1987–88	14,768	59,958	2,699	2,990	1,722	n.a

(a) Changes in scope of the Agricultural Census. (b) Excludes pastures grown for crops. (c) From 1985–86 includes only establishments with an estimated value of agricultural operations of \$20,000 or more.

RURAL PRODUCTION

			Cereals f	or grain					
	Whe	eat	Bar	ley	0	Pats	Hay (a)	Orchards (b)(c)	Vineyards (b)
Year	Area	Yield per hectare	Area	Yield per hectare	Area	Yield per hectare	Area	Area	Area
	'000 ha	tonnes	'000 ha	tonnes	'000 ha	tonnes	'000 ha	'000 ha	'000 ha
1841-42	2	1.40		1.12	-	1.12			
1851–52	$2\overline{2}$	0.85	2	0.92	1	0.98			0.1
1856-57	66	1.68	3	1.19	1	0.90	9	0.4	0.3
1861-62	126	0.74	4	0.89	1	0.91	25	0.7	1.6
1866–67	186	0.96	5	1.13	2	1.00	45	0.9	2.6
1871–72	280	0.39	7	0.53	2	0.49	40	1.1	2.2
1876–77	439	0.36	4	0.60	1	0.48	37	1.3	1.8
1881-82	716	0.31	5	0.64	1	0.48	135	1.8	1.7
$1886 - 87(d) \dots$	797	0.37	7	0.73	3	0.56	128	n.a.	2.1
1891–92	628	0.28	5	0.52	5	0.29	123	3.6	5.0
1901–02	706	0.31	6	0.88	14	0.61	150	6.6	8.4
1906–07	683	0.70	11	0.98	23	0.70	121	7.4	9.1
1911–12	887	0.62	17	0.97	44	0.56	211	9.4	9.7
1916–17	1,124	1.11	42	0.94	61	0.54	196	11.7	11.8
1921–22	965	0.70	69	1.08	51	0.46	226	13.1	16.8
1926–27	1,120	0.86	104	1.01	62	0.50	201	12.8	20.3
1931–32	1,648	0.79	98	1.06	84	0.50	218	11.8	21.2
1936–37	1,238	0.63	123	0.78	168	0.26	218	12.0	22.7
1941–42	941	0.88	194	1.37	118	0.58	226	12.0	23.5
1946–47	1,019	0.75	203	0.94	102	0.49	133	11.4	23.6
1951–52	653	1,14	337	1.13	157	0.63	104	11.9	24.8
1956–57	582	1.47	494	1.56	173	0.87	121	13.8	23.2
1961-62	902	1.02	514	0.94	131	0.61	84	15.6	23,4
1962-63	1,050	0.99	426	0.96	168	0.62	116	16.4	23.6
1963–64	1,134	1.30	455	1.21	203	0.82	145	16.9	23.7
196465	1,104	1.30	443	1.38	180	0.91	127	17.4	23.8
1965-66	1,111	0.98	444	0.94	184	0.55	121	17.8	23.8
196667	1,198	1.22	448	1.20	206	0.91	195	17.9	23.1
1967–68	1,159	0.63	468	0.60	212	0.28	174	18.3	23.5
1968–69	1,517	1.49	572	1.17	209	1.03	249	18.0	24.5
1969–70	1,299	1.24	560	1.23	150	0.80	155	18.1	26.2
1970–71	802	0.98	693	1.07	195	0.78	196	18.3	27.7
1971–72	1,069	1.32	784	1.34	169	0.98	245	17.2	28.8
1972–73	986	0.83	692	0.74	142	0.52	210	16.7	29.5
1973–74	1,432	1.25	627	1.26	152	0.93	268	16.9	29.6
1974–75	1,220	1.22	701	1.62	135	0.83	190	16.6	30.4
1975-76	958	1.19	832	1.32	119	0.90	159	16.5	31.2
1976–77	839	0.99	855	1.04	117	0.77	164	15.8	31.2
1977-78	1,090	0.47	1,073	0.55	130	0.43	138	15.7	31.5
1978–79	1,295	1.61	1,091	1.30	171	1.04	219	15.7	31.3
197980	1,424	1.65	984	1.55	129	1.12	160	15.7	30.7
1980-81	1,445	1.14	989	1.17	105	0.91	161	15.8	30.4
1981–82	1,427	1.18	1,032	1.19	127	0.76	194	16.0	30.3
1982-83	1,398	0.49	1,005	0.66	124	0.52	152	15.9	29.1
1983–84	1,564	1.81	1,104	1.64	153	1.17	258	15.8	27.9
1984-85	1,378	1.47	1,122	1.64	128	1.03	161	16.3	27.0
1985-86(e)	1,432	1.24	1,153	1.46	107	1.01	143	15.2	24.5
198687	1,616	1.40	955	1.67	113	1.32	199	15.7	23.1
1987–88	1,556	1.16	876	1.44	132	1.02	180	15.9	23.0
1988-89	1,520	0.90	837	1.24	156	0.85	195	16.4	23.3

Crop Areas and Yields

(a) Wheaten only to 1906–07, thence all kinds. (b) Bearing and non-bearing. (c) From 1951–52, private orchards and those no longer worked have been omitted. (d) Statistics not collected and particulars estimated. (e) From 1985–86 includes only establishments with an estimated value of agricultural operations of \$20,000 or more.

RURAL PRODUCTION

		Livestock n	umbers		C1	maheritar			
-		Catt	le			nughterings			
Year	Sheep	Total	Dairy cows	Pigs	Sheep and Iambs	Cattle and calves	Pigs	Wool produc– tion (a)	Milk produc- tion
	'000	'000	'000	'000	'000	'000	'000	'000 kg	'000 L
1846-47	681	57							
1851–52	1,250	100							
1856–57	1,962	273		28					
1861–62	3,038	265		69				5,971	
1866–67	3,912	124		60				8,954	
1871–72	4,412	143		96				11,752	
1876-77	6,133	219		102				19,253	
1881-82	6,804	294		120				22,118	
1886-87	6,542	285		140				22,934	
1891-92	7,646	399	80	82				26,133	
1901–02	5,012	225	75	89				20,209	
1906–07	6.625	326	98	111				22,193	
1911–12	6,172	394	122	93	1,276	87	88	27,372	127,077
1916–17	5,091	289	144	119	686	62	90	17,025	136,174
1921–22	6,257	419	166	88	1,208	95	103	26,202	188,199
1926–27	7,284	340	127	79	1.091	143	122	32.824	183.817
1931–32	6,609	265	128	110	1,379	81	136	30,400	227,309
1936–37	7,905	328	170	85	1,697	166	177	34,747	289,581
1941–42	10.246	399	179	114	2,070	154	289	47,683	358,687
1946-47	7,959	424	187	134	1,662	146	159	42,193	426,878
1951–52	11,470	437	176	63	1,547	216	114	61,454	393,237
1956-57	14,984	622	195	92	2,329	252	124	85.642	408,694
1961–62	16,415	659	183	170	3,140	201	232	93.886	434,152
1962-63	15,737	679	190	145	3,467	254	235	94,050	433,697
1963–64	16,402	694	185	153	2,996	279	214	95,481	433,244
1964–65	17,289	697	182	196	3,100	275	241	97,856	465,065
1965-66	17,993	690	176	224	3,474	277	298	104,160	447,325
1966–67	17,864	687	170	222	3,358	265	316	107,725	448,699
1967–68	16,405	695	157	242	4.019	245	310	101.000	403.693
1968–69	18,392	865	163	288	2,977	220	317	105,714	467,377
1969–70	19,747	1.026	149	351	4,232	249	386	124,529	482,959
1970–71	19,747	1,020	149	389	5,101	249	435	117,258	469,773
1970–71	17,970	1,190	145	479	5,144	204	436	117,922	409,7732
1972–73	15,651	1,583	148	499	4,549	393	527	106,006	424,265
1973–74	16,431	1,692	138	385	2,595	359	448	100,000	434,107
197475	17,621	1,869	142	349	2,984	465	344	107,452	426,371
	17,021	1,809	142	326	3,561	549	344	107,432	397,500
1975–76	15,132	1,691	142	317	3,301	656	342	98.442	354,912
1976–77			120	311	3,240	744	344	98,442 87,092	316,681
1977–78 1978–79	14,073 14,940	1,242 1,086	117	330	2,523	659	402	87,092	321,199
								,	-
1979–80 1980–81	16,046 17,056	1,067 1,091	107 104	398 394	3,451 3,549	502 539	472 519	95,459 105,052	331,345 319,438
1980–81	16,709	1,091	104	394 374	3,349	580	528	103,032	305,648
	15,448	828	102	405	4,072	629	528 540	103,007	340,292
1982–83 1983–84	15,448	813	101	403	2,846	447	551	105,007	381,484
1984-85	17,263	846	102	402	3,428	434	589	108,463	371,942
	17,203	854	102	402	3,428	434	588	111,564	364,480
1985-86(b)	17,300	834 912	100	408	4,009	429	588 643	115,805	373,642
1986–87 1987–88	17,234	912	97	422	4,009	401	602	122,420	373,042
198788	17,332	947 943	97	441	3,961	408	659	122,420	369,528
1700-07	17,414	743	92	400	5,901	400	039	120,000	207,228

Livestock and Associated Produce

(a) Year ended March to 1979-80. (b) From 1985-86 includes establishments with an estimated value of agricultural operations of \$20,000 or more.

		Agri	cultural		Paste	oral		Total
Year	Wheat	Barley	Fruit (including vines)	Total crops	Wool (a)	Total	Dairying	Total rural produc- tion
1916–17	21,729	599	1,653	27,677	4,274	11,200	2,759	42,909
1921-22	12,577 19,052	1,227 1,685	3,491 4,082	23,221 30,181	5,752	8,296 12,140	3,678	37,273 48,357
1926–27 1930–31	8,091	893	4,082	15,708	8,937 3,608	5,801	3,895 3,121	26,335
1931–32	17,163	1,363	3,442	25,291	3,843	5,452	3,140	35,444
193637	14,955	1,766	4,191	26,044	8,720	12,315	4,310	44,366
1941–42	13,913	4,490	4,725	30,142	10,294	13,875	6,735	53,016
1946–47	27,685	7,598	8,283	51,209	17,092	22,602	10,950	90,106
1947-48	50,154	26,228	9,677	99,477	32,606	37,487	12,525	155,615
1948–49	32,450	10,242	10,087	64,138	40,268	47,636	13,440	131,527
1949–50	40,834	14,524	10,616	81,707	56,268	63,058	16,148	167,594
1950–51	45,587	19,803 27,706	13,720 20,382	97,871	132,494	139,895	15,500 21,145	259,627 234,587
1951–52 1952–53	45,288 57,302	42.128	20,382	120,507 139,160	72,394 97,158	86,034 109,154	21,145	234,387
1953–54	43,939	28,804	20,788	115,744	88,866	105,950	24,238	254,537
1954–55	41,591	23,243	17,426	104,914	83.204	101.059	25.037	239.022
1955–56	38,514	25,227	20,335	110,570	79,822	100,882	30,826	250,685
1956–57	44,846	34,022	23,265	129,994	114,578	138,118	29,003	305,365
1957–58	20,970	19,573	24,435	90,089	84,708	111,027	26,384	235,337
1958–59	43,791	39,889	23,984	140,858	67,595	99,135	32,103	280,007
1959–60	16,495	10,999	21,394	71,092	85,382	123,351	29,454	231,751
1960–61	68,001	37,977	24,525	161,437	70,484	94,451	30,306	294,087
1961–62	51,515 56,285	22,952 19,152	27,051 25,857	124,022 128,417	85,801 92,514	111,850 127,386	29,848 31,968	273,451 295,043
1962–63 1963–64	77,660	26,399	29,567	165,634	113,409	150,466	34,267	358,802
1964–65	74,550	30,135	36,200	178,132	94,328	135,916	37,533	360,507
1965–66	59,559	20,234	31,411	144,017	103,635	152,244	39,293	345,015
1966–67	79,612	26,912	36,779	184,090	104,588	169,226	40,303	404,864
196768	42,183	12,818	32,423	127,288	79,925	129,504	37,163	306,222
196869	112,551	25,657	37,815	221,097	95,054	136,070	39,016	408,842
1969–70	82,332	23,724	43,330	184,284	91,224	148,939	40,834	386,041
1970–71	40,562	34,902	45,991	164,895	65,525	123,858	43,918	347,038
1971–72	76,381	40,295	49,753	213,206	85,701	153,068	47,262	430,704
1972–73 1973–74	44,588 196,444	27,506 68,276	54,415 52,347	177,768 392,747	164,577 173,180	261,753 n.a.	47,808 (b)27,541	503,315 772,523
1974–75	163,922	119,305	77,719	432,455	122,442	n.a.	31,498	705,446
1975–76	118,063	105,865	77,401	373,062	131,865	n.a.	30,170	676,873
1976–77	73,726	93,807	90,318	330,398	153,550	n.a.	30,436	709,603
1977–78	50,349	50,553	99,747	287,931	145,277	n,a,	34,293	696,739
1978–79	265,159	118,303	110,481	607,348	161,985	n.a.	37,407	1,080,204
1979–80	357,058	192,758	120,174	785,848	215,423	n.a.	42,341	1,341,567
1980-81	253,598	165,418	129,307	692,726	246,646	n.a.	48,953	1,321,495
1981-82	269,453	168,727	149,173	759,240	260,548	n.a.	51,912	1,428,587
1982–83 1983–84	120,849 466,138	98,132 273,466	132,924 155,067	505,432 1,119,546	258,848 289,266	n.a. n.a.	67,412 73,996	1,194,336 1,785,028
1984–85	350,518	249,179	184,522	958,753	297,183	n.a.	70,372	1.635,094
1985–86	302,178	207,314	183,078	890,759	330,150	n.a.	74,529	1,598,917
1986–87 (c)	335,337	183,761	202,193	976,054	389,279	n.a. n.a.	80,758	1,812,798
1987–88	304,150	153,171	228,320	963,763	575,348	n.a.	87,496	2,049,841
1988–89	292,574	170,791	309,502	1,102,959	612,190	n.a.	93,542	2,268,155

GROSS VALUE OF RURAL PRODUCTION (\$'000)

(a) Shares of profits from sale of wool under war-time disposal schemes excluded. (b) Dairying before 1973-74 included the value of dairy cattle and pigs slaughtered. From 1973-74 dairying consists of milk intake by factories for market milk sales and manufacture. (c) From 1985-86 figures are based on Agricultural Census production except for wool. Before 1985-86 the valuation is adjusted to industry estimates e.g. Wheat Board receivals. Wool valuation is based on industry estimates.

					1	alue added/		
Year	Number of establish– ments	Persons employed (a)	Salaries and wages paid (b)	Food etc.	Basic metal products	Transport equip– ment	Paper etc.	All groups
	No.	No.	\$m	\$m	\$m	\$m	\$m	\$m
1968–69	2,994	116,254	347.6	89.8	64.5	158.2	42.0	643.1
1969–70	2,977	119,856	385.8	104.0	79.9	157.2	49.4	714.6
1970–71			Census n	ot conduct	ted for 1970-7	1		
1971–72	2,979	121.678	469.3	134.5	80.0	141.3	61.1	803.0
1972–73	2,914	125,489	523.2	152.8	93.5	155.1	66.2	896.7
1973–74(c)	2,984	131,368	665.3	176.3	134.8	187.1	76.6	1.109.7
1974-75	2,131	117,394	796.8	216.9	164.8	249.8	88.8	1.335.3
1975–76	2.287	117.099	871.6	252.9	135.7	285.4	102.9	1,485.7
1976–77	2,242	114,103	981.4	293.8	153.2	249.1	113.3	1.597.0
1977–78	2,170	105,832	1,015.2	315.4	148.2	257.3	128.6	1,672.2
1978–79	2,119	106.440	1,052.0	332.5	206.9	301.4	136.6	1,851,4
1979-80	2,143	105,621	1,185.9	356.0	248.6	447.9	156.5	2.233.0
1980-81	2,131	104.086	1,283.0	422.8	246.5	426.6	172.6	2,387,4
1981-82	2,219	103,624	1,445.7	485.7	242.9	445.6	197.3	2.620.4
1982–83	2,099	90,372	1,502.3	547.4	214.4	551.6	206.9	2,708.6
1983-84	2.110	91.698	1,472.2	534.4	270.6	449.7	218.2	2,841.5
1984–85	2,196	92,533	1.604.0	528.9	286.7	490.1	279.0	3.095.0
1985-86	-,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			ted for 1985-8		277.0	5,055.0
1986-87	2,267	90,258	1,809.1	623.5	411.9	625.6	317.8	3.732.5
1987–88	2,505	95,168	2,003.4	n.a.	n.a.	n.a.	n.a.	л.а.
1988-89	2,543	103,096	2,315.1	n.a.	n.a.	n.a.	n.a.	n.a.

MANUFACTURING

(a) At 30 June. Includes working proprietors. (b) Excludes the drawings of working proprietors. (c) From 1974–75 excludes single establishment enterprises employing fewer than four persons.
 NOTE: Comparable details of above industry classifications before 1968–69 are not available.

			Princ	ipal minerals p	roduced			
Year	Copper and con– centrate	Iron ore (a)	Coal	Natural gas	Crude oil	Conden– sates	LPG	Value of production (b)
	tonnes	'000 tonnes	'000 tonnes	millions m	'000 kilolitres	'000 kilolitres	'000 tonnes	\$m
1846 1856 1861 1866 1871 1876 1881	6,565 11,980 11,440 23,661 26,948 28,597 25,871							0.3 0.8 0.9 1.7 1.3 1.2 0.8
1886 1891 1896 1901 1906	18,713 16,894 5,030 8,743 8,340	7 - 76						0.6 0.6 0.5 1.1 1.7
1911 1916 1921 1926 1931	6,017 7,396 1,557 235 22	43 191 515 593 293						0.9 2.5 2.1 2.9 1.3
1936 1941 1946 1951 1956	458 615 2 12	1,918 2,276 1,847 2,439 3,645	138 395 489					5.2 7.1 6.1 9.9 (c)47.9
1961 1962 1963 1964 1965	8 4 16 55 116	4,055 3,567 4,310 4,437 4,463	1,133 1,414 1,536 1,764 2,048					58.2 54.0 62.4 67.6 67.9
1966 1967 1968 1969 1970(<i>d</i>)	143 1,470 518 3,666 (e)249	4,876 4,645 5,566 7,042 7,425	2,053 2,077 2,112 2,246 2,155	628				72.3 69.3 77.4 98.5 104.2
1971 1972 1973 1974 1975	2,287 2,819 9,662 8,830 10,037	7,400 6,301 6,874 6,065 5,448	1,626 1,536 1,571 1,494 1,798	909 964 1,095 1,255 1,263				112.3 111.6 134.3 131.4 126.0
1976 1977 1978 1979 1980	18,433 16,390 11,975 14,784 14,183	4,479 3,450 2,189 2,705 2,701	1,819 1,920 1,757 1,514 1,723	1,447 2,006 2,516 2,860 3,430				131.9 153.1 144.6 174.2 224.0
1981 1982 1983 1984 1985	12,955 16,310 16,287 15,578 7,456	2,370 2,241 1,337 1,469 1,676	1,737 1,425 1,435 1,269 1,757	3,870 4,260 4,440 4,489 4,733	208.9 1,047.6 1,105.4	87.4 168.8 741.1	366	226.1 259.4 404.9 641.9 971.7
1986 1987 1988 1989	10,609 1,686 17,352	1,876 2,056 1,975 2,346	2,182 2,435 2,557 2,675	4,864 4,792 4,747 4,827	1,441.0 1,402.6 1,308.9 1,650.7	843.5 718.8 860.4 752.3	525 464 523 579	1,099.2 899.9 949.7 1,080.8

MINING PRODUCTION

(a) Includes jaspilite. (b) Value at site of production. Quarries included from 1916. (c) Comparability affected by revaluation of iron ore. (d) Year ended 30 June from 1970. (e) Metallic content from 1969–70.
 Source: South Australian Department of Mines and Energy.

TRADE

Overseas Exports

	Value of exports						tion of total o ountries of d		
Year	Total	Wheat and flour	Barley	Wool (b)	Japan	New Zealand	UK	USA	Other coun– tries
	\$'000	\$'000	\$'000	\$'000	%	%	%	%	%
1861	1,837	76		1,302		3.42	89.46		7.12
1871	3,630	578		1,948		4.00	89.62	n.a.	6.38
1876	5,928	2,146		2,884		1.96	89.58	0.07	8.39
1881	6,311	1,846		3,496		0.71	82.03		17.26
1886	5,877	420		3,508		0.69	86.90	0.04	12.37
1891	11,197	2,728		3,776	0.01	0.29	80.82	0.90	17.98
1896	8,111	222		3,038	1.38	0.48	56.39	0.28	41.47
1901	8,866 13,742	2,232 4,780		2,208	0.07	0.65 0.26	51.62 51.68	0.10 0.24	47.56 47.82
1906 1911	20,350	7,671	2	3,360 4,007	0.04	0.26	45.96	0.24	47.82 53.70
1911	· · · ·	7,071		,	0.04	0.17		0.15	33.70
1915–16 1920–21	12,272 35,339	3,511 28,675	19	2,824		1.01	42.92	21.15	34.92
	35,339 38,900	28,675	1,175 275	6,035 8,865	6.88	1.11 1.70	59.40 51.94	1.16 1.16	38.33
1925–26 1930–31	20,123	6,078	685	3,006	2.38	0.81	54.11	0.79	38.32 41.91
1935–36	30,762	9,020	707	7,561	6.66	2.05	67.44	1.11	22,74
1940-41	26,393	8,617	226	6.656	5.29	3,46	50.46	15.48	25.31
1945-46	40,307	7,407	718	14,917	5.29	4.95	25.45	26.43	43.17
1950-51	215,348	36,852	14,662	109,900	5.90	2.39	39.58	14.41	37.72
1955-56	195,332	26,266	14,069	70,063	6.71	7.47	38.70	10.71	36.41
1960-61	198,557	36,598	19,219	64,328	18.11	5.60	27.55	4.71	44.03
1961-62	243,975	47,819	23,422	83,107	14.80	4.14	25.83	8.56	46.67
1962-63	212,945	32,603	6,968	83,400	16.45	4.57	25.87	8.69	44.42
1963-64	322,159	76,337	13,828	107,398	17.59	4.83	26.63	5.99	44.96
1964-65	302,242	53,256	15,247	92,535	17.22	5.06	25.82	7.49	44.41
1965-66	296,276	45,864	7,050	94,486	18.38	5.89	22.81	10.37	42.55
1966-67	325,170	55,675	13,056	98,013	20.43	4.69	15.46	8.85	50.57
1967-68	282,767	31,432	2,321	77,008	21.81	5.05	18.20	11.03	43.91
1968–69 1969–70	300,934	27,421 59.457	11,683	84,747 81,797	25.52	4.55	16.46	9.78	43.69
1969–70 1970–71	417,030 393,737	83,629	16,133 23,670	62,828	19.02 18.07	5.58 5.66	17.03 13.70	9.41 6.39	48.96 56.18
1971-72	394,064	64,599	35,652	68,189	18.64	7.21	13.83	E 0.4	54.40
1971-72	521,720	48,684	17,250	149,956	23.89	6.41	8.84	5.84 7.47	54.48 53.39
1973–74	662,881	103,168	40,790	153,202	19.47	9.18	7.44	4,23	59.68
1974-75	764,410	174,405	99,517	93,273	16.35	6.73	5.71	2.61	68.60
1975-76	685,029	109,526	90,290	115,560	19.69	5.41	5.65	3.55	65.70
1976-77	789,872	84,884	88,072	172,538	21.31	5.33	5.99	4,17	63.20
1977–78	661,887	51,915	39,512	114,517	16.21	6.50	4.10	6.25	66.94
1978–79(a)	922,754	101,750	71,470	147,010	15.18	5.74	3.45	9.16	66.47
1979-80	1,599,199	376,726	191,806	183,745	11.00	4.42	2.01	6.45	76.12
1980-81	1,400,028	307,803	153,118	225,336	12.25	5.53	2.27	5.40	74.55
1981-82	1,275,938	212,636	105,280	213,237	11.00	5.87	2.11	7.26	73.76
1982-83	1,227,125	99,364	64,486	176,830	11.92	6.15	7.62	7.91	66.40
1983-84	1,635,825	272,454	229,422	202,681	11.07	5.94	6.61	7.52	68.86
1984-85	1,921,413	406,345	215,887	202,160	13.10	6.44	4.45	8.38	67.63
1985-86	1,988,233	305,995	236,026	231,253	17.96	5.21	3.66	6.83	66.34
1986-87	2,047,147	321,268	181,771	282,040	14.72	6.83	3.56	9.40	65.49
1987-88	2,263,360	286,086	102,454	378,065	17.37	7.30	4.15	9.52	61.66
1988-89	2,446,832	287,472	132,080	395,125	15.70	9.33	4.41	7.02	63.54

(a) From 1978-79 statistics are 'State of Origin', previously 'State of Lodgement of Documents'. (b) From 1983-84 'Wool and other animal hair'.

TRADE

	Value	of imports						
		Metals, metal manufactures, and machinery		oportion of lected coun			Retail sales of goods	Turnover of retail establish
Year	Total	(a)	Japan	UK	USA	Other	(b)	ments
	\$'000	\$'000	%	%	%	%	\$m	\$m
1861 1871 1876 1881 1886	2,756 2,891 6,428 7,133 5,003	310 342 1,084 1,022 770	0.01	80.14 81.85 81.30 79.06 78.90	0.32 1.45 1.44 3.80 6.82	19.54 16.70 17.26 17.14 14.27		
1891 1896 1901 1906 1911	8,063 6,475 7,854 7,965 12,492	1,644 1,198 1,432 2,104 4,132	0.02 0.18 0.38 0.64 1.31	71.36 68.59 56.91 63.10 58.60	7.91 7.82 14.17 10.17 12.81	20.71 23.41 28.54 26.09 27.28		
1915–16 1920–21 1925–26 1930–31 1935–36	10,304 24,764 28,160 7,833 10,839	2,816 6,558 10,602 1,802 3,616	3.12 1.55 1.13 1.14 2.24	47.68 42.07 43.30 36.96 38.65	19.81 21.25 27.84 16.66 21.16	29.39 35.13 27.73 45.24 37.95		
1940–41 1945–46 1950–51 1955–56	10,924 17,556 112,002 125,504	3,158 3,622 50,446 64,656	1.56 1.98 3.18	38.09 62.28 48.31 49.17	12.01 10.13 8.42 11.70	48.34 27.59 41.29 35.95	347.8	
1956–57 1957–58 1958–59 1959–60 1960–61	90,813 94,205 90,693 119,493 142,764	40,536 40,792 40,534 57,962 72,570	1.39 1.85 2.56 2.69 5.37	44.01 46.37 42.08 43.89 32.66	12.26 11.91 11.50 12.15 17.61	42.34 39.87 43.86 41.27 44.36	362.3 367.2 387.2 436.6 448.9	
1961–62 1962–63 1963–64 1964–65 1965–66	103,386 139,826 179,651 204,856 198,156	46,774 71,820 94,302 108,243 103,032	3.28 4.08 4.72 8.01 6.84	31.95 31.83 24.75 23.72 23.32	21.87 22.92 30.63 29.11 27.25	42.90 41.17 39.90 39.16 42.59	451.6 479.9 525.3 574.5 602.0	
1966–67 1967–68 1968–69 1969–70 1970–71	196,771 215,619 231,956 201,223 198,358	97,861 113,215 134,222 98,204 98,358	7.69 7.16 11.19 10.77 14.44	21.64 17.29 19.82 21.49 25.10	27.72 32.71 27.35 21.50 17.32	42.95 42.84 41.64 46.23 43.14	627.1 663.6 706.9 762.3 818.8	
1971–72 1972–73 1973–74 1974–75 1975–76	189,748 199,978 313,915 482,077 501,476	83,083 88,271 142,187 216,355 203,407	15.08 20.48 22.57 19.17 18.57	22.83 17.49 12.03 14.20 11.14	14.48 15.08 16.91 13.10 14.84	47.61 46.95 48.49 53.53 55.45	890.9 1,037.1 1,237.3 1,503.3 1,781.1	
1976–77 1977–78 1978–79 1979–80 1980–81	629,309 628,568 865,554 882,457 1,072,425	259,695 248,236 437,704 300,393 363,735	22.23 21.79 18.97 17.25 20.00	8.52 8.85 6.74 7.18 5.07	13.38 12.47 26.75 13.09 12.55	55.87 56.89 47.54 62.48 62.38	2,025.4 2,162.7 2,344.7 2,528.3 2,852.1	
1981–82 1982–83 1983–84 1984–85 1984–85 1985–86	1,337,301 1,244,243 1,318,693 1,603,240 1,736,757	563,750 515,143 504,009 722,555 953,754	21.24 23.36 24.32 29.86 38.62	3.69 4.26 3.93 4.71 4.71	13.38 15.92 16.33 16.62 15.22	61.69 56.46 55.42 48.81 41.44	3,181.7 3,512.3 3,840.0 4,065.6 4,484.8	4,153.6 4,534.2 4,799.5 5,291.1
1986–87 1987–88 1988–89	1,501,827 1,804,614 1,861,399	761,376 959,309 966,523	37.96 35.99 30.62	4.47 6.66 4.85	13.12 12.37 17.24	44.45 44.98 47.29	4,663.2 4,910.8 n.a.	5,488.5 5,795.6 6,175.7

Overseas Imports; Retail Sales and Turnover

(a) Includes motor vehicles and other transport equipment.

TRANSPORT AND COMMUNICATION ('000)

	M	lotor vehicles on reg			
Year	Cars and station wagons	Utilities, vans, trucks, buses	Total (incl. cycles, scooters)	Drivers and riders licences in force	Telephone services in operation (a)
1901					1,831
1906					2,510
1911					6,086
1916					10,184
1921	13.2		21.4		15,984
1926	42.5	8.2	62.5	79.659	33,547
1931	(b)45.1	(b)12.1	(b)67.3	106,053	39,552
1936	53.7	19.4	84.3	92,227	39,911
1941	54.5	24.4	86.2	122,280	47,962
1946	64.4	31.4	107.2	137,979	53,126
	108.9	51.2	183.6	215,157	71 157
1951 1956	108.9	73.2	257.5	213,157 299,158	74,457 107.649
	171.9	75.7	257.5		
957	171.9	77.8	283.0	315,044 328,833	114,390 122,311
1958 1959	200.3	81.0	283.0 301.5	328,833 340,973	122,311
	200.5	81.0	501.5	340,975	151,000
960	214.9	84.1	318.3	369,584	138,019
961	224.5	82.5	325.2	393,869	144,502
1962	238.9	82.5	338.1	397,803	152,785
1963	258.8	83.9	358.2	414,656	162,012
1964	280.1	86.3	380.5	427,717	173,314
1965	298.1	86.4	397.4	447,985	182,249
1966	314.0	87.3	413.5	464,778	192,922
967	327.7	87.1	427.6	481,496	203,191
1968	342.9	87.6	443.9	491,765	212,842
969	364.7	89.6	468.2	513,687	224,174
970	384.0	90.7	490.1	535,184	239,452
971	400.8	91.5	510.3	550,745	251,330
972	420.4	92.8	536.0	570,562	261,608
973	445.4	97.9	572.4	592,481	278,687
974	468.6	100.6	601.3	612,693	298,300
1075	491.5	104.0	628.0	627 249	211.004
975 976	513.0	112.7	628.9 657.9	637,248 658,671	311,804 334,948
977	528,8	116.9	677.5	690,663	361,334
978	536.5	118.7	685.6	716,991	390,852
979	(c)542.0	(c)117.7	(c)689.3	737,410	420,871
	())554.0				
1980	(d)554.9	(d)120.0	(d)708.6	751,458	449,724
1981	564.9	123.8	725.4	762,372	480,873
1982	(c)580.4	(c)126.8	(c)744.0	779,110	507,234
983	593.3	132.6	763.7	797,971	532,107
1984	613.9	138.6	790.2	814,046	558,380
1985	634.7	144.9	816.9	833,118	591,448
1986	651.5	148.2	835.8	845,073	605,272
1987	654.2	148.0	834.9	858,931	628,541
988	666.2	149.1	846.3	863,796	646,658
1989	680.3	152.1	862.5	882,176	674,037
1990	698.9	154.9	883.5	904,388	(e)707,176

(a) At 30 June from 1916; at 31 December in earlier years. (b) Previously all motor vehicles had to be registered but from 1930 only those in actual use on the roads. (c) At Census 30 September. (d) At 30 June from 1980. (e) Figures from 1989–90 include Northern Territory.

		Sta	te Governn	nent						
		Expend	liture	Public	debt		Local government revenue			
Year	Total revenue	From revenue	From loan (net)	Total	Per head	State taxation	From rates	Govern ment grants	Total	
	\$`000	\$'000	\$'000	\$'000	\$	\$'000	\$'000	\$'000	\$'000	
1840-41	51	180								
1845-46	95	77				202				
1850–51	445 960	367 1,160		590	5.50	202 326		54	114	
1860-61	1,117	966		1,733	13.30	282	46	40	114	
1865-66	1,900	2,130		1,551	9.20	478	60	60	162	
1870-71	1,556	1,519		4,335	23.00	498	80	74	194	
1875-76	2,640	2,647		7,674	34.20	920	118	80	286	
1880-81	4,344	4,108		22,394	78.30	1,168	188	136	488	
188586	4,558	4,767	2,800	36,680	118.60	1,603	208	108	502	
1890–91 1895–96	5,464 5,043	5,207	968 886	43,315 48,433	135.80 137.60	1,655 1,600	276	254 194	702 652	
1895-96	5,648	5,019 5,693	845	48,433	137.60	1,000	264 302	222	738	
1905-06	5,612	5,437	900	60,165	165.80	735	348	198	740	
1910-11	8,363	7,929	3,752	(a)56,065	136.50	1,092	481	336	1,004	
1915-16	8,714	9,483	4,371	79,049	179.40	1,403	652	302	1,150	
1920-21	14,303	15,087	9,351	104,725	210.70	3,244	986	580	1,936	
1925–26	20,948	20,922	12,860	160,521	290.10	5,428	1,640	942	3,441	
1930-31	21,452	25,079	6,581	199,055	345.70	6,800	1,672	397	2,612	
1935–36	22,819	22,521	2,502	211,397	359.70	6,409	1,665	509	2,824	
1940-41	25,849 32,687	26,015 32,687	2,548 3,419	219,599 221,498	365.30 348.80	8,683	1,851 2,040	577 451	3,170 3,474	
1945–46 1950–51	67,344	66,885	33,871	296,776	405.20	<i>(b)</i> 4,036 8,104	2,040	1,963	7,579	
1955–56	118,805	121,665	42,666	512,179	603.60	16,150	8,162	4,381	16.310	
1960-61	172,559	170,182	44,739	722,038	743.20	23,425	13,076	(c)3,524	25,034	
1965-66	236,816	243,650	55,089	955,128	872.30	37,636	20,412	4,106	38,020	
1966-67	258,823	258,717	57,016	1,013,060	913.00	44,708	22,875	4,244	42,319	
1967-68	274,544	277,404	55,382	1,074,959	958.30	48,255	24,369	4,493	42,813	
1968–69 1969–70	298,355 338,498	297,895 335,578	61,390 67,469	1,143,954 1,210,489	1,004.10 1,045.30	53,351 59,840	26,276 27,596	4,505 4,988	45,263 48,556	
1970–71	386,859	386,838	71,491	1,256,337	1,070.40	62,745	29,118	4,758	49,589	
1971–72	455,245	456,312	111,740	1.333.720	1,124.10	97,476	32,224	7,653	54,886	
1972–73 1973–74	520,866	524,777	117,411	1,415,129	1,161.94	120,474	35,874	15,025	65,917	
1973–74	641,967	645,368	107,566	1,481,337	1,198.30	156,903	42,202	10,508	67,682	
1974–75	828,985	820,601	123,854	1,425,333	1,138.35	219,190	53,804	19,118	96,000	
1975-76	1,036,985	1,034,698	160,602	1,394,702	1,094.66	272,760	65,670	33,551	123,287	
1976-77	1,174,025	1,183,180	175,552	1,495,737	1,163.00	314,280	76,385	34,881	137,364	
1977–78 1978–79	1,167,196 1,264,705	1,192,063 1,258,252	171,329 161,087	1,605,834 1,702,221	1,243.10 1,310.81	323,502 342,307	85,680 95,525	38,052 34,774	156,074 168,771	
1978-79	1,384,589	1,238,232	149,584	1,781,600	1,365.84	369,490	95,525 104,891	38,501	186,925	
1980-81	1.548.299	1,554,885	149,363	1,872,699	1.426.49	387,453	118,745	45,233	214,213	
1981-82	1,705,499	1,766,772	84,913	1,962,590	1,481.20	438,152	132,691	52,097	240,507	
1982-83	1,923,808	2,032,765	85,433	2,035,762	1,521.38	(d)537,148	150,923	64,814	288,107	
1983-84	2,160,679	2,190,399	143,775	2,010,259	1,485.78	659,427	167,603	82,419	331,803	
1984–85	2,639,937	2,626,240	173,877	1,990,537	1,457.63	788,143	187,089	100,118	384,267	
1985-86	2,966,345	2,955,350	253,757	(e)3,664,000	2,659.79	834,853	206,899	103,927	417,693	
1986-87	3,217,176	3,214,926	363,519	4,003,000	2,598.86	908,220	228,336	98,811	445,853	
1987–88 1988–89	4,225,669 4,206,418	4,215,265 4,123,056	295,823 570,598	3,960,000 4,042,000	2,789.35	1,076,225 1,250,811	252,148	108,696 104,493	488,353	
1700-09	4,200,418	4,123,030	570,398	4,042,000	∠,040.00	1,230,811	279,332	104,493	532,460	

PUBLIC FINANCE

(a) Debt of Northern Territory and Port Augusta-Oodnadatta railway transferred to Commonwealth Government. (b) Uniform taxation in force from 1941-42. (c) Excludes reimbursement for work done on behalf of Highways Department from 1961. (d) Before 1982-83 excluded taxation paid to Special Funds and statutory authorities. From 1966-67 the coverage of this item does not completely coincide with SA Treasury classifications. (e) Source: State Treasury. From 1985-86 refers to State public sector net indebtedness, previously indebtedness to Commonwealth only.

		Banking				
	Tradin	g banks	Savings banks deposits	General insurance	Friendly societies members at 30 June	
lear	Advances	Deposits	at 30 June	revenue (a)		
	\$m	\$m	\$m	\$'000	No.	
856		1	-			
861	3	1	-			
1866 1871	6	3 3	- 1			
.871	6 9	3 7	2			
881	13	10	2			
886	19	10	3			
891	16	16	4			
896	9	15	6			
901	9	13	8			
906	11	16	10			
911	17	22	15			
916	20	27	20	1 205	65,540	
921	27 32	44 52	33 44	1,305 2,045	70,155 77,791	
21	44	45	43	1 607	(1)	
931 936	44	43 52	43 51	1,627 1,859	(b) 71.658	
941	40	64	55	2,643	76,357	
946	32	93	132	2,705	80,419	
951	62	207	196	9,298	71,591	
956	109	241	272	20,590	57,216	
61	147	<u>270</u>	333	32,363	51,551	
	(c)165	(c)277	362	33,740	51,198	
)63)64	182 202	285 324	416 476	37,499 41,695	50,765 50,946	
965	244	348	519	45,433	51,258	
966 967	274 299	365 369	559 605	50,121 56,114	51,109 51,001	
968	345	389	644	59,981	51,070	
069	363	409	692	65,354	50,880	
970	391	423	733	70,640	50,796	
071	411	436	788	76,020	50,488	
072	448	474	874	89,173	50,077	
973	516	620	1,060	98,678	50,664	
974	672	816	1,175	127,473	50,779	
975	749	973	1,395	(d)187,316	49,888	
976	914	1,214	1,617	231,649	48,057	
977	1,147 1.419	1,301 1,302	1,781 1,945	267,640	45,815	
978 979	1,728	1,302	2,138	(e)266,594 263,903	43,051 41,575	
	1.029	1.650	2.277	282.268	39,431	
980 981	1,938 2,149	1,652 1,813	2,277 2,457	307,453	39,431	
	2,149	1,015	2,457	501,455	50,001	
982	2,390	1,901	2,596	354,432	36,171	
983	2,562	1,933	2,979	428,695	35,017	
984 985	2,840 3,430	1,977 2,903	3,327 3,113	n.a. n.a.	n.a. n.a.	
986	4,161	3,750	2,971	n.a.	n.a.	
987	4,625	3,784	3,390	n.a.	n.a.	
988	4,625	3,784 4,521	3,390	n.a. n.a.	n.a. n.a.	
089	6,536	5,728	3,594	n.a.	n.a.	
990	(f)13,771		12,074	n.a.	n.a.	

PRIVATE FINANCE

(a) Year ended 30 June. (b) Membership at 30 June from 1932; previously 31 December. (c) Until 1961, average of balances at close of business on Wednesdays during June. From 1962, average of weekly figures for the month of June. (d) From 1974–75 premium income only; details of interest, dividends and rent no longer available. (e) Details of brokers are excluded from 1977–78. (f) From 1990 all banks.

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