



## SIGNIFICANT WEATHER – January 2004

### SUMMARY

A deep monsoon low developed in the Gulf of Carpentaria mid month and spread flooding rains through Queensland's northwest and interior as it moved across the state and into New South Wales, breaking many long standing record totals.

Over the period 24 to 31 January a blocking weather pattern became established over southeast Australia and the Tasman Sea. From the 24th to 26th a ridge of high pressure extended south of Tasmania over to New Zealand. This placed Brisbane in a hot humid north to north westerly air stream for the week. These conditions produced a succession of severe thunderstorms causing widespread damage in southeast Queensland.

Birdsville Police Station in Queensland's southwest recorded their hottest January average maximum of 41.8°C and also the highest average January minimum on record with 27.3°C. During the first 6 days of January the maxima was over 45°C and on the 5th and 6th they had their highest ever daily maximum temperature with 48.5°C. 24 days in the month were higher than 40°C.

The Sydney observation site recorded 8 days of thunder heard during January, equal highest on record with 1958. It was the stormiest month since November 1976. Sydney also recorded 10 days of lightning, the highest for January since 1933.

### TROPICAL CYCLONES

#### Western Australia

On the 1st a low originating from the Top End moved off the Kimberley coast travelling westwards. The system reached gale force intensity for a brief time on the 4th and was named tropical cyclone *Ken*.

A tropical low developed on the 28th near 5°S 90°E and moved to the southeast. The low reached cyclone intensity on the 30th passing within 130 kilometres of Cocos Islands. Tropical cyclone *Linda* then moved on a southerly track. The system decayed on the 1st of February about 820 kilometres south-southwest of Cocos Islands.

### THUNDERSTORMS

#### Queensland

On the 24th a severe storm affected the Gold Coast. Trees were felled in the Currumbin Valley area. The Coolangatta airport automatic weather station recorded a wind gust of 74km/h. The Gold Coast Seaway (AWS) recorded a gust of 87km/h. Storms then moved northwards through Ipswich and greater Brisbane. Heavy rainfall, flash flooding and wind damage to trees was reported from a number of areas. A few houses were unroofed by wind at Ipswich and golf ball sized hail was also reported. Flash flooding was reported from Fortitude Valley, Woolloongabba, Oxley and Coorparoo. Several motorists needed to be rescued from their cars in floodwater. Other areas to be affected by storms include Warwick where golf ball sized hail was reported from a storm in the area and Kenilworth in the far north of the Southeast Coast, where trees fell on caravans at a campsite.

On the 25th a severe storm developed southwest of Ipswich and moved through Ipswich, southern Brisbane suburbs and the Brisbane CBD. The AWS at Amberley RAAF base recorded a wind gust of 111km/h and sustained a wind of 100km/h for a 10 minute period. At Bundamba (near Ipswich) a tornado and golf ball sized hail were reported. A partially built house in Bundamba was destroyed and there was considerable tree damage reported from Bellbowrie (northeast of Bundamba). A man survived after being struck by lightning in a park in Brisbane's inner south.

On the 26th strong winds were reported from the Town of 1770 and 50 cent piece sized hail was reported from Calliope (southwest of Gladstone). Storms also developed in the Southeast Coast district where warnings were issued for the Ipswich, Jimboomba and Beaudesert areas as well as areas immediately west of Greater Brisbane. Golf ball sized hail was reported from Ipswich.

On the 27th marble to 20 cent piece sized hail was reported at Gatton.

On the 28th severe thunderstorms in southeast Queensland caused widespread damage. Hundreds of trees and power lines were brought down and power losses were very severe with 90,000 houses losing power. In the Nanango region there was heavy rain with wind causing damage to trees. Severe wind gusts were: 148 km/h south of Toowoomba and 120 km/h at the Archerfield Aerodrome Tower. Other severe wind gusts included Archerfield 102 km/h, Double Island Point 98 km/h, Warwick 91 km/h, Toolara 91 km/h, Brisbane Airport 84 km/h, Kingaroy 81 km/h and Amberley 74 km/h.

There were two reports of large hail from the Sunshine Coast region, one of golf ball size hail at Kawana Waters and the other cricket ball size hail near Caloundra.

A series of storms affected the Southeast Coast and Wide bay districts during the early afternoon of the 30th. A man was killed (near Gympie) by a lightning strike. A man died in a traffic accident to the north of Maroochydore Airport and two nine year old students were injured by a falling tree at the University of

Queensland's St Lucia campus. A block of units in inner-city New Farm lost its roof and an apartment building at Woodridge, south of Brisbane was also damaged. The storms uprooted trees and brought down power lines across Brisbane Redlands and Pine Rivers. Throughout the Brisbane area hundreds of houses were damaged by wind and falling trees and 121,000 homes lost power. The strongest winds were recorded from Banana Bank AWS on Moreton Bay near Cleveland with gusts to 122km/h. Brisbane recorded 83km/h, Brisbane Airport 89km/h, and Cape Moreton 102km/h.

On the 31st large hail was reported at Maryborough with 15 houses and other buildings damaged. Wind gusts reached 84km/h at Double Island Point. Rockhampton recorded gusts to 104km/h which caused damage in the city.

## **New South Wales**

Three people were injured by lightning strikes on the 6th at Williamstown, Muswellbrook and Hawks Nest in the Hunter region.

On the 7th storms caused damage at many places including Port Macquarie, Nambucca Heads, Armidale and Manilla as well as causing power blackouts to 12,000 homes between Maitland and Nelson Bay.

On the 13th at Grenfell (Central Tablelands) heavy rain was experienced with 20mm falling in 15 minutes.

Late on the afternoon of the 21st a storm damaged roofs and felled trees at Wanaaring and that night similar damage was caused in the Bateman's Bay area.

On the night of the 22nd/23rd storms brought down power lines in the Hunter Valley.

On the 23rd at Dubbo (Central West Slopes) large marble sized hail was experienced.

On the 24th a man was killed by lightning while playing cricket at Bomaderry (near Nowra) while storms in the Sydney area caused some power blackouts. Two others were injured in Nowra and another was injured by lightning at Gosford (Central Coast). Also on the same day lightning caused power outages to 8,000 homes in New South Wales. A total of

44,580 lightning strikes were recorded in New South Wales over a 12 hour period during the 24th.

On the 24th at Corndale (Northern Rivers) heavy rain (54mm) fell in 30 minutes. At Gloucester (Mid-North Coast) 2cm hail occurred. At Albion Park (Illawarra) 20 cent piece sized hail was experienced. At Shell Harbour (Illawarra) 2cm hail occurred. At Robertson (Illawarra) hail 2-3cm in diameter occurred. At Orama (Mid-North Coast) golf ball sized hail was experienced.

On the 25th at Currabubula (North West Slopes) hail 5cm in diameter was experienced.

On the 26th at Gloucester golf ball sized hail occurred.

On the 27th at Bowral (Illawarra) hail 2cm in diameter occurred. At Singleton (Hunter) hail up to 7cm in diameter occurred in the area and at Lismore (Northern Rivers) hail 3cm in diameter was experienced.

On the 28th at Colo Heights (Metropolitan) hail 2.5cm in diameter occurred. At Wisemans Ferry (Hunter) hail 2 to 2.5cm in diameter occurred. At Coffs Harbour (Mid-North Coast) hail 2cm in diameter and hail up to 5cm at Korora, near Coffs Harbour, was experienced.

On the 30th at Batemans Bay (South Coast) hail 2.2cm in diameter was experienced. At Evans Head (Northern Rivers) golf ball sized hail was experienced and a tornado was sighted. At Drake (Northern Tablelands) hail 4cm in diameter occurred.

## **Victoria**

On the 4th a squally front with associated thunderstorms moved across Victoria. Wind damage brought trees and powerlines down in Golden Square, Bendigo, during the morning. Severe winds also caused damage to trees and buildings at Bemm River in the early afternoon. The strongest wind gusts across the state were 107km/h at Wilsons Promontory, 106km/h at Eildon, 98km/h at Aireys Inlet and 90km/h at Bairnsdale.

On the 7th a squally front moved across Victoria accompanied by severe wind gusts. The

strongest gusts were 107km/h at South Channel Island, 98km/h at Dunns Hill, 96km/h at Wilsons Promontory and Mt Hotham and 93km/h at Mt Buller.

Severe thunderstorms on the 16th occurred in the northeast of the state during the afternoon and evening. Heavy rainfall was reported at Chiltern and Bright while 11.2mm fell at Myrtleford in 30 minutes causing flash flooding. Lightning from the thunderstorms also caused a number of fires in the area.

On the 21st severe thunderstorms occurred in the east of the state during the afternoon. Albury airport received a 95km/h wind gust as a storm moved over the area. Severe wind gusts were reported at a number of locations during the afternoon including 100km/h at Mt Hotham, 91km/h at Mt Buller and 93km/h at Falls Creek.

On the 22nd roofs were lifted off two homes in St Albans Park, Geelong, during the afternoon. This is most likely due to a localised wind gust.

Severe thunderstorms on the 29th developed over the Bellarine Peninsula and Deer Park. These storms were very slow moving and heavy rainfall from them resulted in flash flooding. 28mm of rain was recorded in an hour at Drysdale and 66mm of rain was produced in an hour at Deer Park. Further severe thunderstorms developed over the northeast and eastern suburbs of Melbourne during the afternoon. One cell over Dunns Hill resulted in 46mm of rain in an hour while the storms in the Kew area resulted in 66mm of rain in 90 minutes. There was extensive flash flooding with damage to cars, homes and businesses, especially in the Kew/Glenferrie area. Large amounts of hail were reported in Kew. Severe thunderstorms also occurred in Gippsland during the afternoon with 35mm of rain recorded in 35 minutes at Heyfield and 50mm of rain recorded in 90 minutes at Rosedale.

On the 30th severe thunderstorms developed over Port Phillip Bay then moved northward affecting Sandringham and Moorabbin before continuing over the city and inner suburbs. Rainfall totals from the early morning storms were around 50-70mm in an hour causing flash flooding and traffic chaos.

The highest 24hr rainfall totals to 9am around Melbourne were: Kew (91.4mm), Deer Park (71.4mm), Brighton (69mm), Oakleigh South (56.2mm), Kinglake (55.6mm), Geelong Airport (54mm), St Kilda Marina (53mm), Sandringham (49.2mm), Dunns Hill (46.2mm), Hampton (45.4mm, Chandler Highway (45mm), Lilydale Lake (44.2mm), Cheltenham (43mm), Burnley (42.8mm), and Melbourne city (42.4mm). Further severe thunderstorms developed in the central and eastern parts of the State during the afternoon and 18.2mm of rain was recorded in 15 minutes at Myrtleford due to a thunderstorm.

On the 31st severe thunderstorms occurred in the far east of Victoria with Mallacoota receiving 34.6mm in 60 minutes. Noojee received 46mm in 2 hours during the afternoon.

## **Western Australia**

On the 4th afternoon thunderstorms caused wind damage at Bunnawarra and Thundelarra stations in the Murchison.

On the 23rd an afternoon severe thunderstorm caused a considerable amount of tree damage east of Derby. Trees were uprooted, snapped in half or twisted apart.

On the 25th morning thunderstorms caused heavy rain along the central Southern Coastal district. Hopetoun registered 45mm of rain in just over three hours.

On the 29th a thunderstorm uprooted large trees, lifted tiles off several houses and caused hail reportedly the size of cricket balls near Borden in the Central Wheat Belt.

## **Northern Territory**

An afternoon thunderstorm on the 1st produced wind gusts to 89km/h at Yulara AWS.

On the 4th an afternoon thunderstorm produced a wind gust of 98km/h at Tennant Creek Airport and 38mm of rain in 50 minutes. Trees were felled and power supplies interrupted in Tennant Creek town.

A long-lived continental squall line formed in the Gulf country late on the 5th

affected most of the southern and western Top End overnight and early on the 6th. Wind gusts of 124km/h were recorded at Bradshaw AWS, 87km/h at Borroloola AWS and 83km/h at Delamere AWS. Intense lightning and strong winds damaged trees at Bradshaw, Delamere, Kidman Springs and Top Springs pastoral stations and also in Timber Creek town.

On the 6th around 90 minutes of strong to gale force northwest winds and wind gusts to 98km/h were recorded at Charles Point AWS, west of Darwin. Also on the 6th an afternoon thunderstorm downburst broke tree branches and dislodged a roof air conditioner duct in Alice Springs.

On the 9th strong winds associated with a monsoonal squall line destroyed a marquee valued at \$700,000 at East Arm Port in Darwin Harbour. The same squall line blew restaurant furniture over in Darwin city and produced large waves, which disabled a small fishing boat near Gunn Point.

On the 12th strong winds associated with a monsoon squall line felled trees in Darwin suburbs. Heavy rain caused flash flooding and damaged roads. Significant 24 hour totals included Coconut Grove 150mm, Geriatric Park 129mm, Dum-in-Mirrie Island 122mm, Charles Point 120mm, Darwin Hospital 110mm, Lee Point 107mm and Darwin Airport 100mm.

On the 17th an evening thunderstorm produced wind gusts to 94km/h at Centre Island AWS in the southern Gulf of Carpentaria.

Afternoon thunderstorms also produced wind gusts of 91km/h at Victoria River Downs on the 24th.

On the 28th 102km/h wind gusts were recorded at Wulungurru (Kintore) in the northwest Alice Springs District.

## **Tasmania**

The north of the State was affected by thunderstorm activity on the 27th and 28th, with widespread flash flooding and power blackouts.

<b>WIND</b>
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## **New South Wales**

Winds greater than 90 km/h were experienced on:

- 7th Paterson 122km/h,  
Scone 117km/h,  
Murrurundi 98km/h,  
Thredbo and Port Macquarie 91km/h,
- 10th Narrabri 105km/h.
- 13th Thredbo 100km/h.
- 20th Thredbo 98km/h.
- 21st Montague Island 115km/h,  
Thredbo and Albury 94km/h,  
Cabramurra 91km/h.
- 24th Newcastle and Williamtown 98km/h,  
Badgerys Creek 96km/h.

<b>FLOODING</b>
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## **Queensland**

The rainfall in the western part of the state resulted in widespread flooding in 13 river basins stretching from Nicholson/Gregory basin in the northwest to the Border Rivers in the southeast.

### *Fitzroy River:*

Minor flooding occurred in the Nogoia River above Fairbairn Dam with the river at Raymond reaching two separate peaks just under the minor flood level, firstly on the 11th and then again on the 16th. There was no spillage from Fairbairn Dam.

At the same time, major flooding occurred along the Comet River with a peak above the major flood level occurring at Rolleston on the 18th. Runoff from this system coupled with local inflow resulted in minor flooding along the upper Mackenzie River to its junction with the Connors River during the period.

The Dawson River at Taroom started rising on Saturday 17th January and peaked on Tuesday 20th resulting in moderate flooding in the area. Rises up to minor flood level occurred along the Dawson River to Newlands during the following week.

### *Condamine-Balonne River*

Until 14th January, rainfall throughout the Condamine-Balonne system had been relatively light. However, in the 24 hours to 9am 14th January, a band of heavy rain with totals up to 100mm, was recorded in a band from Roma to Glenmorgan. This caused rapid river rises up to major flood levels in the Balonne River at Warkon and Surat within 2 days.

During the following days, rainfall in the system was more widespread and resulted in minor to moderate flooding in the Condamine, Balonne and Maranoa systems, which continued until the end of the month. The initial flood peak reached St George on 22nd January causing major flooding but flooding continued until the end of the month.

### *Border Rivers*

Minor flooding occurred along the Macintyre River in New South Wales around 17th January. Coupled with minor flooding in the Macintyre Brook and runoff from the Dumaresq River, this caused a moderate flood at Goondiwindi on Monday 19th January.

Flooding in the Weir River system first developed on Saturday 17th January at O'Connor with moderate to major flood levels being recorded in the upper reaches down to Gunn Bridge on Monday 19th January. High river levels with moderate to major flooding continued downstream to Surrey for the next 5 days but only minor flooding resulted at Talwood.

### *Moonie River*

Moderate flooding developed in the middle reaches of the Moonie River around Flinton following a few days of heavy rain and extended down to Fenton, near the New South Wales border, by the 24th January.

### *Warrego River*

There were several rainfall episodes during January in the Warrego system, which resulted in flooding at different parts of the catchment at different times. Moderate flooding occurred at Charleville on 17th January. Moderate flooding occurred in the upper Warrego River at Augathella on Sunday 18th January and in the Nive River at Biddenham at

the end of the month. These floodwaters coupled with runoff from the Ward and Langlo system, caused moderate flooding along the main Warrego River from Bakers Bend to Cunnamulla with minor flooding still continuing at the end of the month.

#### *Paroo River*

Rainfall totals up to 150mm were recorded in the Paroo River above Eulo in the 48 hours to 9am 17th January. This resulted in major flooding along the Paroo River from Humeburn to Hungerford. The Paroo River at Humeburn peaked on Sunday 18th January and the main floodwaters did not reach Hungerford until Saturday 24th January. At Eulo, it was the highest flood since April 1990.

#### *Bulloo River*

Heavy rain extended from Idalia in the north to Quilpie during the 36 hours to 3pm Friday 16th January with 173mm recorded at Quilpie in the 12 hours ending 3pm Friday 16th. This resulted in rapid river rises from Adavale to Quilpie during the Friday and Saturday 17th January. The peaks recorded at Quilpie on the Saturday and at Thargomindah on Friday January 23rd were the highest since the early 1970s.

#### *Cooper Creek*

Flooding commenced in the upper Barcoo River on Sunday 11th January following heavy localised rain around Tambo in the 24 hours to 9am Sunday. Moderate flooding resulted at Blackall on Monday 12th January. By Tuesday 13th January, the rainfall had become more widespread, extending throughout the Thomson and Barcoo systems.

While only moderate flooding resulted in the Barcoo River at Blackall from 12th to 14th January, downstream flooding was more severe due to high local rainfalls on 12 and 13th January with major flooding occurring along the Barcoo River from Coolagh, near the junction of the Barcoo and Alice Rivers, to Retreat on the lower Barcoo River.

In the Thomson River, river levels commenced to rise on Wednesday 14th from Muttaborra to Jundah. Moderate flooding

developed in the Thomson River with the main floodwaters arriving in Longreach on Sunday 18th January. Downstream of Longreach, heavy local rain caused major flooding to develop at Jundah also on Sunday 18th January. High river levels and moderate flooding continued along the Thomson River from Longreach to Jundah until late January.

#### *Diamantina River*

The rain, which fell in the 3 days ending 16th January, caused major flooding in the upper reaches of the Diamantina River around Elderslie. Moderate to major flooding occurred along the Diamantina River from Tulumur to Monkira during the following weeks and the floodwaters had only commenced to arrive at Birdsville by the end of the month.

#### *Georgina River*

The highest rainfall in the Georgina River was concentrated in the area from Camooweal to Trepell with totals up to 150mm in the 3 days to 16th January. Minor flooding first developed at Urandangie on 15th January and was continuing at the end of January. Downstream from Glenormiston to Glengyle on Eyre Creek, moderate flooding developed in the middle of January and was still continuing at the end of the month.

#### *Nicholson River*

During the period 11th to 15th January rainfall totals of up to 300mm were recorded in the Gregory River system with the lower totals recorded in the Nicholson River. The Gregory River at Gregory Downs reached the highest peak on record at the station with major flooding occurring in the area on 16th/17th January. At Burketown, the Albert River just exceeded the minor flood level some 4 days later.

#### *Leichhardt River*

Rainfall totals up to 350mm were recorded throughout the Leichhardt River in the period between Tuesday evening 13th January to Thursday evening 15th January. This resulted in flash flooding in Mt Isa and major flooding along the Leichhardt River with the main floodwaters reaching Floraville on Monday 19th January.

## Flinders River

Rapid river rises and major were recorded in the Cloncurry River at Cloncurry during Thursday 15th January. Major flooding extended along the Cloncurry River and into the Flinders River with the main floodwaters reaching Walkers Bend around 25th January. Some moderate flooding also occurred in the eastern part of the Flinders system downstream of Richmond.

## New South Wales

On the night of the 12th heavy rain caused local flooding in Tamworth.

Heavy rain in Queensland and northern New South Wales caused minor flooding in the Paroo, Gwydir and Peel Rivers on the 16th and 17th closing the Newell and Gwydir highways. Local flooding of creeks and roads in the Walch area (Northern Tablelands) after 150mm of rain fell in 12 hours. Major flooding was experienced in the Barwon river on the 27th.

On the 29th a flood on the Paroo River isolated Wanaaring.

## Tasmania

The heavy rain experienced over much of Tasmania from the 27th led to flooding on many rivers and streams in the north eastern half of the State. Numerous roads were cut leading to isolation of properties and communities, with damage to some roads, bridges and buildings. Various crops were lost or degraded by the heavy rain and associated flooding. It has been reported that oyster losses from the flooding will cost in excess of a million dollars.

Major flooding affected the middle reaches of the South Esk, with moderate flooding in the upper and lower reaches. Peaks were reported of 7.1 metres at Fingal on the 30th, 9.3 metres at Llewellyn, 8.0 metres at Perth about 8am on the 31st, and 4.5 metres at Longford on the 31st.

## BUSHFIRES

## New South Wales

Several bushfires in the Sydney region on the 8th and 9th threatened houses. The largest fire was in Ku-ring-gai Chase National Park in Sydney's northern outskirts.

## Queensland

The National Parks and Wildlife reported a large fire north of Gatton which burnt around 1,000 hectares of bushland before rain on the 14th enabled them to bring the fire under control

## Tasmania

Many fires occurred across Tasmania before substantial rain fell over the last few days of the month. The main fires reported were 4,260ha near Lackrana on Flinders Island, 4,070ha near Oakwood on the Tasman Peninsular, 1,860ha near Nunamara and 1,750ha at Holder Spur.

## TEMPERATURE

### Highest Mean Maximum Temperature for January

Station	Actual °C	Previous Highest °C	Year	Years of Record
<b>Queensland</b>				
Birdsville Police Station	41.8	41.7	1969	48
Cape Moreton Lighthouse	28.6	28.3	2003	90
<b>New South Wales</b>				
Alstonville	29.5	29.5	1975	36
Gosford	29.8	29.7	2001	50
<b>Western Australia</b>				
Yeelirrie	40.4	40.3	1999	30

### Lowest Mean Maximum Temperature for January

Station	Actual °C	Previous Lowest °C	Year	Years of Record
<b>Western Australia</b>				
Albany Airport	22.0	22.2	2002	38
Esperance	23.9	24.2	1987	34
Ongerup	25.9	26.5	2000	37
Ravensthorpe	25.9	26.8	2000	42

#### Highest Mean Minimum Temperature for January

Station	Actual °C	Previous Highest °C	Year	Years of Record
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#### Queensland

St Lawrence PO	24.2	24.2	1987	64
Birdsville Police Station	27.3	27.2	1999	47

#### Nambour DPI

#### New South Wales

Tabulam (Muirne)	18.5	18.4	1987	33
Casino Airport	21.3	20.6	1942	96

#### Northern Territory

Maningrida	25.6	25.5	1971	35
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#### Highest Daily Maximum Temperature for January

Station	Actual °C	Date	Previous Highest °C	Year	Years of Record
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#### Queensland

Birdsville Police Station	48.5	06	48.0	1988	47
Cape Moreton Lighthouse	31.9	29	31.3	1977	47

#### Highest Daily Minimum Temperature for Any Month

Station	Actual °C	Date	Previous Highest °C	Year	Years of Record
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#### Queensland

Amberley AMO	26.9	08	25.8	1983	62
Texas PO	27.9	07	27.2	1994	33
Stanthorpe (Granite Belt Hrs)	22.0	07	21.8	1979	34

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#### Queensland

Baralaba PO	26.6	08	26.5	1995	37
Amberley Airport	26.9	08	25.8	1983	62
Texas PO	27.9	07	27.2	1994	33
Stanthorpe (Granite Belt Hrs)	22.0	07	21.8	1979	34
Cunnamulla PO	33.6	07	32.2	1967	46

#### New South Wales

Collarenebri	32.3	07	28.6	1975	30
Mungindi	31.5	07	30.1	1993	39
Barraba	28.3	07	26.1	1980	37
Pindari Dam	25.2	07	24.8	1994	32
Gunnedah	31.0	07	30.6	1952	56
Casino	28.4	08	28.0	1994	39
Grafton	27.4	08	26.9	1994	37
Coffs Harbour	26.7	08	26.4	2002	52
Taree	25.9	08	25.6	1987	39

#### Western Australia

Leonora	33.5	02	33.0	1987	47
Meekatharra A/P	32.9	03	31.7	1991	53

#### Northern Territory

Curtain Springs	31.2	05	31.0	1998	37
Jervois	33.0	07	31.2	1994	32

#### Lowest Daily Minimum Temperature for January

Station	Actual °C	Date	Previous Lowest °C	Year	Years of Record
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#### New South Wales

Murrurundi	4.2	09	4.5	2002	39
Jerry Plains	7.7	09	7.8	1965	47

#### Tasmania

Bushy Park	0.2	19	0.6	2000	70
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## RAINFALL

#### Highest Monthly Rainfall on Record for Any Month

Station	Actual mm	Previous Highest mm	Year	Years of Record
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#### Queensland

Spring Creek Station	320.4	318.0	1974	53
Mount Kingsley	263.8	261.6	1974	40
Cometside	278.0	229.4	2002	31
Austral Park	244.0	206.9	1974	35
Bogewong	282.8	207.8	1991	44
Blackall Township	395.2	339.0	1941	125
Stonehenge	306.6	248.6	1930	69
Regleigh	247.8	226.4	1974	54
Carella Station	242.8	185.4	1991	30
Proston PO	279.9	235.4	1942	67
Oxley Golf Range	280.6	272.8	1996	32
Wambo Shire Council	210.8	199.4	1996	45
Stanthorpe (Granite Belt Hrs)	232.6	222.2	1987	35
Whittaker	211.8	211.4	1974	46

Tosari	219.0	206.5	1996	46
Hannaford PO	242.6	239.0	1996	71
Cheepie PO	333.0	275.5	1954	61
Bulgroo Station	314.5	299.6	1974	110

East Sassafras	181.4	138.8	1996	33
Evandale	111.8	87.5	1963	33
Gray	555.2	323.6	1991	33
Loila Pinnacle	394.0	370.0	1995	31
Upper Blessington	230.6	156.6	1996	31
<b>Western Australia</b>				
Ella Valla	227.4	94.6	1990	45

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<b>Queensland</b>				
Spring Creek Station	320.4	318.0	1974	53
Mount Kingsley	263.8	261.6	1974	40
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<b>Tasmania</b>				
Frankford	195.8	156.6	1996	111
Latrobe	162.4	133.5	1938	104
Mathinna	291.2	195.9	1937	103
Cranbrook	191.4	173.6	1995	102
Osterley	124.2	116.8	1941	91
Cape Barren Island	199.6	150.4	1998	86
Waddamana	185.5	126.8	1937	78
Gladstone	236.2	193.6	1995	77
Hillwood	178.2	163.8	1996	74
Boobyalla	143.8	117.6	2000	71
Victoria Valley	163.4	143.0	1937	67
Dunorlan	227.6	180.0	1996	53
Woodbridge	129.6	124.0	1997	53
South Mount Cameron	205.8	205.8	1995	48
Lake Echo Power Station	204.4	111.6	1995	46
Snug Plains	243.6	236.8	1970	44
Waterhouse	123.4	92.8	1998	44
Devonport Airport	161.4	117.1	1979	41
Pyengana	402.2	322.4	1995	41
Parkham	172.6	170.6	1996	40
Forthside	164.6	155.4	1996	39
Tomahawk	135.0	118.0	2000	39
Western Creek	220.1	197.2	1996	39
Barrington	199.2	184.4	1996	38
Fern Tree	250.2	210.0	1970	37
Weetah	193.2	182.4	1996	37

### Lowest Monthly Rainfall on Record for January

Station	Actual mm	Previous Highest mm	Year	Years of Record
<b>New South Wales</b>				
White Cliffs	0.0	0.0	Numerous	103
Menindee	0.0	0.0	Numerous	128
Broken Hill Airport	0.0	0.0	Numerous	56

### Highest Daily Rainfall on Record for Any Month

Station	Actual mm	Date	Previous Highest mm	Year	Years of Record
<b>Queensland</b>					
Norfolk Station	140.0	14	140.0	2004	35
West Leichhardt St	250.0	15	202.7	1911	82
Mount Isa Mine	196.2	15	148.8	1951	73
Mount Isa Aero	198.0	15	148.8	2001	38
Bruslee	247.0	10	191.6	1983	32
Raymond	184.0	11	168.0	1984	33
Ronlow Park	155.0	16	153.7	1968	43
Moorrinya NP	65.8	15	63.0	1998	77
Cork Station	158.0	15	139.7	1949	97
Retreat (Barcoo R)	135.0	16	124.5	1963	93
Glenhaven	123.0	09	107.2	1970	53
Jackson Postal Agent	140.0	15	118.0	1982	42
<b>Tasmania</b>					
Dunorlan	151.0	28	92.0	1998	54
Devonport	95.4	28	78.4	1998	43
Pyengana	197.0	29	184.0	1986	42
Western Creek	156.4	28	95.4	1997	41
Rushy Lagoon	131.2	28	97.4	1993	40
Weetah	129.2	28	92.8	1988	40
Sandspit River (Ringrove)	100.0	30	100.0	1990	31

### Highest Daily Rainfall on Record for January

Station	Actual mm	Date	Previous Highest mm	Year	Years of Record
<b>Queensland</b>					
Norfolk Station	140.0	14	121.0	1997	35
West Leichardt St	250.0	15	202.7	1911	82
Mount Isa Mine	196.2	15	148.8	1951	73
Mount Isa Aero	198.2	15	85.4	1997	38
Devoncourt Station	167.0	15	149.0	1991	96

<i>Bruslee</i>	247.0	10	110.2	1974	32
<i>Spring Creek Stn</i>	132.4	11	115.2	1984	53
<i>Brigalow Res Stn</i>	102.6	15	92.0	1999	35
<i>Raymond</i>	184.0	11	168.0	1984	33
<i>Mount Kingsley</i>	101.4	11	98.8	1967	40
<i>Yantumara</i>	131.0	15	92.6	1995	32
<i>Waddy Brae</i>	96.6	16	80.3	1967	40
<i>Ghinghinda</i>	107.0	14	104.1	1962	99
<i>Ronlow Park</i>	155.0	16	127.0	1963	43
<i>Moorrinya NP</i>	65.8	15	40.8	1998	77
<i>Cork Station</i>	158.0	15	116.0	1999	97
<i>Tranby</i>	118.0	15	54.0	1999	66
<i>Jundah PO</i>	158.0	16	121.7	1924	112
<i>Retreat (Barcoo R)</i>	135.0	16	124.5	1963	93
<i>Regleigh</i>	125.0	16	61.4	2002	54
<i>Lochiel</i>	100.0	16	90.0	1999	52
<i>Carella Station</i>	105.0	16	64.4	1991	30
<i>Glenhaven</i>	123.0	9	94.0	1996	53
<i>Strathdee</i>	116.8	16	116.8	1974	31
<i>The Overflow</i>	125.0	17	83.5	1992	41
<i>Tosari</i>	112.0	11	74.0	1991	46
<i>Mundgai</i>	72.6	16	72.6	1991	35
<i>Burilda</i>	143.0	14	106.0	1996	46
<i>Drillham PO</i>	125.0	11	119.0	1006	76
<i>Jackson Postal Agent</i>	140.0	15	118.0	1982	42
<i>Wallumbilla PO</i>	128.8	14	104.1	1938	107
<i>Amoolee Forest R238</i>	127.0	14	121.2	1996	80
<i>Warkon</i>	121.2	14	115.2	1974	89
<i>Rosehill</i>	96.6	17	75.2	1976	48
<i>Quilpie Airport</i>	185.9	16	131.1	1941	86
<b>Tasmania</b>					
<i>Frankford</i>	104.8	28	56.9	1899	104
<i>Deloraine</i>	62.6	28	54.9	1952	99
<i>St Marys</i>	162.8	29	158.6	2000	98
<i>Mathinna</i>	146.4	29	95.3	1937	95
<i>Latrobe</i>	88.8	28	66.3	1942	94
<i>Wilmot</i>	65.0	29	61.0	1995	94
<i>Ulverstone</i>	76.2	28	63.8	1991	92
<i>Mole Creek</i>	94.4	28	94.2	1945	89
<i>Waddamana</i>	59.0	28	52.8	1938	79
<i>Meander</i>	79.4	28	55.1	1962	75
<i>Victoria Valley</i>	52.4	28	48.2	1992	68
<i>Tarraleah</i>	67.0	28	44.5	1971	66
<i>Dunorlan</i>	151.0	28	64.5	1942	52
<i>Lorinna</i>	105.0	28	74.9	1937	50
<i>Lake Echo Power Stn</i>	76.8	28	46.0	1990	46
<i>Pyengana</i>	197.0	29	166.0	1995	42
<i>Bracknell</i>	65.0	28	50.4	1996	41
<i>Devonport</i>	95.4	28	43.7	1973	41
<i>Gray</i>	234.2	29	194.8	1991	41
<i>Kimberley</i>	87.2	28	41.2	1991	41
<i>Barrington</i>	94.0	28	49.4	1991	40
<i>Western Creek</i>	156.4	28	65.0	1989	40
<i>Forthside</i>	107.6	28	62.0	1991	39
<i>Rushy Lagoon</i>	131.2	28	65.3	2000	38
<i>Gowrie Park</i>	79.0	28	70.4	1972	37

<i>Weetah</i>	129.2	28	69.6	1973	37
<i>Liena</i>	110.4	28	87.6	1970	35
<i>East Sassafras</i>	87.8	28	48.2	1979	34
<i>Upper Blessington</i>	95.0	29	88.0	1996	32
<i>Sandspit River (Ringrove)</i>	100.0	30	87.2	1995	30
<b>Western Australia</b>					
<i>Ella Valla</i>	176.4	06	39.0	1990	45
<i>Glenvar</i>	38.0	06	33.0	1959	31
<i>Yathroo</i>	55.0	06	37.0	1982	85

*Note: Some statistical records mentioned in this report are based on data that have yet to be fully validated*