



# **Bureau of Meteorology**

## *South Australia*

### **WEATHER CONDITIONS IN SOUTH AUSTRALIA JULY 2000**

#### **SUMMARY**

Near average rainfall was reported over most of the State; isolated pockets of above average falls were reported from parts of the Agricultural districts and pockets of below average rainfalls were reported from the Pastoral districts. Maximum temperatures were higher than normal across the interiors and west coast; minimum temperatures were above normal over the northwest of the State and along the border of the Upper and Lower Southeast.

#### **JULY RAINFALL**

##### **Pastoral Districts**

Rainfall was average over much of the Pastoral districts during July. Areas of below average rainfall were confined to the southern parts of the Northwest and Far North districts, extending from Lake Gairdner eastwards to the southeast of Lake Frome, and also the southern part of the Northeast district.

Rainfall totals ranged from 26mm at Yardea and Nonning in the North West pastoral district to 2mm at various centres over the Pastoral districts.

##### **Agricultural Districts**

Rainfall was generally average over much of the Agricultural districts. Isolated pockets of above average rainfall were confined to an area between Streaky Bay and Poochera, and also the central parts of Eyre Peninsula extending from Mount Hope to Tumby Bay to Cleve. Most of Kangaroo Island, the southern part of the Lower Murray Valley, coastal County Light and the coastal region of the Lower Southeast also received above average totals. An area between Robe and Beachport, in the Lower Southeast district, received totals very much above average.

Rainfall totals greater than 100 mm were reported from the Lower Southeast, Mount Lofty Ranges and Kangaroo Island. However, there were rainfall reports from Blackwood, (71mm); Echunga, (63 mm); Hahndorf, (71 mm) and South Para Reservoir, (70 mm) which were surprisingly low for July.

Totals between 50 and 100mm were confined to the Western Agricultural, Lower North, Yorke Peninsula and County Light districts. The Riverland district recorded totals of less than 25mm. The remainder of the State recorded totals between 25 and 50mm.

The highest rainfall reported for July was 192mm at Beachport in the Lower Southeast district.

July 2000 rainfall for selected stations is presented in [Table 1](#). The map in [Figure 1](#) shows the distribution of monthly rainfall.

#### **JULY TEMPERATURES**

Mean maximum temperatures were generally above normal over the Pastoral districts for July. Mean temperature ranged from 21°C in the northern interiors down to 17°C at Nonning in the south. Oodnadatta recorded the highest temperature with 27.2°C on the 15<sup>th</sup>.

Mean maximum temperatures in the Agricultural districts ranged from 14°C on the west coast of the Western Agricultural down to 7°C at Mt Crawford in the Mt. Lofty Ranges. Whyalla recorded the highest temperature across the Agricultural districts with 24.6°C on the 23<sup>rd</sup>.

Mean minimum temperatures were generally above normal over much of the north west of the State, the north east of Kangaroo Island, the coastal region of the Lower North district and between Lameroo and Mount Gambier in the south east.

Mean minimum temperatures ranged from 10.5°C at Cape Willoughby, on Kangaroo Island, down to 2.8°C at Yongala in the Upper North.

The lowest recorded minimum was -4.0°C at Yunta on the 29<sup>th</sup>.

Temperature statistics for all stations are presented in [Table 2](#).

## **SIGNIFICANT WEATHER JULY 2000**

### **Wind.**

Strong to gale force winds associated with a cold front were reported from the higher parts of the Mount Lofty Ranges on the 18<sup>th</sup> July. Localised damage to property was reported.

### **Tornadoes.**

On the 20<sup>th</sup> July frontal activity moved through the State with strong to gale force winds over much of the southern Agricultural districts. Isolated thunderstorms were reported from parts of the Mt. Lofty Ranges with Mt Lofty recording a gust to 59kts (109 km/h). At Woodchester near Strathalbyn extensive damage was caused to property when a tornado moved through the area; damage was confined to a path 5km long and 150m wide. Two tornadoes were reported at Hatherleigh (6km long path) and at Cape Jaffa, in the Lower Southeast. Damage was confined to stands of trees. There was minimal property damage.

On the morning of the 24<sup>th</sup> a further two weak tornadoes were reported from Woodcroft, a southern suburb of Adelaide and Aldinga Beach, south of Adelaide. At Woodcroft, houses within a small area suffered superficial damage, whilst at Aldinga damage was confined to trees and sheds.

## **ADELAIDE'S WEATHER**

### **Summary**

Rainfall was slightly below average in Adelaide during July 2000, while temperatures were slightly above normal.

### **Rainfall**

Adelaide's rainfall for July 2000 was 68.8 mm on 16 days. This is 6.2 mm below the estimated normal of 75 mm on 16 days.

In 1999 Adelaide's July rainfall was also below average, with the total being 68.8 mm on 10 days.

The total for the first 7 months of 2000 was 410.4 mm compared to the normal of 347 mm. This is the wettest first seven months of the year since 1987, when we had 449.0 mm.

### **Temperatures**

The mean maximum temperature for July 2000 was 15.7°C, which is 0.6°C above the normal July mean maximum of 15.1°C.

The mean July 1999 maximum was 16.1°C.

The mean minimum temperature for July 2000 was 7.8°C, which is 0.4 above the normal July mean minimum of 7.4°C.

The mean July 1999 minimum was 8.4°C.

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**TABLE 1**  
Monthly Rainfall totals at Selected Stations

Station Name	ACTUAL (mm)	NORMAL (mm)	DECILE	RAIN DAYS	EXTREME (mm)	DATE OF EXTREME
ANDAMOOKA	1.6	15	3	6	0.4	18
COOBER PEDY APT	4.6			4	4	19
MARLA	8.8	13	6	4	4	19
NONNING	25.7	26	7	14	7.6	19
PT. AUGUSTA	17.6			9	5	19
WOOMERA	4.8	16	3	9	2	19
ARKARoola	5.0	15	4	2	4.4	19
LEIGH CREEK APT	4.0	23	2	5	2	24
MARREE	11.0	10	7	4	6	15
MOOMBA APT	5.6			4	3	19
CEDUNA APT	29.6	41	4	13	7	27
CLEVE	64.8	46	9	18	16	9
ELLISTON	81.5	71	7	16	33.2	9
KIMBA	37.0	42	5	14	9.4	19
KYANCUTTA	39.0	41	5	10	10.8	26
NULLARBOR	20.8	26	6	14	3	6
PT. LINCOLN PO	83.8	79	7	18	13.9	25
STREAKY BAY	85.6	61	8	15	27	9
WHYALLA NORRIE	23.2	22	7	12	6.4	27
HAWKER	22.3	35	4	8	9.2	19
YONGALA	32.7	40	5	14	9.5	19
MANNAHILL	11.6	15	6	3	6.4	18
CLARE	86.4			17	20	19
PT. PIRIE	35.2	34	6	11	10.8	19
SNOWTOWN	56.2	50	7	17	19.4	19
KADINA	38.8	49	4	16	11	19
MAITLAND	61.6	67	5	15	16.6	21
WAROOKA	57.0	66	5	18	10.6	21
CAPE BORDA	113.8	107	6	19	24.2	25
CAPE WILLOUGHBY	95.2	83	8	18	17	21
KINGSCOTE	92.0	78	8	20	15.4	25
ADELAIDE APT	42.2	64	3	16	9	26
ADELAIDE RO	68.8	75	5	16	14.6	26
NURIOOTPA PISA	55.8			19	19	21
MT. BARKER	122.0	106	7	18	30.4	19
STRATHALBYN	86.2	64	9	16	21.2	26
VICTOR HARBOR	89.8	75	8	16	28.6	26
LOXTON RES.	22.0	34	4	12	7	19
RENMARK PO	25.7	23	7	12	8.4	19
EUDUNDA	67.6	51	8	16	17.4	21
MENINGIE	68.8	61	8	21	15.2	26
MURRAY BRIDGE	53.9	35	9	15	13.8	26
KEITH	54.0	55	6	16	13.4	21
LAMEROO	50.0	42	7	16	14	21
CP NTHUMBERLAND	163.4	105	9	19	40	25
MT. GAMBIER APT	145.4	100	9	21	28	21
NARACOOORTE	80.6	76	6	18	13.2	21
ROBE	165.8	105	10	21	44.8	25

If the same extreme rainfall was recorded on two or more days, only the first date is listed.

Normals for all years of record to 1995.

**TABLE 2**  
**TEMPERATURES AT DAILY REPORTING STATIONS**

	MAXIMUM °C						MINIMUM °C					
	HIGH	DATE	LOW	DATE	MEAN	DEPART	HIGH	DATE	LOW	DATE	MEAN	DEPART
ANDAMOOKA	24.5	15	15.3	26	19.4	1.2	12.7	18	2.0	29	6.0	0.1
COOBER PEDY APT	24.7	5	13.4	26	19.2		14.1	18	3.0	27	6.9	
MARLA	26.9	15	14.4	26	20.9	1.4	15.9	18	0.3	13	6.1	1.1
NONNING	23.1	23	12.9	26	17.4	1.1	9.6	18	-0.7	13	4.3	0.6
PT. AUGUSTA	25.5	23	13.3	26	18.2		12.6	18	0.5	11	5.9	
PUKATJA	24.0	5	19.0	12	21.3	3.5 #	12.0	23	0.0	13	6.4	3.2 #
ROXBYS DOWNNS APT	24.0	15	15.0	26	19.1		12.0	18	0.0	27	4.5	
TARCOOLA APT	25.0	23	14.0	26	19.5	1.4	14.0	18	1.0	10	5.5	1.4
WOOMERA	25.0	23	14.0	26	18.2	1.4	11.0	23	3.0	11	5.8	0.0
ARKAROOA	22.8	15	12.3	3	17.5	1.5 #	13.5	21	-2.1	11	3.9	0.7 #
LEIGH CREEK APT	22.7	16	11.7	26	17.5	1.9	11.0	18	1.2	11	5.0	0.5
MARREE	26.1	16	15.8	26	20.4	1.5	11.8	19	0.4	11	5.3	0.5
MOOMBA APT	26.0	15	15.0	26	20.7		14.0	24	2.0	11	6.4	
OODNADATTA APT	27.2	15	15.3	2	21.1	1.6	15.0	18	1.9	28	7.3	1.6
CEDUNA APT	24.0	4	14.0	26	18.6	1.3	15.0	18	1.0	28	6.7	1.0
CLEVE	21.3	17	11.8	28	15.9	0.8	13.5	18	3.8	13	7.6	0.6
COLES POINT	21.6	17	11.0	25	16.0		11.3	6	4.8	10	7.9	
ELLISTON	23.0	17	13.1	2	17.4	1.1	13.3	18	2.2	13	8.4	0.5
KIMBA	21.2	17	11.0	26	16.1	0.7	10.4	18	2.2	14	5.5	0.7
KYANCUTTA	23.9	17	13.4	25	17.9	0.9	12.2	18	0.0	13	5.9	1.1
MINNIPA PISA	21.6	17	12.1	26	16.6		14.5	18	5.1	26	7.8	#
NEPTUNE ISLAND	18.0	17	13.0	25	15.7	0.5	14.0	31	5.0	29	11.5	0.3
NULLARBOR	27.0	17	14.0	25	19.4	1.1	12.0	18	1.0	10	5.5	0.9
POLDA BASIN	22.5	21	13.6	1	17.0	0.4 #	10.8	1	1.0	16	5.4	0.4 #
PT. LINCOLN APT	20.9	17	12.5	25	16.0		13.1	18	5.3	4	8.0	
PT. LINCOLN PO	21.2	17	13.5	25	17.5	1.5	11.6	18	6.2	10	8.8	0.4
STREAKY BAY	23.3	16	14.0	26	17.5	1.2	12.2	23	5.5	13	9.2	0.8
WHYALLA AP	24.2	23	12.3	28	17.9	1.1	12.3	18	0.8	11	5.9	0.8
WHYALLA NORRIE	24.6	23	12.4	28	18.3	1.4	13.0	23	2.0	11	7.3	0.1
WUDINNA APT	22.0	16	13.0	8	17.1		13.0	18	1.0	13	7.1	
HAWKER	23.0	23	11.5	9	16.2	0.4	9.5	23	0.7	11	4.2	0.6
YONGALA	19.8	23	8.6	28	13.4	0.7	7.0	24	-3.6	11	2.8	0.6
GLUEPOT STATION	25.0	23	12.3	9	17.0		10.5	1	-2.1	11	4.4	
YUNTA	24.0	23	12.0	1	15.9	0.6	9.0	1	-4.0	29	3.3	0.3
CLARE	18.0	23	8.9	26	12.9		8.5	18	-0.5	10	4.3	
PT. PIRIE	22.6	16	13.2	26	17.4	1.1	13.0	23	4.0	2	9.1	1.5
SNOWTOWN	21.2	23	12.2	28	16.4	1.0	10.9	18	2.4	11	6.2	1.0
EDITHBURGH AWS	17.3	15	12.0	26	14.4	#	11.8	3	3.4	29	7.2	#
KADINA	20.4	23	13.0	26	15.9	0.6	10.2	6	1.5	27	6.1	0.1
MAITLAND	19.3	23	12.3	1	15.2	0.8	11.3	18	4.2	26	7.3	0.4
PRICE	21.5	17	12.3	26	17.2	1.3 #	10.2	18	3.3	31	6.4	0.3 #
STENHOUSE BAY	20.0	17	12.3	26	15.9		12.2	18	5.9	11	9.1	
WAROOKA	18.2	17	12.7	26	15.4	0.5	11.8	18	4.9	26	8.1	0.6
CAPE BORDA	17.3	18	10.7	25	14.7	0.9	14.0	23	5.8	13	9.6	0.6
CAPE WILLOUGHBY	17.0	17	12.0	25	14.8	0.8	13.0	23	7.0	21	10.5	0.9
KINGSCOTE	18.2	23	12.0	25	15.5	0.9	13.1	23	5.1	9	9.7	1.3
KINGSCOTE APT	17.8	23	12.2	25	15.2		11.4	23	0.9	11	6.6	
ADELAIDE APT	19.5	17	11.8	26	15.1	0.3	12.3	18	0.0	2	7.2	0.3
ADELAIDE RO	20.4	17	11.3	26	15.7	0.6	11.5	18	3.7	10	7.8	0.4
EDINBURGH APT	20.0	17	12.0	26	15.6	0.4	10.0	24	1.0	10	6.1	0.1
PARAFIELD APT	20.6	17	11.2	26	15.5	0.5	10.1	23	0.6	10	5.9	-0.5
ROSEWORTHY AG.	21.4	17	11.5	26	15.6		10.2	18	1.5	10	6.3	
NURIOOTPA PISA	18.0	17	10.0	26	13.8	0.6	9.0	24	0.0	11	4.9	0.5
HINDMARSH ISLAND	21.0	17	12.0	25	15.7	0.6	11.2	13	4.3	11	8.1	0.3
KUITPO FOREST	19.0	17	8.0	25	12.5		10.0	23	3.0	26	6.7	
MT. BARKER	19.5	17	9.9	25	13.9	1.2	9.6	6	2.1	29	5.8	1.4
MT. CRAWFORD	15.7	23	7.3	26	11.4		9.9	23	2.8	26	6.5	
PARAWA AWS	15.5	17	8.9	26	11.8		9.7	18	3.8	11	6.9	
STRATHALBYN	21.2	17	11.7	26	15.9	1.2	10.9	24	3.0	11	6.5	0.6
VICTOR HARBOR	20.9	17	12.8	26	16.3	1.0	12.6	6	3.7	11	8.6	0.8
LOXTON RES.	24.0	23	12.0	1	16.1	0.5	9.0	24	-2.0	11	4.2	-0.2
RENMARK APT.	24.2	23	11.9	13	16.6		9.1	13	-2.9	11	4.3	
RENMARK PO	24.2	23	12.0	13	16.9	0.7	9.4	19	1.0	11	5.9	0.8
EUDUNDA	19.0	23	9.9	25	13.5	0.5	8.1	6	0.7	29	4.2	-0.8
MENINGIE	19.1	17	11.5	14	15.2	0.3	10.6	24	3.2	10	7.5	0.8
MURRAY BRIDGE	21.0	23	10.1	14	16.4	0.3	11.5	24	1.4	11	5.9	0.5
KEITH	20.7	23	11.4	26	15.2	0.3	9.6	6	1.9	11	6.7	1.3
LAMEROO	22.2	23	11.3	26	15.6	0.7	8.6	2	2.9	9	5.7	1.4
CAPE JAFFA	16.0	23	11.0	3	13.8		11.2	6	3.7	11	7.4	
COONAWARRA	18.0	23	10.0	12	13.7	-0.4 #	10.0	6	1.0	11	5.8	0.5
CP NTHUMBERLAND	18.2	23	11.4	25	14.5	1.0	10.8	1	2.0	17	7.0	0.4
MT. GAMBIER APT	18.0	23	9.0	25	13.4	0.3	9.0	23	2.0	9	6.2	1.1
NARACOORTE	19.9	23	11.0	26	14.6	0.5	10.0	6	2.6	17	6.7	1.9
ROBE	15.9	6	11.7	3	13.9	-0.1	11.6	6	6.1	16	8.7	0.4

# Indicates that less than 25 observations were available from this station

# South Australian Rainfall Deciles

## July 2000

