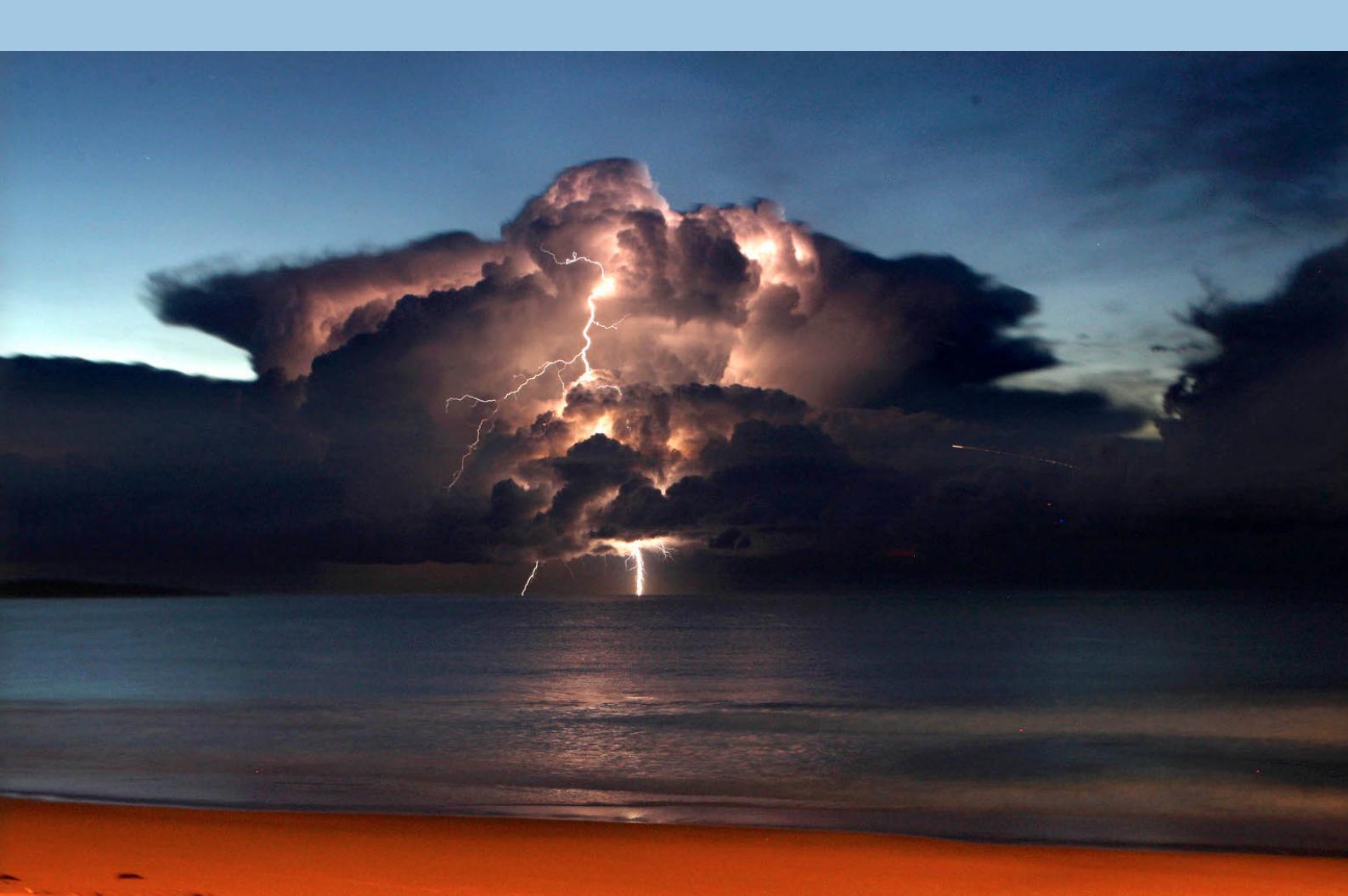




Australian Government  
Bureau of Meteorology

# Monthly Weather Review Australia June 2019



The *Monthly Weather Review - Australia* is produced by the Bureau of Meteorology to provide a concise but informative overview of the temperatures, rainfall and significant weather events in Australia for the month.

To keep the *Monthly Weather Review* as timely as possible, much of the information is based on electronic reports. Although every effort is made to ensure the accuracy of these reports, the results can be considered only preliminary until complete quality control procedures have been carried out. Any major discrepancies will be noted in later issues.

We are keen to ensure that the *Monthly Weather Review* is appropriate to its readers' needs. If you have any comments or suggestions, please contact us:

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## Units of measurement

Except where noted, *temperature* is given in degrees Celsius (°C), *rainfall* in millimetres (mm), and *wind speed* in kilometres per hour (km/h).

## Observation times and periods

Each station in Australia makes its main observation for the day at 9 am local time. At this time, the precipitation over the past 24 hours is determined, and maximum and minimum thermometers are also read and reset. In this publication, the following conventions are used for assigning dates to the observations made:

*Maximum temperatures* are for the 24 hours *from* 9 am on the date mentioned. They normally occur in the afternoon of that day.

*Minimum temperatures* are for the 24 hours *to* 9 am on the date mentioned. They normally occur in the early morning of that day.

*Mean temperatures* are the average of the daily maximum and daily minimum temperatures.

*Daily rainfall* is for the 24 hours *to* 9 am on the date mentioned. This means a significant fraction of the rain may have occurred on the previous calendar day.

*Monthly rainfall* is for the period from 9 am on the last day of the previous month to 9 am on the last day of this month.

*Maximum daily wind gusts* are in the 24 hours from midnight to midnight.

## Climatological values

The climatological averages shown in the text and tables are generally long-term means based on observations from the years 1961–1990. They are not shown for sites with less than 25 years of record in that time, as they cannot then be calculated reliably. Climatological extremes are generally taken from all available years of record; the number of years can vary markedly from site to site.

## Records

The tables of records are not exhaustive, as they only show sites with at least 30 years of record. This may exclude locations where a new site has been established; this means even some major cities and towns may not be listed.

## Maps

The temperature and rainfall maps are intended to give an overview of the country. There could be discrepancies between the values shown on these maps and those at individual locations, as a result of the way the maps are generated. A wide range of maps of rainfall, temperature and other variables, covering the whole country and smaller regions can be found at [www.bom.gov.au/climate/maps](http://www.bom.gov.au/climate/maps).

## Accessing data

Tables of daily values for selected sites are included toward the back of the *Monthly Weather Review*. Data from many more sites and for other times are available from [www.bom.gov.au/climate/data/](http://www.bom.gov.au/climate/data/).

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## Cover photograph

A thunderstorm off Cronulla.

Photograph by John Brett, 21 May 2010. Used with permission.

# Overview

- Warmer than average June for Australia
- Mean maximum temperature above average in the west and southeast, extending into southeast Queensland
- Mean minimum temperature mixed across the nation; cooler than usual in parts of central and southern Australia and above average in areas of the east and north
- Rainfall was above average in parts of the northern interior of Queensland, pockets of western Victoria and areas in southwest Western Australia
- Below average rainfall across large areas of New South Wales, eastern Western Australia, and western South Australia

Nationally, rainfall for June was more than 27% below average. Rainfall was below to very much below

average across most of New South Wales, extending into southern Queensland, and adjacent border regions of South Australia and Victoria. For the Murray-Darling Basin as a whole, June rainfall was 40% below average.

Daytime temperatures were above average across much of Western Australia away from the State's south, and in the southeast of Australia extending into southeast Queensland. Overnight temperatures were mixed across the nation, with scattered areas of above average temperatures across parts of the north and east. Below average overnight temperatures were generally reported through southern and central parts of Australia.

## Areal averages in June 2019

	Rainfall anomaly	Mean maximum temperature anomaly	Mean minimum temperature anomaly	Mean temperature anomaly
Australia	-28%	+0.54 °C	-0.02 °C	+0.26 °C
Western Australia	-15%	+0.86 °C	-0.27 °C	+0.30 °C
Northern Territory	-92%	+0.23 °C	-0.02 °C	+0.11 °C
South Australia	-36%	+0.42 °C	-0.94 °C	-0.25 °C
Queensland	-34%	+0.11 °C	+0.58 °C	+0.35 °C
New South Wales	-46%	+1.06 °C	+0.48 °C	+0.77 °C
Victoria	+13%	+0.90 °C	+0.30 °C	+0.60 °C
Tasmania	-6%	+0.49 °C	-0.21 °C	+0.14 °C

## Extremes in June 2019

	Hottest day	Coldest night	Wettest day	Warmest overall	Coolest overall	Wettest overall	Strongest wind gust
Australia	36.5 °C at Bradshaw (NT) on the 12th and Bradshaw - Angallari Valley (Defence) (NT) on the 12th and 13th	-12.0 °C at Perisher Valley AWS (NSW) on the 20th	116.0 mm at Bungwahl (NSW) on the 6th	28.3 °C at Coconut Island (Qld)	-0.8 °C at Thredbo AWS (NSW)	407.6 mm at Mount Read (Tas.)	154 km/h at Maatsuyker Island Lighthouse (Tas.) on the 30th
Western Australia	36.4 °C at Wyndham Aero on the 14th	-6.2 °C at Eyre on the 20th	87.0 mm at Aston Downs Alert on the 7th	26.6 °C at Browse Island	10.7 °C at Newdegate Research Station	330.4 mm at Bickley	115 km/h at Cape Leeuwin on the 27th
Northern Territory	36.5 °C at Bradshaw on the 12th and Bradshaw - Angallari Valley (Defence) on the 12th and 13th	-3.2 °C at Alice Springs Airport on the 22nd	15.6 mm at Cape Wessel on the 2nd	26.6 °C at Cape Wessel	11.8 °C at Alice Springs Airport	49.0 mm at Cape Wessel	74 km/h at Cape Wessel on the 1st
South Australia	31.6 °C at Oodnadatta Airport on the 11th	-7.1 °C at Yunta Airstrip on the 24th	64.8 mm at Aldgate on the 12th	13.7 °C at Neptune Island	7.9 °C at Mount Lofty	167.2 mm at Mount Lofty	106 km/h at Neptune Island on the 9th
Queensland	33.4 °C at Coconut Island on the 26th	-5.5 °C at Mitchell Post Office on the 22nd	101.0 mm at Corbould Pk Racecourse on the 18th	28.3 °C at Coconut Island	10.1 °C at Stanthorpe Leslie Parade	306.8 mm at Bellenden Ker Top Stn	111 km/h at Banana Bank North Beacon on the 16th
New South Wales	28.7 °C at Smithville AWS on the 11th	-12.0 °C at Perisher Valley AWS on the 20th	116.0 mm at Bungwahl (NSW) on the 6th	16.5 °C at Byron Bay (Cape Byron AWS)	-0.8 °C at Thredbo AWS	306.0 mm at Fingal Bay (Fingal Haven)	130 km/h at Ulladulla AWS on the 4th
Victoria	23.3 °C at Ouyen (Post Office) on the 28th	-8.1 °C at Falls Creek on the 20th	81.7 mm at Falls Creek (Rocky Valley) on the 13th	12.8 °C at Gabo Island Lighthouse	0.6 °C at Falls Creek	262.4 mm at Mount Buller	130 km/h at Mount Hotham on the 29th
Tasmania	19.5 °C at Friendly Beaches on the 29th and Grove (Research Station) on the 29th	-9.8 °C at Liawenee on the 24th	98.0 mm at Loongana (Serendipity) on the 30th	12.1 °C at Hogan Island	2.2 °C at kunanyi (Mount Wellington Pinnacle)	407.6 mm at Mount Read	154 km/h at Maatsuyker Island Lighthouse on the 30th

In this table *Hottest day* is the highest daily maximum temperature, *Coldest night* is the lowest daily minimum temperature, *Wettest day* is the highest daily rainfall total, *Warmest overall* is the highest mean monthly temperature, *Coolest overall* is the lowest mean monthly temperature and *Wettest overall* is the highest total monthly precipitation.

# Significant weather

## Snow in elevated areas of New South Wales and southern Queensland

Light snow was reported in Eukey, near Stanthorpe and near Girraween National Park in the southern Darling Downs region on 4 June. In the Northern Tablelands of New South Wales, snow fell overnight on the 3rd around Guyra, settling to several centimetres deep. Snow was also reported on the Central Tablelands, closing the Great Western Highway near Jenolan Caves Road at Hartley, while light snow fell around Armidale. About 5 cm of snow fell around Blackheath, similar at Katoomba and Lithgow, with snow falling to low levels at Mittagong. More than 70 cm of snow fell across alpine areas of New South Wales in the month.

## Strong to severe wind gusts in South Australia, Victoria, Tasmania and New South Wales

Ulladulla AWS in the New South Wales east coast, recorded a maximum wind gust of 130 km/h on the 4th due to the passage of a complex low pressure system and cold front. Wind gusts greater than 80 km/h were recorded in southern South Australia on the 9th and 10th from a cold front. The strongest recorded gust in South Australia was 106 km/h at Neptune Island late on the night of the 9th. Wind gusts exceeded 100 km/h on the 10th in Tasmania, including 128 km/h at Maatsuyker Island, 113 km/h at Cape Grim and 107 km/h at Hogan Island. A cold front on the morning of the 29th brought very strong winds to South Australia, Victoria and western Tasmania. Both Cape Willoughby and Neptune Island in South Australia reported wind gusts in excess of 90 km/h, while Mount Buller and Mount Hotham in Victoria reported wind gusts of 120 km/h and 130 km/h respectively, and Thredbo reported a wind gust of 122 km/h. Mount Read in western Tasmania reported a maximum wind gust of 109 km/h on the 29th.

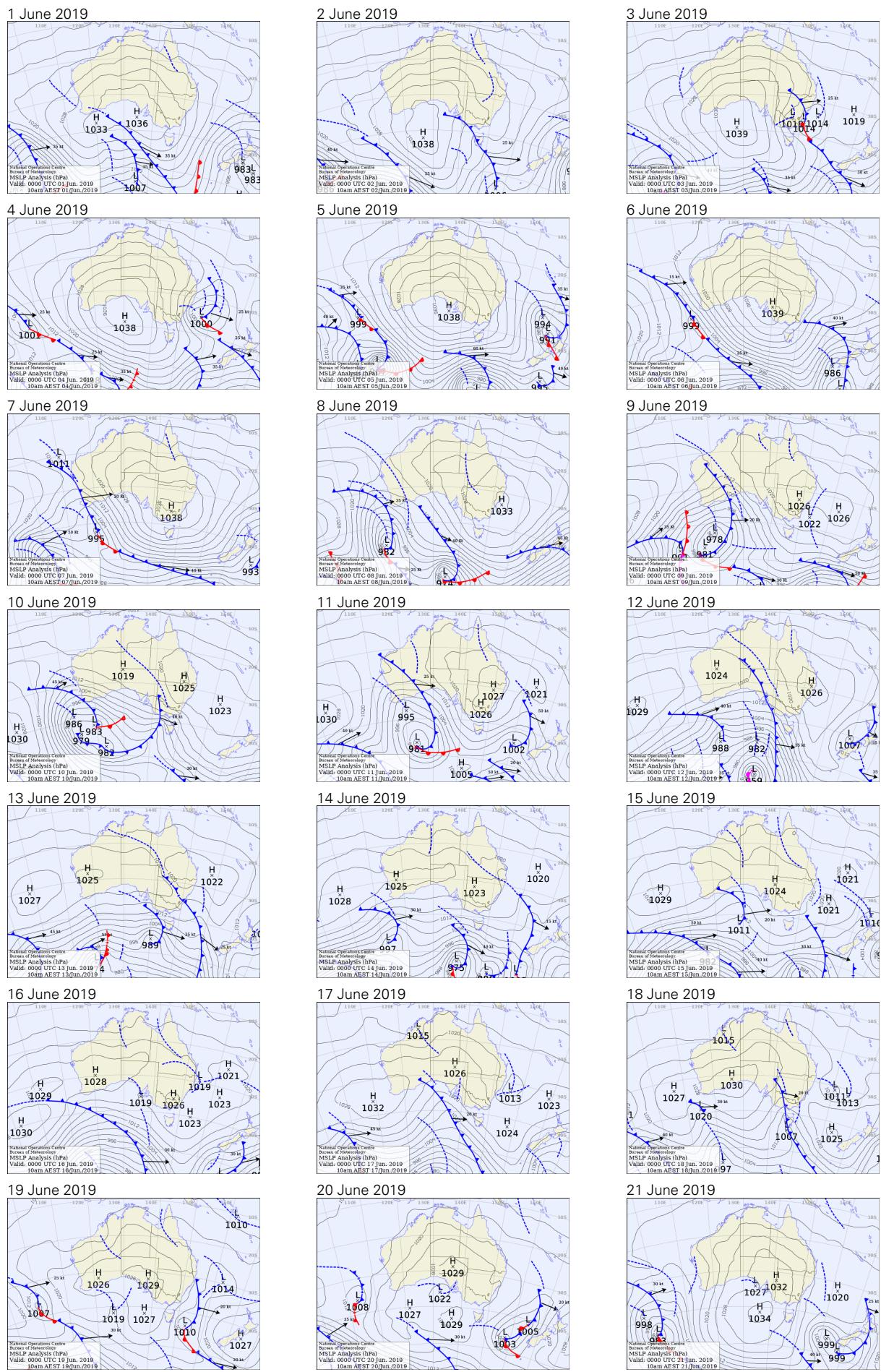
## Severe thunderstorms across southern New South Wales and northern Victoria

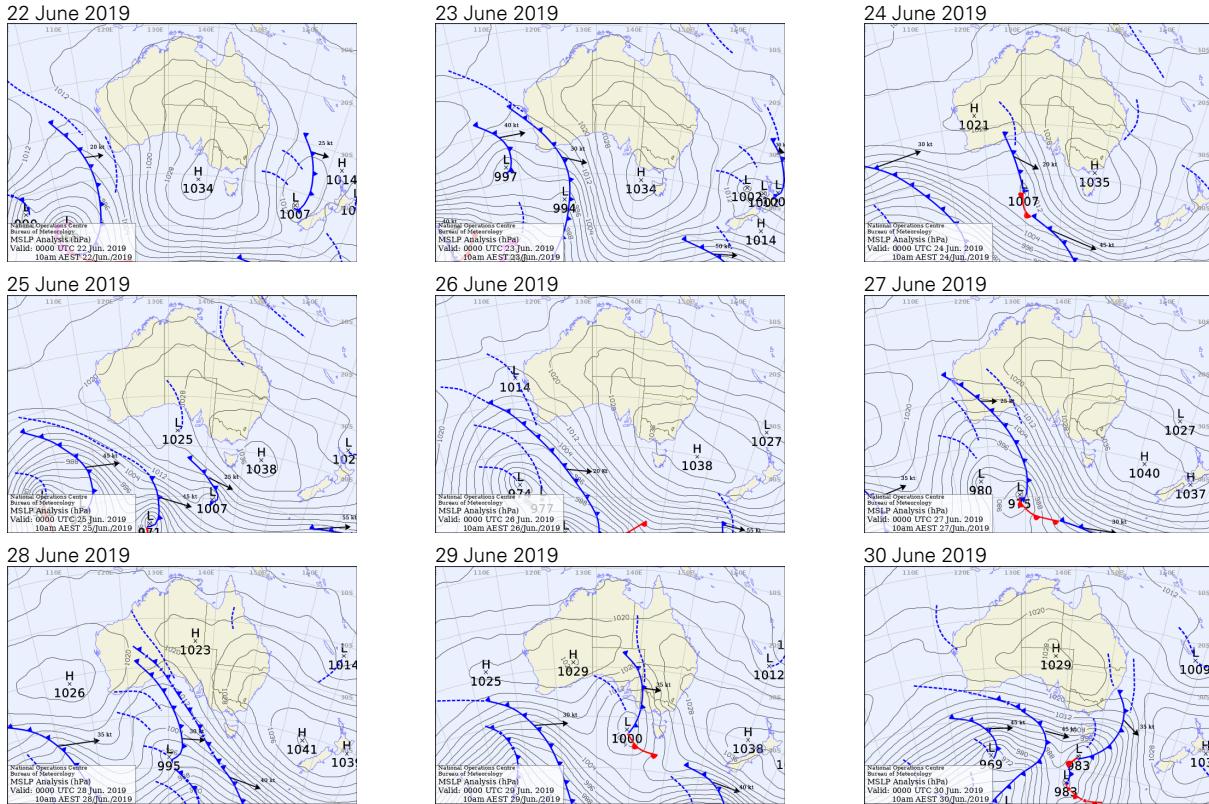
A strong cold front moved through southeast Australia on the 29th. A line of gusty thunderstorms moved through the Riverina, and damage reports from the SES suggest that the town of Tocumwal was the hardest hit from these thunderstorms, which went through the town around 4:30 pm. There is very strong evidence that the same line of storms produced a tornado at Axe Creek about 15 kilometres southeast of Bendigo on the 29th, which destroyed one house.

## Strong winds, fires, beach erosion and a tornado in the South West Land Division in Western Australia

Several cold fronts brought significant rainfall and strong wind gusts to the South West Land Division (SWLD) between the 6th and the 11th. Ahead of the passage of cold fronts, gusty northerly winds combined with very low dewpoints produced severe fire danger situations across inland parts of the SWLD, and several fires were burning out of control on the 6th, including at Jarrahwood. A tornado was reported at Lake Nowergup around midday on the 10th. Around 40 trees were damaged, and a powerline fell onto a farm property. Gabbadah, north of the Perth area, reported a roof torn off by a possible tornado. Tides were very high along the west coast and many places experienced beach erosion and inundation. Large pools of water inundated paddocks around Tooradin, with some linked to channels; beaches were eroded at Fremantle, Geraldton and Lancelin, and Brussleton jetty was almost completely submerged. The State's emergency agency received 183 calls for roof and structural damage, water ingress and downed trees.

# Synoptic analyses and summary





## Synoptic summary

Active cold fronts, pre-frontal troughs, and low pressure systems across southern and eastern Australia was a feature of June.

In the first week, strong cold fronts embedded in a westerly airstream extended across southeast Australia, and through southern and northern districts of New South Wales. Very cold and unstable air accompanied the fronts, with moderate falls in western and southeastern Tasmania, southern Victoria, and the Snowy Mountains in New South Wales. Snow fell in elevated areas of northern New South Wales and the southern Darling Downs in Queensland.

By the second week, an upper-level trough and associated cloudband brought showers and rain

across much of central, eastern, and southern Queensland, with isolated heavier falls in the southern tropics and central interior of Queensland. In the west, a large rainband associated with strong cold front, tracked over southwest Western Australia and generated widespread moderate falls along the southwest coast of Western Australia, and parts of the western Pilbara, the Gascoyne and Goldfields districts.

Several weak cold fronts tracked across the southern Australia in the middle of the month, generated moderate falls across Tasmania and parts of Victoria. In the last part of the month, much of the rainfall in southwest Western Australia was associated with a series of cold fronts tracking from southwest Western Australia across the southern coast of Australia.

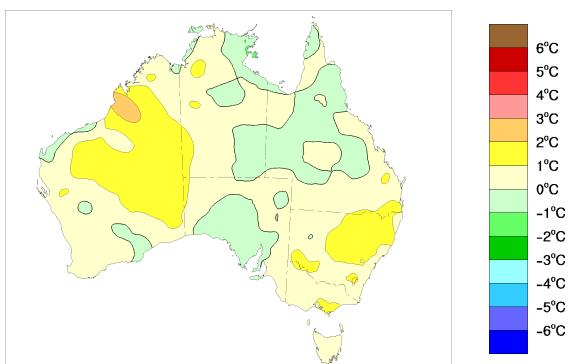
# Temperatures

June was warmer than average for Australia as a whole, with the national mean temperature  $0.26^{\circ}\text{C}$  above average. The mean maximum temperature was  $0.54^{\circ}\text{C}$  above average and the mean minimum temperature for the month was close to average, and just  $0.02^{\circ}\text{C}$  below average.

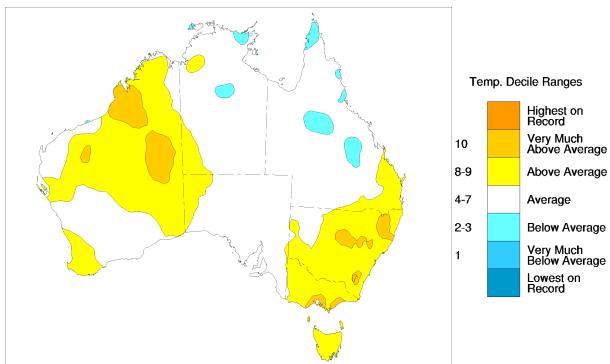
## Maximum temperatures

Overall, maxima were generally warmer than average across much of Western Australia. Above average mean maximum temperatures were also recorded in southeast Queensland, much of New South Wales, Victoria, and Tasmania. Areas of very much warmer than average mean maximum temperatures were observed in the northeast Western Australia, eastern New South Wales and southern Victoria. The mean maximum temperature for Australia as a whole was  $+0.54^{\circ}\text{C}$  above average. All State and Territories reported warmer than usual mean maximum temperatures.

### Anomalies of mean daily maximum temperature in June 2019



### Decile rank of mean daily maximum temperature in June 2019



Maximum temperatures were above to very much above average across most of northern and eastern, and far southwestern Western Australia, and across the borders into the southwest of the Northern Territory and west of South Australia. Maxima were

also above average in Tasmania, Victoria, most of New South Wales except the northwest, and in southeast Queensland. Small pockets of cooler than average maximum temperatures were evident throughout inland central and northern Queensland, and in northern pockets of the Northern Territory. Remaining parts of the country recorded mean maximum temperatures that were close to average.

In the first week of the month, warmer than usual days were observed in a large part of southwest Western Australia, with a couple of sites reporting their highest June temperature on record. In contrast, remaining parts of Australia were much cooler than usual, with large cool anomalies in the Northern Territory and northern Queensland. The cold front that tracked northeast through New South Wales and southern Queensland led to cooler than usual temperatures for much of eastern Australia.

Days were particularly warm in northern and eastern Australia during the second week of the month, as clear skies associated with a high pressure ridge brought very warm days from the 11th to the 13th, with many locations in the Western Slopes and Plains, and Central Tablelands districts in New South Wales reporting their warmest June temperature on record. The warmth extended into Central Australia, with daytime temperatures 8 to  $10^{\circ}\text{C}$  above average in northern South Australia and southern parts of the Northern Territory. The hottest days were at Bradshaw: it reached  $36.5^{\circ}\text{C}$  at Bradshaw on the 12th, and  $36.5^{\circ}\text{C}$  at Bradshaw-Angallari Valley (Defence) on the 12th and 13th.

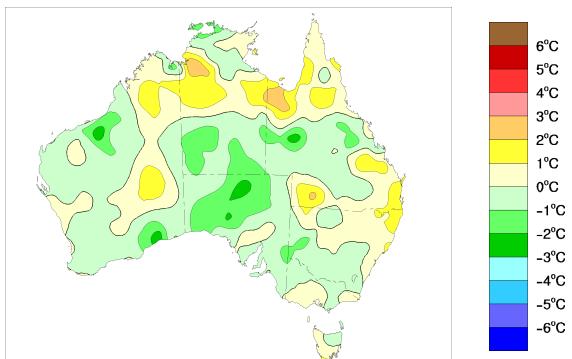
Clear skies and little cloud cover saw several cool days in a row during the third week of the month for much of the eastern half of Australia. Days were warmer than usual in the far west, with warm northerly air drawn down ahead of the passage of the cold fronts. In contrast, cool days were experienced in the southwest following the passage of a strong cold front at the end of June, while much of central to eastern Australia saw warmer days, ahead of the cold front.

## Minimum temperatures

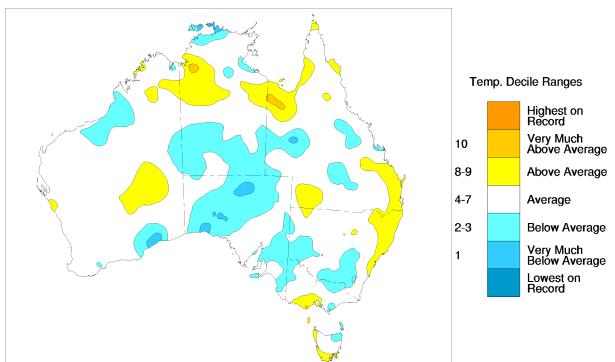
Minimum temperatures were close to average, with a national June anomaly of  $-0.02^{\circ}\text{C}$ . Queensland, New South Wales and Victoria were the only States to report above average minima. The state-wide anomaly for South Australia was the largest of all the States and Territory and was  $0.94^{\circ}\text{C}$  cooler than average. Mean minimum temperatures were broadly cooler than average across Central Australia, agricultural

districts and in the east of South Australia, western Victoria, southern New South Wales, pockets of inland Queensland, and along small parts of the northwest and north coasts of Australia.

### Anomalies of mean daily minimum temperature in June 2019



### Decile rank of mean daily minimum temperature in June 2019



Warmer than usual minimum temperatures were recorded in parts of the Gulf Country and northwest parts of the Top End in the Northern Territory, in eastern Australia, southwest Victoria and pockets of the inland Western Australia and Queensland.

Remaining parts of Australia reported minima that were close to the long-term average.

In the beginning of the month, a cold front and complex low pressure system brought a southerly burst which led to cool temperatures for much of eastern Australia. Snow was reported in alpine regions, including in the southern Darling Downs in Queensland on the 4th. Snow was also reported in Guyra, Armidale, Katoomba and Lithgow. Much of Australia experienced below average minima in the first week of June.

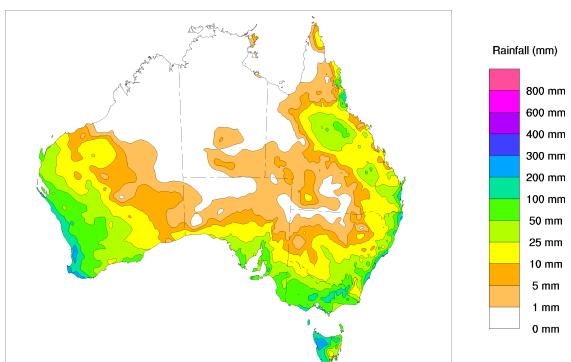
By the second week, cooler than average nights were experienced across much of southwest Western Australia, while above average nights were evident in across much of northern, and central to eastern Australia.

Persistent high pressure later in the month saw clear and cold nights from the 20th. Some sites had their coldest June night on record in southern inland Queensland, South Australia, New South Wales, Victoria and Tasmania. The coldest night was at Perisher Valley AWS with  $-12.0^{\circ}\text{C}$  on the 20th.

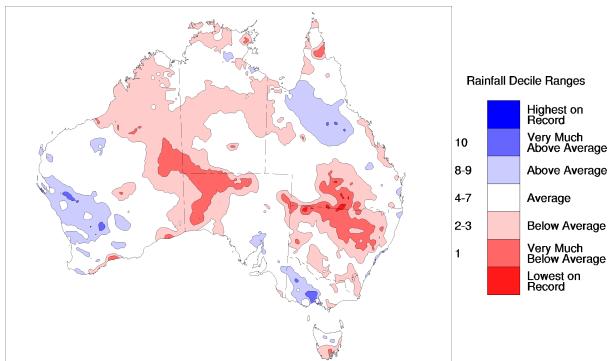
# Rainfall

Overall, June rainfall was above average in much of western parts of Western Australia, an area about the Flinders District in South Australia, parts of western Victoria and the northern interior of Queensland. Rainfall was below average across much of eastern Western Australia, the western half of South Australia, through southwest, central and northern parts of the Northern Territory, western and southern Queensland, most of New South Wales, isolated pockets of Victoria and in southern Tasmania.

## Total rainfall in June 2019



## Decile rank of total rainfall in June 2019



A cold southerly burst in the first week of the month, due to a complex low pressure system and cold front, produced snow in alpine regions of New South Wales and southern Queensland (see Significant Weather). Snow fell and settled on the ground as far north as the southern Darling Downs in Queensland. Heavier snowfalls were recorded in alpine regions, while at

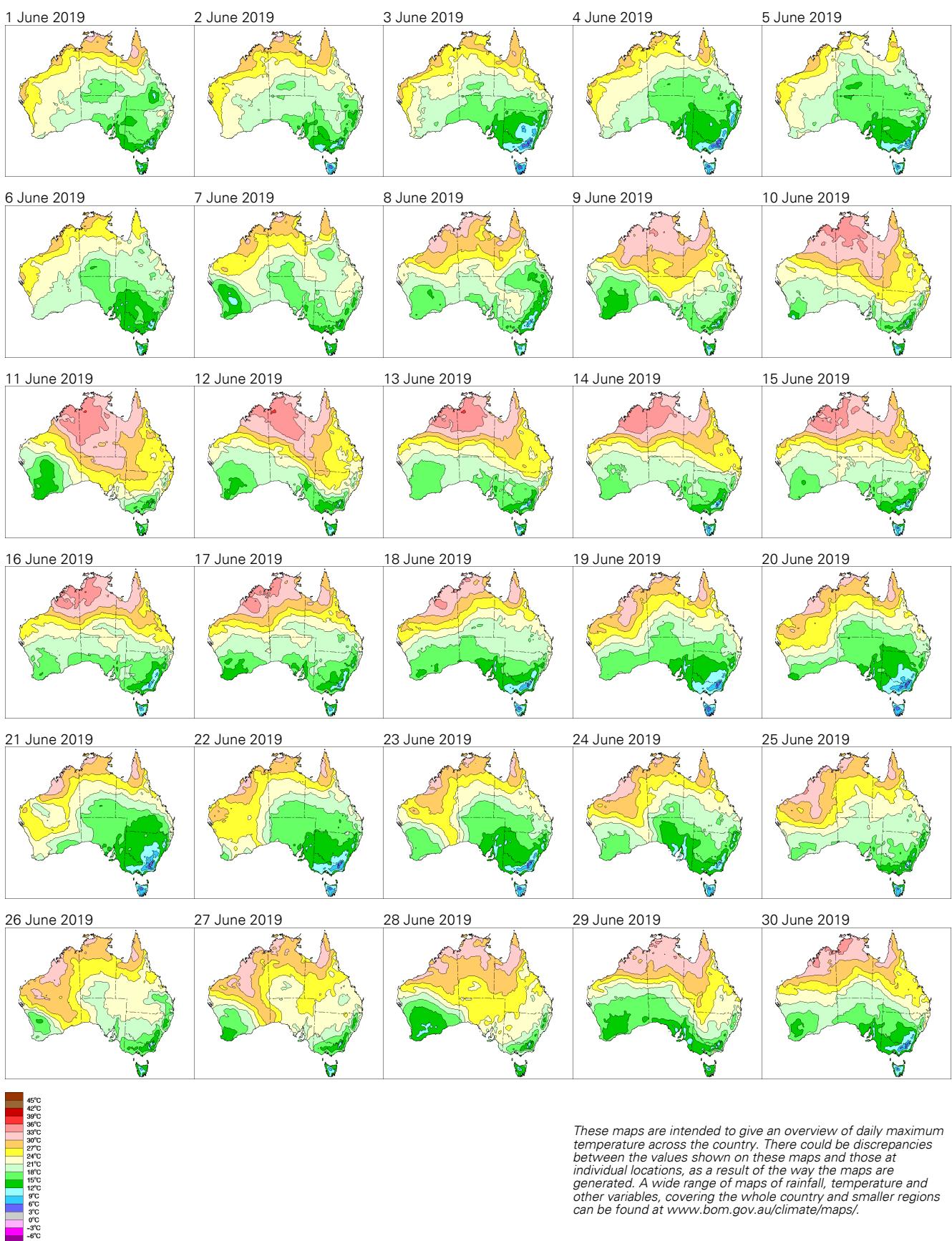
lower elevations, moderate falls associated with the passage of the cold front produced some record high June daily rainfall totals in Victoria. Moderate falls were also recorded in southeastern New South Wales, along with some isolated heavier falls reported.

During the second week of the month in the east, and upper-level trough brought showers and rain to central, eastern and southern Queensland as well as the north tropical Queensland coast. A series of cold fronts tracked from the southwest to southeast of Australia. The first cold front produced a large cloudband and moderate falls along the southwest coast of Western Australia, and widespread light falls over much of the South West Land Division. The next few fronts brought moderate falls to southwest Western Australia, southern South Australia, most of Victoria and elevated parts of the Snowy Mountains in New South Wales, and in western and northern Tasmania. The strong cold front and associated cloudband brought particularly heavy falls to South Australia on the 12th, with some record high June daily rainfall totals reported.

A trough off the southeast Queensland coast around the 16th produced showers and moderate falls in part of southeast Queensland, and about the Illawarra coast of New South Wales. Another strong cold front and associated cloudband produced locally heavy falls in the South West Land Division of Western Australia on the 23rd and 24th. Some daily rainfall records for June were set, and a number of sites in southwest Western Australia had their wettest June of record, or in several decades. At the end of the month, moderate to heavy falls were recorded over large parts of the southeastern mainland, and in northern Tasmania. The moderate to heavy falls were associated with a low pressure system east of Tasmania, as well as a cold front tracked over the southeast. The wettest single day was at Bungwahl in the Mid North Coast district in New South Wales with 116.0 mm on the 6th. The wettest place overall was 407.6 mm at Mount Read in Tasmania.

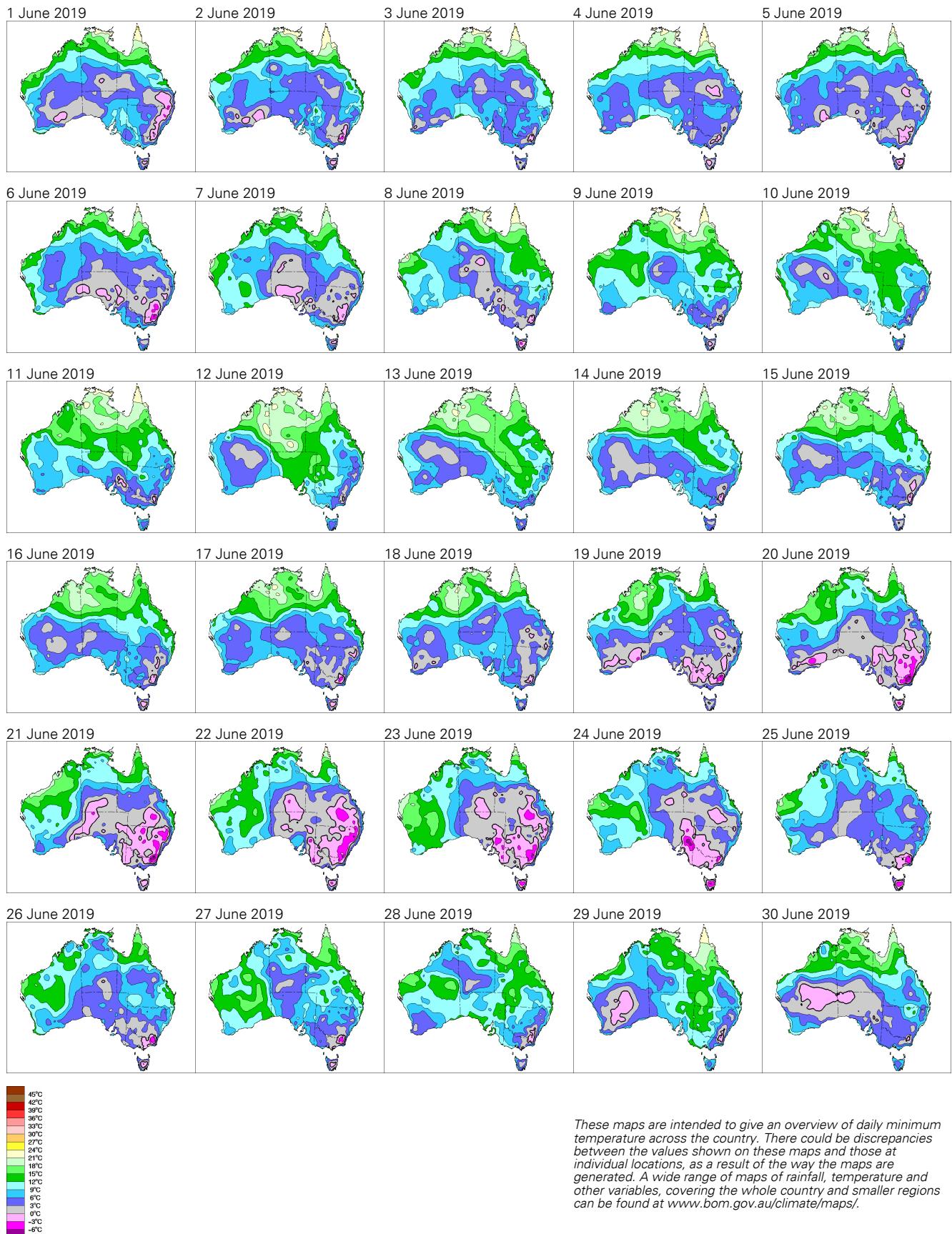
# Daily maps

## Daily maximum temperature maps

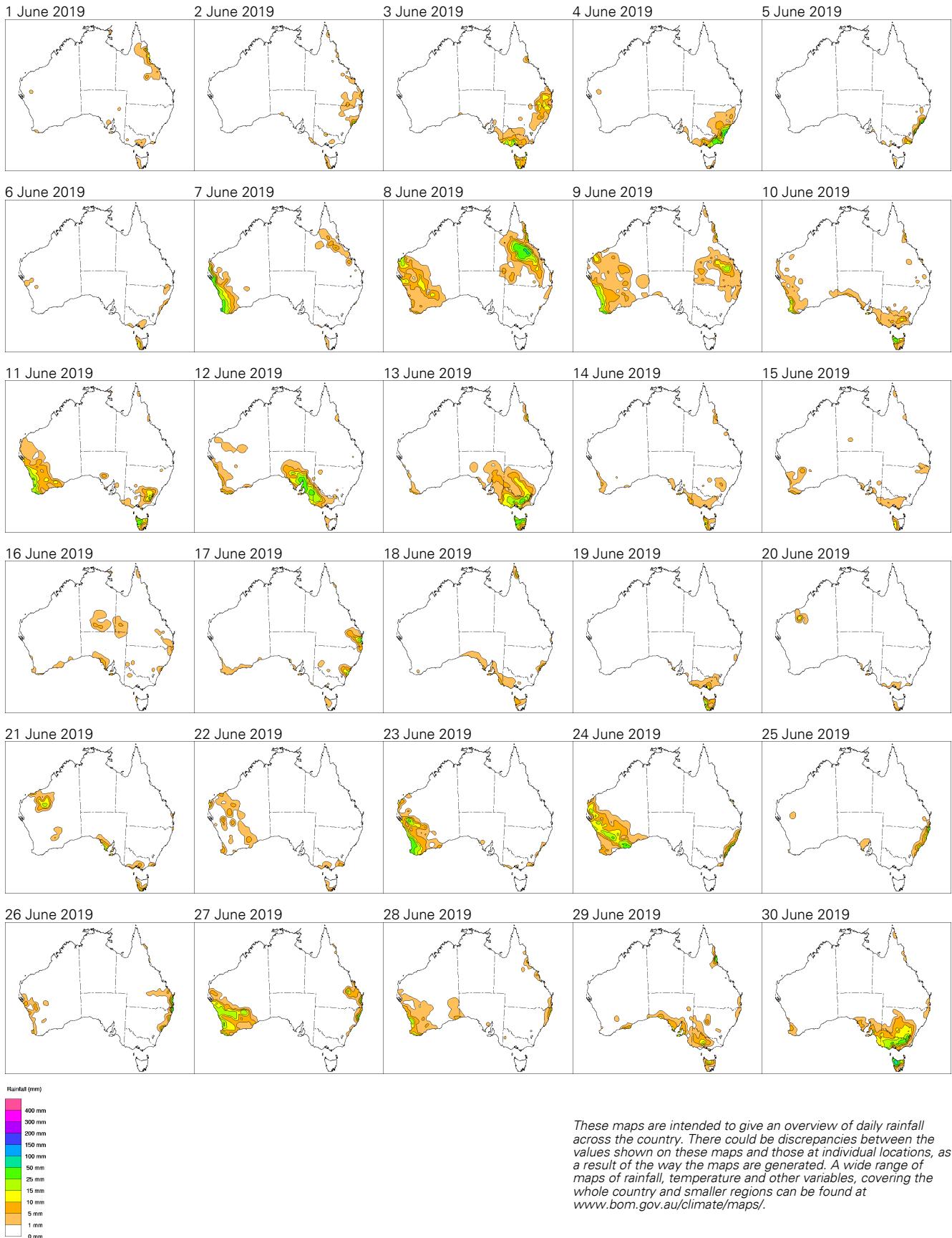


These maps are intended to give an overview of daily maximum temperature across the country. There could be discrepancies between the values shown on these maps and those at individual locations, as a result of the way the maps are generated. A wide range of maps of rainfall, temperature and other variables, covering the whole country and smaller regions can be found at [www.bom.gov.au/climate/maps/](http://www.bom.gov.au/climate/maps/).

## Daily minimum temperature maps



## Daily rainfall maps



These maps are intended to give an overview of daily rainfall across the country. There could be discrepancies between the values shown on these maps and those at individual locations, as a result of the way the maps are generated. A wide range of maps of rainfall, temperature and other variables, covering the whole country and smaller regions can be found at [www.bom.gov.au/climate/maps/](http://www.bom.gov.au/climate/maps/).

# Records

## Record highest June daily maximum temperature

		New record	Old record	Years of record
Western Australia				
009131	Jurien Bay	27.8 on 1st	= 27.8 on 3rd in 2008	50
009573	Manjimup	23.1 on 2nd	22.9 on 5th in 1975	60
009842	Jarrahwod	24.0 on 1st	23.6 on 1st in 2009	38
Northern Territory				
015635	Yulara Airport	31.7 on 11th	= 31.7 on 10th in 2018	33
New South Wales				
048027	Cobar MO	26.3 on 11th	= 26.3 on 9th in 1995	58
051049	Trangie Research Station AWS	25.0 on 11th	24.7 on 1st in 1976	51
= indicates the new record equals the old one.				

## Record lowest June daily minimum temperature

		New record	Old record	Years of record
South Australia				
026091	Coonawarra	-3.8 on 22nd	-3.2 on 3rd in 2017	34
New South Wales				
073007	Burrinjuck Dam	-3.8 on 23rd	-2.6 on 5th in 2004	54

## Lowest June mean minimum temperature for at least 30 years

		Observed this month	Most recent lower
Queensland			
035069	Tambo Post Office	3.6	0.8 in 1982

## Record highest June daily minimum temperature

		New record	Old record	Years of record
Northern Territory				
015135	Tennant Creek Airport	22.1 on 11th	21.7 on 17th in 2016	50
015590	Alice Springs Airport	21.8 on 12th	21.0 on 20th in 1945	78
015635	Yulara Airport	17.3 on 12th	= 17.3 on 28th in 2003	33
South Australia				
026021	Mount Gambier Aero	14.1 on 29th	13.9 on 10th in 1987	78
026091	Coonawarra	14.7 on 29th	14.5 on 4th in 1988	34
New South Wales				
051039	Nyngan Airport	16.2 on 13th	15.0 on 2nd in 1962	60
Victoria				
090171	Portland (Cashmore Airport)	14.1 on 29th	14.0 on 9th in 1995	38
= indicates the new record equals the old one.				

### Record highest June daily rainfall

		New record	Old record	Years of record
<b>Western Australia</b>				
008251	Kalbarri	60.0 on 7th	52.8 on 24th in 1978	49
009114	Lancelin	63.2 on 23rd	62.4 on 7th in 1981	54
009738	Muja Power Station	75.0 on 24th	56.0 on 28th in 1983	57
012223	Lort River	27.6 on 24th	27.4 on 22nd in 1972	51
<b>South Australia</b>				
016032	Nonning	41.0 on 12th	35.2 on 16th in 2016	110
021007	Brinkworth	46.0 on 12th	43.9 on 2nd in 1939	119
021100	Burra (Leighton)	30.0 on 12th	28.0 on 28th in 1980	51
021102	Nurom (Riverside Farm)	41.6 on 12th	38.4 on 6th in 1994	51
021104	Balaklava (Wanappe)	47.4 on 12th	37.6 on 6th in 1994	51
021115	Mundoora (Barunga North)	56.0 on 12th	45.8 on 6th in 1994	56
023039	Rhynie (Salters Springs)	43.4 on 12th	41.0 on 23rd in 1996	63
023042	Burnside	50.8 on 12th	47.5 on 22nd in 1908	41
023087	Reeves Plains (Parana Park)	34.8 on 12th	30.4 on 27th in 1978	46
023323	Tarnma	40.0 on 12th	= 40.0 on 2nd in 1981	63
023355	Riverton (Leeward)	36.0 on 12th	33.0 on 11th in 2005	51
025036	Kulkami	33.2 on 12th	23.0 on 22nd in 1987	51
<b>Victoria</b>				
076109	Murrayville (Ngallo)	32.0 on 12th	26.4 on 5th in 1988	50
087033	Little River	35.0 on 3rd	34.0 on 15th in 1973	110
087113	Avalon Airport	36.6 on 3rd	29.2 on 15th in 1973	40
089068	Rokewood	33.4 on 13th	26.0 on 13th in 2013	57

= indicates the new record equals the old one.

### Record highest June total rainfall

		New record	Old record	Years of record
<b>Western Australia</b>				
008273	Arena	163.8	147.2 in 1986	39
008283	Karawa	79.6	76.8 in 1991	33
008285	Mataranka	142.6	136.6 in 1998	31
008286	Wundi	147.0	137.4 in 1973	41
<b>Victoria</b>				
087161	Merrimu Reservoir	91.4	84.3 in 1991	46

Highest June total rainfall for at least 30 years

		Observed this month	Most recent higher
Western Australia			
006068	Wahroonga	90.2	135.8 in 1980 *
007064	Murgoo	79.2	103.1 in 1986
007068	Ninghan Station	86.0	96.3 in 1986
008013	Bowgada	105.8	140.7 in 1968 *
008014	Dalwallinu North	79.0	96.4 in 1989
008016	Glenferrie	74.5	98.2 in 1989
008025	Carnamah	105.6	124.2 in 1983
008037	Coorow	96.6	131.8 in 1983
008052	Gleneva	115.4	133.2 in 1986
008060	South Holmwood	116.6	167.8 in 1968 *
008065	Isseka	143.8	175.0 in 1982
008072	Latham	106.4	108.2 in 1970 *
008077	Highfields	106.8	108.8 in 1983 *
008079	Manarra	124.0	191.9 in 1968 *
008116	Sandsprings	151.0	167.0 in 1986 *
008121	Three Springs	118.4	122.2 in 1970 *
008137	Wongan Hills	90.2	91.2 in 1988
008143	Yandanooka	136.2	156.8 in 1970
008168	Howatharra	171.5	187.0 in 1982
008200	Eradu	120.8	158.2 in 1986
008274	Naraling	131.2	155.2 in 1986 *
009033	New Norcia	151.2	170.6 in 1983 *
010026	Goodlands	102.4	124.2 in 1968 *
010070	Kalannie	92.7	98.0 in 1983 *
010135	Wialki	90.6	178.1 in 1968 *
010150	Grass Valley	106.4	139.2 in 1983 *
010192	Jourerdine	89.6	183.1 in 1968
012064	Noongaar	98.2	185.0 in 1968
Queensland			
030021	Glendower Station	67.0	95.0 in 1985 *
Victoria			
086213	Rosebud (Country Club)	148.0	169.8 in 1977
087006	Ballan	157.4	210.4 in 1952
087017	Blackwood	245.1	296.0 in 1952 *
087075	Bullengarook East	173.2	199.1 in 1952 *

\* note: there are gaps in the historical record at this site, so it is possible a higher value has gone unreported.

### Record lowest June total rainfall

		New record	Old record	Years of record
Western Australia				
012114	Richfields	17.5	21.8 in 1993	61
New South Wales				
052074	Pilliga (Lowana)	0.0	0.6 in 1986	41
Victoria				
085283	Willow Grove (Blue Rock Reservoir)	0.0	2.8 in 2018	33
088067	Yea	1.4	11.2 in 1974	134
090167	Winchelsea (Post Office)	0.0	9.1 in 1914	118
Tasmania				
094116	Geeveston (Riawunna)	11.0	24.0 in 2007	48

### Lowest June total rainfall for at least 30 years

		Observed this month	Most recent lower month
Western Australia			
200284	Cocos Island Airport	53.8	7.4 in 1978 *
South Australia			
023098	Adelaide (Morphettville Racecourse)	7.0	6.8 in 1967 *
Queensland			
033008	Byfield Childs Road	12.0	7.0 in 1982 *
New South Wales			
048006	Enngonia (Belalie)	0.6	0.0 in 1982
048015	Brewarrina Hospital	1.4	0.0 in 1982
048025	Weilmoringle (Caringle)	1.2	0.0 in 1982
051026	Hermidale Tank	3.2	1.6 in 1986
051042	Quambone Station	6.9	2.2 in 1986 *
051049	Trangie Research Station AWS	5.8	4.4 in 1986 *
051066	Eumungerie Post Office	6.8	0.0 in 1984 *
051122	Curban (Ercildoune)	4.6	2.4 in 1984 *
051133	Warrumbungle (Miagunyah)	7.0	6.2 in 1986 *
052023	Pilliga Post Office	1.2	0.0 in 1986
053034	Wee Waa (Pendennis)	1.8	0.0 in 1986
053081	Kenebri (Cumbil)	5.4	2.2 in 1986
054125	Caroda (Roseberry Park)	5.2	5.0 in 1984 *
055002	Mullaley (Bando)	4.4	1.0 in 1986
055006	Blackville Post Office	9.0	0.0 in 1986
055007	Boggabri Post Office	2.3	1.0 in 1986
055056	Willow Tree (Green Hills)	10.6	4.0 in 1986 *
055057	Willow Tree (Valais)	7.8	2.6 in 1986 *
055157	Winton (Dalblair)	7.8	3.6 in 1986
055273	Boggabri (Neotsfield)	2.4	0.0 in 1986 *
061007	Bunnan (Milhaven)	6.4	1.0 in 1988 *
061051	Murrurundi (Haydon Street)	9.4	9.0 in 1986 *
061065	Aberdeen (Rossgole)	13.2	8.6 in 1986 *
062013	Gulgong Post Office	4.2	0.8 in 1984
062021	Mudgee (George Street)	10.2	7.6 in 1986
062075	Galambine (Gooree Park)	8.4	3.4 in 1984 *
064024	Gilgandra (Wallumburrawang)	6.6	1.6 in 1984

\* note: there are gaps in the historical record at this site, so it is possible a lower value has gone unreported.

# Selected observations

## Daily and mean maximum temperatures for June 2019

	Mean	Anom	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
001019 Kalumburu	32.2		29.3	30.6	27.6	28.7	28.5	28.5	30.6	32.2	33.3	35.1	35.1	36.2	33.6	35.2	34.2	34.4	35.1	32.7	32.2	31.5	31.2	30.5	31.1	31.3	32.0	31.3	33.3	34.4	34.1		
002056 Kununurra Aero	30.6		27.1	27.8	26.3	26.7	23.7	25.8	28.3	31.4	32.9	34.8	35.0	36.1	35.0	34.8	34.7	35.4	33.8	33.2	29.4	29.2	28.4	27.4	28.5	28.5	29.4	29.2	31.1	32.4	33.1		
003003 Broome Airport	30.5	+1.2	26.9	28.8	27.9	28.4	28.2	27.9	28.9	31.5	28.7	29.7	27.9	29.4	31.7	33.2	31.7	31.3	30.5	30.7	28.8	31.8	32.5	31.3	31.5	33.3	33.0	33.2	32.6	29.6	31.1	33.6	
003032 Derby Aero	31.6		28.6	29.5	29.5	29.4	29.8	29.3	29.9	31.2	31.3	31.3	31.6	32.9	34.6	35.4	35.1	34.4	33.4	32.3	32.0	32.9	32.3	32.3	30.5	30.0	31.5	32.0	31.4	29.3	32.5	32.8	
004032 Port Hedland Airport	27.7	0.0	27.1	27.3	27.8	27.0	27.1	26.9	24.9	26.2	27.1	26.4	27.0	25.7	27.5	28.4	27.5	27.0	28.5	29.2	27.6	27.7	25.9	27.8	26.8	30.4	31.4	29.1	26.8	30.8	27.4	30.0	
004083 Karatha Aero	26.3		25.9	25.9	26.7	25.5	25.0	23.9	24.7	25.0	27.0	23.9	25.6	24.8	26.8	28.1	27.4	25.4	27.8	27.3	27.1	25.3	23.4	24.5	26.1	28.1	27.6	29.1	29.4	26.3	27.3		
004106 Marble Bar	27.7		25.4	25.6	25.8	25.0	25.0		28.0	29.8	26.3	27.4	25.7	24.5	26.4	26.6	26.8	25.8	27.3	28.9	29.7	30.2	29.0	28.5	29.6	30.6	31.2	31.5	31.4	28.8	25.0	28.3	
005007 Learmonth Airport	24.6		26.1	24.4	26.5	26.0	25.1	24.3	21.8	23.7	23.2	23.4	22.2	22.5	24.1	24.3	25.4	24.8	25.8	25.7	25.6	25.3	24.5	24.3	22.3	24.4	26.2	28.2	27.1	23.4	22.5	24.0	
006011 Carnarvon Airport	24.1	+0.8	28.4	27.5	27.9	27.7	27.4	28.0	19.2	21.7	21.3	22.6	20.7	22.3	23.3	22.6	24.2	24.6	24.8	25.9	23.6	25.3	24.9	27.7	23.4	19.8	25.4	25.1	21.4	20.6	21.7	21.6	
006044 Denham	22.6		26.4	25.2	26.1	26.0	26.2	26.8	18.5	21.5	20.0	22.5	20.5	21.5	21.2	20.5	21.5	22.0	23.8	24.0	22.7	24.3	26.5	21.5	22.5	21.9	23.0	22.0	19.8	18.8	19.0		
007176 Newman Aero	23.9		22.5	23.2	21.3	22.1	21.9	22.2	25.5	23.8		23.2	23.0	20.8	22.0	22.3	21.9	22.7	22.9	24.8	26.0	27.9	20.9	24.8	26.3	28.3	26.9	29.2	29.1	22.6	19.4	24.3	
007185 Paraburdoo Aero	25.5		25.6	26.3	25.2	25.0	24.7	25.7	28.2	22.0	19.4	24.6	19.5	21.3	22.7	23.3	23.6	24.6	25.1	26.6	27.5	29.0	28.6	29.7	29.5	29.7	31.8	27.6	22.3	24.1	25.3		
007045 Meekatharra Airport	20.3	+0.6	23.9	21.6	21.9	22.4	22.6	18.9	14.7	15.7	17.9	14.4	16.9	17.5	17.8	18.8	19.1	19.5	21.4	25.0	25.4	25.5	20.4	20.4	25.4	27.4	21.3	15.8	17.6	19.9			
007600 Mount Magnet Aero	19.4		23.2	22.5	21.5	22.1	21.9	22.5	14.1	17.8	16.0	18.7	15.8	16.9	18.3	18.3	18.1	18.6	19.6	22.5	26.7	25.2	17.9	18.6	22.1	22.7	17.4	14.3	16.4	19.3			
008296 Morawa Airport	19.7		24.5	24.3	23.3	22.4	23.6	24.1	15.0	18.1	16.9	18.6	16.4	17.5	18.6	19.2	19.1	18.5	19.4	19.6	21.5	24.8	24.5	25.4	16.9	19.6	21.2	16.4	18.4	15.1	15.9	17.3	
008297 Dalwallinu	18.2		23.0	22.8	21.5	20.8	21.9	22.3	13.5	17.0	15.0	18.1	15.0	16.2	17.4	18.2	17.6	17.9	16.0	17.9	16.9	19.4	24.3	23.0	16.2	17.5	19.1	14.8	16.8	13.5	14.8	16.2	
008315 Geraldton Airport	21.8		27.5	26.0	26.6	26.4	25.6	19.3	20.6	20.0	21.4	18.4	18.9	20.8	20.1	21.1	21.0	21.0	21.5	22.5	22.7	23.0	25.2	19.4	21.0	21.6	19.9	19.7	17.9	21.6	20.1		
009021 Perth Airport	19.6	+0.8	25.4	24.2	24.1	22.8	24.1	19.0	19.3	17.4	19.1	16.6	17.9	17.9	19.0	16.9	18.3	17.1	17.9	19.1	19.6	20.4	19.8	19.9	17.2	15.6	16.7	14.3					
009131 Jurien Bay	21.1		27.8	26.8	25.8	25.7	25.0	22.7	20.1	19.7	19.1	21.4	18.9	19.4	18.6	19.0	20.2	19.0	18.5	20.5	21.4	21.4	22.6	20.0	19.2	17.9	17.9	17.4					
009225 Perth Metro	19.8		25.5	24.3	23.9	22.8	23.0	22.8	19.4	19.0	17.5	17.4	15.7	18.2	19.7	17.6	18.6	18.1	17.3	18.9	19.7	24.5	21.3	21.0	19.8	21.0	17.5	15.8	16.8	16.0	14.7		
009240 Bickley	16.0		21.9	21.2	20.5	19.8	20.1	19.2	19.8	14.4	13.9	14.3	14.7	12.8	13.7	15.1	13.6	14.8	15.1	13.6	14.8	15.7	15.8	15.9	15.8	15.7	12.8	13.2	11.9				
009518 Cape Leeuwin	18.1	+0.6	21.0	23.5	22.5	21.4	20.5	20.4	16.3	17.2	16.9	17.7	14.7	15.9	17.0	18.0	17.8	17.9	18.1	14.8	17.5	18.5	15.1	21.0	18.1	18.2	17.7	18.5	14.9	17.4	17.6		
009617 Bridgetown	17.0		22.3	23.7	21.4	20.8	21.9	20.5	14.5	15.6	13.9	12.6	14.6	14.5	17.4	17.3	16.9	17.5	14.2	16.0	16.4	13.7	21.0	16.8	16.4	16.8	18.2	12.9	13.2	15.2	16.8		
009746 Witchcliffe	17.2		22.5	21.4	20.5	19.4	18.9	19.2	15.5	16.5	15.7	12.7	15.1	16.7	17.3	17.6	18.1	17.4	14.2	16.5	16.6	14.8	17.9	17.8	17.4	17.1	18.3	13.7	14.7	16.0	16.3		
009789 Esperance	18.2		21.4	21.0	20.1	19.5	21.4	21.9	17.4	19.7	15.9	16.2	16.4	17.6	18.2	16.5	18.4	14.7	16.3	18.5	17.4	17.3	20.0	16.6	18.1	19.6	19.8	19.2	12.6	16.2	19.5		
009965 Bunbury	18.8		24.2	23.3	22.1	22.3	21.4	21.2	17.1	18.6	16.9	16.9	15.6	16.6	17.0	17.5	18.0	18.1	16.1	17.4	17.5	21.7	17.8	19.3	19.1	19.7	20.8	16.5	15.8	18.2	18.6		
009977 Mandurah	18.7		22.1	22.4	23.3	21.7	20.2	20.7	17.2	18.1	18.1	18.2	16.4	17.8	17.1	17.8	18.3	17.6	18.8	17.9	18.0	19.5	20.2	19.8	18.9	18.7	18.6	16.6	14.9	17.3	17.2		
009999 Albany Airport	17.7		20.1	22.7	21.7	20.8	22.1	19.9	17.8	17.2	15.0	15.6	14.7	16.3	15.7	15.1	16.3	15.7	15.0	15.7	15.8	16.0	19.1	16.9	16.9	19.5	19.3	14.3	15.7	17.6			
010007 Perenjori	17.2	0.0	22.0	22.0	20.8	21.9	23.5	20.3	11.9	15.8	14.0	15.5	13.7	13.0	16.8	16.2	15.8	16.9	14.0	16.7	16.2	19.8	23.5	23.5	16.0	16.9	18.4	14.4	16.2	12.1	13.5	14.3	
010092 Merredin	17.4	+0.4	22.5	22.0	21.2	20.6	21.5	21.0	11.5	15.6	15.0	15.7	17.0	14.0	15.4	17.0	16.3	16.3	16.7	16.0	16.0	16.8	18.4	22.8	23.0	14.9	17.0	18.2	15.8	16.6	12.4		
012086 Cunderdin Airfield	18.4		23.5	23.2	21.8	22.4	23.3	21.2	15.9	17.4	17.4	16.0	18.2	16.1	17.1	18.1	18.1	18.8	18.8	15.8	16.4	17.9	17.3	21.2	22.7	15.8	14.0	16.0	14.4	17.0			
010633 Ravesthorpe	17.6	+0.6	23.2	23.3	21.5	21.0	19.5	13.0	13.6	14.5	14.5	17.9	15.0	17.0	16.2	17.5	17.0	13.5	16.0	17.5	16.4	22.0	23.0	16.5	18.5	15.8	16.0	12.5	14.7	17.0			
010911 Lake Grace	16.9		22.2	21.7	20.7	21.2	21.5	19.2	12.9	15.7	14.0	16.8	14.1	15.2	15.5	15.8	16.0	16.8	17.3	16.7	20.6	20.7	21.3	23.6	24.6	28.3	29.1	28.0	32.9	33.4			
010916 Katanning	16.3		21.8	20.3	19.3	19.2	19.1	13.8	13.5	13.7	13.8	13.5	13.7	13.8	13.5	13.6	13.8	13.5	13.6	13.7	13.8	13.5	13.5	13.6	13.7	13.8	13.9	13.5	13.6	13.5	13.6	15.9	
010917 Wandering	17.5		23.2	23.2	21.2	20.6	21.5	20.5	15.9	16.1	13.9	16.4	14.8	15.0	16.5	16.9	17.0	14.7	15.9	16.4	17.2	19.3	20.1	21.7	22.3	19.7	13.2	13.6	14.9	14.4	14.4		
010001 Woomera Aerodrome	17.3	0.0	17.8	16.7	16.1	14.9	15.4	15.8	16.6	17.9	17.5	20.1	24.4	18.3	17.0	17.1</td																	

## Daily and mean maximum temperatures for June 2019

	Mean Anom	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
New South Wales	Mean Anom	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
048027 Cobar MO	17.8	+1.6	16.2	19.1	13.0	11.7	15.8	14.5	20.6	20.9	20.3	23.7	26.3	25.3	18.3	16.9	17.7	16.8	17.3	17.5	13.5	11.9	13.3	14.4	15.9	17.2	17.8	19.7	21.5	22.5	18.8	14.3
048245 Bourke Airport AWS	19.6	18.1	20.0	14.5	16.1	18.4	17.0	20.2	21.4	20.2	25.6	27.4	27.0	23.3	19.9	19.1	18.1	19.5	19.0	15.9	13.9	15.0	15.5	17.4	18.5	19.8	21.3	22.5	22.9	23.5	17.5	
049000 Ivanhoe Aerodrome AWS	17.6	16.0	16.4	14.1	14.2	14.2	15.2	17.5	22.2	19.4	23.5	25.2	23.5	17.7	17.8	18.2	17.5	17.7	16.2	12.9	13.1	13.6	12.6	13.7	16.2	17.5	19.5	20.6	23.5	22.5	15.2	
050052 Condobolin Ag Research Stn	17.1	+1.6	17.6	19.6	9.0	14.0	14.9	14.9	19.2	18.5	18.9	22.5	25.1	23.9	18.0	16.0	16.8	16.7	15.9	16.3	13.2	11.9	11.0	13.3	14.5	17.1	17.9	19.9	21.3	21.3	20.0	13.4
051039 Nyngan Airport		20.0	13.5	15.0	17.5	16.0	21.0				23.5	26.0	24.7	18.3			18.0	17.5	18.0	14.7	13.5				16.0	18.6	19.5	20.5	21.5		22.0	
052088 Walgett Airport AWS	19.7	19.3	19.1	15.3	16.2	18.0	18.3	22.2	18.6	19.1	23.9	26.1	25.5	23.7	20.0	20.0	18.1	18.9	19.0	17.0	15.0	13.6	16.2	18.0	19.7	19.6	22.1	22.8	22.9	19.2		
053115 Moree Aero	20.0	21.7	14.4	15.8	15.8	18.7	20.3	22.1	14.9	17.8	22.9	24.8	24.7	25.9	19.7	21.2	18.7	18.7	20.1	17.8	18.2	14.1	17.7	18.6	19.2	21.7	22.8	23.6	23.1	23.2	23.1	
054038 Narrabri Airport AWS	19.6	20.5	16.8	16.3	16.4	16.9	18.9	21.0	16.5	19.7	22.8	24.5	24.2	23.4	21.4	21.2	18.0	18.2	20.3	17.5	17.4	14.9	15.4	16.9	18.6	18.9	21.1	22.6	22.8	23.0	21.3	
055024 Gunnedah Resource Centre	18.0	+1.3	20.3	18.0	15.3	15.4	15.5	17.7	20.2	14.1	16.9	19.8	21.2	22.7	20.9	21.0	19.3	15.9	16.4	16.8	16.7	13.4	14.2	16.0	17.7	19.9	20.5	21.1	21.2			
055325 Tamworth Airport AWS	18.1	21.0	19.0	14.7	12.3	15.5	17.0	19.5	16.1	18.6	19.2	22.0	21.7	20.8	18.8	19.2	16.3	16.7	17.8	15.3	17.1	12.8	15.1	16.2	17.9	19.6	19.5	21.1	21.6	20.8	19.6	
056242 Inverell (Raglan St)	18.1	22.5	13.9	13.7	11.2	15.4	18.6	21.5	15.2	15.8	19.7	21.9	21.2	21.2	18.8	19.6	18.2	16.6	18.8	16.3	17.6	14.8	16.2	15.3	17.6	18.5	20.7	20.8	20.9	21.1	20.7	
057095 Tabulam (Muirne)	17.3	17.6	14.4	16.2	11.7	16.6	17.6	15.9	13.8	18.3	21.3	21.4	20.7	21.0	19.7	19.3	19.0	18.2	18.1	18.7	17.0	18.3	14.1	15.7	10.7	13.3	16.0	17.3	17.6	17.2	21.2	
058012 Yamba Pilot Station	20.7	+1.2	20.3	22.5	22.3	18.4	19.4	19.9	20.4	17.7	21.3	24.2	23.8	22.8	24.2	22.7	21.3	21.4	20.4	20.5	19.4	19.6	19.7	18.0	18.2	19.6	20.8	19.9	20.9	21.2	20.6	21.7
060139 Port Macquarie Airport AWS	20.0	19.5	20.6	21.5	16.4	16.3	20.7	19.6	15.9	21.4	23.8	24.9	24.2	25.8	20.2	19.9	20.1	21.8	19.2	19.5	17.8	18.1	17.6	16.8	17.3	16.5	20.1	20.7	19.5	23.0		
061078 Williamtown RAAF	18.3	+0.8	14.8	17.6	18.6	12.4	14.0	18.5	18.7	15.6	21.5	21.9	24.0	22.6	26.1	18.7	18.8	16.4	18.5	18.2	17.1	17.5	15.6	14.4	11.8	18.1	19.5	19.9	20.6	20.2	19.3	
061363 Scone Airport AWS	17.9	16.4	17.3	16.6	15.0	15.5	19.1	18.0	14.8	21.2	23.4	23.4	22.8	19.5	17.6	14.2	17.4	16.3	16.3	17.9	13.9	14.3	13.2	16.4	17.3	19.8	18.8	20.9	21.6	19.1	21.1	
062101 Mudgee Airport AWS	16.1	18.1	15.6	11.3	13.6	14.9	17.7	18.1	14.6	18.0	19.5	22.2	21.8	17.5	16.0	15.1	13.1	14.7	12.3	14.1	13.8	14.7	15.1	16.7	18.7	19.1	19.5	14.4				
063005 Bathurst Agricultural Station	13.9	+1.8	16.7	15.0	9.0	10.5	13.7	16.1	16.0	13.0	16.0	15.7	19.2	18.6	13.2	13.3	13.3	10.3	11.9	9.8	11.4	11.6	9.4	12.8	12.6	14.7	13.9	15.3	17.8	17.8	17.2	10.7
063254 Orange Agricultural Institute	13.8	6.0	8.9	10.0	14.3						14.4	17.0	15.8	11.4										9.9	9.8	11.0	11.7	13.1	14.5			14.9
064008 Coonabarabran (Showgrounds)	16.8	+0.8	19.2	17.8	12.9	13.8	14.6	16.8	18.9	15.1	18.1	18.5	22.8	21.0	19.5	19.1	16.4	14.2	15.2	15.0	15.0	11.0	15.0	14.5	15.8	16.5	18.0	19.3	21.2	19.6	16.5	
065070 Dubbo Airport AWS	17.9	20.1	17.0	13.2	15.7	16.2	17.2	20.5	16.0	18.7	21.4	24.1	23.3	18.5	15.9	17.6	14.4	18.2	17.7	15.0	14.9	12.2	14.4	15.8	19.0	19.6	20.3	20.5	21.9	21.1	15.1	
066062 Sydney (Observatory Hill)	18.5	+0.8	20.4	20.8	17.6	14.1	15.2	19.6	14.9	18.2	22.2	22.0	23.3	22.0	22.7	19.1	20.4	15.3	15.6	18.7	17.3	16.5	15.9	16.8	18.0	16.9	18.7	20.1	20.5	20.8	18.0	
067105 Richmond RAAF	18.5	20.1	19.0	18.5	16.1	16.4	18.4	17.4	13.4	21.0	23.2	23.4	23.8	22.7	19.6	19.2	14.9	18.1	18.6	16.7	15.0	14.9	15.9	16.3	17.6	18.7	19.3	20.2	21.3	18.2		
068072 Nowra RAN Station AWS	17.5	18.7	19.5	17.7	12.0	15.0	18.0	15.2	21.7	21.4	22.0	24.1	21.2	18.0	18.2	15.6	16.3	17.5	15.1	14.4	14.7	12.0	14.2	16.7	18.1	18.4	20.0	21.5	15.4			
068151 Jervis Bay (Point Perpendicular)	17.0	17.3	18.2	15.9	15.1	15.4	17.5	18.2	16.6	20.7	20.2	19.9	23.2	20.1	17.8	16.7	16.0	15.2	16.9	14.1	13.7	13.3	13.9	15.2	15.7	16.5	17.7	16.8	19.2	19.1	14.8	
068241 Albion Park (Wollongong Airport)	18.3	19.5	20.5	18.1	12.9	14.8	18.5	19.5	17.9	21.0	22.5	23.4	23.7	22.7	19.2	19.5	15.0	17.0	18.9	15.9	15.0	15.0	15.0	15.1	16.3	17.7	18.2	20.1	20.7	16.7		
069018 Moruya Heads Pilot Station	17.5	+0.9	19.5	17.9	17.5	14.0	16.7	18.2	17.3	14.9	19.9	21.2	22.1	20.7	18.4	17.4	17.5	14.3	17.3	15.5	14.2	15.0	15.5	15.7	16.2	17.5	17.3	17.0	19.0	20.1	17.9	
070351 Canberra Airport	14.1	15.2	15.7	11.4	11.4	12.3	14.6	17.0	11.2	16.0	14.5	16.3	17.4	16.5	14.5	13.7	13.2	15.6	13.7	11.9	11.0	11.4	11.5	10.8	13.6	15.9	15.0	16.7	16.6	11.3		
071041 Thredbo Village	9.0	8.0	4.4								8.0	9.0	7.0			11.2	6.0		6.0	6.1	5.0	2.5	1.8	3.0	3.5	5.8	8.5	8.5	14.0	9.5	10.0	2.0
072150 Wagga Wagga AMO	14.4	+0.8	15.9	16.2	11.1	13.4	13.9	13.1	16.2	18.2	16.3	17.2	16.0	17.7	14.9	15.0	14.9	15.3	14.4	13.7	8.8	8.2	9.0	12.1	13.5	15.4	15.7	16.5	18.6	17.1	11.5	
072160 Albury Airport AWS	14.1	16.5	16.6	11.8	14.5	13.0	15.1	15.4	11.7	14.7	16.4	15.5	17.4	15.7	14.7	14.6	15.4	14.5	14.1	10.1	10.2	10.2	12.0	13.4	14.1	15.4	15.2	16.7	17.2	11.8		
072161 Cabramurra SMHEA AWS	6.1	7.5	5.6	1.4	1.7	6.2	9.1	10.9	5.8	7.3	6.3	10.8	8.7	4.9	4.2	5.6	6.5	7.8	4.6	2.5	2.6	2.9	3.8	2.6	6.6	8.9	9.7	9.6	9.1	7.0	3.1	
074258 Deniliquin Airport AWS	15.7	16.5	13.9	11.8	13.2	13.5	16.2	16.5	18.7	18.4	19.3	18.7	17.7	15.8	16.7	15.7	13.8	13.2	12.0	11.6	11.6	11.0	11.6	11.1	12.0	12.8	15.5	16.4	17.1	17.5	13.6	
Tasmania	Mean Anom	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
091126 Devonport Airport	13.6	14.9	10.9	12.5	12.0	13.7	16.9	14.8	12.3	14.3	15.6	14.6	14.4	14.6	13.7	13.3	13.8	12.8	12.5	12.3	13.6	13.2	11.3	11.1	13.4	14.1	13.8	15.6	14.5	13.4		
091293 Head	13.3	15.0	11.5	11.5	12.2	13.3	15.6	12.4	12.8	14.8	1																					

## Daily and mean minimum temperatures for June 2019

*Mean* is the average of the daily minimum temperature for June 2019; it only shows if there are sufficient days available. *Anom* is the difference between the mean daily minimum temperature for June 2019 and the long-term average minimum temperature for June. Anomalies are only shown if there are sufficient years of climate record available. The **lowest** and **highest** minimum temperature for each site for June 2019 is highlighted. Not all observations are shown here. Data from many more sites and for other times are available at [www.bom.gov.au/climate/data/](http://www.bom.gov.au/climate/data/).

## Daily and mean minimum temperatures for June 2019

		Mean Anom	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
New South Wales		Mean Anom	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
048027 Cobar MO		5.8	-0.1	5.4	3.8	5.6	6.3	0.7	-0.2	1.8	9.5	11.7	13.0	12.4	12.7	13.8	7.1	4.5	4.5	4.8	3.4	2.8	-1.2	-0.8	0.0	-0.7	1.5	7.4	6.5	8.1	10.3	13.6	5.1			
048245 Bourke Airport AWS		5.4	3.7	2.5	5.8	7.9	1.8	3.0	1.1	7.3	8.8	12.1	8.8	9.4	14.3	9.3	2.6	4.9	3.9	0.0	2.3	0.4	-3.4	-3.0	2.4	3.9	7.5	5.8	9.0	10.4	12.4	5.6				
049000 Ivanhoe Aerodrome AWS		6.1	8.0	4.0	6.1	5.1	2.0	1.3	2.0	5.5	10.7	12.3	6.3	10.1	12.7	7.1	7.7	6.3	3.6	7.1	1.6	0.3	1.2			4.0	5.9	9.7	14.1	4.4						
050052 Condobolin Ag Research Stn		4.0	+0.7	5.6	3.2	7.0	5.2	0.9	0.3	4.7	5.9	12.1	7.4	10.6	13.5	4.1	1.9	1.9	3.7	2.0	1.6	-3.1	-0.3	-2.4	-2.4	1.7	3.5	2.3	2.9	8.4	8.5	5.4				
051039 Nyngan Airport						6.0	7.0	5.5	2.8	4.0	9.5		8.0	9.5	16.2	6.5		4.0	3.3	3.9	0.0	1.8				12	7.5	7.0	7.4	7.0						
052088 Walgett Airport AWS		4.8	3.4	7.3	7.3	6.6	4.6	3.4	-0.4	9.7	12.1	5.7	6.5	7.2	12.4	8.8	3.5	3.9	3.8	2.9	2.5	-1.3	-0.6	-1.6	-0.9	2.5	1.6	2.9	7.0	6.9	7.9	9.3				
053115 Moree Aero		5.5	0.9	9.5	9.1	5.6	2.3	2.2	12.3	11.0	8.3	9.2	9.4	11.5	11.6	8.3	3.2	1.5	2.6	2.5	-0.6	-2.0	-3.8	0.8	2.7	5.8	6.6	6.9	7.2	7.7	11.7					
054038 Narrabri Airport AWS		5.8	2.6	9.7	9.0	6.3	2.6	2.5	5.5	10.8	11.8	5.4	7.6	5.3	14.0	10.8	5.3	3.5	0.2	2.6	1.3	-0.2	-4.6	0.8	5.4	6.2	5.8	8.9	8.3	8.2	7.0	12.5				
055024 Gunnedah Resource Centre		6.1	+0.2	1.3	7.7	9.9	5.1	7.0	3.9	5.2	11.3	10.4	7.3	7.4	11.1	3.9	3.7	5.0	5.0	9.4	3.6	1.6	0.6	-1.0	4.5	7.9	7.2	8.2	9.6	6.2	8.1					
055325 Tamworth Airport AWS		3.7	-0.9	7.5	10.0	5.2	5.1	0.5	2.8	8.3	8.7	3.5	5.1	4.3	6.7	4.8	3.3	2.8	4.7	5.6	-0.5	-3.2	-3.7	0.6	2.8	1.8	2.7	4.2	4.1	5.7	7.7					
056242 Inverell (Raglan St)		4.1	-0.5			5.0	4.6	3.1	2.6			5.2	5.9	5.2	8.6	9.5	8.6	5.2	2.1	4.0	2.4	1.8	-0.5	-1.1	0.5	3.1	4.3	5.6	5.4	4.4	4.1	6.3				
057095 Tabulam (Muirme)		9.2	7.7	10.8	10.2	4.8	4.5	6.7	8.0	10.7	10.1	10.7	11.7	12.2	10.3	12.8	14.1	13.2	8.4	6.9	8.3	8.8	8.0	4.3	6.7	6.5	8.8	10.1	10.9	10.7	10.5	9.3				
058012 Yamba Pilot Station		12.0	+1.2	7.8	13.0	12.1	8.3	10.7	9.4	11.1	13.4	14.3	12.2	12.8	12.3	14.1	15.4	15.5	15.4	12.2	10.7	12.0	10.6	11.2	7.1	7.8	10.7	11.8	14.3	13.7	15.2	13.6	12.1			
060139 Port Macquarie Airport AWS		8.5	3.8	12.0	9.1	2.3	11.3	8.4	8.2	12.2	12.2	6.3	7.8	7.7	9.1	7.1	6.7	9.8	8.9	12.1	7.8	8.1	5.2	4.7	5.7	9.9	10.2	9.7	11.8	9.9	8.7	7.7				
061078 Williamtown RAAF		8.4	+0.6	8.1	11.4	10.5	7.0	8.3	7.4	9.3	8.9	11.5	6.9	7.8	6.7	12.0	9.4	4.9	5.7	9.5	11.9	8.4	4.8	6.1	4.4	7.3	8.3	10.1	10.5	7.9	7.5	6.8	11.9			
061363 Scone Airport AWS		4.3	0.1	6.9	9.8	6.3	8.5	0.3	1.4	6.1	6.5	3.9	6.5	4.3	8.8	3.6	-0.3	0.4	5.9	10.8	1.5	-2.8	-0.7	0.7	-3.2	-5.8	-8.8	-6.6	-4.9	1.2	4.0	8.9	3.6	0.2	1.8	5.0
062101 Mudgee Airport AWS		0.6	-1.9	1.4	7.1	3.3	0.1	-4.6	-1.6	5.5	3.1	1.5	3.5	1.2	6.9	0.4	-3.4	-2.8	-0.2	0.7	-3.2	-5.8	-8.8	-6.6	-4.9	1.2	4.0	8.9	3.6	0.2	1.8	5.0				
063005 Bathurst Agricultural Station		0.9	-0.2	1.2	-0.5	3.9	2.3	2.2	-4.1	-1.7	5.5	2.0	3.7	6.5	1.5	5.4	-11	-2.0	1.0	5.0	1.0	-1.6	-4.5	-2.5	-5.3	-4.5	1.8	1.6	6.0	2.8	-1.9	0.0	2.2			
063254 Orange Agricultural Institute						0.3	0.7	1.4	-3.5	1.5			5.6	5.8	8.9	1.9		0.8	2.0	1.4	-1.3	-1.6	2.3	2.9	3.9	4.4	4.0									
064008 Coonabarabran (Showgrounds)		1.5	-0.3	-1.0	5.0	6.0	4.7	5.1	-1.3	-1.0	6.6	4.2	2.5	3.5	2.4	6.0	4.0	-0.5	-1.3	-0.5	2.5	-1.5	-5.5	0.5	-6.0	-2.5	2.4	-1.0	0.8	1.2	1.0	0.6	7.0			
065070 Dubbo Airport AWS		3.9	-1.4	6.8	7.5	5.7	1.8	-14	2.5	8.9	5.0	6.1	7.5	7.4	12.3	5.9	2.1	3.6	0.4	4.6	-1.7	-0.6	-4.6	-3.4	1.1	3.5	3.0	4.6	6.9	8.0	8.3	5.4				
066062 Sydney (Observatory Hill)		10.0	+0.4	10.0	10.7	12.5	7.5	9.3	7.5	9.5	11.2	11.1	11.9	12.1	11.1	12.6	10.2	9.0	11.6	11.2	11.1	9.1	6.1	7.5	6.8	7.1	9.4	11.1	11.9	10.6	11.6	9.6	10.4			
067105 Richmond RAAF		5.4	3.8	3.4	7.2	2.4	9.8	0.7	3.7	9.1	6.5	4.8	5.4	5.3	9.2	2.7	2.2	8.0	10.6	8.7	2.8	0.7	0.6	-0.5	0.8	9.1	8.6	11.0	6.8	5.1	6.8					
068072 Nowra RAN Station AWS		7.2	7.2	7.5	8.3	7.7	8.8	3.4	7.7	7.8	9.2	8.9	6.0	7.0	10.3	9.0	5.9	11.0	10.5	9.5	4.7	3.2	3.5	3.7	3.0	8.2	8.4	7.2	7.5	7.3	5.0	7.6				
068151 Jervis Bay (Point Perpendicular)		11.4	12.1	14.0	12.1	9.6	9.9	8.7	11.3	12.9	14.0	13.2	13.2	12.8	17.1	10.9	9.7	11.2	12.2	12.1	10.4	9.4	8.5	9.3	9.1	9.7	11.7	13.1	11.6	10.6	10.8	10.1				
068241 Albion Park (Wollongong Airport)		7.9	10.3	9.4	6.8	7.5	10.0	7.4	8.6	7.3	9.0	6.4	7.1	7.0	12.3	8.4	8.4	12.4	11.3	7.7	6.4	3.3	4.3	6.5	9.0	10.4	7.8	6.2	8.2	5.8	5.0	6.8				
069018 Moruya Heads Pilot Station		7.7	+0.6	6.1	8.1	7.8	8.9	9.4	4.2	6.5	7.9	8.8	11.3	8.4	7.5	10.2	6.9	7.2	8.6	10.7	9.4	4.5	3.3	3.0	4.5	5.0	9.2	8.8	9.0	8.7	7.7	11.1				
070351 Canberra Airport		-0.1	-0.7	-1.6	2.9	4.4	3.3	-3.9	-1.3	-0.1	0.6	4.5	3.8	0.6	5.8	-2.2	-14	-0.8	1.1	0.5	-2.7	-4.4	-4.9	-1.5	-3.8	-0.8	-2.2	0.4	0.4	-1.1	-1.7	4.3				
071041 Thredbo Village			-2.8	-3.5	0.0	-1.3				0.0	3.3	-1.0			5.5		0.9	1.0	-6.0	-3.3	-4.5	-9.5	-7.7	-3.7	-3.0	-4.2	-7.1	-7.0	-6.0	-3.5	0.2					
072150 Wagga Wagga AMO		2.8	-0.4	0.6	2.2	6.0	4.0	-0.9	-1.2	1.0	3.9	5.3	8.9	7.7	7.6	11.9	4.0	3.4	1.9	-0.4	-0.1	-0.5	-2.2	-0.1	-3.1	-3.6	-0.8	-0.1	2.9	3.3	5.1	4.6	6.1			
072160 Albury Airport AWS		2.1	2.5	2.0	5.5	0.6	-1.5	-1.4	-0.2	1.9	1.8	7.3	4.3	4.9	9.0	7.7	6.5	4.3	19	1.1	-1.3	-1.1	1.0	0.2	-1.9	-2.3	-1.2	-0.8	-0.4	0.3	4.2	6.6				
072161 Cabramurra SMHEA AWS		0.5	-0.3	1.7	-0.4	-1.8	-2.5	-1.0	3.1	3.6	2.8	4.7	2.0	5.0	4.6	0.9	2.0	0.9	-0.4	1.6	-30	-3.5	-4.7	-3.3	-2.6	-2.0	-0.4	1.2	2.4	2.1	4.4	-1.1				
074258 Deniliquin Airport AWS		3.5	6.3	2.1	6.5	3.1	1.3	2.3	1.6	4.8	3.1	8.0	2.9	7.7	7.9	6.1	23	5.5	-0.3	1.0	-0.1	0.2	-1.4	-2.1	2.4	2.2	4.0	5.0	8.6	4.7						
Tasmania		Mean Anom	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
091126 Devonport Airport		4.0	2.1	1.7	6.0	0.7	0.2	2.6	1.8	0.0	3.4	7.8	11.2	8.2	6.2	5.1	2.8	3.7	51	1.1	4.1	4.2	0.2	0.9	3	1.1	0.6	2.4	4.1	5.0	5.1	10.1	9.5			
091293 Low Head		6.4	6.8	6.5	7.2	4.5	3.0	3.4	5.8	3.4	4.9	10.1	12.7	9.9	11.2	10.7	10.2	59	5.5	6.5	7.8	6.2	3.5	1.7	3.2	3.0	2.6	3.2	6.0	6.8	6.5	7.6	10.4			
091311 Launceston Airport		1.5	0.4	-1.1	4.8	1.0	-2.9	1.7	-1.3	0.2	2.2	6.3	6.4	6.6	4.4	2.4	1.0	1.6	1.2	5.4	1.9	-2.2	-2.3	-2.5	-3.5	-4.6	-23	1.8	1.2	3.3	8.3	6.8				
092045 Larapuna (Eddystone Point)		7.6	-0.3	7.6	7.7	9.0	7.2	4.5	8.0	6.8	7.5	9.0	11.3	11.6	11.2	9.0	8.0	6.9	7.2	7.4	11.0	5.														

## Daily and total rainfall for June 2019

	Total	Avg	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30																	
Western Australia																																																	
001019 Kalumburu	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.																	
002056 Kununurra Aero	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.																	
003003 Broome Airport	.	16	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.																	
003032 Derby Aero	.	6.7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.																	
004032 Port Hedland Airport	6.0	20	.	.	.	.	.	.	.	4.6	.	.	.	.	.	.	.	.	.	.	.	.	1.2	.	.	.	.	.	.	.	0.2	.																	
004083 Karratha Aero	23.6	.	.	.	.	.	.	.	.	3.4	.	1.2	.	.	.	.	.	.	.	.	.	10.4	8.6	.	.	.	.	.	.	.	.	.																	
004106 Marble Bar	2.8	.	.	.	.	.	.	.	.	1.2	0.2	.	.	.	.	.	.	.	.	.	.	1.4	.	.	.	.	.	.	.	.	.	.																	
005007 Learmonth Airport	63.6	41	.	.	.	.	.	.	33.6	0.4	.	2.0	0.2	.	.	.	.	.	.	.	.	21.8	5.2	0.2	.	.	0.2	.	.	.	.	.																	
006011 Carnarvon Airport	73.0	47	.	.	.	.	.	.	19.6	4.0	1.0	.	4.8	.	0.2	.	.	.	.	.	.	34.6	2.4	.	.	3.4	3.0	.	.	.	.	.	.																
006044 Denham	79.8	49	.	.	.	.	.	.	40.0	14.0	6.4	.	4.2	.	.	.	.	.	.	.	.	7.2	3.0	.	1.2	3.4	0.4	.	.	.	.	.	.																
007176 Newman Aero	17.8	.	.	.	.	.	.	.	.	1.8	.	.	.	.	.	.	.	.	.	.	12.0	4.0	.	.	.	.	.	.	.	.	.	.																	
007185 Paraburdoo Aero	4.0	.	.	.	.	.	.	.	2.4	.	1.0	.	.	.	.	.	.	.	.	.	0.4	0.2	.	.	.	.	.	.	.	.	.	.																	
007045 Meekatharra Airport	31.4	36	.	.	.	.	.	.	15.0	3.0	.	7.2	0.6	.	.	.	.	.	.	.	.	0.6	4.2	.	0.2	0.2	0.4	.	.	.	.	.	.																
007600 Mount Magnet Aero	48.8	.	.	.	.	.	.	.	8.0	0.6	.	4.2	0.2	0.2	.	.	.	.	.	.	13.0	9.2	0.2	0.2	8.4	4.6	.	.	.	.	.	.																	
008296 Morawa Airport	109.2	.	.	.	.	.	.	.	13.6	12.0	12.6	2.4	12.0	2.4	0.2	.	0.2	.	0.2	.	.	3.2	14.0	.	0.4	30.4	5.4	.	0.2	.	.	.	.	.															
008297 Dalwallinu	83.0	.	.	.	.	.	.	.	15.2	2.4	11.6	2.0	8.2	3.8	0.2	0.2	1.8	0.2	0.2	.	.	7.6	13.0	.	15.4	1.2	.	.	.	.	.	.	.	.															
008315 Geraldton Airport	148.2	.	.	.	.	.	.	.	27.6	4.4	17.2	2.6	17.8	9.0	.	0.2	0.2	.	.	.	34.4	15.8	.	2.4	13.0	3.6	.	.	.	.	.	.	.	.															
009021 Perth Airport	166.2	168	.	.	.	.	.	.	27.0	7.2	17.6	9.6	15.8	8.8	1.6	2.4	2.2	.	0.2	.	1.0	41.0	2.4	.	1.8	17.8	9.0	.	0.8	.	.	.	.	.															
009131 Jurien Bay	140.0	.	.	.	.	.	.	.	29.0	2.2	17.6	2.4	11.4	7.6	2.0	8.0	4.4	0.4	0.8	0.2	.	1.8	» 24.0	.	4.4	17.6	6.2	.	.	.	.	.	.	.	.														
009225 Perth Metro	212.0	.	.	.	.	.	.	.	28.4	6.2	17.2	19.8	17.6	17.6	1.0	1.2	8.8	.	0.8	.	.	0.6	58.0	2.6	0.2	1.0	20.6	10.0	.	0.4	.	.	.	.	.	.	.	.											
009240 Bickley	330.4	.	.	.	.	.	.	.	45.8	14.4	34.2	35.6	42.0	8.4	1.2	5.4	5.2	.	0.2	0.2	.	.	1.6	59.6	7.2	.	3.8	40.2	23.0	.	2.4	.	.	.	.	.	.	.	.										
009518 Cape Leeuwin	211.4	188	.	0.2	.	.	.	.	43.6	8.2	24.2	12.8	10.0	5.2	6.0	0.2	1.4	0.6	1.6	.	0.2	.	7.0	43.2	4.0	1.6	9.6	22.4	7.6	.	1.8	.	.	.	.	.	.	.	.										
009617 Bridgetown	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.6	3.6	.	0.2	.	7.2	30.4	9.0	.	1.6	13.8	13.0	.	2.8	.	.	.	.	.	.	.	.									
009746 Witchcliffe	274.0	.	.	.	.	.	.	.	81.6	10.2	23.6	20.6	18.2	9.6	11.8	6.2	4.4	2.6	7.2	.	0.2	.	5.2	30.2	14.0	1.0	3.8	8.2	11.2	.	4.2	.	.	.	.	.	.	.	.	.									
009789 Esperance	69.4	.	.	.	.	.	.	.	0.6	4.2	0.2	.	0.4	1.2	0.2	4.2	5.0	.	.	.	5.0	21.4	0.2	.	3.4	4.8	18.6	.	.	.	.	.	.	.	.	.	.												
009965 Bunbury	182.0	.	.	.	.	.	.	.	32.4	4.2	20.2	5.2	15.2	0.6	2.6	2.4	0.6	3.0	1.6	0.2	.	15.8	44.8	11.8	0.6	0.8	6.0	5.8	.	8.2	.	.	.	.	.	.	.	.	.										
009977 Mandurah	161.2	.	.	.	.	.	.	.	26.4	2.4	11.0	5.0	16.6	17.2	0.6	8.4	7.2	0.4	5.2	.	4.2	31.4	1.0	0.4	3.0	9.0	9.6	5.2	0.2	2.0	.	.	.	.	.	.	.	.	.										
009999 Albany Airport	76.6	0.4	.	0.2	.	.	.	.	3.0	4.2	15.2	1.8	7.2	14.8	.	0.2	3.6	2.0	3.6	.	.	5.6	1.0	0.4	.	0.6	12.4	0.4	.	.	.	.	.	.	.	.	.	.											
010007 Bencubbin	65.0	61	.	.	.	.	.	.	7.4	3.8	6.8	0.8	9.0	1.0	0.1	0.2	0.4	.	0.2	.	.	7.4	14.8	.	0.1	8.6	4.2	0.2	.	.	.	.	.	.	.	.	.												
010092 Merredin	68.0	55	.	.	.	.	.	.	9.4	2.2	10.0	0.4	12.2	1.2	.	0.2	1.2	.	.	.	.	9.4	9.4	.	0.4	7.0	5.0	.	.	.	.	.	.	.	.	.	.												
010286 Cunderdin Airfield	67.6	.	.	.	.	.	.	.	8.6	1.2	10.8	0.8	15.0	0.4	.	0.2	0.6	.	0.2	.	.	5.8	34	.	.	10.6	10.0	.	.	.	.	.	.	.	.	.	.												
010633 Ravensthorpe	26.3	48	.	.	.	.	.	.	1.8	1.4	1.2	.	3.0	0.2	.	0.2	.	0.6	0.1	.	.	3.0	0.7	0.1	.	13.2	0.8	.	.	.	.	.	.	.	.	.													
010911 Lake Grace	46.6	.	.	.	.	.	.	.	5.6	5.8	2.2	0.4	4.4	.	.	0.2	0.2	0.2	0.2	.	.	7.0	2.6	0.2	.	16.2	1.2	.	.	.	.	.	.	.	.	.													
010916 Katanning	83.2	0.2	.	.	.	.	.	.	15.6	8.4	6.6	1.2	4.0	.	0.4	0.4	0.6	.	.	.	27.0	2.0	.	.	7.6	6.6	.	1.2	.	.	.	.	.	.	.	.	.												
010917 Wandering	166.4	.	.	.	.	.	.	.	16.6	8.2	21.6	10.8	22.4	1.2	0.6	3.8	0.2	.	0.4	0.2	.	46.2	0.6	.	24.0	9.0	0.2	0.2	.	.	.	.	.	.	.	.	.												
011003 Eucla	15.0	32	0.2	1.6	.	.	.	.	.	0.2	3.2	.	.	.	.	.	.	.	0.8	.	.	0.4	0.2	0.2	0.2	6.2	1.8	.	.	.	.	.	.	.	.	.	.												
011052 Forrest	7.6	.	.	.	.	.	.	.	.	1.2	1.6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3.8	0.2	.	.	.	.	.	.	.	.	.									
012038 Kalgoorlie-Boulder Airport	41.2	34	.	.	.	.	.	.	15.8	5.0	.	2.6	0.8	.	0.2	0.2	.	.	.	.	5.2	.	0.2	9.8	1.4	.	.	.	.	.	.	.	.	.	.	.													
012071 Salmon Gums Res.Stn.	51.0	44	.	.	.	.	.	.	.	1.2	4.0	.	11.0	.	0.4	.	0.4	.	0.4	.	0.4	0.2	.	30.8	.	0.4	1.8	0.4	.	.	.	.	.	.	.	.	.												
013011 Warburton Airfield	0.6	.	0.2	.	.	.	.	.	.	.	0.4	.	.	.	.	.	.	.	.	.	» 1.8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.											
013012 Wiluna	6.7	26	.	.	.	.	.	.	.	2.5	1.5	0.2	0.6	0.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.										
013017 Giles Meteorological Office	.	17	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.					
Northern Territory	Total	Avg	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30																	
014015 Darwin Airport	17.2	15	.	.	.	.	.	.	.	.	.	15.8	0.8	.	.	0.4	0.2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.								
014198 Jabiru Airport	11.2	.	.	.	.	.	.	.	.	.	10.8	.	.	.	0.4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.							
014932 Tindal RAAF	0.2	12	.	.	.	.	.	.	.	.	.	0.2	.	.	.	0.2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.							
018012 Ceduna AMO	27.6	32	0.8	.	.	.	.	.	.	3.4	.	7.2	1.2	0.2	.	4.6	0.4	3.0	.	2.4	0.2	.	.	2.6	1.6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
018044 Kyancutta	45.7	36	0.3	0.2	.	.	.	.	.	0.2	.	13.7	0.9	2.6	.	6.1	1.2	.	6.2	.	.	2.4	0.1	.	6.6	5.2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
018192 North Shields (Port Lincoln AWS)	49.0	0.8	0.2	0.2	.	.	.	.																																									

## Daily and total rainfall for June 2019

climate record available. Reports of zero precipitation are shown as ". ". When a reading was accumulated over more than one day, " " is shown on the days that are part of the accumulation. Not all observations are shown here. Data from many more sites and for other times are available at [www.bom.gov.au/climate/data/](http://www.bom.gov.au/climate/data/).