



Monana

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The final meeting for 2014, on 20 October, featured John Nairn, a/ Regional Director of the South Australian Regional Office of the Bureau of Meteorology, and head of the Heatwave Warning project underway within the Bureau.

John went through the development of a new heatwave criterion, the Excessive Heat Index, a new index that allows the determination of the presence of heatwave conditions, and the severity of those, for locations across Australia.

The index compares 3-day periods of average daily temperature (the average of maximum and minimum temperature for each day) and looks at how extreme the 3-day period is statistically, in two components – one comparing the period of interest to the whole record, and secondly to what has been happening in the last 30 days.

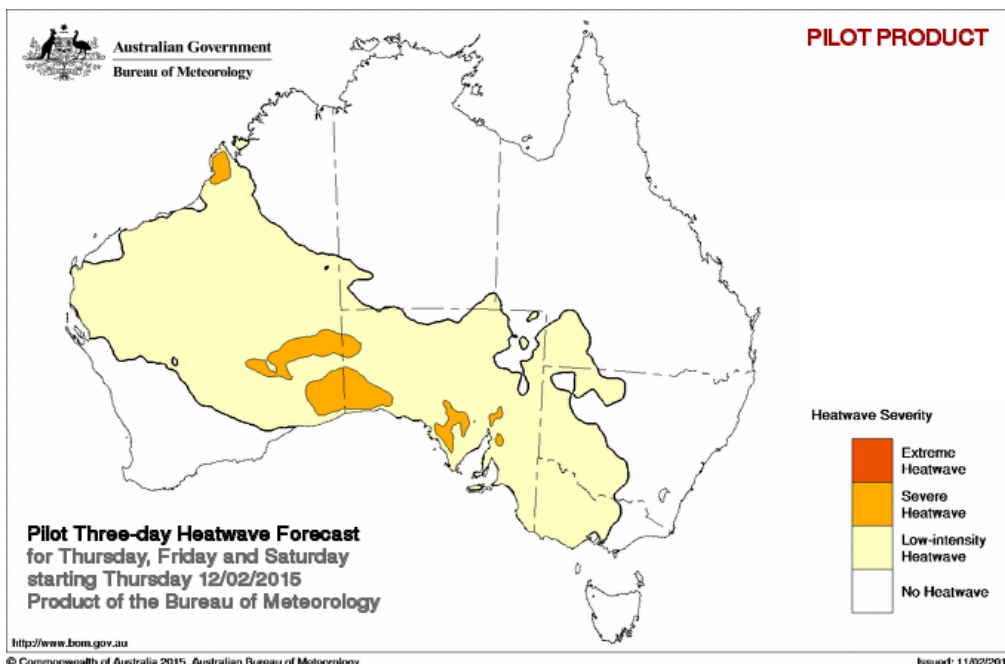
The approach has several strengths. It takes into account night time temperatures as well as daytime ones – important as hot nights strongly increase heatwave impacts. The method is also one that can be applied to any location with a record of maximum and minimum temperature available, and is not location specific - it can be as easily applied to somewhere like Andamooka in the state's north as it can be to Adelaide.

The method has also been applied to the Bureau of Meteorology gridded data sets of maximum and minimum temperature, allowing maps showing areas of heatwave across Australia to be developed. This has been done for past events, but even more importantly can be linked to Bureau of Meteorology forecasts systems to produce maps of coming heatwave events across Australia.

The maps of forecast heatwave activity form the core of a pilot short-term heatwave warning service first trialled in January 2014 for the remainder of that summer and autumn and re-started in November 2014 for the coming summer of 2014/15. With large areas of Australia currently experiencing or expecting heatwave conditions through mid-February, and looking on the cards for late February this is proving valuable, allowing people to make preparations to cope with heat events up to a week ahead in time.

With Australia experiencing more frequent and extreme heat events, this type of service has already been welcomed by users of the service in many industries. Longer term plans have research incorporating fortnightly to monthly modelling of extreme temperatures to allow extended range warning of upcoming heat events. The heatwave warning pilot service can be found online at <http://www.bom.gov.au/australia/>

Forecast conditions leading up to mid-February for Australia as of Wednesday 11 February:



Adelaide in October 2014

- Warmest October days in 100 years
- Very dry, with twenty-five consecutive days of no rainfall
- Five consecutive days above 32 °C in Adelaide

Both monthly mean maximum and minimum temperatures were above average across the Adelaide region during October. Particularly warm days during the latter part of the month saw Adelaide observe five consecutive days with maximum temperatures above 32 °C, setting a new October record for consecutive days above this threshold. On average, Adelaide city recorded two to three days above 30 °C during October. The warmth throughout the month resulted in the second-warmest October days on record, with a monthly mean maximum temperature of 26.0 °C; the warmest since 1914 when the October mean maximum was 26.8 °C. Several other sites across the metropolitan region had their highest October mean daily maximum temperature on record.

Along with the heat, October was very dry across the Adelaide metropolitan area. The Adelaide Kent Town observation site recorded 5.0 mm of rain over three days, well below Adelaide's average October rainfall of 42.8 mm. Typically, Adelaide records around ten days of rain in October. Adelaide experienced twenty-five consecutive days without any measurable rain this October, resulting in the longest run of consecutive days without rain since December 2012 - January 2013 (a twenty-seven day dry spell). It was the driest October for Adelaide since 2006, when 1.0 mm was observed. Most locations recorded less than 23% of their long-term October average rainfall.

The heaviest rainfall event occurred at the end of the month, when a trough of low pressure with embedded thunderstorms affected the city. Light showers in a south-westerly airstream followed the trough, though daily rainfall totals were less than 5.0 mm for most locations. Monthly rainfall totals were between 5.0 mm to 10.0 mm across metropolitan locations, while locations in the Adelaide Hills received totals up to and in excess of 15.0 mm. The wettest location was at Crafers West in the Adelaide Hills, with a monthly total of 17.0 mm.

Extremes in October 2014

Hottest day	38.8 °C at Parafield Airport on the 21st
Warmest days on average	26.4 °C at Parafield Airport
Coollest days on average	20.6 °C at Mount Lofty
Coldest day	10.4 °C at Mount Lofty on the 14th
Coldest night	1.8 °C at Parafield Airport on the 15th
Coollest nights on average	8.4 °C at Mount Crawford (Mt Crawford AWS)
Warmest nights on average	12.4 °C at Noarlunga
Warmest night	20.6 °C at Mount Lofty on the 22nd
Warmest on average overall	19.1 °C at Adelaide (Kent Town)
Coollest on average overall	14.9 °C at Mount Lofty
Wettest overall	17.6 mm at Crafers West
Driest overall	0 mm at Echunga

Adelaide, South Australia October 2014 Daily Weather Observations

Observations are from Kent Town, about 2 km east of the city centre.

Date	Day	Temps		Rain	Evap	Sun	Max wind gust			9am					3pm							
		Min	Max				Dirn	Spd	Local	Temp	RH	Cld	Dirn	Spd	MSLP	Temp	RH	Cld	Dirn	Spd	MSLP	
		°C	°C	mm	mm	hours	km/h	km/h	km/h	°C	%	eighths	°C	%	eighths	°C	%	eighths	°C	hPa	°C	hPa
1	We	9.4	18.5	0.8	3.2	10.2	37	15:15	15.0	43		SSW	13	1028.2	17.6	46	WSW	20	1026.7			
2	Th	6.5	19.5	0	4.0	9.0	30	12:41	14.0	57		SSE	9	1029.0	17.7	50	WSW	17	1025.0			
3	Fr	7.8	26.5	0	4.0	11.2	26	11:46	18.4	47		NNE	11	1021.2	25.8	27	W	9	1016.4			
4	Sa	12.1	31.9	0	0	11.3	39	12:26	24.4	23		N	13	1015.3	30.9	15	WNW	19	1012.1			
5	Su	13.6	28.7	0	0	10.8	24	12:53	16.6	63		ESE	11	1017.3	25.1	40	NNE	6	1012.7			
6	Mo	16.6	29.1	0	0	10.1	85	13:19	27.8	16		N	19	1002.8	22.3	64	WNW	33	1002.0			
7	Tu	13.2	18.9	0	17.6	9.6	43	08:03	14.3	66		SW	24	1018.8	18.0	41	WSW	13	1020.3			
8	We	9.2	20.5	0	3.6	8.5	28	12:35	12.9	73		NNE	7	1024.6	19.4	46	W	13	1023.1			
9	Th	8.1	29.4	0	3.0	11.8	31	13:57	19.4	36		NE	13	1020.1	27.9	14	N	17	1015.7			
10	Fr	15.4	32.1	0	5.8	9.5	35	16:16	21.8	27		SW	6	1012.7	31.7	10	NW	11	1009.6			
11	Sa	12.7	21.7	0	0	11.5	30	02:24	15.2	62		S	13	1018.0	20.5	49	WSW	17	1014.2			
12	Su	9.5	21.5	0	0	10.1	41	18:04	14.5	75		NNW	4	1013.4	20.6	50	WSW	15	1011.3			
13	Mo	9.3	16.7	0	15.8	10.4	50	14:18	12.3	49		S	20	1021.0	16.1	31	SSW	19	1022.2			
14	Tu	6.1	16.5	0	3.8	5.0	39	14:37	12.8	52		SSW	15	1027.9	15.6	38	SSE	20	1026.4			
15	We	5.1	18.0	0	3.0	12.3	31	14:09	13.1	49		WSW	7	1026.4	17.0	39	W	20	1023.6			
16	Th	7.6	19.1	0	3.4	6.7	30	16:45	12.0	61		N	7	1025.0	18.6	44	WSW	15	1023.5			
17	Fr	8.5	27.9	0	3.2	12.4	31	08:31	17.2	38		NE	20	1024.5	27.4	15	NW	15	1021.4			
18	Sa	15.4	32.6	0	0	11.1	41	13:17	24.3	16		NNE	15	1021.4	30.8	9	WNW	24	1019.3			
19	Su	16.3	32.8	0	0	9.7	39	11:33	24.8	19		NE	7	1020.8	30.9	13	SW	13	1020.1			
20	Mo	13.4	32.5	0	19.4	10.8	46	22:49	19.3	48		WSW	7	1024.4	31.8	17	ENE	11	1020.9			
21	Tu	19.3	37.3	0	10.4	8.5	43	23:15	28.8	17		NE	22	1019.8	36.9	9	NW	20	1017.1			
22	We	20.4	32.2	0	6.4	11.5	43	13:47	27.2	28		N	6	1016.5	29.1	29	S	22	1016.1			
23	Th	13.3	24.4	0	7.0	10.8	28	12:52	17.9	65		NNW	6	1018.0	23.1	52	WSW	15	1014.6			
24	Fr	14.0	33.1	0	3.8	3.3	30	17:06	22.1	50		NE	7	1015.1	31.7	15	SW	9	1012.9			
25	Sa	15.5	25.5	0	0	12.5	26	12:33	20.2	54		N	6	1017.5	23.6	51	WSW	19	1016.0			
26	Su	14.2	28.7	0	0	0.0	37	22:26	18.3	67		NE	9	1012.8	24.8	52	NE	7	1008.7			
27	Mo	13.8	19.7	4.0	14.8	12.1	57	04:48	15.4	56		WSW	24	1016.1	18.5	47	WSW	24	1017.9			
28	Tu	13.6	21.7	0.2	5.0	8.5	41	11:13	15.6	79		W	15	1019.7	20.4	47	SW	20	1019.4			
29	We	11.7	24.6	0	4.8	10.1	28	16:02	17.4	66		NNE	11	1020.3	24.0	35	WSW	13	1017.2			
30	Th	10.9	28.2	0	4.0	12.4	28	11:15	17.2	64		SE	6	1016.8	25.8	20	NW	9	1013.0			
31	Fr	14.1	35.2	0	5.2	9.0	48	11:57	26.9	18		NE	19	1005.0	32.4	17	SW	17	1000.8			
Statistics for October 2014																						
Mean		12.1	26.0		6.9	9.4			18.6	47		12	1019.0	24.4	33				16	1016.8		
Lowest		5.1	16.5		3.0	0.0			12.0	16		4	1002.8	15.6	9			NNE	6	1000.8		
Highest		20.4	37.3	4.0	19.4	12.5	85		28.8	79		#	24	1029.0	36.9	64		WNW	33	1026.7		
Total				5.0	151.2	290.7																

Observations were drawn from Adelaide (Kent Town) (station 023090)

Kent Town is a suburban site with good exposure. Climate averages are available for West Terrace as well as Kent Town.

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South Australia in October 2014

- Record runs of days above thresholds at many locations
- Driest October on record for the state
- Hottest October on record for the state

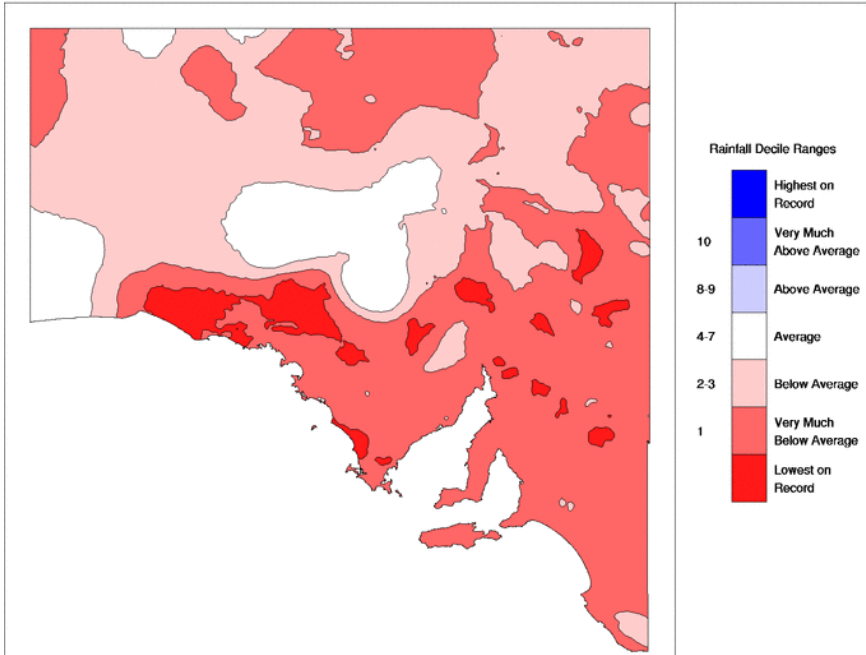
Maximum temperatures were well above average across South Australia during October, with many locations experiencing highest on record daytime temperatures. Across the state as a whole, the October maximum temperature was +4.1 °C above the long-term average and +0.9 °C warmer than the previous warmest October observed in 1988. Minimum temperatures were +1.5 °C above the long-term average for the state, though some central and eastern districts observed generally mild nights. In the second half of the month, northerly winds saw several locations observe both day and night temperatures that were significantly above average, with several locations observing extended periods with daily maximum temperatures above 35 °C. With respect to mean temperature, the warm days and nights across South Australia have resulted in the warmest October on record with a statewide mean temperature anomaly of +2.8 °C above average.

Rainfall was very much below average across most of the state, with locations across western and central agricultural districts experiencing their driest October on record. The heaviest rainfall occurred on the evening of the 26th, as a low pressure trough with embedded thunderstorms crossed central and eastern districts. Isolated showers in a fresh south-westerly airstream cleared by the afternoon of the 28th. Very little rainfall was recorded during other periods of the month which resulted in 1.6 mm of rainfall statewide (92% below normal), and the driest October on record. The previous driest October was observed in 1982 with a statewide average of 2.1 mm.

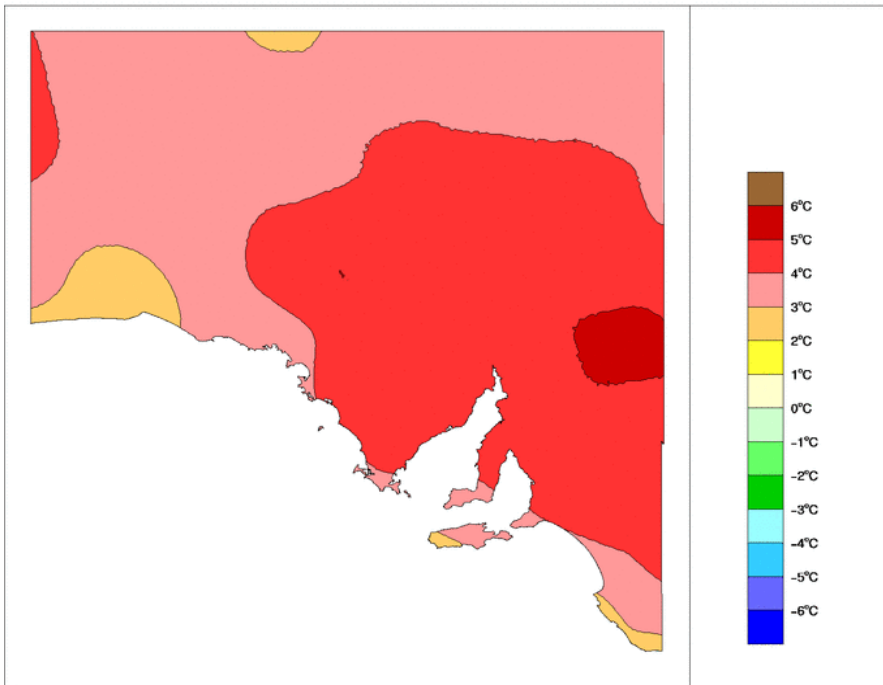
Extremes in October 2014

Hottest day	43.1 °C at Moomba Airport on the 26th
Warmest days on average	34.1 °C at Oodnadatta Airport
Coollest days on average	19.0 °C at Neptune Island
Coldest day	10.4 °C at Mount Lofty on the 14th
Coldest night	-2.1 °C at Keith (Munkora) on the 15th
Coollest nights on average	6.5 °C at Keith (Munkora)
Warmest nights on average	17.1 °C at Moomba Airport
Warmest night	28.4 °C at Moomba Airport on the 27th
Warmest on average overall	25.4 °C at Moomba and Oodnadatta Airports
Coollest on average overall	14.5 °C at Mount Gambier Aero
Wettest overall	25.8 mm at Nangwarry Forestry SA Depot
Wettest day	20.0 mm at Glendambo on the 31st

South Australian Rainfall Deciles October 2014
 Distribution Based on Gridded Data
 Australian Bureau of Meteorology



Maximum Temperature Anomaly (°C) October 2014
 Australian Bureau of Meteorology



Adelaide in November 2014

- Above average temperatures.
- Below average rainfall, particularly in the Adelaide Hills.

Both monthly mean maximum and minimum temperatures tended above average across the Adelaide region during November. The month began with generally cool days and nights, although temperatures began to increase and become very hot by the end of the first week ahead of a trough of low pressure that crossed South Australia. Temperatures cooled in the wake of the trough before becoming very hot again by the end of the second week in a north to north-westerly airstream. The remainder of November saw temperatures that were generally near average.

November was generally dry, with very little rain during the first two weeks of the month, and no rainfall recorded in the last week. The heaviest rainfall across the Adelaide region was recorded on the 16th as a band of thundery showers produced rainfall totals up to 10 mm. A trough of low pressure crossed the region on the 21st, producing totals of 5 to 10 mm. Showers and thunderstorms followed with similar totals being observed on the 23rd. .

Extremes in November 2014

Hottest day	40.6 °C at Edinburgh RAAF on the 13th
Warmest days on average	27.2 °C at Parafield Airport
Coollest days on average	21.1 °C at Mount Lofty
Coldest day	12.3 °C at Mount Lofty on the 1st
Coldest night	5.2 °C at Mount Barker on the 6th
Coollest nights on average	9.9 °C at Mount Lofty
Warmest nights on average	14.6 °C at Adelaide (Kent Town)
Warmest night	25.9 °C at Edinburgh RAAF on the 30th
Warmest on average overall	20.6 °C at Adelaide (Kent Town)
Coollest on average overall	15.5 °C at Mount Lofty
Wettest overall	41.8 mm at Crafers (Mt Lofty) 41.8 mm at Crafers West
Wettest day¹	6.0 mm at Millbrook Reservoir on the 23rd
Strongest wind gust	67 km/h at Mount Crawford on the 1st 67 km/h at Kuitpo Forest Reserve on the 22nd

Adelaide, South Australia November 2014 Daily Weather Observations

Observations are from Kent Town, about 2 km east of the city centre.

Date	Temps		Rain mm	Evap mm	Sun hours	Max wind gust			5am			3pm							
	Min °C	Max °C				Dirn	Spd km/h	Time local	Temp °C	RH %	Cld eighths	Dirn	Spd km/h	MSLP hPa	Temp °C	RH %	Cld eighths	Dirn	Spd km/h
1	Sa	13.2	17.8	2.0		12.3	SW	54	11:41	14.3	50	SW	28	1016.1	17.1	33	SW	28	1018.3
2	Su	11.9	19.9	0		8.7	WSW	33	14:36	14.4	43	SW	11	1026.7	19.4	38	SW	17	1024.5
3	Mo	13.1	29.3	0	19.2	10.0	N	46	12:13	19.4	30	NE	15	1021.5	27.0	14	WNW	9	1017.4
4	Tu	16.5	22.5	0	6.2	9.8	SW	48	12:23	17.8	70	SW	22	1017.0	21.7	35	SSW	22	1018.7
5	We	9.9	20.9	0	5.8	11.8	SW	39	16:19	14.8	54	S	13	1023.7	19.3	44	SW	22	1021.3
6	Th	9.7	28.9	0	5.2	11.9	WNW	28	12:07	17.3	33	NNE	11	1018.0	28.3	16	W	15	1014.6
7	Fr	16.8	36.6	0	6.6	11.2	NW	44	09:52	28.8	14	NNE	15	1013.2	35.9	6	NW	20	1010.7
8	Sa	21.3	21.9	0	4.4	4.4	SW	41	10:54	21.4	61	SW	22	1017.1	19.9	47	WSW	19	1020.3
9	Su	10.5	22.8	0.6		12.9	WSW	44	15:06	16.0	56	SSE	13	1025.1	21.7	41	WSW	24	1022.8
10	Mo	9.9	26.6	0	18.4	13.0	W	35	13:21	17.1	56	WSW	7	1026.1	25.6	30	ESE	13	1022.8
11	Tu	10.7	28.2	0	6.2	8.8	N	22	10:03	18.3	46	NW	7	1022.8	26.7	31	WSW	11	1018.3
12	We	13.5	35.3	0	5.0	11.8	W	22	10:53	25.9	20	NW	7	1015.8	34.4	11	WSW	13	1012.4
13	Th	23.8	38.8	0	9.4	5.2	NW	46	12:10	30.9	10	NE	19	1009.1	37.6	7	WNW	20	1006.4
14	Fr	20.6	24.1	0	7.6	0.5	SE	37	07:07	22.9	41	ENE	9	1011.9	23.6	46	SSE	7	1011.9
15	Sa	16.2	25.2	0	2.5	2.5	WSW	39	14:49	20.4	48	ENE	11	1010.2	24.6	47	WNW	7	1006.4
16	Su	11.6	20.7	6.0		10.6	SW	39	13:13	14.8	53	SW	20	1017.2	19.7	42	SSW	17	1016.6
17	Mo	12.0	23.0	0	11.0	11.7	W	31	14:57	17.1	62	WSW	13	1019.4	22.0	39	W	15	1018.8
18	Tu	12.3	24.0	0	4.8	8.7	WNW	30	11:06	16.8	51	SW	9	1023.2	21.8	37	W	11	1020.9
19	We	11.3	33.3	0	4.4	11.6	NW	39	13:33	21.2	41	NNW	7	1016.8	32.7	11	WNW	19	1012.2
20	Th	21.1	24.4	0.4	8.0	2.2	NW	41	14:36	22.3	77	W	7	1008.7	22.6	82	NW	20	1007.6
21	Fr	14.5	27.1	6.6	1.8	12.7	SSW	24	01:37	18.2	57	NW	7	1013.5	25.5	27	WNW	9	1011.4
22	Sa	18.2	24.4	1.6		3.8	NNE	43	04:27	19.3	89	N	4	1010.2	22.3	83	SW	11	1008.9
23	Su	12.5	28.2	7.2		9.9	E	39	22:38	19.6	60	N	14	1012.2	26.0	32	WNW	15	1012.5
24	Mo	18.2	23.0	0	13.8	11.7	WSW	46	11:17	20.2	50	SW	19	1012.4	20.5	51	WSW	26	1015.0
25	Tu	11.1	22.2	0	6.2	10.9	SW	31	11:34	16.2	59	WNW	7	1023.4	20.9	31	SSW	17	1022.5
26	We	10.4	25.5	0	5.4	13.3	SSE	35	15:31	17.5	52	SSE	6	1024.1	23.6	43	WSW	20	1021.3
27	Th	13.2	28.6	0	5.8	13.4	SE	31	15:02	19.3	52	S	8	1024.1	27.4	25	SSE	15	1020.6
28	Fr	11.9	31.6	0	7.2	8.8	WSW	30	13:55	22.9	35	WNW	7	1020.0	28.0	23	SW	19	1016.4
29	Sa	15.6	35.7	0	9.3	9.3	WNW	30	12:00	25.6	32	SW	2	1011.8	35.2	11	WNW	11	1008.5
30	Su	25.6	30.6	0		12.7	NW	46	07:19	29.1	14	N	19	1005.6	29.7	37	W	17	1005.7
Statistics for November 2014																			
Mean		14.6	26.7		7.9	9.5				20.0	47		11	1017.2	25.4	34		16	1015.5
Lowest		9.7	17.8		1.8	0.5				14.3	10			1005.6	17.1	6	#	7	1005.7
Highest		25.6	38.8	7.2	19.2	13.4	SW	54		30.9	89	SW	26	1026.7	37.6	83	SW	28	1024.5
Total				24.4	158.0	286.1													

Observations were drawn from Adelaide (Kent Town) (station 023093)
Kent Town is a suburban site with good exposure. Climate averages are available for West Terrace as well as Kent Town.

South Australia in November 2014

- Very dry, particularly across western agricultural districts of the state
- Record lowest November rainfall at Lucindale, and the driest November in 20 years at several Eyre Peninsula locations
- Record hottest individual days and nights in some locations

The month began with generally cool days and nights, although temperatures began to increase and become very hot by the end of the first week ahead a trough of low pressure that crossed South Australia. Temperatures cooled in the wake of the trough before becoming very hot again by the end of the second week in a north to north-westerly airstream. In the north of the state, temperatures were very high at the end of the third week, with record high temperatures observed on the 22nd. This resulted in both daytime and night time temperatures being warmer than average this November with maximum temperatures 2.6 °C warmer than average, and minimum temperatures 1.6 °C above average for the state.

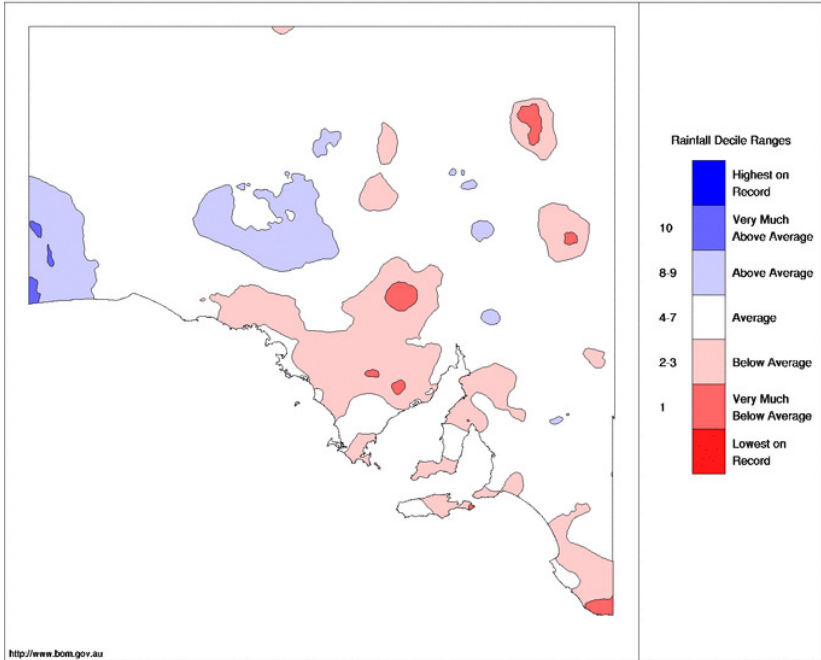
November was also generally dry, particularly across western and southern agricultural areas, with very little rain being recorded in the state during the first two weeks of the month, and no rain in the last week. The heaviest rainfall was recorded on the 16th as a band of thundery showers produced rainfall totals up to 10 mm. A trough of low pressure crossed the region on the 21st, producing totals of 5 to 10 mm. Showers and thunderstorms followed with similar totals being observed on the 23rd.

Extremes in November 2014

Hottest day	4	6.1 °C at Roxby Downs on the 22nd
Warmest days on average		36.7 °C at Moomba Airport
Coollest days on average		19.6 °C at Neptune Island
Coldest day		12.3 °C at Mount Lofty on the 1st
Coldest night		0.9 °C at Naracoorte Aerodrome on the 11th
Coollest nights on average		7.9 °C at Coonawarra
Warmest nights on average		20.8 °C at Moomba Airport
Warmest night		32.8 °C at Moomba Airport on the 23rd
Warmest on average overall		28.8 °C at Moomba Airport
Coollest on average overall		15.5 °C at Mount Lofty
Wettest overall		46.2 mm at Cromer Road
Wettest day	3	0.0 mm at Gluepot Reserve (Gluepot) on the 16th
Strongest wind gust		107 km/h at Marree Aero on the 22nd

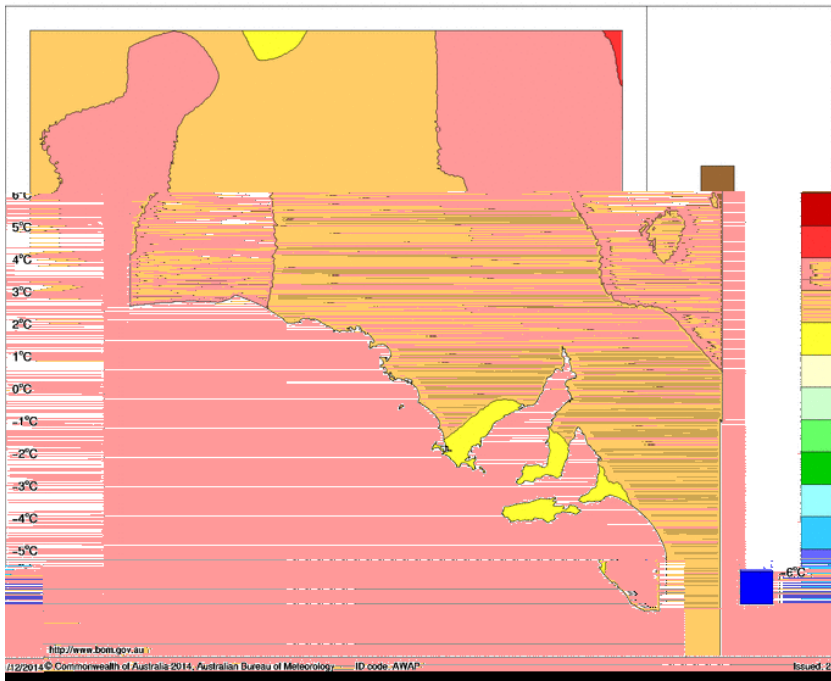
South Australian Rainfall Deciles November 2014

Distribution Based on Gridded Data
Australian Bureau of Meteorology



Maximum Temperature Anomaly (°C) November 2014

Australian Bureau of Meteorology



Adelaide in spring 2014

- Very dry, with less than 50% of the long-term average rainfall for most sites
- Record driest spring rainfall at some Adelaide hills sites
- Second warmest spring days for Adelaide, and warmest in 100 years

Spring mean maximum and minimum temperatures were above average across the Adelaide region during the season. The season began with generally above average temperatures through September. Warm to hot conditions continued into October, that saw Adelaide have its warmest October days in 100 years. Temperatures during November continued to be above average, resulting in the city having its second warmest spring days on record and the warmest since 1914 (when combining temperature observations from both the West Terrace and the Kent Town sites).

Spring was very dry, with most locations struggling to record 50% of the long term spring average, and rainfall totals in the Adelaide Hills being only 30-40% of the November average. Most locations across the city observing about half of the September total. October was very dry for Adelaide with a 25 consecutive day dry spell and only 5 mm being observed for the month. November was generally dry, with very little rain during the first two weeks and last week of the month.

Extremes in spring 2014

Hottest day	4	0.6 °C at Edinburgh RAAF on 13 Nov
Warmest days on average		25.0 °C at Parafield Airport
Coollest days on average		18.8 °C at Mount Lofty
Coldest day		9.0 °C at Mount Lofty on 18 Sep
Coldest night	1	.8 °C at Parafield Airport on 15 Oct
Coollest nights on average		8.7 °C at Mount Lofty
Warmest nights on average		12.7 °C at Noarlunga
Warmest night		25.9 °C at Edinburgh RAAF on 30 Nov
Warmest on average overall		18.5 °C at Adelaide (Kent Town)
Coollest on average overall		13.8 °C at Mount Lofty
Wettest overall		117.4 mm at Crafers West
Wettest day		16.0 mm at Piccadilly (Woodhouse) on 9 Sep 16.0 mm at Millbrook Reservoir on 23 Nov
Strongest wind gust		109 km/h at Adelaide Airport on 6 Oct

Record lowest spring total rainfall (mm)

	New record	Old record	Years of record	Average for spring
Woodside	62.4	64.8 in 1896	119	199.0
Owen	36.2	39.6 in 1938	81	114.2
Lenswood	81.4	85.2 in 1982	46	238.0
Williamstown	66.2	66.8 in 2006	46	168.3
Mount Crawford	48.8	62.6 in 2012	21	149.1

	Observed	Most recent	Years since	Average for spring
Lobethal	74.6	69.9 in 1914	99	213.3
Gawler	42.2	26.7 in 1896	67	118.7
Uraidla	98.5	96.0 in 1982	31	254.4
Willunga	52.6	51.8 in 1982	29	153.

Record highest spring mean daily maximum temperature (°C)

	New	Old	Years of record	Spring Average
Mount Barker	22.9	22.4 in 2006	112	19.5
Parafield Airport	25.0	25.0 in 2006	57	22.0
Edinburgh RAAF	24.8	24.8 in 2009	41	22.3
Adelaide	24.5	24.2 in 2006	37	22.1
Mount Crawford	21.0	20.9 in 2006	20	18.4

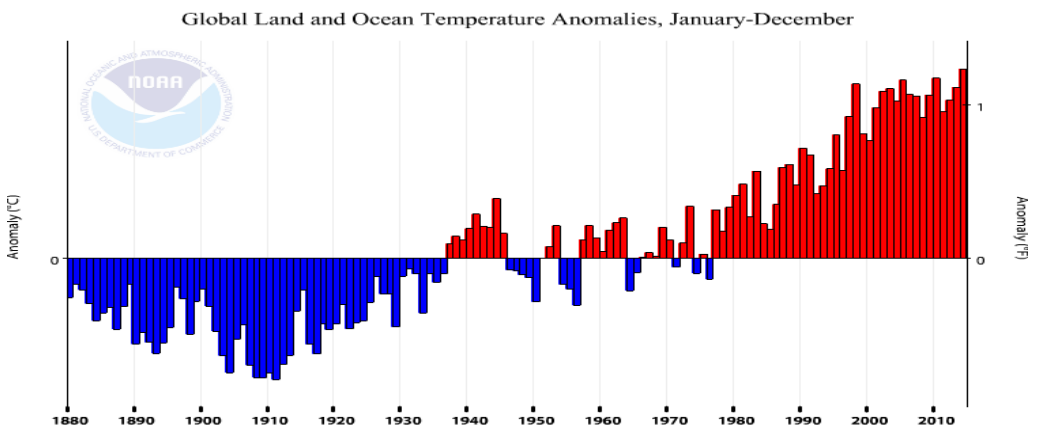
Record highest spring mean temperature (°C)

	New	Old	Years of record	Spring Average
Mount Barker	15.8	15.3 in 2009	111	13.4

Another hot year for Australia, and globally

Data collected and analysed by the Bureau of Meteorology show that 2014 was Australia's third-warmest year on record while rainfall was near average nationally. For South Australia 2014 was second hottest year on record after 2013.

Global temperatures from international centres show 2014 as the warmest year on record



Summary statistics for spring 2014

Maximum temperatures(°C)				Minimum temperatures (°C)				Rainfall (millimetres)				
	Mean	Diff from average	Highest	Mean	Diff from average	Lowest	Total	Average for spring	Rank of spring 2014	Fraction of spring average		
Adelaide (Kent Town)	24.5	+2.4	38.8 13 Nov	12.5	+0.7	5.1 15 Oct	60.8	131.7	low	46%		
Adelaide	23.3	+2.3	37. 13 Nov	11.7	+0.9	4.1 5	53.8	106.5	low	51%		
Edinburgh	24.8	+2.5	40. 13 Nov	10.7	+0.4	2.3 18	39.0	108.6	v low	36%		
Kuitpo Forest Reserve	21.0	+2.1	35.5 13 Nov	10.2	+0.7	4.7 2 Sep	59.2	154.5	v low	38%		
Mount Bark-	22.9	+3.4	37. 13 Nov	8.8	+1.5	1.9 3	77.0	190.8	v low	40%		
Mount Crow-	21.0	+2.6	35. 13 Nov	9.3	+0.5	3.1 15	48.8	149.1	lowest	33%		
Mount Lofly	18.8	+4.0	32.7 13 Nov	8.7	+1.2	2.9 19 Sep	103.2					
Noarlunga	23.4	+1.9	37.4 21 Oct	12.7	+0.8	5.9 3 Sep	46.8	102.2	low	46%		
Parafield	25.0	+3.0	39. 13 Nov	11.0	+0.6	1.8 15	46.2	110.8	v low	42		

South Australia in spring 2014

- Very dry across agricultural districts, with record lowest spring rainfall at several locations.
- Warmest spring on record for South Australia.
- 14th driest spring on record for the state.

Spring 2014 saw persistently warm conditions, particularly across the north of the state, with maximum temperatures 3.0 °C above average for South Australia, and minimum temperatures 1.3 °C above average. This resulted in South Australia having the warmest spring on record with the average of both maximum and minimum temperatures +2.2 °C above normal, and surpassing the previous record set in 2006 when temperatures were 2.0 °C above average for November.

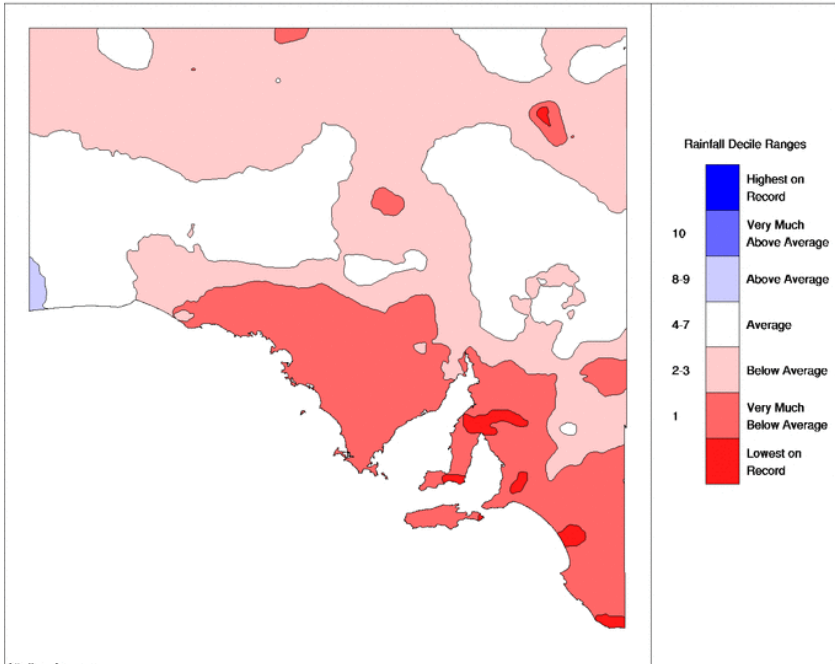
Spring was very dry with the statewide rainfall 55% below normal, and the 14th driest spring since statewide rainfall totals commence in 1900. Rainfall across agricultural districts was very much below average with some locations experiencing lowest spring rainfall on record. Rainfall was generally below average through all of the spring months, with October being particularly dry for the entire state which was the driest October on record for South Australia.

Extremes in spring 2014

Hottest day	46.1 °C at Roxby Downs on 22 Nov
Warmest days on average	33.0 °C at Oodnadatta Airport
Coollest days on average	18.7 °C at Neptune Island
Coldest day	9.0 °C at Mount Lofty on 18 Sep
Coldest night	-2.3 °C at Naracoorte Aerodrome on 19 Sep
Coollest nights on average	6.9 °C at Keith (Munkora)
Warmest nights on average	16.5 °C at Moomba Airport 16.5 °C at Oodnadatta Airport
Warmest night	32.8 °C at Moomba Airport on 23 Nov
Warmest on average overall	24.7 °C at Oodnadatta Airport
Coollest on average overall	13.8 °C at Mount Lofty
Wettest overall	117.4 mm at Crafers West
Wettest day	30.0 mm at Gluepot Reserve (Gluepot) on 16 Nov
Strongest wind gust	135 km/h at Coober Pedy Airport on 31 Oct

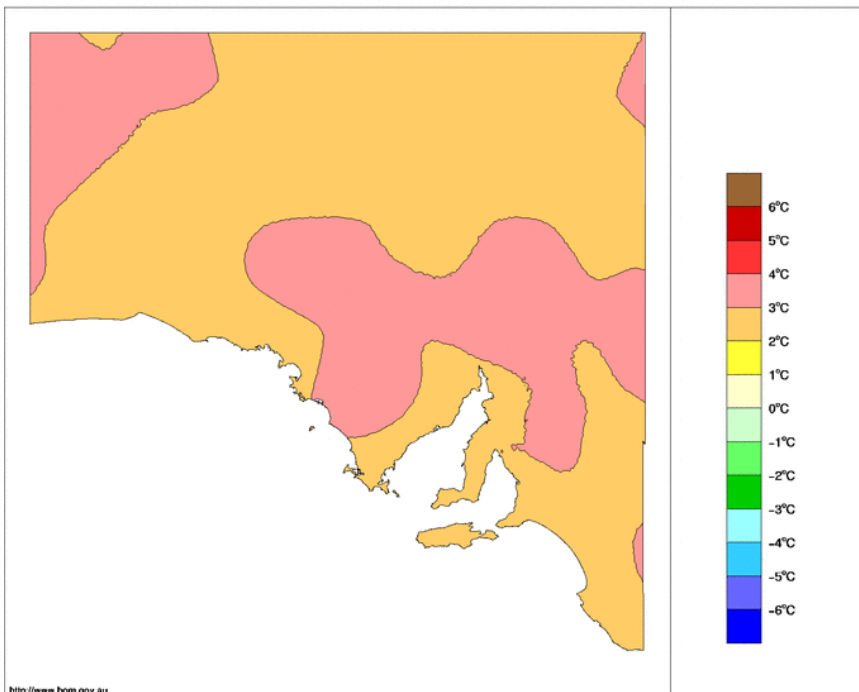
South Australian Rainfall Deciles 1 September to 30 November 2014

Distribution Based on Gridded Data
Australian Bureau of Meteorology



Maximum Temperature Anomaly (°C) 1 September to 30 November 2014

Australian Bureau of Meteorology



<http://www.bom.gov.au>

Adelaide in December 2014

- Adelaide's driest December in 23 years
- Adelaide's coolest December days in 4 years
- Adelaide's coolest December nights in 6 years

Mean maximum and minimum temperatures tended below average across the Adelaide region during December. The month began with generally mild days and warm nights, although daytime temperatures increased and became warmer than average by the end of the second week ahead a trough of low pressure that crossed South Australia. Temperatures cooled in the wake of the trough before becoming warm to hot by the end of the third week in a north to north-westerly airstream. The remainder of December saw temperatures tend generally below average.

December was very dry across the Adelaide region, with just 6.4 mm of rainfall recorded on 6 rain days, resulting in the driest December since 1991 when 5.8 mm was observed. The long-term average rainfall for Adelaide during December is 28 mm (with a median of 38 mm) typically recorded over about 7 rain days. The lack of significant rainfall resulted in several locations having their lowest total December rainfall for at least 20 years. The heaviest rainfall was recorded on the 11th as a band of thundery showers produced rainfall totals of 3-5 mm across most locations.

Extremes in December 2014

Hottest day	37.5 °C at Edinburgh RAAF on the 21st
Warmest days on average	27.2 °C at Parafield Airport
Coolest days on average	21.5 °C at Mount Lofty
Coldest day	16.1 °C at Mount Lofty on the 29th
Coldest night	6.3 °C at Mount Barker on the 26th
Coolest nights on average	10.6 °C at Mount Lofty
Warmest nights on average	15.4 °C at Adelaide (Kent Town)
Warmest night	22.6 °C at Adelaide (Kent Town) on the 22nd
Warmest on average overall	21.2 °C at Adelaide (Kent Town)
Coolest on average overall	16.0 °C at Mount Lofty
Wettest overall	22.0 mm at Balhannah (Killara Park)
Driest overall	2.2 mm at Belair
Wettest day¹	2.6 mm at Eden Valley (Mt Adam) on the 11th
Strongest wind gust	85 km/h at Mount Crawford on the 16th

Adelaide, South Australia

December 2014 Daily Weather Observations

Observations are from Kent Town, about 2 km east of the city centre.

Date	Temps		Rain	Evap	Sun	Max wind gust			5am					3pm					MSLP	MSLP				
	Min	Max				Dirn	Spd	Time	Temp	RH	Cld	Dirn	Spd	MSLP	Temp	RH	Cld	Dirn			Spd	MSLP		
Day	°C	°C	mm	mm	hours	h	km/h	local	°C	%	eighths	°C	%	eighths	Dirn	km/h	hPa	°C	%	eighths	Dirn	km/h	hPa	
1	Mo	17.5	24.6	0	20.0	5.4	W	05:10	18.7	89		18.7	89		W	15	1010.3	22.8	48		WSW	15	1009.1	
2	Tu	14.3	29.3	0	3.8	5.6	ENE	24	20:35	20.7	53	20.7	53		SSW	13	1010.0	27.5	35		SSW	7	1008.9	
3	We	20.6	32.8	0	4.8	11.9	W	36	14:41	26.3	44	26.3	44		NNE	15	1007.9	31.9	36		W	20	1006.8	
4	Th	18.3	25.3	0	9.2	8.0	SW	39	17:44	20.2	71	20.2	71		WSW	15	1013.5	24.5	52		WSW	17	1012.2	
5	Fr	17.5	24.6	0	4.2	9.9	WSW	43	15:13	18.7	83	18.7	83		S	15	1012.6	24.3	46		W	20	1010.7	
6	Sa	16.4	23.7	0	8.5	8.5	S	43	13:38	18.8	83	18.8	83		S	15	1012.1	21.8	50		SSE	20	1010.8	
7	Su	15.8	25.3	0	8.7	8.7	WSW	37	16:48	19.1	67	19.1	67		S	11	1008.8	24.2	51		SW	19	1007.0	
8	Mo	15.9	29.5	0	16.2	11.5	W	39	12:15	21.1	62	21.1	62		SSW	6	1011.1	26.7	44		SSE	15	1009.7	
9	Tu	14.9	32.3	0	6.6	13.1	WSW	30	13:23	22.4	51	22.4	51		NW	7	1012.8	30.0	29		WSW	17	1011.1	
10	We	19.1	23.4	0	7.4	0.0	SSE	43	18:51	22.7	52	22.7	52		SW	6	1010.9	19.5	88		NE	6	1011.8	
11	Th	15.9	25.8	3.0	2.0	13.3	SE	46	07:09	18.6	57	18.6	57		NE	7	1016.4	24.8	42		SSE	19	1016.9	
12	Fr	13.9	31.1	0	7.2	13.8	ESE	39	02:52	21.6	46	21.6	46		E	13	1018.8	29.3	36		WSW	15	1015.6	
13	Sa	16.7	35.9	0	12.8	12.8	WSW	43	17:41	29.1	20	29.1	20		NNE	15	1012.3	34.6	13		WNW	22	1009.1	
14	Su	19.7	28.6	0.4	12.9	12.9	WSW	31	17:06	24.4	61	24.4	61		W	6	1010.1	27.0	39		WSW	17	1009.5	
15	Mo	14.8	29.0	0	24.8	13.0	WSW	31	11:51	20.0	48	20.0	48		SSE	4	1007.7	27.4	38		SW	17	1003.9	
16	Tu	14.4	24.4	0	7.2	11.4	SW	59	15:31	19.9	70	19.9	70		NW	11	1003.3	22.2	40		WSW	28	1005.6	
17	We	11.9	24.4	0	6.6	10.4	W	31	15:46	16.7	50	16.7	50		NW	6	1011.7	23.7	30		SW	19	1009.0	
18	Th	13.5	23.7	0	5.6	10.5	W	43	15:54	20.0	51	20.0	51		WNW	20	1011.3	23.3	43		SW	24	1012.9	
19	Fr	11.2	23.9	0	6.0	13.0	W	41	16:22	18.2	45	18.2	45		SSW	11	1020.4	22.8	44		WSW	17	1020.0	
20	Sa	12.9	30.3	0	12.9	12.9	WSW	26	15:45	19.1	50	19.1	50		ESE	7	1019.6	29.3	25		SW	13	1015.2	
21	Su	17.2	36.1	0	10.1	10.1	NW	35	10:55	30.3	20	30.3	20		NE	15	1011.5	34.8	18		W	15	1009.9	
22	Mo	22.6	26.0	0	22.4	0.0	WNW	39	08:12	24.4	80	24.4	80		ENE	6	1006.8	25.6	51		SSW	7	1007.3	
23	Tu	17.7	23.8	1.6	1.2	9.2	SW	50	14:02	18.8	73	18.8	73		SW	15	1013.0	21.8	55		SW	26	1015.3	
24	We	12.7	24.3	0	6.6	12.9	SW	39	18:12	17.4	54	17.4	54		SSE	11	1018.1	22.8	45		SW	24	1015.0	
25	Th	12.6	23.5	0	6.6	16.36	SW	46	16:36	17.8	54	17.8	54		WSW	13	1014.7	21.9	49		WSW	24	1013.2	
26	Fr	10.2	23.4	0	12.4	12.4	SSE	35	18:47	16.5	49	16.5	49		SSW	19	1020.4	22.3	30		SE	17	1018.2	
27	Sa	11.5	25.9	0	18.6	13.5	SW	31	14:27	17.8	51	17.8	51		N	6	1021.2	24.8	39		WSW	19	1018.1	
28	Su	13.3	30.4	0	12.1	12.1	SW	30	12:46	21.5	39	21.5	39		NNW	7	1015.3	29.3	23		WSW	11	1010.3	
29	Mo	16.3	23.0	1.4	13.2	10.9	W	56	08:01	17.3	94	17.3	94		W	22	1008.1	20.6	48		WSW	22	1010.4	
30	Tu	16.2	23.7	0	7.3	7.3	W	41	06:15	18.4	64	18.4	64		WSW	19	1016.0	22.6	55		SW	17	1015.9	
31	We	12.1	28.1	0	11.0	13.0	SW	31	14:46	18.4	58	18.4	58		NNE	2	1017.6	26.8	39		WSW	13	1013.4	
Statistics for December 2014																								
Mean	15.4	27.0	9.7	10.3	10.3				20.5	55		20.5	55		11	1013.0	25.5	41				17	1011.7	
Lowest	10.2	23.0	1.2	0.0	0.0				16.5	20		16.5	20		NNE	2	1003.3	19.5	13		NE	6	1003.9	
Highest	22.6	36.1	3.0	24.8	13.8	SW	59	30.3	30.3	94		30.3	94		W	22	1021.2	34.8	88		WSW	28	1020.0	
Total	6.4	204.6	308.0																					

Observations were drawn from Adelaide (Kent Town) (station 023050)
 Kent Town is a suburban site with good exposure. Climate averages are available for West Terrace as well as Kent Town.
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South Australia in December 2014

- Below average rainfall in the west and southeast agricultural areas
- Above average day and night temperatures across Pastoral districts
- Day and night temperatures tending cooler than average across agricultural districts

The month began with generally mild temperatures for both days and nights. Temperatures began to increase, tended warmer than average by the end of the second week ahead a trough of low pressure that crossed South Australia. Temperatures cooled in the wake of the trough before becoming warm to hot again by the end of the third week in a north to north-westerly airstream. In the north of the State, temperatures were very high, peaking at 46.5°C at Oodnadatta on 10 December, while both day and night temperatures tended cooler throughout the month across the agricultural districts. However, across the state as a whole, both daytime and night time temperatures were warmer than average this December with maximum temperatures 1.19 °C warmer than average and minimum temperatures 0.78 °C above average.

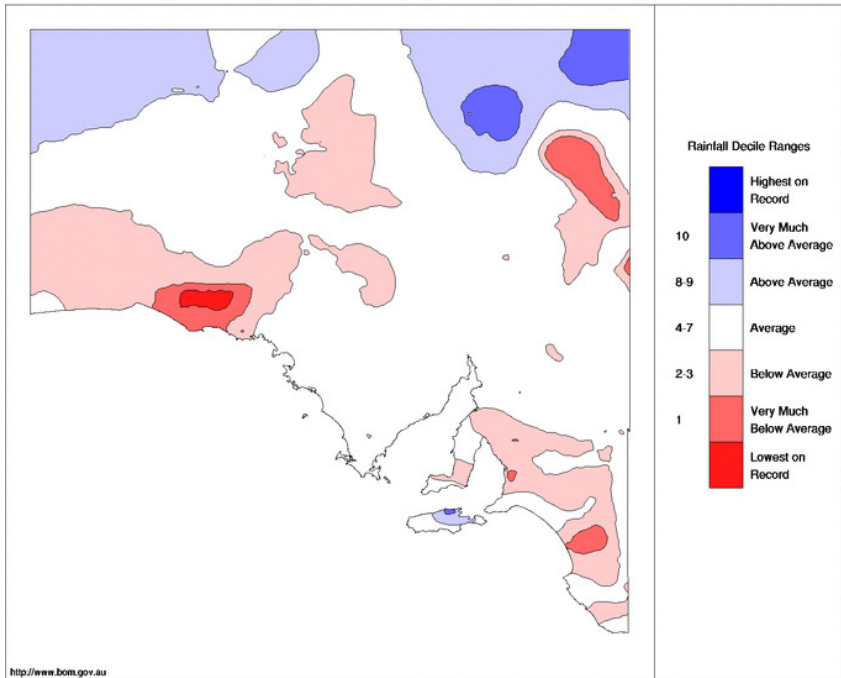
December was also generally dry, with very little rain being recorded across most areas but particularly dry across western and south-eastern agricultural areas. The heaviest rainfall was recorded at the start of the month in the north of the State where locally severe thunderstorms with damaging winds were observed across Pastoral districts. Several locations across the agricultural areas had their lowest total December rainfall for at least 20 years.

Extremes in December 2014

Hottest day	6.5 °C at Oodnadatta Airport on the 10th
Warmest days on average	38.2 °C at Oodnadatta Airport
Coollest days on average	20.1 °C at Cape Willoughby
Coldest day	14.8 °C at Parawa on the 10th
Coldest night	2.9 °C at Robe Airfield on the 27th
Coollest nights on average	9.9 °C at Naracoorte Aerodrome
Warmest nights on average	23.9 °C at Moomba Airport
Warmest night	30.1 °C at Oodnadatta Airport on the 10th
Warmest on average overall	30.9 °C at Moomba Airport
Coollest on average overall	16.0 °C at Mount Lofty
Wettest overall	50.0 mm at Ernabella (Pukatja)
Wettest day	29.4 mm at Kalamurina on the 3rd
Strongest wind gust	106 km/h at Marree Aero on the 10th

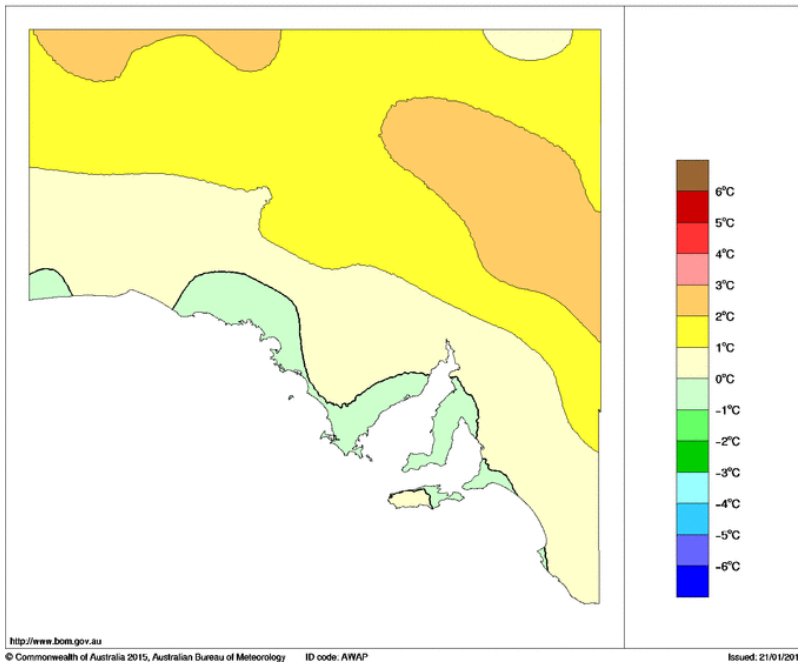
South Australian Rainfall Deciles December 2014

Distribution Based on Gridded Data
Australian Bureau of Meteorology



Maximum Temperature Anomaly (°C) December 2014

Australian Bureau of Meteorology



Adelaide in January 2015

- Tropical activity and low pressure systems bring significant rainfall in the second week
- Adelaide Hills records wettest January in more than 20 years
- Adelaide's coolest but most humid January days in 11 years

Despite above average temperatures during the first week of January daytime temperatures for the month as a whole were cooler than average across the Adelaide region, resulting in the coolest January days since 2004. Humidity levels were also high throughout the month, the most humid January conditions since 2004. Night-time temperatures were slightly warmer than average. Daytime temperatures cooled significantly during the second week, as an upper level trough and a burst of tropical activity produced moderate to heavy rainfall for most locations across the metropolitan area and hills regions between 8 to 11 January. This continued on 13 January as a low pressure system located south of the State extended another trough across the region. The rainfall from these systems resulted in the monthly total rainfall to exceed two to three times the January average across the Adelaide Hills, with several locations having their wettest January in more than 20 years. A persistent south-easterly airstream along southern coasts resulted in milder conditions continuing through the second half of the month.

Extremes in January 2015

Hottest day	44.1 °C at Adelaide (Kent Town) on the 2nd
Warmest days on average	29.1 °C at Parafield Airport
Coolest days on average	22.6 °C at Mount Lofty
Coldest day	12.5 °C at Mount Lofty on the 10th
Coldest night	6.8 °C at Mount Lofty on the 27th
Coolest nights on average	11.9 °C at Mount Lofty
Warmest nights on average	17.5 °C at Adelaide (Kent Town)
Warmest night	27.0 °C at Adelaide (Kent Town) on the 7th
Warmest on average overall	23.1 °C at Adelaide (Kent Town)
Coolest on average overall	17.3 °C at Mount Lofty
Wettest overall	95.8 mm at Ashton
Driest overall	7.4 mm at Gawler Council Depot
Wettest day	42.8 mm at Ashton on the 13th
Strongest wind gust	70 km/h at Mount Crawford on the 13th



Adelaide, South Australia January 2015 Daily Weather Observations

Observations are from Kent Town, about 2 km east of the city centre.

Date	Day	Temps		Rain	Evap	Sun	Max wind gust			5am			3pm			MSLP			
		Min	Max				Dirn	Spd	Time	Temp	RH	Cld	Dirn	Spd	MSLP		Temp	RH	Cld
		°C	°C	mm	mm	hours	local	°C	%	eghts	km/h	km/h	km/h	°C	%	eghts	km/h	km/h	hPa
1	Th	15.1	37.0	0	0	12.3	14:58	23.9	43	SW	11	1012.1	34.2	20	NNW	9	1009.3		
2	Fr	23.2	44.1	0	0	13.1	11:19	34.9	12	N	17	1008.4	42.8	10	NW	20	1006.7		
3	Sa	24.4	38.2	0	0	8.9	14:44	28.2	33	SSW	15	1005.8	35.4	17	S	28	1007.3		
4	Su	17.7	30.5	0	0	13.6	00:51	21.6	51	SSE	13	1016.4	28.9	33	SE	13	1014.8		
5	Mo	18.2	34.9	0	43.4	13.0	22:57	24.1	45	Caln	Caln	1016.7	32.4	28	SE	13	1014.7		
6	Tu	23.7	36.4	0	10.2	13.4	23:33	30.2	31	ENE	11	1015.4	38.0	25	WSW	19	1013.1		
7	We	27.0	42.2	0	10.8	8.0	17:55	35.1	29	N	17	1011.8	39.4	23	W	17	1008.7		
8	Th	21.8	27.2	7.4	7.6	1.3	07:12	22.3	94	S	9	1010.5	25.6	64	N	15	1008.6		
9	Fr	19.4	21.4	2.8	2.6		17:28	20.0	75	SW	4	1009.3	18.6	69	SE	17	1007.8		
10	Sa	14.6	20.2	8.0			04:10	14.7	79	ESE	15	1010.1	20.0	67	NE	13	1010.1		
11	Su	14.6	28.3	2.2			17:08	18.4	73	SSE	13	1013.8	26.3	51	ESE	11	1010.4		
12	Mo	18.3	28.9	0	9.0	3.8	20:58	25.2	66	ENE	15	1008.3	25.3	83	W	11	1005.1		
13	Tu	18.6	20.5	14.8	2.8	0.0	10:43	18.7	94	W	50	1004.4	18.4	84	WSW	22	1004.5		
14	We	17.1	23.5	2.4	2.4	8.2	02:32	18.8	59	S	20	1011.6	22.4	51	WSW	20	1011.5		
15	Th	15.9	24.0	0	6.2	11.5	12:43	18.4	59	S	13	1014.3	22.8	48	W	20	1012.7		
16	Fr	13.2	25.6	0	5.0		17:47	18.4	69	NE	2	1013.0	24.5	48	W	15	1012.0		
17	Sa	17.9	25.3	0			17:29	19.2	59	SSW	13	1015.9	23.9	38	WSW	19	1015.3		
18	Su	15.8	25.8	0	10.0	10.0	16:38	18.3	50	S	9	1019.0	24.1	41	SE	11	1016.4		
19	Mo	15.8	31.7	0	19.2	12.4	03:44	20.9	43	ENE	11	1014.1	29.6	28	W	6	1010.0		
20	Tu	20.7	33.1	0	8.0	5.6	12:38	26.9	36	NE	11	1001.4	29.4	46	W	24	998.8		
21	We	17.8	28.1	0.4	5.8	10.5	17:00	20.1	76	S	11	1010.5	27.2	50	WSW	11	1010.0		
22	Th	15.5	31.5	0	5.2	12.4	13:00	21.6	61	N	4	1011.0	30.2	42	WSW	19	1008.7		
23	Fr	18.1	26.0	0	7.0		17:13	21.9	71	SSW	13	1009.9	25.1	48	WSW	20	1008.7		
24	Sa	15.2	25.4	0			20:18	19.6	58	W	19	1008.9	24.8	46	W	19	1007.7		
25	Su	14.4	22.4	0			14:08	17.6	52	SSW	19	1013.5	21.3	37	WSW	24	1014.3		
26	Mo	14.9	21.4	0			17:35	17.1	55	SSE	13	1018.6	19.6	45	SSE	22	1017.1		
27	Tu	13.5	23.4	0	25.6		13:55	17.3	47	S	11	1018.6	21.9	41	SE	17	1016.4		
28	We	13.4	25.8	0	5.6		04:05	16.2	55	ESE	11	1018.4	25.5	33	SSE	15	1015.7		
29	Th	16.0	30.2	0	7.2		02:09	20.1	44	SE	15	1017.5	28.5	19	ESE	15	1015.5		
30	Fr	16.5	28.7	0	8.8		03:55	20.0	44	ESE	6	1016.6	27.9	23	S	11	1013.7		
31	Sa	14.3	24.1	0	7.6		13:56	17.7	52	ESE	19	1016.5	22.6	40	SSE	28	1015.0		
Statistics for January 2015																			
Mean		17.5	28.7		10.0	9.3		21.8	55		12	1012.7	27.1	41		17	1011.0		
Lowest		13.2	20.2		2.4	0.0		14.7	12		Caln	1001.4	18.4	10		W	6	998.8	
Highest		27.0	44.1	14.8	43.4	13.6	SW	35.1	94	S	20	1019.0	42.8	84	#	28	1017.1		
Total				38.0	200.0	158.0													

Observations were drawn from Adelaide (Kent Town) (station 033059)

Kent Town is a suburban site with good exposure. Climate averages are available for West Terrace as well as Kent Town.

ICD/JMW5003_201501 Prepared at 13:05 UTC on 2 Feb 2015

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South Australia in January 2015

- Tropical activity and low pressure systems bring record high daily and monthly rainfall totals
- 8th wettest January on record for the state
- Coolest January days for South Australia in 23 years
- Coolest nights for the state in 10 years

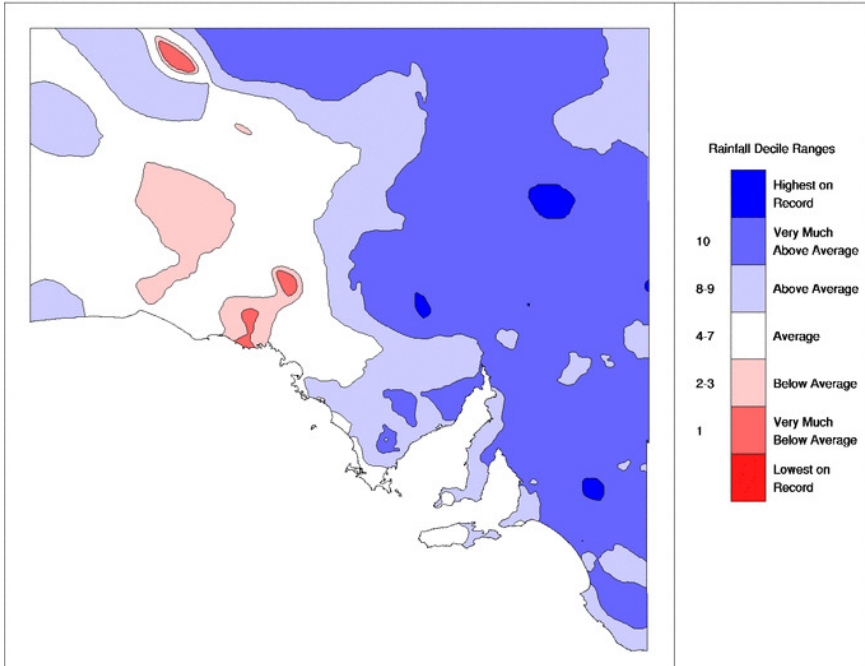
Despite hot days through the first week of the month, cooler than normal conditions from the second week of the month onwards resulted in the coolest January days experienced across the state since 1992. Nights were generally near average for much of South Australia, though tending warmer across coastal regions, resulting in the coolest January nights for the state since 2005. Between 8 to 11 January an upper level trough and a burst of tropical activity produced moderate to heavy rainfall for many locations across northern, central and eastern districts. This continued on 13 January as a low pressure system located south of the State extended another trough across the State. The rainfall from these systems saw several sites reporting their highest January daily rainfall on record. Some stations recorded two to three times their long-term January average, resulting in their highest total January rainfall on record. A persistent south-easterly airstream along southern coasts resulted in milder conditions continuing throughout the second half of the month.

Extremes in January 2015

Hottest day	46.4 °C at Port Augusta Aero on the 3rd
Warmest days on average	36.4 °C at Moomba Airport
Coolest days on average	22.3 °C at Neptune Island
Coldest day	12.5 °C at Mount Lofty on the 10th
Coldest night	3.2 °C at Coonawarra on the 27th
Coolest nights on average	11.8 °C at Naracoorte Aerodrome
Warmest nights on average	23.8 °C at Moomba Airport
Warmest night	31.2 °C at Marree Aero on the 3rd
Warmest on average overall	30.1 °C at Moomba Airport
Coolest on average overall	17.3 °C at Mount Lofty
Wettest overall	280.0 mm at Marree (Dulkaninna)
Wettest day	146.5 mm at Marree (Dulkaninna) on the 12th
Strongest wind gust	104 km/h at Keith (Munkora) on the 7th

South Australian Rainfall Deciles January 2015

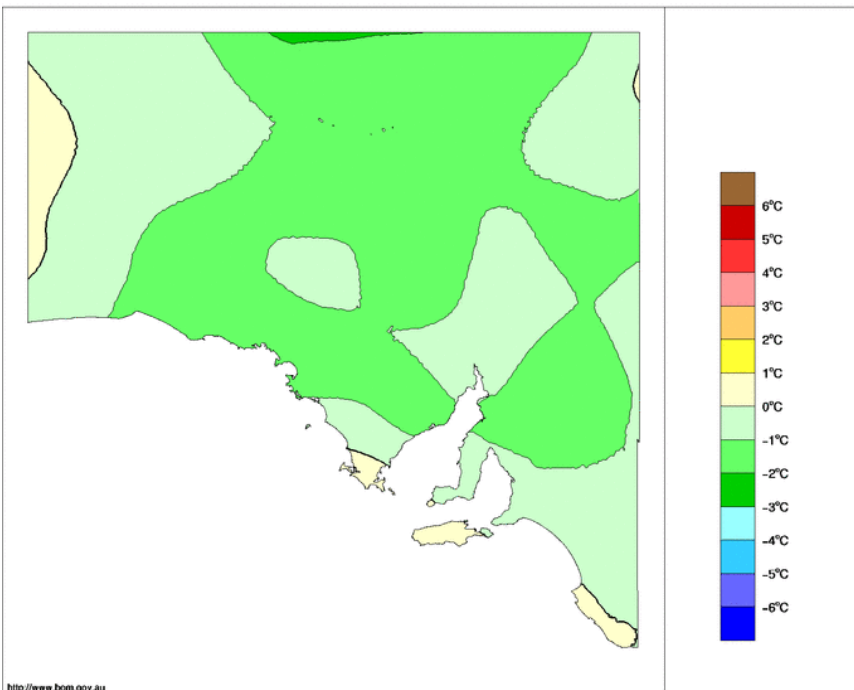
Distribution Based on Gridded Data
Australian Bureau of Meteorology



Maximum Temperature Anomaly (°C) January 2015

Australian Bureau of Meteorology

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Australian Meteorological Association Inc (AMetA)
www.ameta.org.au

NEXT MEETING

5.30 PM MONDAY 16 February 2015

Conference room, Bureau of Meteorology 25 College Road, Kent Town

Reminder: Please note that AMETA membership of \$15 for 2014/15 are due for those who have not yet paid.

Subject: Spray Drift—Seminar on meteorological factors affecting agricultural spraying

Speaker: Dr Warwick Grace from Grace

Research (formerly with BoM)

With GPS navigation and other technical advances, an increasing amount of pesticide and other agricultural spraying is being conducted at night. Meteorological factors such as overnight temperature inversions and low level turbulence can have unexpected impacts on direction and concentration of resulting spray drift. As a result adverse effects of off-target spray may show up a few days later in other crops several kilometres away.



Spray drift damage

A field experiment measuring inversions, turbulence and wind is currently being undertaken over the wheat fields of Western Australia by met scientists, Warwick Grace and Graeme Tepper. Preliminary analysis of the data will be presented.

We look forward to seeing you.

For further information contact

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Inquiries or suggestions, please contact the Secretary on the phone number listed above.