



Australian Government
Bureau of Meteorology

Monthly Weather Review Australia December 2020



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.

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/.

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Publishing Unit, Bureau of Meteorology, GPO Box 1289, Melbourne VIC 3001

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Cover photograph

Cloud-to-ground lightning strike, looking over Mackay's Northern Beaches.
Photograph by Daniel Hair, 22 February 2012. Used with permission.

Overview

- Rainfall was very much above average for Australia overall.
- Australia's third-wettest December on record.
- Rainfall was above average in northern and eastern Western Australia, large areas of South Australia, north-eastern New South Wales, northern and western Queensland, and almost all of the Northern Territory.
- Rainfall was below average for parts of south-west Western Australia.
- Mean maximum temperatures for December were warmer than average for the west of Western Australia and for the Queensland east coast.
- Mean maximum temperatures were cooler than average for most of the remainder of Western Australia, and most of the Northern Territory and South Australia.
- Mean minimum temperatures for December were warmer than average for the west of Western Australia, Queensland, the east of the Northern Territory, and northern and east coast New South Wales.
- The mean minimum temperature for December was the highest on record for Queensland as a whole.
- Mean minimum temperatures were cooler than average for much of the Kimberley, and parts of inland south-east Australia.

Areal averages in December 2020

	Rainfall anomaly	Mean maximum temperature anomaly	Mean minimum temperature anomaly	Mean temperature anomaly
Australia	+101% 3rd-highest	-0.45 °C	+0.74 °C	+0.15 °C
Western Australia	+198% 4th-highest	-0.52 °C	+0.20 °C	-0.15 °C
Northern Territory	+159% 3rd-highest	-1.70 °C	+0.76 °C	-0.46 °C
South Australia	+53%	-0.89 °C	+0.14 °C	-0.37 °C
Queensland	+40%	+0.67 °C	+2.00 °C highest	+1.34 °C
New South Wales	+66%	-0.14 °C	+0.69 °C	+0.28 °C
Victoria	-23%	-0.24 °C	-0.09 °C	-0.16 °C
Tasmania	+11%	-0.36 °C	-0.14 °C	-0.24 °C

Extremes in December 2020

	Hottest day	Coldest night	Wettest day	Warmest overall	Coolest overall	Wettest overall	Strongest wind gust
Australia	48.7 °C at Birdsville Airport (Qld) on the 5th	-6.0 °C at Perisher Valley AWS (NSW) on the 11th	456.0 mm at Numinbah (Qld) on the 13th	32.7 °C at Paraburdoo Aero (WA)	6.3 °C at kunanyi (Mount Wellington Pinnacle) (Tas.)	995.4 mm at Numinbah (Qld)	161 km/h at Maatsuyker Island Lighthouse (Tas.) on the 2nd
Western Australia	45.6 °C at Carnarvon Airport on the 21st	1.4 °C at Eyre on the 2nd	191.0 mm at Cygnet Bay on the 21st	32.7 °C at Paraburdoo Aero	16.9 °C at Windy Harbour	695.6 mm at Cygnet Bay	135 km/h at Troughton Island on the 15th
Northern Territory	46.0 °C at Jervois on the 5th	13.7 °C at Jervois on the 24th	188.4 mm at Elizabeth Valley on the 23rd	31.2 °C at Ngukurr Airport	27.1 °C at Alice Springs Airport	619.7 mm at Territory Wildlife Park	100 km/h at Territory Grape Farm on the 6th
South Australia	46.6 °C at Moomba Airport on the 5th	1.1 °C at Keith (Munkora) on the 28th	40.8 mm at Cook on the 12th	29.3 °C at Moomba Airport	15.7 °C at Mount Lofty	85.3 mm at Cook	119 km/h at Mount Crawford AWS on the 5th
Queensland	48.7 °C at Birdsville Airport on the 5th	8.0 °C at Miles Constance Street on the 9th	456.0 mm at Numinbah on the 13th	32.5 °C at Lake Julius AWS	21.2 °C at Applethorpe	995.4 mm at Numinbah	144 km/h at Dalby Airport on the 2nd
New South Wales	48.0 °C at Walgett (Brewon AWS) on the 1st	-6.0 °C at Perisher Valley AWS on the 11th	306.0 mm at Chillingham on the 13th	28.1 °C at Wanaaring (Borrora Downs AWS)	8.8 °C at Thredbo AWS	812.6 mm at Yarras (Mount Seaview)	159 km/h at Montague Island Lighthouse on the 22nd
Victoria	39.8 °C at Swan Hill Aerodrome on the 27th	-1.8 °C at Mount Buller on the 8th	73.6 mm at Mount Baw Baw on the 23rd	22.5 °C at Mildura Airport	9.1 °C at Mount Baw Baw	163.2 mm at Tanybryn	130 km/h at Wilsons Promontory Lighthouse on the 6th
Tasmania	34.9 °C at Bushy Park (Bushy Park Estates) on the 14th	-2.8 °C at Liawenee on the 11th	97.0 mm at Mileara Park on the 22nd	16.1 °C at Friendly Beaches	6.3 °C at kunanyi (Mount Wellington Pinnacle)	320.2 mm at Mount Read	161 km/h at Maatsuyker Island Lighthouse on the 2nd

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.

Queensland

Bushfires

A fire at Fraser Island (K'gari) Eurong had been burning since mid-October and was still burning at the start of December.

By the 2nd part of the fire was located approximately 2.5 kilometres east of Kingfisher Bay Resort and heading in a south-easterly direction. Another part of the fire was located approximately 4 kilometres to the west of Happy Valley and travelling in a southerly direction.

On the eastern side of the island, the fire was located approximately 3 kilometres south of Cathedrals on Fraser and travelling in a southerly direction towards Eli Creek.

The fire was extinguished after widespread showers and storms developed over Fraser Island from the 13th.

Severe thunderstorms

On the 2nd, severe thunderstorms rapidly developed over the Darling Downs from Texas to Dalby and down to Warwick. Moderate falls associated with the storms were reported across the Darling Downs, with heavier falls between Chinchilla and Dalby. At Dalby, an intense and destructive downburst brought a wind gust up to 145 km/h. Severe thunderstorms swept across parts of south-east Queensland on the afternoon of the 7th. Hail up to 5 cm in diameter were reported at Bribie Island (north of Brisbane).

Heatwaves

Heatwaves affected most of Queensland during December. At the start of the month, most of the state was affected by heatwave conditions.

Extreme-intensity heatwave conditions affected southern inland Queensland, and parts of north-east inland New South Wales, while low- to severe-intensity heatwave conditions affected virtually all of the state in the first 9 days of December, before conditions eased for a brief period.

By mid-month, heat began to build over western Queensland, and from the 15th most of the state was in low- to extreme-intensity heatwave conditions, lasting for several days.

The low-intensity heatwave then contracted to the east coast of Queensland, with small areas experiencing severe-intensity heatwave conditions up to the 24th.

Heavy rainfall, flooding, abnormally high tides and dangerous surf

Periods of very heavy rainfall associated with a surface- and upper-level trough affected south-east Queensland and north-eastern New South Wales from the 12th to the 18th. Upper Springbrook Alert (a flood warning network site) in the Gold Coast Hinterland reported more than 1000 mm in the five days from the 13th to the 17th, while areas in the Gold Coast reported between 300 mm and 400 mm from the 12th to the 17th.

Flooding occurred in south-east Queensland for the Logan River. The systems produced an 11 metre maximum wave height at Brisbane Buoy, and 30 to 70 cm storm surges at south-east Queensland storm tide gauges. A storm surge of up to 50 cm coincided with high tides to produce coastal flooding in low-lying areas south of Fraser Island.

Brisbane recorded at least its fourth-highest daily maximum sea level since records began in 1980. Mooloolaba recorded at least its fifth-highest daily maximum sea level since records began in 1987.

One person lost his life in flash flooding at Killarney on the Southern Downs in Queensland, on the evening of the 16th.

New South Wales

Heavy rain in the north-east of New South Wales

A slow-moving low pressure system and trough was near the coast the New South Wales and Queensland border region from the 12th to the 17th.

This brought widespread heavy rainfall, damaging winds, abnormally high tides and dangerous surf to the northern coastal region.

Flash and riverine flooding was reported for the Tweed, Clarence, Richmond/Wilsons and Bellinger rivers.

Damaging storm surges coincided with king tides, resulting in hazardous surf conditions and major coastal erosion at numerous beaches in the north-east, notably at Byron Bay.

Daily totals over 200 mm were recorded at many north-eastern New South Wales sites over the 12th to the 17th, and many sites had their highest December daily rainfall on record.

Five-day totals of over 400 mm were recorded near the Queensland border, the highest such totals in the area since at least April 2017.

ACT

Local thunderstorm activity

Local thunderstorm activity affected the ACT at times during December. The most significant storms were on the 16th, with locally heavy falls and some flash flooding, particularly in the inner city and parts of Tuggeranong. 26.8 mm fell at Parliament House for the 24 hours to 9 am on the 17th.

Victoria

Strong winds, fire and floods

An EF1 tornado (with peak gusts of 138-178 km/h) was reported at Horsham in western Victoria on the 7th; strong winds downed trees, damaged roofs and windows, scattering debris across roads, and cut the power supply to many houses.

A cold front brought light snowfalls to the Victorian Alps on the 8th.

A grass fire threatened Mount Cottrell, Chartwell and Truganina in Melbourne's west on the 14th. The fire grew to 110 hectares in size before it was contained.

Victoria's State Emergency Services received more than 100 calls for help for fallen trees, flooding and building damage caused by damaging winds and heavy rainfall associated with thunderstorms, which developed over parts of southern Victoria on the 22nd.

Fire, floods and severe thunderstorms in Melbourne

A grass fire threatened Mount Cottrell, Chartwell and Truganina in Melbourne's west on the 14th. The fire grew to 110 hectares in size before it was contained.

A line of severe thunderstorms swept across on the 17th, with wind gusts up to 113 km/h in St Kilda, with damage to roofs and sheds during the passage of the storms. Wind gusts up to 117 km/h were reported at Fawkner Beacon, and wind gusts up to 98 km/h were reported at both the Grampians (Mount William) and Wilsons Promontary Lighthouse.

Damaging winds and heavy rainfall associated with thunderstorms, which developed over parts of Greater Melbourne on the 22nd, resulted in flooding, building damage and fallen trees.

Northern Territory

Severe thunderstorms

Thunderstorms on the 6th in the southern parts of the Northern Territory generated a 100 km/h wind gust at Territory Grape Farm.

On the 17th, thunderstorm activity produced heavy rainfall about the north-western Top End, including a 2-hour total of 101 mm at Gunn Point. Heavy rainfall, including 68.6 mm in 1 hour, fell on the 24th at Waruwi on the north coast of the Top End.

Slow-moving thunderstorms generated heavy rainfall across parts of the Daly region on the 26th, with sites including Noonamah (86.4 mm in 1 hour) and Batchelor (85.8 mm in 1 hour) experiencing rainfall rates with an Annual Exceedance Period (AEP) of less than 10% (roughly equivalent to a 1-in-10 year event).

Slow-moving thunderstorms on the 28th generated heavy rainfall across parts of the southern Gregory District, with Cattle Creek recording 70 mm in 1 hour. Rainfall of this intensity has an Annual Exceedance Period (AEP) of less than 10% (roughly equivalent to a 1-in-10 year event).

Monsoon onset at Darwin

The Monsoon onset at Darwin was declared for the 19th, over a week earlier than usual (the average onset date at Darwin is 29 December based on data from 1957 to 2020). A tropical low developed near the monsoon trough over the Kimberley on the 20th, and the monsoon trough extended over the Top End in the Northern Territory. Widespread moderate to heavy falls were recorded in the northern tropics from the 20th to the 23rd.

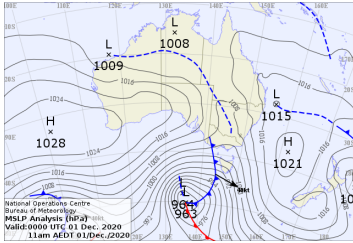
Western Australia

Tropical low

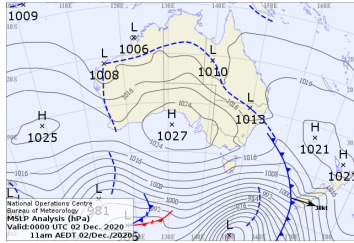
A tropical low (U02) formed in an active monsoon trough to the north of Christmas Island on the 5th then moved south-east towards the north-west Western Australia and crossed the Pilbara coast (west of Port Hedland) on the 11th. The low continued moved south-east across the Great Sandy Desert and the state's far south-east border until the 12th. Daily rainfall in excess of 100 mm to 160 mm was recorded in the Pilbara. Several days of continued heavy rain over the De Grey catchment led to major flooding of the Nullagine, Coongan, Shaw, and the De Grey rivers. Moderate flooding was reported from the Oakerover River.

Synoptic analyses and summary

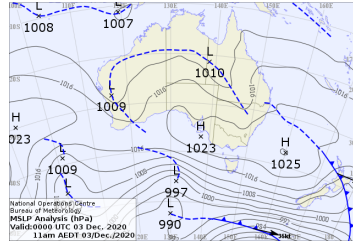
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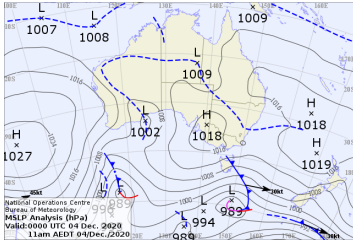
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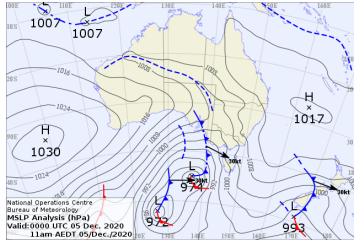
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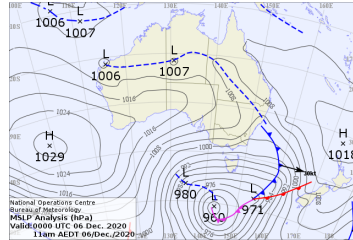
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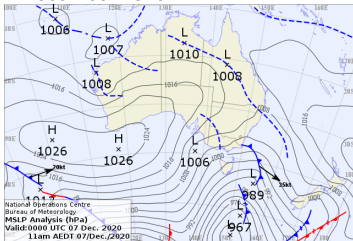
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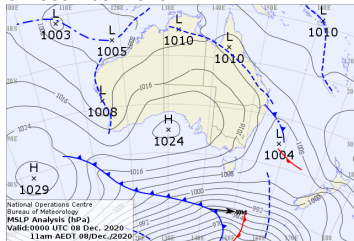
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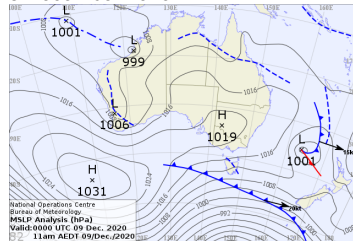
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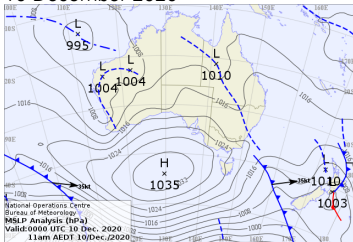
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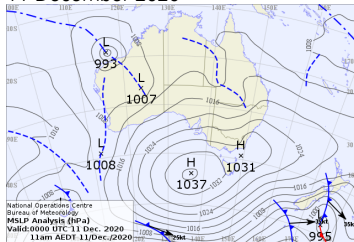
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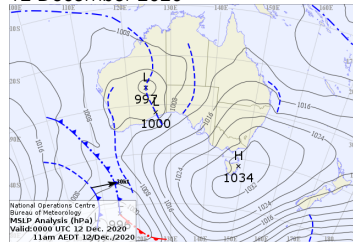
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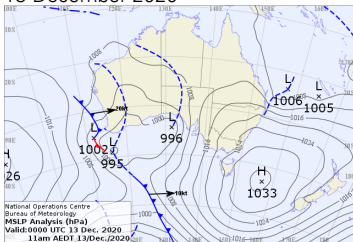
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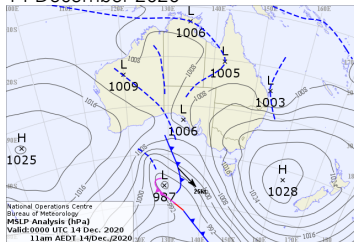
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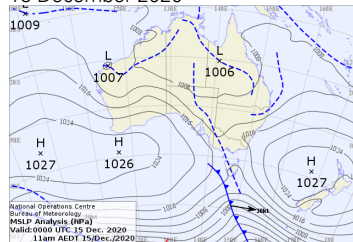
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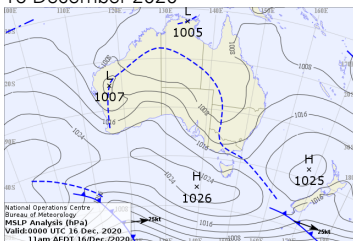
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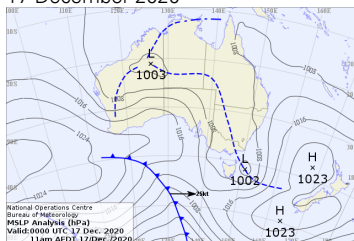
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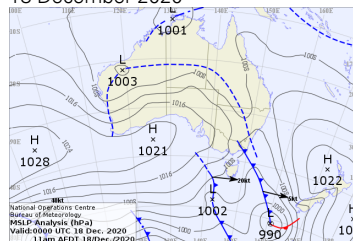
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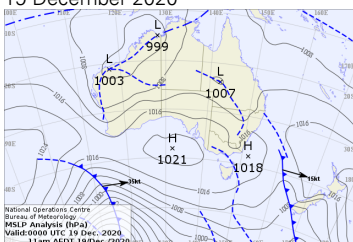
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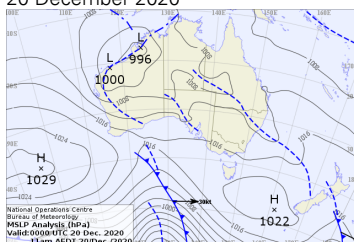
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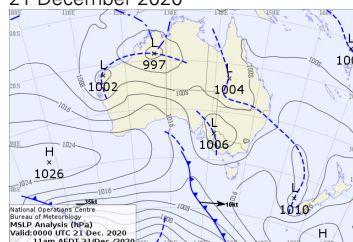
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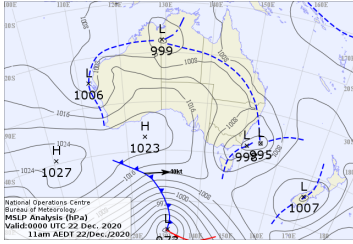
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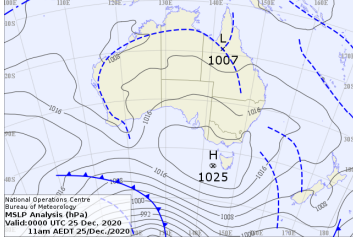
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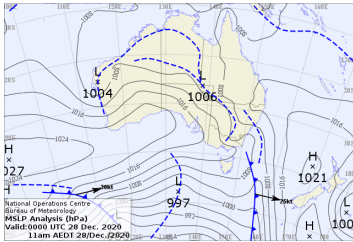
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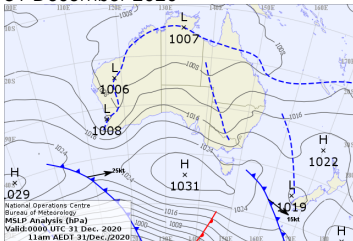
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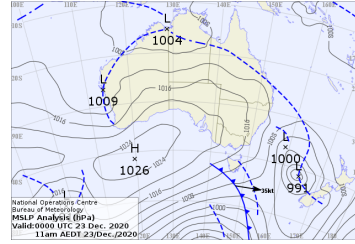
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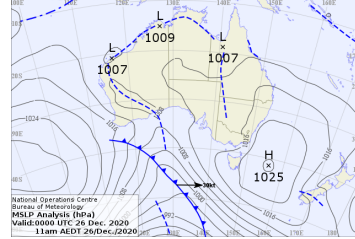
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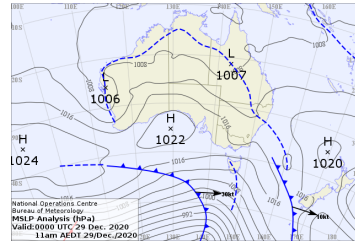
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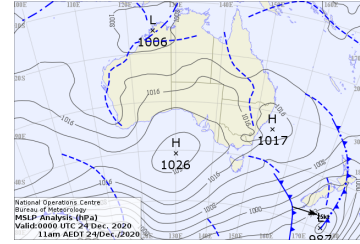
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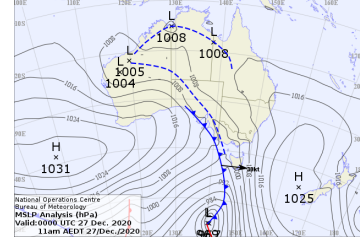
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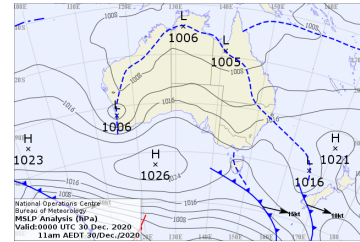
24 December 2020



27 December 2020



30 December 2020



Synoptic summary

At the start of the month, a cold front tracked across Tasmania, while broad surface troughs extended from the Kimberley, through southern parts of the Northern Territory to eastern New South Wales. Surface troughs dominated the continent until the 5th.

On the 5th, a vigorous cold front tracked over south-east Australia, and a trough extended from the Gascoyne in Western Australia to western and southern inland Queensland.

Another cold front tracked across Tasmania, embedded in a strong westerly flow. Surface troughs dominated the west, north and east of the continent until around the 10th. A low pressure system off the north-west coast of Western Australia developed on the monsoon trough then moved south-east towards the north-west Western Australia and crossed the Pilbara coast (west of Port Hedland) on the 11th. The low continued moved south-east across the Great Sandy Desert and the state's far south-east border till the 12th.

Meanwhile, surface troughs extended down the west coast, across northern Australia and from the Gulf Country down through inland Queensland and New South Wales. Around the 12th, a surface- and upper-level trough affected south-east Queensland and north-eastern New South Wales. A low pressure system deepened on the trough, located just off the south-east Queensland coast, and lingered over the area until the 15th. Low pressure troughs dominated much of the continent, before a cold front tracked over Tasmania on the 18th.

In the north, a tropical low developed near the monsoon trough over the Kimberley on 20th December, and the monsoon trough extended over the Top End in the Northern Territory. The monsoon onset at Darwin occurred on the 19th.

Low pressure systems and surface troughs were present over much of northern and eastern Australia, the a cold front tracked over Tasmania around the 23rd. The next extensive cold front and pre-frontal

trough moved over south-east Australia on the 27th and moved off shore the following day.

In the north, low pressure systems and surface troughs were the dominant features until the end of the month.

Temperatures

The national mean temperature for December was 0.15 °C warmer than average for Australia as a whole.

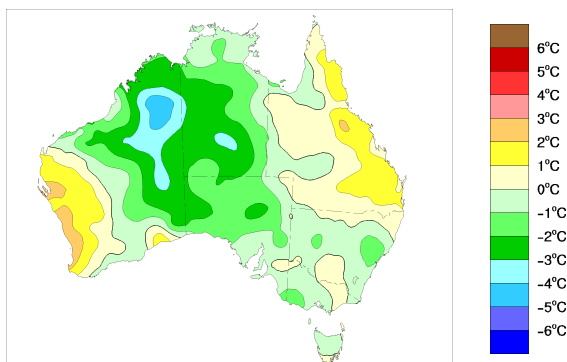
The mean maximum temperature was below average for December at 0.45 °C, and below average for the Northern Territory and all States except Queensland.

The mean minimum temperature was above average for December at +0.74 °C, and highest on record for Queensland (2.00 °C above the long-term average).

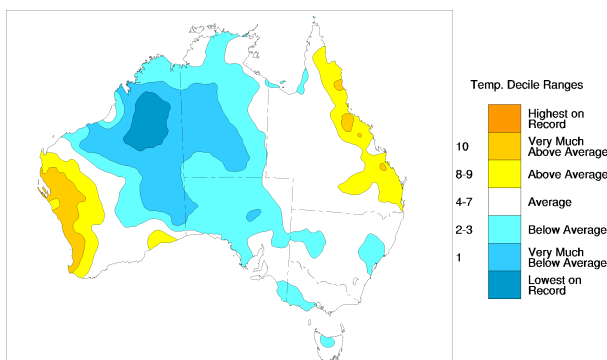
Maximum temperatures

Maximum temperatures for December were below average across large areas of Australia as tropical lows during the middle third of the month brought heavy rain and cooler temperatures stretching from the Pilbara and Kimberley into South Australia.

Anomalies of mean daily maximum temperature in December 2020



Decile rank of mean daily maximum temperature in December 2020



Mean maximum temperatures were below average for the eastern half of Western Australia and part of the Pilbara, most of the Northern Territory except parts of the Top End and north-east, most of South Australia, areas of north-west New South Wales and the coast between the Hunter and Illawarra, south-west Victoria and far south-east South Australia, and Tasmania's north coast. For an area of the inland

north-east of Western Australia, the mean maximum temperature was the lowest on record for December.

The mean maximum temperature for December was warmer than average for the west coast of Western Australia and along the east coast of Queensland.

At the start of the month, the passage of a cold front resulted in below average maximum temperatures behind the trough and cold front, with large parts of southern Western Australia and South Australia reporting maximum temperatures more than 6 °C below average. In contrast, most of eastern Australia reported maximum temperatures well above average, with warm north-westerly winds drawn down ahead a surface trough.

Maximum temperatures were much cooler than usual over southern parts from the 6th, with areas in north-west Western Australia and Central Australia more than 12 °C cooler than usual from the 9th to 11th, due to heavy falls. Maximum temperatures were also cooler than usual over south-east Queensland and north-east New South Wales, due to heavy falls in the area from the 11th to about the 15th.

From the 20th, much cooler than usual maximum temperatures were reported in northern and eastern Western Australia, the Northern Territory and northern parts of South Australia, with the cooler than usual maximum temperatures expanding and extending from northern Western Australia, through most of the Northern Territory and into southern Queensland and northern New South Wales. Maximum temperatures were well below average particularly through Central Australia.

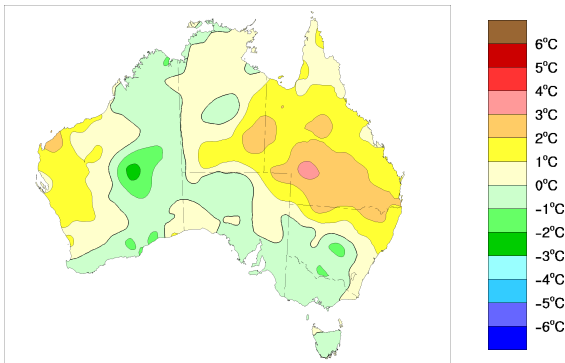
By the 25th, in the south-west, maximum temperatures were more than 12 °C above average with the heat spreading to southern South Australia on the 26th, and further into south-east Australia on the 27th.

Maximum temperatures were generally cooler than usual across most of Australia, apart from the far south-west of Western Australia, until the end of the month.

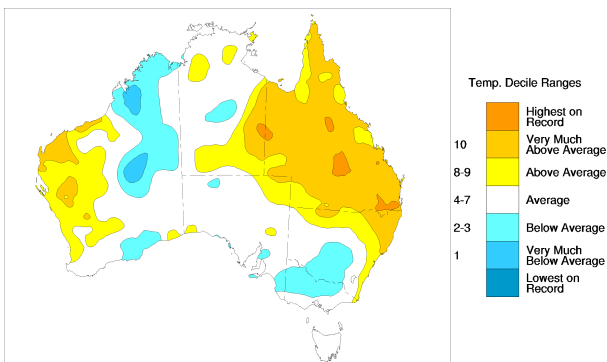
Minimum temperatures

The mean minimum temperature for the month was above or very much above average for Queensland, eastern and southern parts of the Northern Territory, northern and coastal New South Wales, and most of the western half of Western Australia away from the south coast.

Anomalies of mean daily minimum temperature in December 2020



Decile rank of mean daily minimum temperature in December 2020



Mean minimum temperatures were below average for much of the Kimberley and adjacent northern interior of Western Australia, a pocket on the central south coast of Western Australia, and a large area extending from far south-east South Australia through

much of northern and inland Victoria to central southern and inland New South Wales.

At the start of the month, minimum temperatures were well below average over south-west and southern parts of Australia, due to the passage of a cold front. At the same time, minimum temperatures were more than 6 °C warmer than usual over southern Queensland and northern New South Wales, with the warm anomalies extending into Central Australia and northern South Australia by the 5th.

Cooler south to south-west air directed over southern parts of the country from the 6th saw much cooler than usual minimum temperatures across southern and south-eastern Australia. Cooler than usual minimum temperatures were reported over the west of the country from the 10th to around the 15th, with the passage of troughs and a cold front.

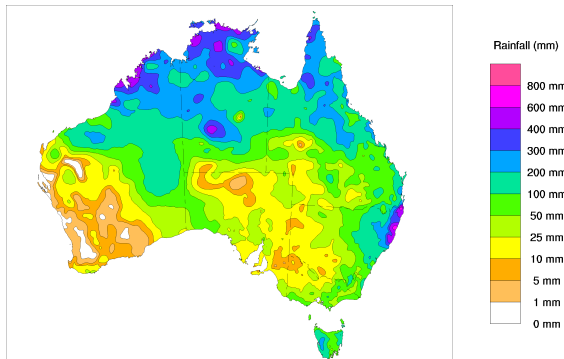
Minimum temperatures were much warmer than usual in eastern South Australia and western Victoria from the 13th to the 15th, with warmer than usual minimum temperatures spreading to eastern from the 16th. Minimum temperatures were persistently above average across most of Queensland until the 24th.

A large swathe of the central third of Australia reported minimum temperatures there were much cooler than usual from the 22nd to the end of the month, with persistent periods of thunderstorms and rain keeping temperatures well below average.

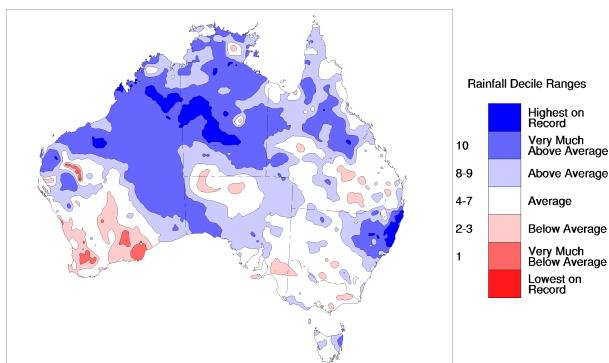
Rainfall

December rainfall was the third highest on record for December for Australia as a whole, and the highest since 2010.

Total rainfall in December 2020



Decile rank of total rainfall in December 2020



Rainfall for the month was above or very much above average across most of Western Australia away from the south-west, the Northern Territory, most of pastoral South Australia, northern and western Queensland, the north-eastern quarter of New South Wales, and north-eastern Tasmania.

Rainfall was below average for parts of the south-western quarter of Western Australia, and scattered small areas in south-east South Australia, eastern Victoria, the New South Wales Riverina, and greater south-east Queensland.

At the start of the month, a cold front tracked over Tasmania and generated moderate falls in the state's west. Thunderstorms and showers developed over northern tropics. Severe thunderstorms formed over the south-east inland of Queensland, with localised moderate to heavy falls reported to 9 am on the 3rd between Dalby and Chinchilla.

Thunderstorms developed over much of north-east New South Wales and southern inland Queensland, and across the Pilbara and Kimberley in Western Australia and the Top End in the Northern Territory, associated with surface troughs and lows.

A cold front tracked across south-east Australia on the 5th, with widespread light to moderate falls reported over south-east South Australia, Victoria, Tasmania and most of New South Wales away from north-west. Thunderstorms also developed over southern parts of the Northern Territory and continued in the Kimberley and Top End.

A low pressure system and active monsoon trough off the Kimberley coast produced heavy falls over the western Kimberley on the 9th and 10th, before the low pressure system moved south-east towards north-west Western Australia and crossed the Pilbara coast (west of Port Hedland) on the 11th. The low continued moved south-east across the Great Sandy Desert and the state's far south-east border until the 12th, generating moderate falls with over northern and eastern parts of Western Australia.

In the east, on the 12th, a slow-moving low pressure system and trough near the southern Queensland coast brought widespread heavy rainfall, damaging winds, abnormally high tides and dangerous surf to the northern half of the New South Wales coast and south-east Queensland during the middle of December. Widespread three-day totals in excess of 300 mm were observed in areas of the Gold Coast Hinterland and the New South Wales Northern Rivers and Mid North Coast districts.

Flash and riverine flooding occurred in Gold Coast hinterland in south-east Queensland, and in the Tweed, Clarence, Richmond/Wilsons and Bellinger rivers in New South Wales. Strong winds contributed to coastal inundation and erosion as damaging storm surges coincided with king tides in north-east New South Wales and south-east Queensland.

The trough and low pressure system lingered off the coast of south-east Queensland until the 15th, and generated very heavy rainfall and large multi-day rainfall accumulations in south-east Queensland, and New South Wales, before weakening. A trough along the east coast of Queensland and inland New South Wales generated moist onshore flow and produced widespread moderate falls in south-eastern Queensland, eastern New South Wales, eastern Victoria and eastern Tasmania on the 17th.

Thunderstorms and showers continued over the northern tropics and generated moderate to heavy falls for several days, then showers and thunderstorms extended further south through Central Australia, South Australia, western Queensland, and then most of New South Wales, Victoria and northern Tasmania by the 22nd.

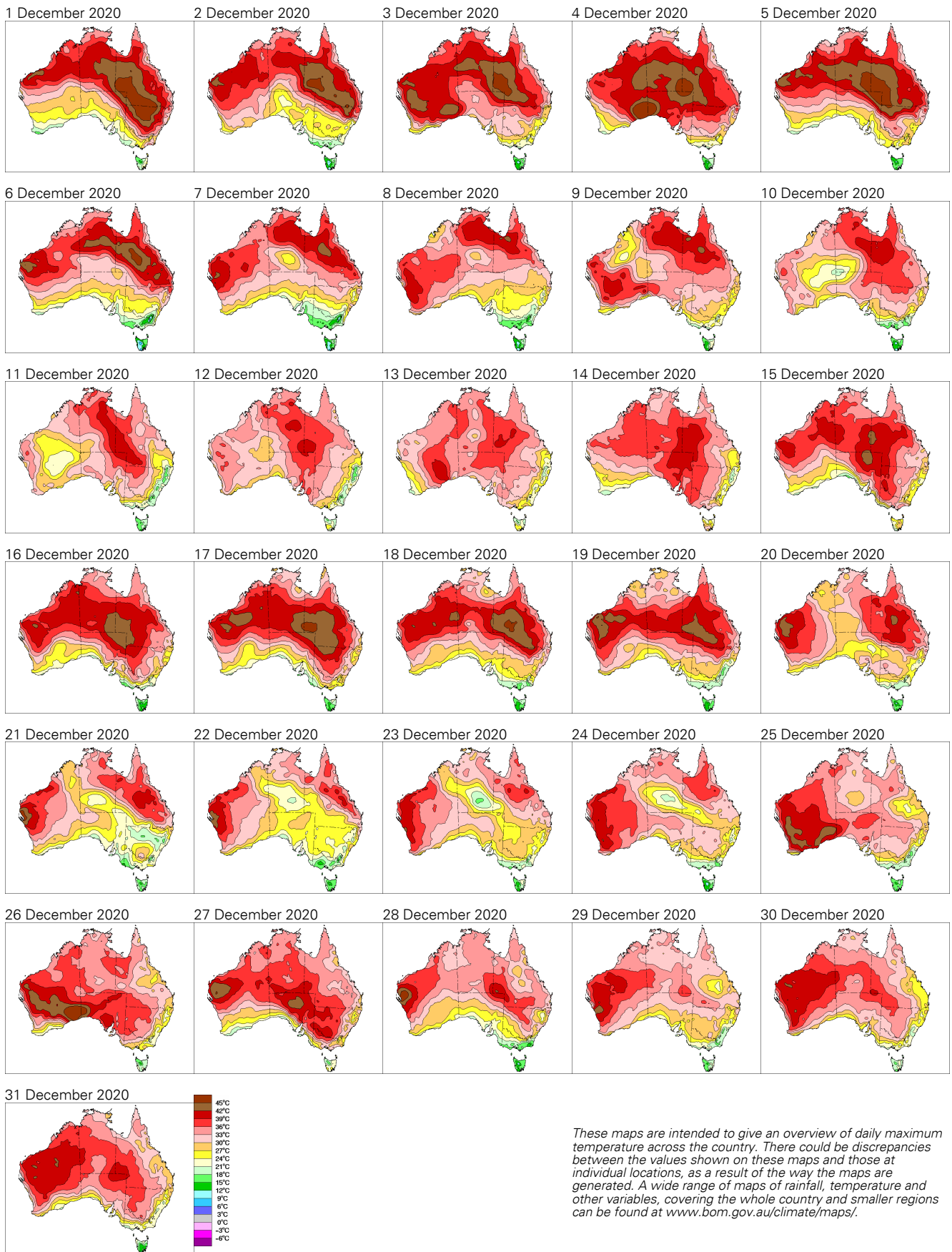
Most of the Northern Territory and northern Queensland reported further moderate falls from the 23rd to the 25th, with showers and thunderstorms contracting to central and northern Queensland by the 26th. Shower and thunderstorms continued over the

northern tropics, and eastern Queensland and New South Wales until the end of the month.

A number of stations observed their wettest December day on record, or their wettest total monthly rainfall on record for December.

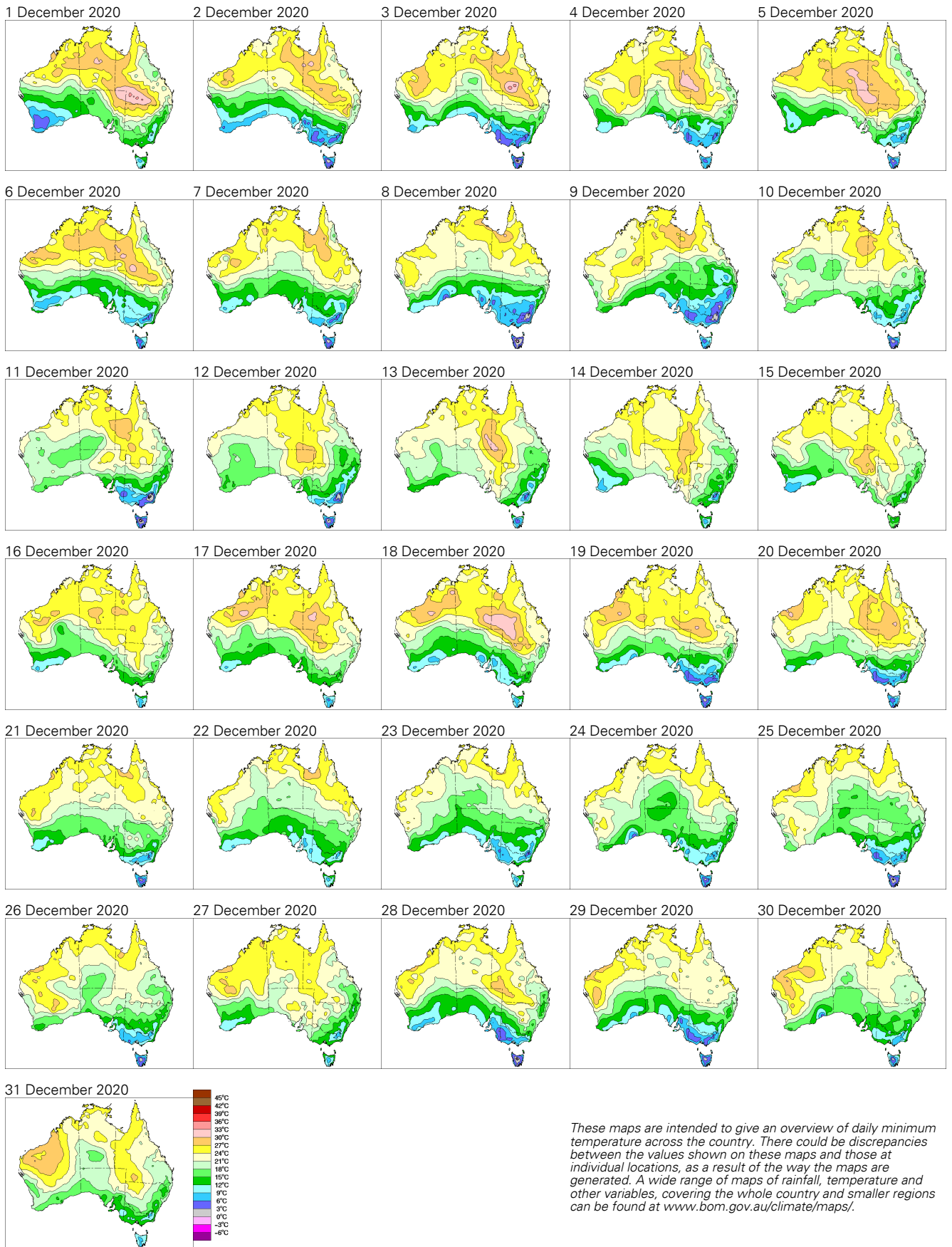
Daily maps

Daily maximum temperature maps



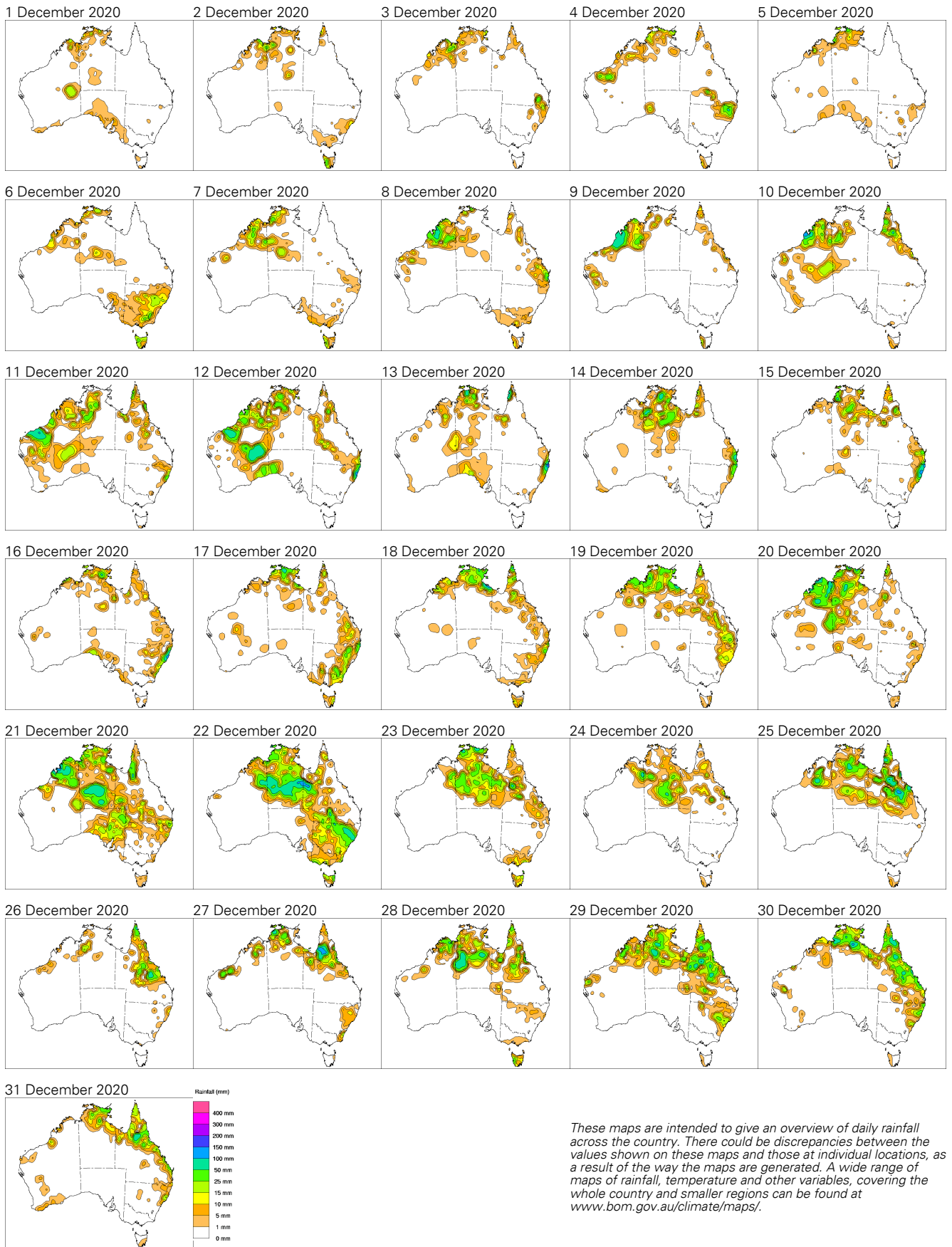
These maps are intended to give an overview of daily maximum temperature across the country. There could be discrepancies between the values shown on these maps and those at individual locations, as a result of the way the maps are generated. A wide range of maps of rainfall, temperature and other variables,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

Daily minimum temperature maps



These maps are intended to give an overview of daily minimum 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/.

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/.

Records

Record highest December daily maximum temperature			
	New record	Old record	Years of record
Western Australia			
006011 Carnarvon Airport	45.6 on 21st	45.4 on 27th in 1976	75
006044 Denham	44.1 on 21st	42.8 on 23rd in 2018	33
009871 Windy Harbour	36.2 on 10th =	36.2 on 27th in 2000	33
Queensland			
040082 University of Queensland Gatton	43.5 on 6th	43.4 on 16th in 2019	55
041100 Texas Post Office	43.5 on 2nd	43.0 on 7th in 1981	51
041175 Applethorpe	37.5 on 2nd	36.8 on 24th in 1972	52
044010 Bollon Mary St	45.7 on 1st =	45.7 on 22nd in 2019	64
044026 Cunnamulla Post Office	46.2 on 1st	46.0 on 7th in 1979	64
New South Wales			
048027 Cobar MO	46.7 on 1st	45.7 on 21st in 2019	59

= indicates the new record equals the old one.

Record lowest December daily maximum temperature			
	New record	Old record	Years of record
Western Australia			
003032 Derby Aero	26.2 on 9th	26.4 on 18th in 2009	35
003057 Cygnet Bay	26.0 on 8th	26.9 on 15th in 1993	35
003080 Curtin Aero	25.2 on 9th	25.4 on 27th in 2017	30
013030 Telfer Aero	24.8 on 9th	25.0 on 17th in 1993	47
Northern Territory			
015602 Jervois	19.1 on 23rd	19.3 on 26th in 2014	53
New South Wales			
048027 Cobar MO	17.8 on 21st	18.4 on 26th in 1968	59

Record lowest December mean maximum temperature			
	New record	Old record	Years of record
Western Australia			
002056 Kununurra Aero	34.9	35.0 in 1998	35
003032 Derby Aero	34.4	34.7 in 1998	35
003080 Curtin Aero	35.2	35.5 in 1998	30

Record lowest December daily minimum temperature			
	New record	Old record	Years of record
Western Australia			
008137 Wongan Hills	6.8 on 1st	7.3 on 2nd in 1998	54
010058 Goomalling	5.5 on 1st	6.6 on 6th in 2007	41
010524 Brookton	3.0 on 1st =	3.0 on 13th in 1984	54
010626 Pingelly	4.5 on 1st =	4.5 on 10th in 1984	49

= indicates the new record equals the old one.

Record lowest December mean minimum temperature				
		New record	Old record	Years of record
Western Australia				
009871	Windy Harbour	11.2 =	11.2 in 2001	33
<i>= indicates the new record equals the old one.</i>				

Lowest December mean minimum temperature for at least 30 years			
		Observed this month	Most recent lower month
South Australia			
026026	Robe	11.4	11.3 in 1958

Record highest December daily minimum temperature				
		New record	Old record	Years of record
South Australia				
026095	Cape Jaffa (The Limestone)	22.2 on 13th =	22.2 on 29th in 2002	30
Queensland				
036026	Isisford Post Office	33.1 on 3rd	32.0 on 30th in 1966	58
040211	Archerfield Airport	25.3 on 7th	24.9 on 18th in 2012	45
041100	Texas Post Office	27.2 on 2nd	26.5 on 21st in 2017	51
044026	Cunnamulla Post Office	33.2 on 1st	32.2 on 29th in 1957	64
New South Wales				
054003	Barraba (Clifton Lane)	26.1 on 2nd	25.6 on 24th in 1994	55
055136	Woolbrook (Woolbrook Road)	21.0 on 2nd	20.7 on 28th in 1990	49
056013	Glen Innes Ag Research Stn	19.5 on 2nd	19.3 on 27th in 2003	45
056018	Inverell Research Centre	24.2 on 2nd	23.3 on 31st in 1965	55
Tasmania				
097053	Strathgordon Village	19.5 on 15th	17.0 on 31st in 2002	36
<i>= indicates the new record equals the old one.</i>				

Record highest December mean minimum temperature				
		New record	Old record	Years of record
Queensland				
035069	Tambo Post Office	22.3	21.9 in 2009	89
039083	Rockhampton Aero	22.9 =	22.9 in 2019	82
039104	Monto Township	20.1	19.8 in 2005	47
041175	Applethorpe	15.9 =	15.9 in 2009	52
043015	Injune Post Office	20.6	20.5 in 2009	54
New South Wales				
058158	Murwillumbah (Bray Park)	21.1	20.4 in 1997	45
<i>= indicates the new record equals the old one.</i>				

Highest December mean minimum temperature for at least 30 years

		Observed this month	Most recent higher
Queensland			
040004	Amberley AMO	20.3	20.6 in 1979

Record lowest December mean temperature

		New record	Old record	Years of record
Western Australia				
003032	Derby Aero	30.0	30.2 in 1998	35
003080	Curtin Aero	30.0	30.1 in 1998	30

Record highest December daily rainfall

		New record	Old record	Years of record
Western Australia				
004026	Noreena Downs	150.6 on 12th	127.8 on 29th in 1930	99
013011	Warburton Airfield	83.0 on 12th	60.7 on 31st in 1947	62
Northern Territory				
014857	Suplejack	68.0 on 22nd	58.0 on 8th in 2000	38
015607	Mount Denison	151.0 on 22nd	116.6 on 27th in 2016	55
015643	Territory Grape Farm	104.2 on 21st	68.2 on 31st in 2016	34
Queensland				
029126	Mount Isa Mine	127.4 on 22nd	120.2 on 16th in 1984	88
029127	Mount Isa Aero	115.0 on 22nd	109.4 on 16th in 1984	55
030158	Green Hills	91.4 on 25th	71.0 on 30th in 1988	35
034010	Trafalgar Station	136.0 on 30th	112.6 on 29th in 2011	108
036050	Ulcanbah	131.0 on 25th	87.6 on 29th in 2015	76
037010	Camooweal Township	120.4 on 22nd	116.3 on 19th in 1950	128
039059	Lady Elliot Island	168.2 on 14th	139.4 on 12th in 2011	82
040042	Canungra Finch Road	120.0 on 15th	118.4 on 13th in 1991	104
040550	Numinbah	456.0 on 13th	308.0 on 24th in 1998	93
040606	Upper Mudgeeraba Water	190.0 on 13th	178.2 on 13th in 1991	47
040607	Springbrook Road	318.0 on 13th	231.0 on 13th in 1991	40
040717	Coolangatta	166.0 on 13th	156.6 on 8th in 2004	38

= indicates the new record equals the old one.

Record highest December daily rainfall

	New record	Old record	Years of record
New South Wales			
054082 Kings Plains (Croye)	153.6 on 4th	76.4 on 26th in 2017	63
055076 Boggabri (Kanownda)	88.0 on 22nd	75.0 on 7th in 1996	121
055105 Attunga (Tarana)	83.6 on 22nd	61.7 on 9th in 1970	59
055120 Attunga (The Pines)	89.0 on 22nd	87.0 on 7th in 1996	62
055176 Loomberah (Pendene)	85.2 on 22nd	72.2 on 7th in 1996	63
055245 Nundle (Keeva)	82.8 on 22nd	73.0 on 11th in 2002	32
055254 Manilla (Fern Hill)	79.4 on 22nd	53.3 on 9th in 1970	44
056082 Niangala (Ashland)	97.0 on 22nd	76.0 on 23rd in 2015	65
056083 Glen Morrison (Branga Plains)	73.0 on 22nd	70.0 on 23rd in 2015	81
056205 Pinkett (Benbookra)	69.0 on 4th	66.6 on 29th in 1987	51
057093 Cangai (Smelter Creek)	174.4 on 15th	140.0 on 16th in 1988	57
058011 Chillingham	306.0 on 13th	300.0 on 13th in 1991	68
058020 Murwillumbah (Dungay (Taleswood))	273.0 on 13th	246.0 on 13th in 1991	68
058040 Mullumbimby (Fairview Farm)	198.0 on 13th	191.8 on 3rd in 1940	123
058113 Green Pigeon (Morning View)	196.8 on 15th	115.0 on 19th in 1988	52
058127 Clunes (Flatley Drive)	124.0 on 13th	= 124.0 on 8th in 2004	59
058158 Murwillumbah (Bray Park)	160.0 on 18th	149.0 on 28th in 2014	49
058192 Upper Mongogarrie (Marangaroo)	186.6 on 15th	103.6 on 13th in 1991	35
058195 Wiangaree Post Office	238.0 on 19th	93.6 on 28th in 2010	33
059002 Bowraville Recreation Club	201.0 on 12th	132.0 on 13th in 1991	130
059019 Ebor (The Racecourse)	109.0 on 15th	88.0 on 31st in 2001	76
059120 Thumb Creek (Figtree)	155.2 on 15th	127.2 on 16th in 1988	51
060017 Hannam Vale (Hannam Vale Road)	154.0 on 16th	153.2 on 29th in 1936	94
060031 Telegraph Point (Farrawells Road)	161.4 on 16th	154.2 on 10th in 1947	111
060104 Nowendoc (Green Hills)	83.0 on 22nd	77.2 on 29th in 1978	50
060125 Hollisdale (Pappinbarra Rd)	175.0 on 16th	126.0 on 16th in 1988	38
061377 Swansea (Catherine St)	79.8 on 22nd	77.0 on 5th in 1992	34
069040 Kioloa Old Post Office	200.0 on 18th	181.6 on 1st in 1961	60
072146 Albury Airport	52.5 on 17th	49.0 on 9th in 1988	36
073019 Junee Treatment Works	78.2 on 17th	75.7 on 24th in 1971	96
073025 Old Junee (Millbank)	78.6 on 17th	72.9 on 27th in 1971	126
Victoria			
090060 Nullawarre	71.0 on 22nd	70.2 on 8th in 2010	122

= indicates the new record equals the old one.

Record highest December total rainfall

		New record	Old record	Years of record
Western Australia				
002021	Mount Amhurst	306.8	270.6 in 1930	65
002026	Ruby Plains	331.4	243.5 in 1930	77
002048	Flora Valley	341.0	204.0 in 1998	43
002049	Sophie Downs	305.2	215.0 in 1999	37
003032	Derby Aero	436.8	350.6 in 2016	66
003057	Cygnets Bay	695.6	621.7 in 2017	55
003066	Port Smith	552.2	512.6 in 2016	42
004026	Noreena Downs	250.0	194.2 in 1930	99
Northern Territory				
014638	Gorrie	480.0	449.8 in 2003	36
014639	Gilnockie	430.2	379.4 in 2015	32
014829	Lajamanu Airport	320.2	228.6 in 2003	60
014857	Suplejack	219.2	183.0 in 2001	38
015507	Pine Hill	322.4	310.0 in 2016	35
015518	Napperby	298.0	148.6 in 1999	59
015607	Mount Denison	361.4	246.8 in 2016	54
015643	Territory Grape Farm	320.8	219.2 in 2016	34
015653	Gemtree Park	219.5	166.8 in 2016	31
Queensland				
030019	Gilberton	286.1	283.2 in 1956	102
030158	Green Hills	332.2	310.8 in 2009	34
034010	Trafalgar Station	308.8	287.4 in 2011	111
036160	Frankfield Station	250.0	200.0 in 2010	30
040042	Canungra Finch Road	389.0	386.6 in 1988	104
040550	Numinbah	995.4	992.2 in 1988	93
040607	Springbrook Road	964.0	720.6 in 2010	39
040717	Coolangatta	534.8	493.8 in 2010	38

Record highest December total rainfall

		New record	Old record	Years of record
New South Wales				
054023	Barraba (Neranghi)	247.8	235.8 in 1970	110
054082	Kings Plains (Croye)	238.8	219.8 in 1978	58
055105	Attunga (Tarana)	222.4	198.3 in 1970	58
055120	Attunga (The Pines)	215.6	171.4 in 1996	62
055176	Loomberah (Pendene)	247.4	208.3 in 1960	63
055181	Dungowan (Ravencroft)	217.2	208.5 in 2010	60
055201	Kelvin (Kahana)	183.0	172.0 in 1985	103
055254	Manilla (Fern Hill)	233.0	189.7 in 1970	43
055331	Manilla (Towri)	196.0	181.5 in 1997	37
056028	Uralla (Salisbury Court)	241.8	202.9 in 1947	131
056034	Uralla (Dumaresq St)	233.8	228.1 in 1996	120
056082	Niangala (Ashland)	252.0	238.0 in 2014	62
056163	Mount Mitchell (Tirrana)	261.0	224.6 in 2009	57
056180	Bundarra (South Winscombe)	259.4	234.8 in 1970	55
057045	Tia (Highrent)	226.2	221.8 in 2014	58
057091	Uralla (Blue Nobby)	273.0	218.6 in 2009	58
057093	Cangai (Smelter Creek)	459.6	432.4 in 1970	57
057104	Yarrowitch (Maretto)	298.0	217.2 in 2014	60
058011	Chillingham	721.0	626.5 in 1970	64
058020	Murwillumbah (Dungay (Taleswood))	681.2	595.2 in 2010	68
058044	Nimbin Post Office	658.7	497.2 in 1970	98
058045	Nymboida (Sutton St)	428.4	370.8 in 2018	94
058056	Tweed Heads Golf Club	558.0	487.2 in 1955	135
058059	Ulmarra (Newsagency)	442.8	348.2 in 1970	128
058070	Rosebank (Repentance Creek)	604.2	581.8 in 2010	62
058077	Grafton Research Stn	513.0	265.2 in 1931	65
058080	Wooli Beach	425.2	329.0 in 1975	53
058097	New Italy (Vineyard Haven)	374.0	270.4 in 2014	37
058102	Grafton South (South Grafton (Yeerong))	373.6	349.4 in 2018	56
058113	Green Pigeon (Morning View)	585.2	543.3 in 1970	52
058127	Clunes (Flatley Drive)	483.5	432.0 in 2010	57
058129	Kunghur (The Junction)	615.0	555.4 in 1991	50
058147	The Channon	489.5	408.4 in 2010	65
058148	Lillian Rock (Williams Road)	603.0	596.7 in 1970	53
058158	Murwillumbah (Bray Park)	638.7	499.9 in 2010	49
058171	Meerschaum Vale (Jenbetdaph)	536.2	367.1 in 1983	44
058192	Upper Mongogarie (Marangaroo)	378.0	288.2 in 1991	34
058220	Woolners Arm	332.6	298.5 in 1931	67
059002	Bowraville Recreation Club	635.0	336.6 in 1897	127
059006	Lower Bucca	723.2	476.3 in 1931	101
059009	Coramba (Glenfiddich)	608.2	428.2 in 1988	76
059019	Ebor (The Racecourse)	538.0	275.4 in 2014	87
059030	South West Rocks (Smoky Cape Lighthouse)	513.4	466.0 in 1947	82
059032	Taylors Arm	465.0	387.3 in 1962	59
059045	Meldrum (Coolawarra)	607.0	412.9 in 1962	62
059113	Leigh (Rolling Acres)	659.0	403.8 in 2018	47
059120	Thumb Creek (Figtree)	604.8	354.6 in 1962	51
059139	Nana Glen (Cowling Close)	581.6	379.4 in 2018	62
060017	Hannam Vale (Hannam Vale Road)	673.0	362.8 in 1936	94
060031	Telegraph Point (Farrawells Road)	441.5	390.9 in 1947	110

Record highest December total rainfall

		New record	Old record	Years of record
060046	Bobin (Bobin Creek)	298.6	291.7 in 1962	54
060075	Gloucester (Upper Bowman)	280.4	222.4 in 1965	56
060085	Yarras (Mount Seaview)	812.6	611.2 in 2014	71
060090	Birdwood	381.8	277.6 in 2009	52
060103	Krambach (Tipperary)	324.0	246.3 in 1992	47
060104	Nowendoc (Green Hills)	281.0	261.8 in 1978	48
060106	Number One (Murrays Creek)	230.2	224.0 in 1988	51
060121	Elands (Black Sands Creek)	286.2	245.2 in 1988	33
060122	Killawarra (Uralba)	430.1	211.8 in 2007	38
060125	Hollisdale (Pappinbarra Rd)	307.0	260.0 in 1988	30
061135	Upper Rouchel (Mount View)	229.7	216.9 in 1995	59
061191	Bulga (South Wambo)	192.0	189.8 in 1991	61
061377	Swansea (Catherine St)	216.6	212.5 in 1992	33
064050	Weetaliba (Munna)	202.4	200.4 in 2010	49
Tasmania				
092024	Mathinna (Fingal Road)	222.0	201.6 in 1970	117
099000	Cape Barren Island (Long Beach)	194.6	142.6 in 1923	97

Highest December total rainfall for at least 30 years

		Observed this month	Most recent higher
Western Australia			
002009	Gibb River	331.0	354.0 in 1987
002029	Sturt Creek	254.0	292.4 in 1906 *
003015	Meda	375.0	396.2 in 1920 *
004006	Bonney Downs	212.8	296.0 in 1975
004016	Indee	152.0	367.0 in 1975 *
005008	Mardie	89.8	171.3 in 1988
South Australia			
018110	Cook	85.3	105.4 in 1966 *
Queensland			
030039	Oak Park Station	273.0	455.9 in 1916 *
030107	Robin Hood Station	322.0	337.4 in 1973 *
032098	Rollingstone	576.5	892.8 in 1975 *
035000	Alpha Post Office	211.2	239.6 in 1975 *
036050	Ulcanbah	252.8	345.5 in 1975 *
036074	Jochmus	249.0	327.4 in 1975 *
036083	Albro Station	230.0	282.0 in 1975 *
041285	Fairleigh	223.2	247.0 in 1975

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

Highest December total rainfall for at least 30 years

		Observed this month	Most recent higher
New South Wales			
054027	Delungra (Pearsby Hall)	235.0	286.3 in 1970
054117	Cobbadah (Rocky Glen)	232.2	302.3 in 1970 *
055003	Somerton (Bective Estate)	191.4	200.7 in 1887 *
055136	Woolbrook (Woolbrook Road)	211.4	237.8 in 1970
055164	Weabonga (Stoneleigh)	209.4	261.4 in 1959
056033	Tingha Post Office	221.0	245.8 in 1970 *
056065	Uralla (Mihi)	202.4	218.1 in 1970
056080	Glen Morrison (Millbank)	226.6	237.1 in 1970 *
056139	Ben Lomond (Koala)	212.7	298.1 in 1970 *
056176	Bundarra (Bimbadeen)	258.6	261.7 in 1959 *
056205	Pinkett (Benbookra)	239.0	257.6 in 1982 *
057003	Bonalbo Post Office	327.1	361.9 in 1965 *
057014	Glen Elgin (Glenbrook)	268.4	281.5 in 1970 *
057095	Tabulam (Muirne)	390.8	405.6 in 1975 *
057103	Kookabookra	253.6	288.8 in 1988 *
057119	Walcha (Karori)	258.9	330.9 in 1958
058005	Brays Creek (Misty Mountain)	525.0	551.0 in 1988 *
058006	Brushgrove (Clarence St)	408.6	426.6 in 1970 *
058027	Harwood Island (Harwood Sugar Mill)	319.1	378.7 in 1970 *
058040	Mullumbimby (Fairview Farm)	534.6	594.0 in 1955 *
058137	Kingscliff (Woram Place)	420.0	446.0 in 1970 *
059110	Bowraville (Cow Cownty)	512.8	1171.0 in 1975 *
060015	Gloucester Post Office	214.6	351.9 in 1962 *
060021	Krambach (Firefly Rd)	327.7	339.3 in 1962 *
060024	Moorland (Denro-An)	504.9	566.7 in 1947 *
060030	Taree (Patanga Cl)	391.0	403.0 in 1947 *
060033	Krambach (Bellevue)	334.6	512.3 in 1947 *
060036	Wingham (Lanark Close)	359.6	360.4 in 1947 *
061100	Broke (Harrowby)	171.6	204.2 in 1947 *
061205	Yallambie (Mount Auban)	179.4	214.0 in 1961
061217	St Albans (Espie St)	179.0	218.2 in 1963 *
061346	Hunter Springs (Wondecla)	235.2	261.0 in 1988 *
062036	Ulan Water	176.8	223.5 in 1963 *
066141	Mona Vale Golf Club	176.4	251.7 in 1970 *
Tasmania			
092045	Irapuna (Eddystone Point)	139.6	174.8 in 1985 *

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

Lowest December total rainfall for at least 30 years

		Observed this month	Most recent lower
Western Australia			
009552	Greenbushes	1.0	0.3 in 1909 *
South Australia			
016047	Todmorden	1.6	0.0 in 1985
024572	Wellington (Brinkley South)	5.8	1.8 in 1984

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

Daily and mean maximum temperatures for December 2020

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	31			
048027 Cobar MO	32.4	-0.1	46.7	28.9	33.4	37.6	35.3	28.0	28.4	25.6	30.9	33.7	33.6	30.8	32.3	34.3	32.8	35.2	40.2	31.0	31.9	27.0	17.8	23.8	26.5	32.2	32.7	36.4	38.8	37.1	30.3	34.7	36.0			
048245 Bourke Airport AWS	34.8		47.6	37.7	37.3	40.6	43.4	32.1	31.7	28.0	32.9	36.7	36.4	32.7	33.8	35.6	35.5	38.6	42.6	38.3	37.4	29.9	19.0	24.7	27.3	31.5	34.3	37.4	38.5	35.7	31.3	35.1	36.1			
049000 Ivanhoe Aerodrome AWS	31.5		39.5	25.4	30.7	35.3	34.6	25.8	24.7	24.6	30.4	32.6	34.1	32.3	32.5	35.9	36.8	37.8	38.6	28.7	29.9	30.2	24.3	24.1	26.8	30.3	30.1	34.8	38.9	27.9	28.6	33.5	35.6			
050052 Condobolin Ag Research Stn			42.7	25.4	29.6				26.2	24.3	29.3	32.9	31.5	29.8	32.4	33.0	33.3	32.0	38.4	30.4	29.9	29.3	25.4	24.8	27.6											
052088 Walgett Airport AWS	34.4		46.6	38.3	38.5	39.1	38.7	36.0	32.9	28.0	32.6	36.3	30.2	31.1	32.9	34.5	33.6	34.3	39.5	40.9	38.7	35.6	21.9	24.8	28.8	30.4	34.3	35.4	37.2	34.3	31.3	34.7	34.7			
053115 Moree Aero	32.2		43.0	43.7	37.8	37.7	38.2	33.6	29.8	28.0	32.4	34.0	26.8	27.1	32.3	30.5	33.2	32.4	35.0	37.8	34.6	34.2	25.6	23.5	26.2	26.3	32.2	31.6	33.1	26.0	29.1	30.8	32.7			
054038 Narrabri Airport AWS	32.1		42.2	44.4	37.7	35.4	38.6	33.7	30.3	27.1	31.6	32.5	27.7	28.8	31.3	30.3	32.9	32.0	34.3	35.4	35.9	34.2	24.3	24.1	27.6	26.6	31.9	31.2	31.7	29.5	29.9	31.6	31.6			
055325 Tamworth Airport AWS	30.4		41.3	41.8	37.4	34.9	36.8	32.9	28.9	26.1	30.3	32.3	25.8	26.6	28.7	27.6	30.9	32.2	31.1	32.5	32.5	30.7	21.2	22.3	27.2	25.7	29.9	30.1	29.8	26.8	28.9	29.4	30.0			
056242 Inverell (Raglan St)	28.7		37.2	39.2	35.7	32.8	34.8	31.2	24.9	24.8	28.7	28.6	23.8	23.2	27.2	25.9	29.1	30.8	28.0	32.1	32.3	27.2	24.0	22.8	26.2	24.8	29.3	27.7	29.2	23.1	27.3	27.6	28.8			
057095 Tabulam (Muirne)	27.3		36.4	36.0	24.7	35.2	34.1	34.9	29.7	26.9	27.1	28.4	17.8	15.2	19.4	19.4	26.7	27.9	28.0	29.9	29.6	30.3	26.3	25.6	27.7	22.6	27.5	23.5	28.1	29.9	28.7	23.4	25.8			
058012 Yamba Pilot Station	27.0	+1.5	28.2	29.9	26.0	29.2	29.4	27.8	28.7	25.4	25.7	21.7	22.3	22.6	23.7	26.7	26.2	27.8	28.5	26.7	29.7	27.3	31.5	27.1	26.1	27.1	25.9	28.8	30.2	27.9	25.4	26.5				
060139 Port Macquarie Airport AWS (Comparison)	26.5		28.2	31.1	26.9	28.1	31.4	31.9	25.9	28.0	25.1	28.1	20.9	23.2	24.3	23.5	23.9	25.5	27.6	30.8	25.4	25.2	23.8	25.3	25.6	23.6	27.2	25.0	30.1	28.8	25.7	27.0	24.3			
061078 Williamtown RAAF	26.5	-0.8	32.7	23.7	23.2	28.4	26.7	32.5	31.3	22.6	24.4	27.7	22.3	23.6	24.5	24.2	26.5	29.6	31.1	33.1	21.7	22.4	22.4	28.6	25.1	26.6	23.7	26.1	33.4	31.3	22.5	24.9	25.0			
061363 Scone Airport AWS	28.5		41.2	27.2	25.5	36.7	31.5	31.9	31.0	26.5	30.1	33.4	20.6	24.5	27.9	27.4	26.9	32.3	32.4	30.5	24.2	23.6	21.1	26.0	26.8	29.0	27.4	29.6	31.3	31.4	25.3	26.8	23.8			
062101 Mudgee Airport AWS	27.5		40.0	31.6	27.8	33.6	27.1	26.0	26.2	22.7	28.0	30.4	22.1	24.3	26.1	26.3	28.7	28.0	33.5	29.2	24.5	25.9	19.2	23.7	26.0	27.8	26.8	27.7	31.0	30.8	24.2	25.8	26.8			
063005 Bathurst Agricultural Station			36.8	25.2	28.5	30.0	26.2	22.7	22.8	19.2	25.9	28.3	21.5	21.2	24.2								25.0	21.8	21.1	24.0	26.6	26.0	28.3	30.2		26.4				
063254 Orange Agricultural Institute			34.1	21.8	25.9				26.9	19.0	16.6				22.6	23.7	25.8	27.1	28.5				24.9	19.0	17.6	20.8				27.2	27.0	24.9				
064008 Coonabarabran (Showgrounds)	29.3	-1.3	39.4	36.5	33.0	33.4	31.6	27.9	27.4	23.8	29.0	31.0		26.3	28.2	28.4	32.0					32.0	30.5	31.7	27.4	18.0	22.6	25.6		30.0	29.5	30.4	28.4	28.0	29.0	28.5
065070 Dubbo Airport AWS	30.6		42.8	30.4	33.0	36.3	27.7	27.3	28.4	24.3	29.4	32.8	28.2	28.1	29.9	31.7	33.2	30.7	35.7	32.1	32.3	28.0	19.8	25.6	28.4	30.3	31.4	32.8	34.4	34.2	27.4	30.4	30.4			
066214 Sydney (Observatory Hill)	26.1		28.4	24.0	23.0	30.0	25.1	30.7	30.8	24.5	26.7	27.3	23.9	25.1	27.5	24.8	24.8	27.7	30.5	30.3	19.6	23.7	24.5	27.6	26.3	26.9	21.9	25.8	27.4	30.3	20.8	24.0	24.5			
067105 Richmond RAAF	27.1		38.1	24.5	22.8	34.8	26.7	30.0	29.9	26.3	28.1	30.0	22.7	24.7	25.2	25.4	25.6	31.7	33.2	30.1	19.2	24.1	23.6	28.8	27.1	29.6	21.8	25.1	33.8	33.8	19.8	21.2	23.4			
068072 Nowra RAN Air Station AWS	24.9		29.6	22.9	23.7	33.7	26.8	26.5	27.2	21.3	25.8	22.5	21.2	22.6	25.1	25.2	26.6	28.5	30.5	31.5	19.0	25.1	23.9	26.2	24.0	27.4	19.0	25.5	29.1	21.7	18.7	20.2	21.8			
068151 Jersey Bay (Point Perpendicular)	23.1		29.8	20.1	23.2	26.8	24.7	24.6	25.7	18.8	22.5	19.7	19.8	20.1	23.1	25.4	25.2	24.2	28.2	29.3	18.5	22.8	22.7	24.5	25.0	24.4	19.5	24.3	24.7	19.6	19.7	21.0	21.7			
068241 Albion Park (Shellharbour Airport)	24.7		26.5	21.6	22.6	27.9	26.1	28.4	29.1	21.9	24.6	25.6	21.6	22.9	24.5	24.3	26.4	31.4	31.5	20.2	23.8	23.7	26.0	25.3	26.1	20.1	24.7	25.8	24.9	20.7	21.0	21.9				
069018 Moruya Heads Pilot Station	22.4	-0.1	24.4	19.1	21.0	24.5	27.0	24.9	26.9	21.4	21.1	20.5	20.2	20.8	21.8	23.4	23.2	23.2	25.0	23.5	19.2	23.2	22.1	24.6	23.0	22.6	20.0	22.1	23.2	18.0	20.2	21.8	21.3			
070351 Canberra Airport	25.4		33.1	26.2	25.3	28.8	28.4	19.5	21.3	20.7	24.6	25.9	19.4	23.8	26.0	27.7	26.6	30.3	28.4	28.2	26.9	23.6	22.8	25.1	27.2	21.2	26.0	31.9	31.9	23.7	25.8	24.0				
071041 Thredbo Village	18.9		25.9	19.5	20.0	21.0	23.2	8.1	9.1	13.5	19.0	17.0	17.0	18.0	22.0	24.5	24.0	20.0	22.2	19.5	18.5	18.0	17.5	14.5	15.8	19.0	16.0	19.6	23.0	22.0	16.0	21.5	19.7			
072150 Wagga Wagga AMD	28.8	-0.5	36.8	25.3	29.1	32.4	30.8	21.1	21.1	21.7	26.9	30.9	26.6	25.6		31.3	31.6	33.3	33.4	28.0	26.4	28.7	27.1	21.8	27.6	28.9	29.2	31.3	35.5	30.2	28.8	31.2	32.1			
072160 Albury Airport AWS	29.0		34.3	24.7	28.7	31.0	32.0	20.8	21.1	21.1	27.9	29.8	28.3	28.0	30.3	32.7	32.5	33.0	32.6	26.9	26.9	28.1	29.0	24.6	28.0	28.2	28.2	30.9	36.4	28.7	29.1	31.7	33.0			
072161 Cabramurra SMHEA AWS	17.7		23.9	17.5	18.5	20.2	22.5	6.6	7.1	9.7	16.6	18.6	15.9	16.3	20.2	22.5	19.5	20.4	20.7	17.0	17.1	16.7	15.0	12.1	15.7	17.8	25.1	18.1	18.3	22.2	20.6	18.7	21.6	20.2		
074258 Deniliquin Airport AWS	29.9		33.5	25.3	30.5	31.5	33.2	24.1	19.5	22.8	29.3	30.2	30.7	31.9	34.9	36.6	31.1	35.8	26.2	27.2	29.7	30.8	22.5	27.5	28.2	29.1	33.9	39.8	25.7	28.1	32.8	35.9				
Victoria		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	31			
076031 Mildura Airport	30.4	+0.3	28.0	26.3	31.7	32.9	31.9	24.2	20.4	24.4	30.0	30.2	32.2	34.3	33.7	37.7	38.8	32.8	32.5	26.6	28.7	32.2	22.7	26.3	28.6	29.7	30.4	36.7	39.6	25.4	28.4	31.3	34.4			
078015 Nhill Aerodrome	26.6		22.9	22.7	29.1	29.3	25.3	20.1	18.5	20.4	27.3	25.2	29.6	33.0	33.6	37.5	37.1	25.7	33.2	22.9	24.8	26.7	18.9	21.4	24.0	24.4	26.2	33.9	33.7	22.4	27.3	28.6	30.3			
080023 Kerang	29.0	-0.3	29.3	25.0		30.8	30.8	23.0	19.3	21.8	29.6	26.5	29.8	31.3	32.1	35.2	37.5	35.9	32.4	25.2	26.1	28.9	26.2	20.4	27.1	26.6	27.8	34.3	39.7	24.2	27.9	31.3	33.2			
081123 Bendigo Airport	26.4		25.4	22.2	27.3	26.8	28.3	21.0																												

Daily and mean minimum temperatures for December 2020

Western Australia		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	31	
001019 Kalumburu		24.7	24.8	23.5	24.5	24.5	26.1	26.1	25.1	24.7	23.9	24.4	24.7	26.0	25.2	25.6	25.8	22.8	26.2	24.9	24.7	24.6	25.0	24.0	22.9	23.0	24.3	24.7	25.7	24.8	24.4	24.4	23.9	
002056 Kununurra Aero		25.0	26.4	24.0	23.7	23.0	23.8	25.5	26.3	24.7	23.9	24.5	24.8	26.1	25.5	27.8	26.0	24.9	26.9	24.5	24.9	24.7	25.1	24.0	23.0	23.5	24.2	25.9	26.4	25.2	25.4	25.3	24.4	
003003 Broome Airport		26.1	-0.4	27.7	26.1	26.6	25.0	26.8	23.9		23.9	23.8	24.3	23.8	23.9	24.9	27.5	28.1	28.2	28.4	28.1	26.1	29.3	25.2	24.1	25.5	26.3	25.3	28.7	28.8	24.7	26.6	28.8	
003032 Derby Aero		25.5	27.7	26.7	27.0	25.1	26.8	24.7	24.4	24.1	23.1	24.2	24.8	24.1	24.3	25.7	26.3	26.6	26.6	26.4	27.9	25.3	24.8	24.0	23.3	24.1	25.8	25.9	26.6	26.9	24.5	25.9	27.9	
004032 Port Hedland Airport		25.9	+2.0	24.1	25.7	26.9	27.4	27.8	28.7	26.5	26.6	24.1	24.7	21.9	22.6	22.4	23.4		24.9	26.0	25.9	27.0	28.3	26.1	25.8	22.4	23.7	26.3	27.4	28.2	27.6	27.4	27.8	28.5
004083 Karratha Aero		26.4	26.0	24.2	27.4	25.7	28.1	29.7	28.7	26.3	23.0	25.4	20.6	23.3	24.0	24.5	26.0	25.0	27.2	28.4	27.9	28.2	25.8	26.7	24.5	24.0	26.6	27.5	28.3	27.9	27.8	28.9	29.4	
004106 Marble Bar		25.6	24.9	27.9	29.5	24.6	29.1	28.7	27.7	26.1	23.2	23.1	21.5	22.6	22.4	22.2	22.8	25.1	27.0	27.9	28.8	24.4	24.9	24.2	25.9	24.8	28.3	27.2	22.3	25.7	26.5	27.7	27.6	
005007 Learmonth Airport		22.1	17.1	18.9	20.9	21.3	19.2	21.8	24.8	23.6	23.8	22.7	20.4	22.0	19.8	19.3	20.3	21.0	20.0	21.1	21.9	20.7	24.0	23.8	23.1	23.5	23.9	23.5	23.0	23.1	26.5	25.8	24.8	
006011 Carnarvon Airport		21.6	+1.1	16.0	18.2	20.5	19.4	18.3	20.3	21.4	21.5	21.5	21.4	22.3	22.2	21.2	18.7	19.1	21.2	20.8	21.9	22.6	22.4	24.1	22.1	23.7	23.2	22.9	22.7	23.6	25.4	24.1	24.1	
006044 Denham		20.6	14.0	17.9	20.0	19.5	16.9	18.5	20.0	21.2	20.9		20.0	21.5	20.6	17.2	18.5	20.0	21.2	22.0	21.0	22.0	21.0	22.0	21.9	23.2	22.5	22.5	21.6	21.5	23.2	23.2	22.0	22.0
007176 Newman Aero		24.5	23.2	23.9	28.9	22.5	26.4	24.7	28.8	23.3	23.8	18.9	20.5	19.2	22.0	23.8	23.8	29.0	27.5	28.7	28.0	26.7	26.0	22.7	21.9	19.9	21.9	24.9	26.2	25.3	25.6	23.9	28.0	
007185 Paraburdoo Aero		25.4	24.4	28.2	29.2	25.1	23.8	27.9	22.9	19.6	25.0	24.2	19.7	22.9	23.1	21.2	24.7	27.8	25.4	25.1	28.0	26.8	29.7	23.6	21.6	21.4	26.0	27.4	28.1	28.0	26.9	29.7	29.7	
007045 Meekatharra Airport		23.4	+1.3	15.6	19.9	27.8	26.1	20.2	19.7	24.6	25.7	24.5	21.0	18.8	19.3	22.5	18.6	22.6	24.8	22.5	21.3	25.4	24.4	25.2	23.5	23.5	24.0	23.9	28.2	27.4	23.5	25.0	28.8	27.6
007600 Mount Magnet Aero		22.0	12.4	17.3	21.1	22.1	16.1	17.3	23.0	24.9	21.6	24.2	21.7	19.7	20.5	15.2	19.5	25.1	20.6	20.9	23.6	24.9	24.3	24.7	24.4	25.3	25.6	26.3	20.9	23.1	25.5	26.9	22.3	
008296 Morawa Airport		18.2	8.2	11.8	13.6	15.6	10.7	12.7	17.0	21.9	19.4	22.1	20.4	19.4	18.4	10.8	13.5	19.0	17.8	19.8	24.6	19.9	20.2	21.8	23.4	23.3	20.0	20.1	18.2	19.1	25.6	19.3	17.2	
008297 Dalwallinu		16.4	6.6	10.8	13.7	13.6	10.8	10.7	15.7	18.6	19.3	20.8	18.9	17.6	18.2	10.5	12.8	15.5	16.2	16.0	19.0	17.5	15.4	17.4	19.5	20.6	19.9	22.3	15.1	14.6	20.4	20.9	16.2	
008315 Geraldton Airport		17.1	9.8	10.8	12.0	18.4	14.6	12.7	12.8	19.6	19.4	19.7	17.2	19.1	20.4	11.8	12.1	15.6	19.7	16.8	18.9	19.2	15.3	18.6	20.9	16.5	16.9	21.8	17.5	18.9	21.6	22.2	18.3	
009021 Perth Airport		16.4	+1.3	4.9	9.5	12.1	14.2	10.0	12.5	14.1	18.1	17.4	22.4	23.7	17.0	17.3	12.7	13.9	15.2	16.0	16.5	16.8	17.9	15.6	16.2	18.8	22.1	17.2	22.2	15.6	14.0	19.9	25.0	21.0
009131 Jurien Bay		16.7	8.4	11.3	12.2	18.3	16.4	12.5	13.1	17.2	20.1	15.5	20.1	19.6	18.5	13.7	12.5		14.5	16.9		16.2	16.4	18.9	22.1	17.2	20.7	17.6	17.0	20.4	22.6			
009225 Perth Metro		16.9	6.6	9.8	12.1	15.4	14.4	12.8	15.4	18.0	17.9	21.1	23.1	19.4	17.4	13.4	14.0	15.2	16.5	16.4	18.5	18.0	15.7	16.5	19.2	20.5	19.2	22.0	16.0	14.2	19.0	24.1	21.5	
009240 Bickley		14.3	6.5	9.5	11.7	11.4	9.7	9.9	11.7	14.3	18.6	19.6	20.3	18.7	14.3	9.6	10.1	11.5	12.3	12.4	14.4	14.5	12.2	12.4	14.8	22.0	24.1	19.0	12.3	10.3	16.0	21.4	18.7	
009518 Cape Leeuwin		16.1	+0.3	12.4	11.3	15.1	16.1	14.8	15.4	15.1	16.2	16.9	17.3	20.1	18.6	15.4	14.4	13.4	14.9	16.4	15.8	15.9	16.7	15.3	15.1	16.7	19.4	18.3	17.1	15.8	14.4	16.8	18.4	19.0
009617 Bridgetown		11.8	6.3	5.2		9.8	12.6	11.5		11.6	15.6	15.6	17.0	13.2	14.1	6.0	3.9	8.7	8.4		10.8	12.7	16.4	13.5	15.3	10.0	9.6	13.3	16.9	20.7				
009746 Witchcliffe		12.5	8.9	6.4	7.5	11.3	13.6	13.9	9.4	10.0	16.6	16.1	16.9	16.8	13.9	9.8	7.7	9.9	11.3	10.6	12.1	11.0	10.3	10.9	12.7	17.7	17.8	16.4	11.9	8.4	12.7	16.0	17.7	
009789 Esperance		13.8	11.8	8.6	11.5	15.9	14.6	14.4	15.2	9.0	14.1	16.5	17.6	18.1	13.7	13.8	15.2	12.2	14.0	10.1	10.4	13.1	15.9	11.2	11.4	12.8	19.9	18.3	14.2	9.8	11.3	15.5	16.3	
009965 Bunbury		14.0	5.5	7.3	10.8	9.9	13.4	8.7	12.6	15.0	16.7	16.7	19.8	16.9	15.8	7.4	10.4	12.8	12.8	14.1	14.8	13.2	12.0	13.3	17.6	19.6	17.7	16.0	11.7	12.8	15.4	20.3	22.1	
009977 Mandurah		10.2	13.2	14.5	16.3	15.7	13.8	15.4	18.6	19.4	21.5	24.4	21.5	17.3	14.3		17.4	20.1	24.0	23.8	19.5	15.3	14.6	20.0	24.8	19.5	15.3	14.6	20.0	24.8	21.4			
009999 Albany Airport		12.3	8.5	6.4	8.9	10.3	13.3	13.0	13.5	11.2	15.6	15.5	17.3	16.8	12.8	10.2	6.0	10.9	12.4	6.8	11.8	12.1	14.0	9.2	13.8	16.2	15.2	15.6	12.5	6.0	12.3	16.6	17.1	
010007 Bencubbin		16.5	+0.4	7.8	11.3	14.3	14.8	11.5		12.6	18.5	22.2	21.5	19.6	15.0	18.5	11.1	12.8		15.4	16.1	18.6	16.0	13.9	16.5	17.5	22.8	24.0	20.9	15.5	13.5			
010092 Merredin		16.0	8.0	13.0	14.8	14.3	11.5	12.0	13.1	19.6	22.0	21.3	18.6	15.9	19.5	11.4	12.5	14.6	13.6	14.5	17.6	16.0	13.1	15.5	19.5	23.6	26.0	19.4						
010286 Cunderdin Airfield		15.1	2.9	7.4	13.2	13.0	9.1	12.5	13.5	16.6	22.1	21.9	20.6	14.6	18.3	7.7	12.6	14.5	13.9	14.2	16.2	15.9	13.8	14.1	16.9	22.9	16.9	19.4	15.0	12.0	17.4	24.0	16.1	
010633 Ravensthorpe		12.7	0.0	7.0	8.5	11.0	13.5	12.7	9.3	12.0	9.5	15.0	17.0	16.3	16.5	14.5	11.0	8.8	11.0	12.0	10.2	10.2	14.0	13.5	10.0	10.5	17.0	24.5	16.5	11.3	10.0	11.3	15.0	15.3
010811 Lake Grace		13.4	5.2	8.6	11.0	12.5	11.6	8.5	10.5	10.2	17.1	20.1	17.5	15.4	16.5	12.3	9.3	11.8	10.9	11.4	13.1	13.9	11.3	11.8	12.8	21.2	21.1	15.9	11.1	10.3	14.1	18.5	19.2	
010816 Katanning		11.4	5.7	6.8	9.0	9.4	12.2	7.2	9.4	9.6	15.0	16.0	15.9	15.1	14.3	8.7	6.7	10.3	9.0	8.6	10.9	11.5	10.6	9.1	12.9	14.1	18.0	14.6	8.9	8.7	12.2	15.9	17.4	
010917 Wandaring		12.4	2.3	6.0	9.2	12.4	11.6	6.7	10.5	10.6	17.5	15.6	20.2	12.7	15.9	6.0	7.5	11.2	11.8	11.8	11.6	14.1	10.2	11.8	13.9	17.9	15.7	16.6	12.3	10.7	11.7	18.2	18.8	
011003 Eucla		15.6	+0.7	14.9	9.9	11.2	16.1	14.3	11.4	15.4	14.6	13.5	17.1	17.8	17.0	17.7	20.7	16.2	15.8	15.0	14.8	16.1	17.1	15.4	15.0	15.3	16.0	16.6	17.6	16.5	14.2	15.4	16.7	16.8
011052 Forrest		14.0	11.6	8.5	11.2	19.3	13.9	9.7	10.2	9.1	13.4	17.5	18.1	16.9	18.0	20.2	14.3	12.1	12.0	11.4	14.3	15.5	11.7	14.1	11.9	14.5	14.8	20.2	17.4	11.1	10.6	13.6	15.8	
012038 Kalgoorlie-Boulder Airport		17.3	+0.5	9.0	13.3	19.8	24.6	15.0	12.8	14.1	17.0	22.8	19.7	21.2	16.6	19.3	15.8	13.3	14.8	15.7	14.0	16.0	19.3	15.1	15.7	17.7	18.5	23.7	26.9	14.9	12.2	15.9	20.5	21.3
012071 Salmon Gums Res.Stn.		11.5	-1.2	7.3	8.7	8.6	11.9	12.6	5.7	11.6	10.9	17.0	15.6	16.8	16.8	12.1	10.9																	

Daily and mean minimum temperatures for December 2020

	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	31		
New South Wales																																		
048027 Cobar MO	18.2	-0.4	24.8	18.7	18.9	20.2	21.2	16.4	14.6	11.9	11.9	16.8	20.0	16.2	17.4	19.3	21.4	21.7	21.0	22.8	15.9	17.7	15.9	15.0	13.2	17.0	18.0	18.1	20.9	24.0	14.1	17.0	21.9	
048245 Bourke Airport AWS	21.2		27.5	24.7	22.4	25.0	28.0	23.3	19.4	15.7	14.2	17.3	22.1	19.2	20.3	24.4	23.7	24.3	28.8	21.1	23.2	15.8	16.9	15.1	19.9	17.2	20.3	19.8	21.5	20.7	20.6	23.9		
049000 Ivanhoe Aerodrome AWS	17.1		21.5	14.5	17.1	13.6	22.1	12.9	14.6	10.4	11.6	16.3	14.2	19.7	20.7	21.7	22.4	24.6	21.0	15.4	13.7	17.9	21.7	14.9	13.0	15.1	15.5	16.9	21.8	15.8	13.0	15.5	20.0	
050052 Condobolin Ag Research Stn			19.3	16.0	13.7	10.8				7.5	7.0	11.0	14.9	11.3	12.6	13.2	19.4	19.0	19.5	18.2	10.4	13.2	16.9	16.0	12.1	13.0								
052088 Walgett Airport AWS	19.2		26.8	24.2	19.9	21.6	22.7	21.4	18.2	14.4	9.4	11.7	20.8	15.5	17.0	15.4	20.6	21.2	21.6	26.5	17.7	21.3	17.0	17.8	14.5	19.0	16.9	16.9	20.5	22.8	20.5	20.5	16.8	20.3
053115 Moree Aero	20.0		23.4	27.5	24.5	19.9	22.1	22.7	21.4	16.0	10.4	19.3	19.9	15.4	14.2	20.7	19.2	20.9	22.4	24.1	20.8	23.2	21.8	19.8	15.1	19.0	16.2	20.8	20.2	22.5	19.5	18.8	18.5	
054038 Narrabri Airport AWS	18.9		20.4	29.4	20.8	19.4	21.4	21.5	19.5	14.7	11.1	14.4	18.8	14.1	15.2	19.9	19.3	21.2	21.1	23.2	18.7	19.7	20.3	19.3	15.0	18.4	17.1	17.1	19.2	19.9	19.6	17.4	18.6	
055325 Tamworth Airport AWS	17.0		18.3	27.2	20.3	20.0	18.6	20.6	18.0	12.2	8.7	12.0	17.5	11.6	13.3	17.7	19.0	19.5	19.7	20.1	17.5	19.9	19.0	18.3	10.8	16.6	14.5	15.8	15.0	18.3	17.5	14.9	16.1	
056242 Inverell (Raglan St)	16.3		18.9	21.7	20.1	17.5	17.6	19.2	18.9	14.0	5.2	11.9	15.8	12.9	14.2	16.2	17.4	19.4	19.4	18.4	15.9	20.8	19.4	19.5	12.4	14.1	10.3	14.9	15.9	15.8	16.9	13.4		
057095 Tabulam (Muirne)	17.0		16.5	16.7	17.9	17.5	18.3	18.4	20.4	19.4	13.3	15.2	14.5	10.4		11.5	17.3	19.5	19.4	18.6	18.2	19.9	17.6	19.7	17.7	15.4	16.4	15.0	14.8	16.2	19.1	17.2	16.8	
058012 Yamba Pilot Station	20.6	+1.5	21.1	21.4	20.8	21.4	21.7	21.2	22.4	21.1	15.6	20.3	17.5	16.9	17.0	19.0	20.5	22.5	21.4	21.8	22.0	22.5	22.7	22.6	22.5	19.6	20.6	19.9	19.4	20.6	21.8	20.5	20.9	
060139 Port Macquarie Airport AWS (Comparison)	18.6		19.5	22.2	19.1	18.9	16.8	21.5	20.3	17.5	9.9	11.4	17.7	15.6	17.5	18.3	19.1	21.0	22.4	21.6	20.2	20.1	21.2	21.1	17.4	16.7	15.3	18.7	18.9	18.7	17.7	19.1	19.9	
061078 Williamtown RAAF	18.1	+1.6	19.3	20.2	18.3	18.7	17.8	20.4	15.4	15.9	13.0	13.6	18.4	17.1	17.7	18.3	18.9	21.3	22.0	20.8	19.2	19.1	18.5	19.1	13.7	14.6	18.3	18.2	17.6	20.6	18.2	17.5	19.8	
061363 Scone Airport AWS	16.4		13.2	21.5	16.8	17.1	13.3	19.9	14.9	14.2	8.2	11.4	15.1	12.8	13.4	17.0	17.2	20.3	20.2	20.1	18.5	17.7	18.5	17.9	14.9	14.8	16.5	13.2	15.9	20.5	17.1	17.6	18.6	
062101 Mudgee Airport AWS	14.8		14.3	19.2	17.9	15.0	10.5	17.0	9.8	10.1	5.4	9.6	14.6	13.4	13.8	16.9	16.9	19.3	18.9	19.0	17.7	16.6	15.3	16.6	10.0	15.1	11.3	15.6	13.8	17.3	15.8	16.6	16.2	
063005 Bathurst Agricultural Station			10.5	13.5	11.5	11.8	8.0	8.0	6.3	7.0	3.3	8.8	10.2	8.4	9.5	14.0							12.7	11.0	15.2	9.5	11.5	11.0	10.0	10.4	13.5			
063254 Orange Agricultural Institute			11.1	11.4	12.6	13.1					9.2	5.5	4.5				5.4	9.9	16.2	16.9	18.1			10.6	13.3	8.8	11.2			10.3	13.9			
064008 Coonabarabran (Showgrounds)	15.2	+1.2	15.5	22.2	15.5	19.0	14.2	18.4	12.8	11.2	6.0	9.0	15.0	9.5	12.0	14.5	16.9	18.5	19.2	19.5	15.9	16.8	15.6	16.5	11.5	15.3		12.0	15.5	19.5	17.0	16.0	16.0	
065070 Dubbo Airport AWS	15.8		17.0	18.7	17.7	17.9	15.1	16.6	11.6	9.7	8.2	10.6	15.7	13.4	12.7	13.3	18.6	20.8	19.2	21.3	14.1	17.0	15.7	17.2	10.7	16.6	12.8	16.5	16.3	20.9	17.7	16.8	18.6	
066214 Sydney (Observatory Hill)	18.1		19.3	19.0	17.2	18.6	19.5	20.9	18.0	15.6	14.4	16.9	17.0	15.5	16.0	18.1	18.7	20.6	21.4	22.2	19.0	18.0	18.8	17.7	16.2	17.2	18.0	17.5	17.3	19.3	16.9	17.2	18.3	
067105 Richmond RAAF	16.5		16.8	19.0	16.8	18.1	18.3	19.6	13.3	13.2	10.8	13.4	14.9	15.5	11.6	17.2	18.3	19.7	20.3	20.4	17.4	17.0	18.0	17.7	12.8	15.8	17.6	15.5	15.9	18.2	15.6	16.1	16.9	
068072 Nowra RAN Air Station AWS	15.2		11.8	17.3	14.2	13.4	15.3	19.2	9.2	10.8	10.7	13.2	11.5	14.5	13.7	16.5	18.0	20.3	20.0	19.9	16.1	15.6	17.4	15.9	13.7	14.2	14.9	15.9	14.0	19.6	14.3	14.3	17.0	
068151 Jervis Bay (Point Perpendicular)	17.2		17.5	17.8	16.4	17.5	15.8	20.0	16.8	13.9	15.1	16.7	15.6	16.6	15.5	16.8	18.5	20.3	21.3	21.3	17.5	16.0	18.0	16.5	16.3	17.3	16.2	17.2	17.7	19.4	15.2	14.7	18.1	
068241 Albion Park (Shellharbour Airport)	16.3		18.1	18.1	15.0	14.0	16.8	19.8	9.9	13.6	11.2	13.3	15.6	15.7	14.4	16.8	18.6	19.8	21.4	19.3	17.4	16.4	17.4	16.7	15.9	14.6	16.6	16.8	14.8	18.6	15.7	16.5	17.1	
069018 Moruya Heads Pilot Station	16.0	+1.3	16.2	17.2	15.3	15.5	16.3	19.6	14.6	11.2	13.3	14.0	12.6	12.9	14.5	16.0	18.5	20.9	20.1	20.7	15.5	15.6	16.8	15.9	14.0	17.6	15.1	15.7	16.5	17.3	12.8	14.7	18.0	
070351 Canberra Airport	11.5		11.9	13.9	12.3	6.0	8.4	12.8	10.4	3.9	4.9	8.7	9.0	7.1	11.2	12.3	13.8	18.7	17.8	14.8	13.9	10.0	13.1	12.6	7.4	9.3	13.6	12.3	10.1	15.0	13.1	12.5	15.1	
071041 Thredbo Village	5.8		9.5	9.5	10.0	3.0	2.0	4.0	4.4	2.0	0.5	6.5	-2.0	2.0	1.2	4.0	7.2	10.5	13.5	12.2	5.0	2.5	5.5	6.0	5.2	6.2	7.0	4.0	10.5	5.5	7.0	7.2		
072150 Wagga Wagga AMD	13.1	-0.4	17.7	11.2	9.1	8.4	10.6	11.8	13.6	7.0	6.7	10.0	13.2	12.8			18.4	21.0	19.1	18.4	8.1	10.7	13.3	14.7	13.4	10.1	8.7	16.3	14.0	18.2	9.7	16.5	18.2	
072160 Albury Airport AWS	12.9		15.4	10.1	7.7	10.0	10.2	11.2	12.6	7.2	8.0	11.6	10.6	12.3	11.7	17.0	15.1	20.5	19.0	17.6	10.7	12.9	11.8	15.2	10.0	10.4	12.7	13.3	12.7	16.2	12.0	14.4	17.4	
072161 Cabramurra SMHEA AWS	7.8		12.6	4.7	6.2	9.7	12.4	2.2	2.5	0.7	1.5	9.4	2.3	2.5	6.3	8.4	13.5	14.2	13.0	12.3	6.5	6.9	8.8	7.3	4.4	7.8	6.7	7.5	10.2	14.9	6.6	8.6	12.0	
074258 Deniliquin Airport AWS	12.3		15.8	6.4	6.9	10.3	13.5	10.0	12.6	4.6	6.4	13.6	9.7	14.7	16.3	18.5	21.1	23.0	16.6	13.4	11.3	10.3	13.5	12.6	10.0	9.4	9.3	9.6	17.1	10.9	9.9	16.6		
Victoria																																		
076031 Mildura Airport	14.6	-0.3	19.4	9.6	10.8	13.2	20.1	10.5	12.8	7.9	10.9	14.6	10.2	15.4	21.1	20.3	21.6	20.0	19.2	11.1	11.6	14.4	18.4	11.4	10.5	13.7	12.9	14.0	22.0	10.8	11.4	14.4	16.9	
078015 Nhill Aerodrome	11.0		16.2	6.2	5.9	7.0	15.0	9.5	9.8	7.9	5.0	10.6	3.8	12.9	19.8	21.3	24.0	14.9	15.2	10.6	7.0	8.6	14.8	11.0	7.3	9.4	5.7	9.5	17.5	5.3	6.5	10.6	11.3	
080023 Kerang	13.1	-0.5	17.4	9.6	9.3		14.7	10.4	12.6	7.2		13.8	8.2	14.4	18.5	18.5	21.7	19.3	17.5	12.4	10.6	10.5	13.9	12.3	10.0	11.6	10.0	10.4	18.5	10.1	9.8	12.9	15.2	
081123 Bendigo Airport	10.6		14.4	3.9	7.6	7.9	10.5	9.5	9.9	6.5	5.4	11.6	8.8	12.2	15.9	14.6	15.7	16.1	15.2	12.1	7.6	8.5	11.5	11.9	9.0	9.5	9.4	8.5	13.8	8.6	7.8	11.1	14.7	
082039 Rutherglen Research	9.6	-1.5	13.9	7.5	2.2	5.3	5.2	10.2	11.6	3.0	3.5	7.7																						

Daily and total rainfall for December 2020

New South Wales		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	31			
048027 Cobar MO		30.4	38	-	-	-	0.2	0.6	10.6	-	-	-	-	-	-	-	-	-	-	2.8	0.4	-	0.6	1.2	14.0	-	-	-	-	-	-	-	-	-	-		
048245 Bourke Airport AWS		47.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2	22.6	0.2	-	-	-	-	-	-	13.2	5.0	0.2	-	
049000 Ivanhoe Aerodrome AWS		32.6	-	-	-	-	-	-	8.4	-	-	-	-	-	-	-	-	-	-	-	0.6	-	-	23.6	-	-	-	-	-	-	-	-	-	-	-	-	
050052 Condobolin Ag Research Stn		23.2	41	-	0.2	-	-	-	8.2	-	-	-	-	-	-	-	-	-	5.2	0.2	0.4	-	-	9.0	-	-	-	-	-	-	-	-	-	-	-	-	
052088 Walgett Airport AWS		73.6	-	1.2	-	15.2	-	1.8	-	-	-	-	-	3.0	-	-	-	-	1.6	-	6.4	-	0.8	38.6	0.2	-	-	-	-	-	-	1.8	0.2	2.8	-	-	
053115 Moree Aero		139.8	-	-	-	34.0	1.0	5.2	-	1.0	-	-	-	0.8	-	-	-	15.0	4.6	-	14.2	7.8	0.2	49.2	1.2	-	-	-	-	-	-	-	5.4	0.2	-	-	
054038 Narrabri Airport AWS		166.0	-	-	-	39.4	-	6.2	0.2	-	-	-	-	-	-	-	-	1.4	20.0	-	-	-	0.4	61.4	0.2	-	-	-	-	4.6	2.2	4.2	25.6	0.2	-	-	
055325 Tamworth Airport AWS		223.6	-	-	-	19.0	-	18.8	-	-	-	-	-	0.8	0.2	-	-	15.0	33.6	4.6	4.2	-	2.0	92.2	1.2	-	-	-	2.0	10.2	1.0	18.8	-	-	-	-	
056242 Inverell (Raglan St)		157.5	-	-	4.8	30.2	-	11.4	0.2	2.2	-	-	2.8	0.8	1.2	0.2	7.6	-	50.8	8.1	5.2	-	0.4	20.8	0.8	-	-	-	0.6	-	3.0	1.2	5.2	-	-	-	
057095 Tabulam (Muirne)		390.8	0.4	-	6.0	16.2	-	36.4	1.2	2.4	-	-	2.8	27.0	62.4	42.8	68.4	1.6	13.0	34.6	20.0	2.6	26.8	-	-	0.2	-	10.2	-	-	-	5.8	10.0	-	-		
058012 Yamba Pilot Station		253.4	135	-	-	1.8	1.4	-	1.2	0.4	4.6	-	-	44.2	50.0	26.0	66.8	13.6	9.4	20.2	2.0	0.2	7.8	0.2	-	-	-	-	-	-	-	2.0	1.6	-	-		
060139 Port Macquarie Airport AWS (Comparison)		407.0	-	3.4	1.8	4.4	-	3.4	-	-	-	-	23.0	82.2	1.0	5.0	30.2	131.4	1.2	1.2	23.8	8.4	9.0	41.6	-	-	-	5.2	10.8	14.6	-	3.4	2.0	-	-		
061078 Williamtown RAAF		156.2	83	-	12.0	-	-	12.0	-	-	-	-	1.0	-	-	-	5.4	14.8	-	13.6	8.0	5.0	3.0	48.6	0.2	-	-	-	1.8	0.2	24.0	0.2	6.4	-	-		
061363 Scone Airport AWS		120.6	-	1.8	-	2.0	-	20.8	0.2	-	-	-	-	0.2	-	-	2.4	5.2	8.2	0.2	18.0	-	1.4	39.4	1.8	-	-	-	3.4	-	15.2	0.4	-	-	-	-	
062101 Mudgee Airport AWS		113.0	-	3.4	-	-	-	19.8	-	-	-	-	-	-	-	-	-	-	8.8	-	9.0	-	-	28.8	0.2	-	-	0.4	-	35.6	7.0	-	-	-	-		
063005 Bathurst Agricultural Station		47.2	63	-	4.6	-	-	15.4	-	-	-	-	-	-	-	-	-	-	»	»	»	»	4.6	22.6	-	-	-	-	-	-	-	-	-	-	-	-	
063254 Orange Agricultural Institute		114.8	72	-	6.8	-	-	»	»	33.0	0.4	-	-	-	-	-	-	0.4	19.0	2.8	-	-	-	27.8	-	-	-	»	»	»	0.4	24.2	-	-	-	-	
064008 Coonabarabran (Showgrounds)		170.1	71	-	-	14.4	-	16.6	-	-	-	-	-	-	-	-	-	4.0	26.4	8.6	8.4	-	3.8	57.8	0.2	-	-	-	0.9	2.2	20.8	6.0	-	-	-	-	
065070 Dubbo Airport AWS		120.6	-	4.0	0.2	-	-	23.2	-	-	-	-	-	-	-	0.4	-	26.8	9.0	7.2	-	-	20.4	-	-	-	-	-	-	-	-	29.2	0.2	-	-		
066214 Sydney (Observatory Hill)		119.0	-	6.8	0.6	-	-	6.2	-	-	-	-	-	1.6	1.6	3.6	11.6	12.2	0.2	-	1.4	7.0	1.6	26.2	-	-	0.6	0.8	3.6	-	14.0	19.2	0.2	-	-	-	
067105 Richmond RAAF		122.2	-	13.4	3.0	-	0.2	5.0	-	-	-	1.0	0.2	0.2	2.8	3.8	9.6	8.0	-	2.6	5.2	0.2	21.0	-	-	-	3.4	2.2	-	23.4	15.0	2.0	-	-	-	-	
068072 Nowra RAN Air Station AWS		76.6	0.6	5.0	0.6	-	-	0.6	-	-	-	-	3.8	-	3.2	7.6	0.6	18.0	10.0	1.8	-	0.2	1.4	10.4	-	-	0.4	-	-	-	10.0	0.8	1.6	-	-	-	
068151 Jervis Bay (Point Perpendicular)		76.4	-	-	-	-	-	0.2	-	0.4	-	-	-	5.4	0.4	0.4	32.8	10.6	1.6	-	0.4	-	16.0	-	-	-	1.0	-	-	-	3.2	4.0	-	-	-	-	
068241 Albion Park (Shellharbour Airport)		75.6	-	5.2	2.8	-	-	-	-	-	-	-	-	1.6	4.0	3.2	25.0	0.6	3.0	-	-	-	21.2	-	-	-	-	-	2.4	-	4.6	2.0	-	-	-	-	
069018 Moruya Heads Pilot Station		247.6	77	-	-	-	-	1.0	-	3.2	-	-	-	4.8	0.8	-	82.8	55.0	0.6	0.2	0.6	1.2	8.0	4.2	2.4	4.2	24.0	49.4	0.8	4.2	0.2	-	-	-	-		
070351 Canberra Airport		41.4	-	2.6	-	-	-	12.0	-	0.4	0.2	-	0.8	-	0.8	-	2.0	3.8	0.2	-	-	-	18.4	0.2	-	-	-	-	-	-	-	-	-	-	-	-	
071041 Thredbo Village		104.0	-	2.6	-	-	-	40.2	9.5	14.2	0.2	-	-	-	-	-	3.4	5.8	12.7	-	-	-	9.2	5.0	-	-	-	-	-	0.8	0.4	-	-	-	-	-	
072150 Wagga Wagga AMD		61.8	49	-	-	-	-	23.2	-	1.0	-	-	-	-	-	-	-	23.6	-	-	-	-	13.0	1.0	-	-	-	-	-	-	-	-	-	-	-	-	
072160 Albury Airport AWS		73.8	-	0.2	-	-	-	15.4	-	3.6	-	-	-	-	-	-	-	1.4	50.2	-	-	-	2.4	0.4	0.2	-	-	-	-	-	-	-	-	-	-	-	
072161 Cabramurra SMHEA AWS		102.6	-	-	-	-	-	36.2	2.8	13.0	-	-	-	-	-	-	-	0.4	31.0	1.8	-	-	12.6	4.8	-	-	-	-	-	-	-	-	-	-	-	-	
073054 Wyalong Post Office		27.1	50	-	-	-	-	12.7	-	1.0	-	-	-	-	-	-	-	1.0	6.6	-	-	-	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	
074258 Deniliquin Airport AWS		8.2	-	-	-	-	-	2.8	-	-	-	-	-	-	-	-	-	0.2	-	-	-	-	3.8	1.4	-	-	-	-	-	-	-	-	-	-	-	-	
Victoria		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	31			
076031 Mildura Airport		8.6	22	-	0.2	-	-	-	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6	-	-	-	-	-	-	-	-	-	-	-	-	-
077008 Birchip (Woodlands)		1.8	25	-	-	-	-	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
078015 Nhill Aerodrome		32.4	0.6	1.6	-	0.2	-	2.4	1.4	0.8	0.2	-	-	-	-	-	-	20.4	0.2	-	-	-	4.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
080023 Kerang		47.4	28	-	-	-	-	4.2	-	0.4	-	-	-	-	-	-	-	-	35.2	-	-	-	7.4	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-
081123 Bendigo Airport		23.0	-	2.2	-	-	-	8.2	0.4	0.4	0.2	-	-	-	-	-	-	-	0.2	0.2	-	-	8.8	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-
082039 Rutherglen Research		24.8	46	-	0.2	-	-	9.8	0.4	0.6	-	-	-	-	-	-	-	-	11.4	-	-	-	1.6	0.8	-	-	-	-	-	-	-	-	-	-	-	-	
083085 Mount Hotham		37.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.8	-	-	-	11.2	7.6	-	-	-	-	-	1.6	-	-	-	-	-	-	
084016 Gabo Island Lighthouse		91.8	82	-	-	-	-	3.4	-	5.4	0.2	0.4	-	-	-	0.4	-	-	11.4	-	-	0.8	27.6	37.4	2.8	-	-	2.0	-	-	-	-	-	-	-	-	
084145 Orbost		60.4	-	0.6	-	-	-	2.0	-	1.2	-	0.8	1.0	-	-	-	-	»	11.4	4.6	-	3.6	6.6	10.4	17.8	0.2	-	0.2	-	-	-	-	-	-	-	-	
085072 East Sale		54.6	58	-	0.4	-	-	3.0	2.0	-	-	-	-	-	-	-	-	0.2	15.8	17.2	-	-	2.0	10.6	-	-	-	-	3.2	-	-	0.2	-	-	-	-	