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Tuesday, 1 February 2011 - Monthly Climate Summary for Queensland - Product code IDCKGC14R0

Queensland in January 2011: Widespread flooding continued

Special Climate Statement 24 (SCS 24) titled 'Frequent heavy rain events in late 2010/early 2011 lead to widespread flooding across eastern Australia' was first issued on 7th Jan 2011 and updated on 25th Jan 2011.

- High rainfall totals in the southeast and parts of the far west, Cape York Peninsula and the Upper Carpentaria
- Widespread flooding continued
- There was a major rain event from the 10th to the 12th of January in southeast Queensland
- TC Anthony crossed the coast near Bowen on the 30th of January
- The Brisbane Tropical Cyclone Warning Centre (TCWC) took over responsibility for TC Yasi on the 31st of January
- There were 12 high daily rainfall and 13 high January total rainfall records
- Queensland's area-averaged mean maximum temperature for January was 0.34 °C lower than average

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Summary

January total rainfall was very much above average (decile 10) over parts of the Far Southwest district, the far west, Cape York Peninsula, the Upper Carpentaria, the Darling Downs and most of the Moreton South Coast district, with some places receiving their highest rainfall on record.

The current La Niña event, which is one of the strongest on record (see [SCS 24, page 3](#)), has contributed to the extremely wet period experienced in Queensland from late November 2010 to mid January 2011 (see [SCS 24, page 6 and Fig. 2](#)). La Niña events are normally associated with higher than average winter, spring and early summer rainfall over much of Australia. Indeed, Queensland had its wettest spring on record in 2010 (see the [summary](#) at: <http://www.bom.gov.au/climate/current/season/qld/archive/201011.summary.shtml>) and its wettest December on record (see the [December Monthly Weather Review](#) at: <http://www.bom.gov.au/climate/mwr/qld/mwr-qld-201012.pdf>.)

This extremely wet period from late November 2010 to mid January 2011 contributed to widespread flooding of many Queensland rivers. During the second week of January severe flooding (including river and flash flooding) occurred in Brisbane and nearby areas of southeast Queensland. **For more information see [SCS 24, pages 7, 8 and 9.](#)**

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Eleven January [daily rainfall records](#) occurred in the Moreton South Coast district between the 10th and 12th of January (at stations with more than twenty years of data), four of which were also all-time daily rainfall records, and one January daily rainfall record occurred at Cooby Creek Dam in the East Darling Downs district on the 11th.

Queensland's area-averaged mean maximum temperature for January was 0.34 °C lower than average (based on data since 1950). During La Niña events, summer daytime temperatures are often below average, particularly in areas experiencing excess rainfall.

Main Weather Systems

At the beginning of the month a high pressure system in the Tasman Sea extended a ridge along the east Queensland coast. Showers occurred along the east coast, becoming scattered about the Northern Tropical Coast. The monsoon trough through Torres Strait strengthened a little and showers and thunderstorms occurred over much of the tropics. The ridge along the east coast weakened on the 2nd, allowing the monsoon trough to slip southwards onto Cape York Peninsula. On the 2nd and 3rd, showers and thunderstorms occurred about eastern and northern districts and to the east of a trough over the far southwest of the state. On the 3rd, a deep mid-level depression and surface circulation off the southeast Queensland coast drifted south-southeasterly with freshening southeasterly winds about the southeast coast. Showers and thunderstorms occurred across much of the state on the 4th.

Conditions cleared in the southwest on the 5th, while showers and isolated thunderstorms occurred in the high levels of instability ahead of the surface trough. The trough intensified as it moved slowly east and thundery rain areas with some heavy falls developed in the afternoon. An approaching upper level trough increased instability over the southern Queensland interior and occasional thunderstorms developing through the central and southern interior in the afternoon. Thunderstorm cells merged into thundery rain areas with moderate to heavy falls by evening as far north as the southern Central Highlands and Coalfields, spreading east during the evening and overnight.

On the 6th, an upper level low developed over the southeastern interior of Queensland. Scattered showers and thunderstorms occurred to the east of a slow moving surface trough that extended from northwestern Queensland into the Darling Downs. Rain areas and thunderstorms increased through the Southeast Coast District and eastern parts of the Wide Bay and Burnett District during the afternoon, with some heavy falls.

The position of the upper level low close to Rockhampton and a low level trough near Bundaberg on the 7th resulted in a focus of heavy rainfall over the Wide Bay with thunderstorms. The highest daily rainfall total recorded in Queensland during January by the Bureau's regular network was 304.0 mm over the Mary River catchment at Miva in the 24 hours to 9am on the 8th. Thunderstorms also developed in the Capricornia and eastern parts of the Central Highlands. There were some moderate falls during the morning in the southeast as a band of rain and thunderstorms crossed. Wind speeds increased on the southern side of the low over southeast waters.

Heavy rain overnight weakened to showers and isolated thunderstorms before rain areas returned to the Southeast Coast and Wide Bay and Burnett districts from the afternoon of the 8th and increased to moderate to heavy falls at times overnight.

On the 9th, the upper level and surface troughs moved towards the west. Heavy rain areas and thunderstorms occurred about northern and central parts of the Southeast Coast District, southern parts of the Wide Bay and Burnett District, and northeastern parts of the Darling Downs and Granite Belt district. In the 24 hours to 9am on the 10th, Peachester recorded 298.0 mm and Maleny Tamarind St recorded 282.6

mm.

Please see [SCS 24 \(page 4 and a comparison with previous events on page 7\)](#) for further information about the major rain event that brought very heavy rain to southeast Queensland between the 10th and the 12th of January.

TC Vania formed in the Fijian area of responsibility and was named on the 12th of January (see below).

On the 13th, a sharp surface trough was located over the west of the state and a deep northerly flow brought showers, thunderstorms and rain areas to the west and north of the state with some moderate to heavy falls.

On the 14th, this trough moved a little further east with a band of very active showers and thunderstorms through western districts and the southern tropics. TC Zelia formed in the northern Coral Sea and was named on the 14th (see below).

Showers and thunderstorms continued near and to the east of the surface trough located over western Queensland on the 15th, while ridging over southeastern and central parts of the state resulted in mostly fine conditions with only isolated showers near the coast and adjacent inland. The monsoon trough over Cape York Peninsula began creeping south on the 16th, with rain areas and thunderstorms occurring over the tropics. Isolated showers occurred along the east coast. Instability increased further west towards a weak surface trough and isolated afternoon showers and thunderstorms developed east of the trough on the 16th and 17th. Locally heavy activity occurred in the northwest of the state in a convergence zone.

By the 18th the monsoon trough was located at the northern end of the central coast with showers and thunderstorms to its north and some locally heavy falls. The surface trough extended from northwest Queensland to the southeast interior, with scattered showers and thunderstorms occurring to its east. Fine conditions occurred over most of the Channel Country and southwestern Maranoa and Warrego districts in the drier southerly flow. The monsoon trough began to move north on the 21st, contracting activity, and only isolated showers and thunderstorms occurred over the interior of the rest of the state as the surface trough moved west and weakened.

From the 22nd, a middle level ridge over western Queensland resulted in fine conditions over most of the state. The heavy rain and thunderstorms about the monsoon trough and over the northern tropics contracted to over Cape York Peninsula by the 23rd. TC Anthony was named on the 23rd (see below). Daily maximum temperatures increased to up to 6 °C above average in the far southwest of the state in the northwesterly flow ahead of a very slow moving trough over South Australia on the 23rd and the hot conditions continued to spread northeast over the following days (see the maximum temperature section below for more details).

On the 27th isolated showers and thunderstorms developed near the surface trough over the west of the state. The trough weakened by the 30th and maximum temperatures were closer to average, within 2 °C of average over most of the southwest.

TC Anthony crossed the coast near Bowen on the 30th (see below).

At the end of the month, major flooding extended along the Condamine-Balonne Rivers from Warkon to the NSW Border and minor to major flooding was occurring along the Weir River between Surrey and Jericho.

The Brisbane TCWC took over responsibility for TC Yasi at about midnight on the 31st of January (see below).

TC Vania

TC Vania formed in the Fijian area of responsibility and was named on Wednesday the 12th of January. It remained outside the Australian area of responsibility but caused swells to increase about the southeast Queensland coast between the 15th and 17th.

TC Zelia

TC Zelia formed in the northern Coral Sea and was named on Friday the 14th of January. It moved away from the Queensland coast in a generally southeasterly direction. Responsibility for Severe Tropical Cyclone Zelia was transferred to RSMC Nadi on Sunday the 16th of January as it moved into the Fijian area of responsibility.

TC Anthony

TC Anthony formed in the western Coral Sea and was named on Sunday the 23rd of January. It initially moved away from the Queensland coast and weakened below tropical cyclone strength during the afternoon of the 25th of January, then began to move in a generally northwesterly direction. At 12pm on the 28th of January Ex-TC Anthony was renamed. It began to move west/southwest on the 29th and crossed the coast near Bowen just before 10pm on the 30th as a category 2 cyclone. A wind gust of 128 km/hr was recorded at Hamilton Island Airport at 8:11 pm on the 30th. Bands of heavy rain affected the Central Coast and northern Coalfields. The heaviest rainfalls occurred about the Pioneer River catchment. Minor flooding occurred on the Don River and minor to moderate flooding on the Pioneer River.

TC Yasi

TC Yasi formed in the Fijian area of responsibility near the end of January and moved west with the Brisbane TCWC taking over responsibility for it at about midnight on the 31st of January.

Rainfall

The state-averaged Queensland rainfall total for January was 138.26 mm, compared with the long-term average of 126.59 mm.

January total rainfall was very much above average (decile 10) over parts of the Far Southwest district, the far west, Cape York Peninsula, the Upper Carpentaria, the Darling Downs and most of the Moreton South Coast district, with some places receiving their [highest total January rainfall on record](#) and some their [highest total January rainfall for at least 20 years](#).

The highest January rainfall total recorded in Queensland was 993.6 mm at Bellenden Ker Top Stn in the Barron North Coast district, followed by 926.4 mm at Peachester, 902.8 mm at Maleny Tamarind St and 863.4 mm at Eerwah Vale, all in the Moreton South Coast district.

Wallangarra Post Office in the East Darling Downs district and Pinnacle rainfall station in the Maranoa district both had their [lowest total January rainfall on record](#). Several other sites had their [lowest total January rainfall for at least 20 years](#).

The highest daily rainfall total recorded in Queensland during January was 304.0 mm at Miva on the 8th,

followed by 298.0 mm at Peachester on the 10th, followed by 282.6 mm at Maleny Tamarind St on the 10th (all in the Moreton South Coast district). Eleven January [daily rainfall records](#) occurred in the Moreton South Coast district between the 10th and 12th of January (at stations with more than twenty years of data), four of which were also all-time daily rainfall records, and one January daily rainfall record occurred at Cooby Creek Dam in the East Darling Downs district on the 11th.

See a map of [total rainfall](#). See a map of [rainfall deciles](#).

Temperature

The state-averaged mean temperature for January was 28.57 °C, compared with the long-term average of 28.74 °C.

The highest mean temperature was recorded at [Birdsville Airport](#) with 33.7 °C, followed by [Bedourie Police Station](#) with 32.8 °C, followed by [Boulia Airport](#) with 32.2 °C.

The lowest mean temperature was recorded at [Applethorpe](#) with 20.5 °C, followed by [Stanthorpe Leslie Parade](#) with 21.1 °C, followed by [Toowoomba Airport](#) with 21.7 °C.

Maximum temperature

The state-averaged mean maximum temperature for January was 34.46 °C, compared with the long-term average of 34.80 °C.

Daily maximum temperatures were 6 to 8 °C above the January average over the southern Channel Country, Maranoa and Warrego and far southwestern Darling Downs on the 25th in the northwesterly airflow ahead of a slow-moving trough over South Australia. On the 26th, daily maximum temperatures reached 8 to 10 °C above the January average over large parts of the Maranoa and Warrego and southern Channel Country and over the far southwestern Darling Downs and Granite Belt as the trough approached the southwest Queensland border. A small area near the Queensland border was even more than 10 °C above average. On the 27th, daily maximum temperatures were 8 to 10 °C above the January average over large parts of the Channel Country and Maranoa and Warrego. Daily maximum temperatures were 8 to 10 °C above the January average over small parts of the far southwest Channel Country and Maranoa and Warrego on the 28th.

The highest daily maximum temperatures recorded in Queensland during January occurred on the 27th and 28th, with 47.4 °C at [Birdsville Airport](#) and 47.0 °C at [Bedourie Police Station](#) on the 27th, followed by 46.1 °C at [Birdsville Airport](#) on the 28th. Daily maximum temperatures were 4 to 6 °C above average over large parts of the west of the state on the 29th.

The warmest days on average occurred at [Bedourie Police Station](#) with 40.7 °C, followed by [Birdsville Airport](#) with 40.6 °C, followed by [Urandangi](#) with 39.4 °C.

The coolest days on average were at [Applethorpe](#) with 25.5 °C, followed by [Maleny Tamarind St](#) with

25.6 °C, followed by [Toowoomba Airport](#) with 26.0 °C.

The lowest daily maximum temperatures recorded in Queensland during January were on the 6th, with 18.2 °C at [Applethorpe](#), followed by 19.0 °C at [Stanthorpe Leslie Parade](#), followed by 19.4 °C at [Toowoomba Airport](#).

Some sites had their [lowest January mean daily maximum temperature for at least 20 years](#). See a map of [mean maximum temperatures](#). See a map of [maximum temperature anomalies](#).

Minimum temperature

The state-averaged mean minimum temperature for January was equal to the long-term average of 22.67 °C.

Daily minimum temperatures were 6 to 8 °C above the January average over the far southwestern Channel Country on the 25th in the northwesterly airflow ahead of a trough over South Australia, spreading to a large part of the southern Channel Country and a small part of the far southern Darling Downs and Granite Belt on the 26th as the trough approached the southwest Queensland border. This area extended northeast on the 27th and daily minimum temperatures were up to more than 8 °C above average over far southern border regions. On the 28th daily minimum temperatures were 6 to 8 °C above average over the far western Channel Country and parts of far southern interior and more than 8 °C above average over the far southwest. They were more than 6 °C above average over the far southwest on the 29th and 30th.

The coldest night was at [Applethorpe](#) with 12.1 °C on the 24th, followed by [Stanthorpe Leslie Parade](#) with 12.9 °C on the 24th, followed by [Applethorpe](#) with 13.0 °C on the 15th.

The coolest nights on average were at [Applethorpe](#) with 15.7 °C, followed by [Stanthorpe Leslie Parade](#) with 16.2 °C, followed by [Warwick](#) with 17.3 °C.

The warmest nights on average were at [Birdsville Airport](#) with 26.9 °C, followed by [Sweers Island](#) with 26.4 °C, followed by [Morningson Island](#) with 26.0 °C.

The highest daily minimum temperatures recorded in January were 31.8 °C at [Thargomindah Airport](#) and 31.5 °C at [Birdsville Airport](#) on the 28th, followed by 30.8 °C at [Birdsville Airport](#) on the 8th.

Some sites had their [lowest January mean daily minimum temperature for at least 20 years](#). See a map of [mean minimum temperatures](#). See a map of [minimum temperature anomalies](#).

Wind

The strongest wind gust was at [Hamilton Island Airport](#) with 128 km/h on the 30th, associated with TC Anthony, followed by [Mackay M.O](#) with 111 km/h on the 7th, followed by [Double Island Point Lighthouse](#) with 102 km/h on the 9th, followed by [University of Queensland Gatton](#) with 102 km/h on the 12th.

Further information

Media [@ media@bom.gov.au](mailto:media@bom.gov.au) [\(03\) 9669 4057](tel:(03)96694057)

Extremes in January 2011

Hottest day	47.4 °C at Birdsville Airport on the 27th 47.0 °C at Bedourie Police Station on the 27th 46.1 °C at Birdsville Airport on the 28th
Warmest days on average	40.7 °C at Bedourie Police Station 40.6 °C at Birdsville Airport 39.4 °C at Urandangi
Coollest days on average	25.5 °C at Applethorpe 25.6 °C at Maleny Tamarind St 26.0 °C at Toowoomba Airport
Coldest day	18.2 °C at Applethorpe on the 6th 19.0 °C at Stanthorpe Leslie Parade on the 6th 19.4 °C at Toowoomba Airport on the 6th
Coldest night	12.1 °C at Applethorpe on the 24th 12.9 °C at Stanthorpe Leslie Parade on the 24th 13.0 °C at Applethorpe on the 15th
Coollest nights on average	15.7 °C at Applethorpe 16.2 °C at Stanthorpe Leslie Parade 17.3 °C at Warwick
Warmest nights on average	26.9 °C at Birdsville Airport 26.4 °C at Sweers Island 26.0 °C at Mornington Island
Warmest night	31.8 °C at Thargomindah Airport on the 28th 31.5 °C at Birdsville Airport on the 28th 30.8 °C at Birdsville Airport on the 8th
Warmest on average overall	33.7 °C at Birdsville Airport 32.8 °C at Bedourie Police Station 32.2 °C at Boulia Airport
Coollest on average overall	20.6 °C at Applethorpe 21.2 °C at Stanthorpe Leslie Parade 21.7 °C at Toowoomba Airport
Wettest overall	993.6 mm at Bellenden Ker Top Str 926.4 mm at Peachester 902.8 mm at Maleny Tamarind St 863.4 mm at Eerwah Vale
Wettest day	304.0 mm at Miva on the 8th 298.0 mm at Peachester on the 10th 282.6 mm at Maleny Tamarind St on the 10th
	128 km/h at Hamilton Island Airport on the 30th

Highest wind gust	111 km/h at Mackay M.O on the 7th 102 km/h at Double Island Point Lighthouse on the 9th 102 km/h at University of Queensland Gatton on the 12th
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Record highest January daily rainfall

	Highest daily rainfall in January 2011 (mm)		Previous wettest for January		Years of record
Nanango Wills St *	183.8	on the 11th	167.1	on the 20th in 1929	123
Lowood Don St	203.2	on the 12th	194.0	on the 27th in 1974	122
Crows Nest	162.4	on the 11th	142.4	on the 27th in 1974	119
Blackbutt Post Office	149.2	on the 10th	113.8	on the 27th in 1974	96
Hattonvale Store *	228.8	on the 12th	166.6	on the 24th in 1947	94
Peachester	298.0	on the 10th	265.0	on the 27th in 1974	94
Lindfield *	257.0	on the 10th	179.8	on the 20th in 1929	84
Perseverance Dam	150.2	on the 11th	142.6	on the 27th in 1974	40
Embveys Bridge *	147.2	on the 11th	99.0	on the 26th in 1991	35
Corbould Pk Racecourse	142.0	on the 11th	106.0	on the 1st in 1992	25
Cooby Creek Dam *	127.0	on the 11th	53.4	on the 7th in 2005	21
Cressbrook Dam	167.2	on the 11th	57.0	on the 4th in 1996	21

* These were also all-time daily records

Record highest total January rainfall

	Total rainfall for January 2011 (mm)	Previous wettest for January	Years of record	Average for January
Nanango Wills St *	534.6	448.9 in 1890	130	110.9
Lowood Don St *	642.6	588.4 in 1974	123	115.5
Hattonvale Store	447.6	337.9 in 1974	96	112.4
Yarraman Post Office *	533.8	435.0 in 1974	96	116.2
Lindfield *	631.0	581.9 in 1968	89	153.0
Applethorpe	241.0	232.6 in 2004	42	96.3
Oakey Aero *	356.4	213.9 in 1971	41	84.0
Embveys Bridge *	420.2	216.6 in 1996	34	86.4
Boondall	388.8	275.9 in 1996	33	122.6
Corbould Pk Racecourse	629.5	243.0 in 2008	23	144.3
Brisbane RPA Hospital *	307.6	270.6 in 2004	21	117.3

Cooby Creek Dam *	348.4	177.6	in 1996	20	85.6
Cressbrook Dam *	420.8	191.4	in 1996	20	104.9

* These were also all-time monthly records

Highest total January rainfall for at least 20 years					
	Total rainfall for January 2011 (mm)	Most recent January at least this wet	Years since wetter	Average for January	
Killarney Post Office	266.5	284.7 in 1891	120	95.7	
Goomeri Post Office	305.0	342.0 in 1929	79	116.6	
Jandowae Post Office	201.4	237.4 in 1962	49	88.4	
Lanark	184.0	193.4 in 1968	42	81.7	
Alderley	391.0	885.2 in 1974	37	157.9	
Beerburum Forest Station	675.4	1249.6 in 1974	37	194.5	
Canungra Finch Road	356.0	1057.8 in 1974	37	161.3	
Crows Nest	516.2	526.6 in 1974	37	121.7	
Forest Hill	315.4	521.3 in 1974	37	113.9	
Kenilworth Township	580.5	831.2 in 1974	37	189.8	
Long Pocket CSIRO Lab	351.4	710.9 in 1974	37	133.4	
Maleny Tamarind St	902.8	1534.4 in 1974	37	281.1	
Maryborough	288.0	503.6 in 1974	37	163.2	
Moogerah Dam	361.2	567.3 in 1974	37	142.5	
Mt Glorious Fahey Rd	759.0	1895.6 in 1974	37	230.9	
Palmwoods	719.6	811.0 in 1974	37	223.9	
Perseverance Dam	408.6	527.0 in 1974	37	126.1	
Blackbutt Post Office	482.4	583.0 in 1974	36	117.6	
Goomboorian	398.0	672.0 in 1974	36	170.5	
Gympie	433.8	639.8 in 1974	36	163.4	
Haden Post Office	278.1	334.8 in 1974	36	103.8	
Imbil Post Office	453.0	773.8 in 1974	36	174.7	
Mt Nebo Post Office	638.0	1513.6 in 1974	36	191.7	
Pechey Forestry	427.8	522.6 in 1974	36	126.8	
Rosewood Walloon Rd	429.8	757.0 in 1974	36	123.6	
Somerset Dam	388.4	470.9 in 1974	36	130.9	
University of Queensland Gatton	322.0	452.9 in 1974	36	112.7	
Amberley AMO	319.0	635.2 in 1974	35	113.6	
Carneys Creek The Ranch	347.8	454.8 in 1974	35	136.3	
Chinchilla Water Treatment Plant	194.5	202.2 in 1974	35	89.9	
Cooroy Composite	855.1	1213.0 in 1974	35	236.0	
Esk Post Office	478.8	633.0 in 1974	35	131.6	

Gatton Allan Street	379.4	464.2	in 1974	35	118.8
Mt Tamborine Fern St	401.2	402.5	in 1976	35	215.5
Peachester	926.4	1177.3	in 1974	35	242.7
Archerfield Airport	269.4	622.5	in 1974	34	135.0
Mount Joseph	296.0	369.4	in 1976	34	141.3
Redlands HRS	329.6	909.7	in 1974	34	154.3
Rocky Point Sugar Mill	404.0	836.8	in 1974	33	165.7
Grandchester Symes St	520.3	679.4	in 1974	29	135.0
Caltex Refineries (QLD) Ltd	367.7	590.8	in 1982	28	160.7
Glenwood	176.6	236.2	in 1982	28	91.1
Greenbank Thompson Road	274.4	293.4	in 1982	28	112.8
Eromanga - Webber St	137.0	175.0	in 1984	27	41.1
Eumundi - Crescent Rd	820.2	1294.8	in 1974	27	230.7
Highvale	443.2	1286.0	in 1974	26	168.0
Oakington	223.0	253.6	in 1987	24	98.8
Monto Township	184.3	206.4	in 1978	21	109.5
Pittsworth	170.4	236.8	in 1991	20	93.0
Tinaroo Falls Dam	521.7	534.0	in 1991	20	262.9
Walkamin Research Station	423.6	522.6	in 1991	20	220.2

Record lowest total January rainfall

	Total rainfall for January 2011 (mm)	Previous driest for January	Years of record	Average for January
Wallangarra Post Office	2.0	6.8 in 1997	120	99.3
Pinnacle	45.8	50.8 in 1988	42	278.3

Lowest total January rainfall for at least 20 years

	Total rainfall for January 2011 (mm)	Most recent January at least this dry	Years since drier	Average for January
Lorraine	16.0	2.6 in 1988	22	154.9
Mulga Downs	5.0	0.0 in 1989	22	51.5
Fort Constantine Station	15.0	7.0 in 1990	20	132.6

Lowest January mean daily maximum temperature for at least 20 years

	Mean daily maximum temperature for January 2011 (°C)	Most recent January at least this cool	Years since cooler	Average for January
Oakey Aero	29.0	27.9 in 1976	35	30.8

Lowest January mean daily minimum temperature for at least 20 years

	Mean daily minimum temperature for January 2011 (°C)	Most recent January at least this cool	Years since cooler	Average for January
Springsure Comet St	20.2	20.0 in 1986	24	20.8

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Summary statistics for January 2011

	Maximum temperatures for January (°C)				Minimum temperatures for January (°C)				Rainfall for January (millimetres)			
	Mean for January 2011	Diff from average	Highest for January 2011		Mean for January 2011	Diff from average	Lowest for January 2011		Total for January 2011	Average for January	Rank of January 2011	Fraction of January average
North Peninsula (district 27)												
Coconut Island	31.3	-0.5	33.3	12th	25.5	-0.3	23.1	23rd	307.4	276.3	average	111%
Coen Airport	31.6		33.8	7th	23.7		21.6	27th	226.4			
Horn Island	30.6	-0.2	32.5	12th	24.7	-0.5	22.4	24th	461.2	385.0	average	120%
Scherger RAAF	31.2		35.0	29th	23.7		20.1	28th	572.2			
Weipa Aero	31.0	-0.9	34.1	28th	23.8	-0.4	20.8	28th	665.4	463.0	high	144%
South Peninsula (district 28)												
Lockhart River Airport	31.9	+0.3	33.9	17th	23.3	-0.4	19.9	28th	303.6	399.8	average	76%
Musgrave	32.9	-0.3	35.2	7th	23.9	+0.7	21.8	27th	315.5	270.8	high	117%
Palmerville	32.5	-0.8	35.6	28th	23.0	+0.1	19.9	27th	379.8	267.3	high	142%
Lower Carpentaria (district 29)												
Burketown Airport	34.1	+0.4	37.6	29th	25.1	-0.3	22.1	30th	196.2	287.7	low	68%
Century Mine	36.0		40.7	29th	24.2		21.7	25th	224.2			

Cloncurry Airport	36.3	+0.3	40.6	29th	24.4	-0.1	20.1	21st	71.2	190.4	average	37%
Croydon Township	33.5	-2.0	36.1	28th	24.1	-0.1	21.8	21st	338.6	223.0	high	152%
Julia Creek Airport	37.2	+1.0	42.0	29th	23.1	-0.4	17.9	24th	60.6	167.0	low	36%
Kowanyama Airport	32.0	-1.0	34.5	28th	24.6	+0.3	22.2	30th	370.6	340.7	average	109%
Mornington Island	32.5	+0.4	35.2	29th	26.0	+0.5	23.4	12th	344.4	327.1	average	105%
Mount Isa Aero	35.7	-0.6	40.8	29th	23.0	-0.7	18.8	25th	144.4	119.9	high	120%
Normanton Airport	33.1	-0.4	36.5	29th	25.3	+0.2	21.6	30th	375.0	263.6	high	142%
Sweers Island	32.7	+0.6	36.0	29th	26.4	+0.3	23.2	7th	343.9	361.0	average	95%
Upper Carpentaria (district 30)												
Georgetown Airport	33.0		35.3	28th	22.8		20.1	29th	306.4			
Hughenden Airport	34.6	-0.3	36.8	28th	21.8	-1.7	17.2	24th	114.0	145.7	average	78%
Richmond Airport	36.2	+0.2	40.5	28th	22.5	-0.7	17.6	24th	30.4	137.8	v low	22%
Richmond Post Office	36.6	-0.2	40.0	29th	23.3	+0.3	19.4	24th	51.8	123.2	low	42%
Barron North Coast (district 31)												
Cairns Aero	31.2	-0.2	33.4	26th	23.8	+0.1	20.7	26th	428.8	397.1	average	108%
Cape Flattery	31.8		34.9	9th	24.1		21.4	3rd	398.6			
Cooktown Airport	31.7	0.0	35.6	7th	24.0	-0.4	21.6	26th	424.2	278.4	high	152%
Kairi Research Station	28.3	+0.1	31.0	7th	19.6	+0.4	14.1	26th	485.4	254.4	v high	191%
Low Isles Lighthouse	32.0	-0.2	35.0	7th	25.4	-0.1	23.8	15th	547.8	401.2	high	137%
Mareeba Airport	30.2	-0.6	33.7	7th	21.2	-0.2	17.8	26th	482.8	231.3	v high	209%
Walkamin Research Station	29.4	-0.5	33.3	7th	20.5	+0.2	15.7	26th	423.6	220.2	v high	192%
Herbert North Coast (district 32)												
Cardwell Marine Pde	32.4	+0.9	35.0	13th	23.6	+0.7	20.9	25th	442.9	442.0	average	100%
Ingham Composite	32.4	+0.1	34.9	7th	23.3	+0.3	20.6	25th	309.2	389.7	average	79%
Innisfail	31.1	+0.3	33.5	20th	23.7	+0.9	20.8	25th	442.2	512.6	average	86%
Lucinda Point	30.5	+0.4	32.3	17th	25.1	-0.2	23.1	19th	311.6	190.8	high	163%
South Johnstone Exp Stn	31.2	0.0	33.6	9th	23.4	+0.9	20.1	25th	529.0	523.5	average	101%
Townsville Aero	31.3	0.0	33.0	29th	24.3	0.0	21.1	24th	178.4	276.5	average	65%
East Central Coast (district 33)												
Alva Beach	30.9	-0.3	32.3	6th	23.8	-0.8	20.6	24th	248.0	261.4	average	95%
Ayr DPI Research Stn	31.5	-0.3	33.3	6th	22.9	+0.2	19.5	24th	249.0	221.6	average	112%
Bowen Airport	31.0	-0.5	32.3	28th	23.0	-0.9	20.0	25th	246.2	181.3	average	136%
Collinsville Post Office	32.8	-0.6	36.4	28th	21.3	-0.6	17.7	24th	152.2	134.2	average	113%
Hamilton Island Airport	29.3		31.1	17th	24.5		22.4	7th	258.0	315.9	low	82%
Mackay Aero	30.3	+0.2	31.6	18th	22.9	0.0	20.1	8th	181.4	316.8	low	57%
Mackay M.O	29.6	-0.5	31.9	18th	23.6	+0.1	19.0	8th	205.0	277.6	average	74%
Proserpine Airport	30.8	-0.7	33.2	17th	22.8	+0.2	20.6	25th	252.8	295.7	average	85%
Samuel Hill Aero	30.3	-0.5	33.7	18th	21.8	+0.3	17.2	8th	153.6	163.6	average	94%
St Lawrence	31.7		34.4	28th	22.5		18.4	8th	66.6			
St Lawrence Post Office	31.9	+0.2	34.5	28th	22.6	+0.1	18.7	8th	70.0	205.6	low	34%

Williamson	31.2		33.9	18th	22.1		17.6	8th	117.6				
Woolshed	28.6	+0.4	31.2	18th	20.5	-0.2	15.8	24th	228.8	252.0	average	91%	
Yeppoon The Esplanade	29.4	+0.1	33.6	18th	23.1	-0.6	19.9	7th	140.6	123.5	average	114%	
West Central Coast (district 34)													
Charters Towers Airport	32.7	-0.8	34.6	8th	22.0	-0.4	19.0	24th	181.7	165.6	average	110%	
Moranbah Water Treatment Plant	32.6	-1.3	34.9	17th	21.0	-0.9	18.6	24th	159.5	103.7	high	154%	
Central Highlands (district 35)													
Clermont Airport	32.4		35.5	28th	20.3		15.5	24th	95.2				
Clermont Sirius St	32.2	-2.1	35.3	28th	20.7	-0.9	16.6	24th	111.0	117.5	average	94%	
Emerald Airport	32.9	-1.5	36.7	28th	21.2	-1.1	18.3	24th	49.0	87.9	average	56%	
Lochington	33.1		37.7	28th	21.0		16.6	7th	66.4				
Rolleston Airport	32.5		36.7	28th	21.0		17.6	24th	81.2				
Springsure Comet St	32.3	-1.7	37.2	28th	20.2	-0.6	16.1	7th	49.0	107.0	low	46%	
Tambo Post Office	34.0	-0.9	39.6	28th	20.1	-0.3	14.0	7th	30.0	80.8	low	37%	
Taroom Post Office	32.8	-0.9	36.4	18th	20.3	-0.3	16.9	23rd	80.7	97.7	average	83%	
Central Lowlands (district 36)													
Barcardine Post Office	34.6	-1.0	39.8	28th	22.9	-0.2	18.9	7th	29.8	85.7	low	35%	
Blackall Airport	34.2	-1.5	39.8	28th	21.4	-1.6	16.1	7th	26.2	114.8	low	23%	
Isisford Post Office	35.5	-1.4	41.5	26th	23.0	0.0	17.9	7th	46.8	70.4	average	66%	
Longreach Aero	35.4	-1.5	40.5	28th	21.5	-1.6	16.7	20th	18.6	79.6	low	23%	
Upper Western (district 37)													
Camooweal Township	35.6	-1.7	40.4	29th	24.0	-0.3	18.2	31st	193.0	100.2	high	193%	
The Monument Airport	37.9	+1.3	42.8	29th	24.6	+0.5	21.3	21st	61.6	82.5	average	75%	
Trepell Airport	37.5	+1.1	42.4	29th	23.6	-0.6	20.9	8th	86.4	120.8	average	72%	
Urandangi	39.4	+1.0	44.5	30th	24.5	+0.5	20.5	8th	57.6	63.1	average	91%	
Winton Airport	37.6		42.3	28th	22.7		18.0	7th	34.0	99.2	low	34%	
Winton Post Office	37.0	-0.5	41.5	28th	23.3	-0.2	18.7	7th	67.0	83.5	average	80%	
Lower Western (district 38)													
Bedourie Police Station	40.7	+1.9	47.0	27th	24.9	0.0	21.0	20th	30.0	33.6	average	89%	
Birdsville Airport	40.6	+0.4	47.4	27th	26.9	+0.5	21.1	14th	75.6	24.0	v high	315%	
Bouliia Airport	39.0	+0.6	43.6	29th	25.4	+0.9	22.6	17th	62.0	49.4	high	126%	
Windorah Post Office	37.2	-0.9	43.3	27th	24.9	+0.8	20.2	19th	72.2	43.0	high	168%	
Port Curtis South Coast (district 39)													
Baralaba Post Office	33.3	-1.1	36.7	28th	21.0	-0.4	18.2	24th	84.2	92.9	average	91%	
Bundaberg Aero	30.3	+0.2	34.2	18th	21.0	-0.5	18.4	23rd	180.2	169.9	average	106%	
Gayndah Airport	31.1		34.9	18th	20.1		17.4	24th	177.8	77.9	v high	228%	
Gladstone Airport	30.6	-0.1	32.4	19th	22.1	-0.9	19.0	8th	43.0	107.8	average	40%	
Gladstone Radar	31.5	+0.3	33.4	27th	22.2	-0.3	19.0	7th	43.8	140.1	low	31%	
Lady Elliot Island	29.3	+0.1	31.4	18th	24.2	+0.3	20.3	7th	120.6	121.1	average	100%	
Monto Township	30.1	-1.8	33.0	19th	19.2	-0.1	15.3	23rd	184.3	109.5	high	168%	

Rockhampton Aero	31.3	-0.6	34.9	17th	22.8	+0.7	20.5	23rd	115.6	126.5	average	91%
Rundle Island	27.8	-0.3	31.6	18th	23.7	-0.7	19.9	8th				
Sandy Cape Lighthouse	28.9	-0.5	31.1	19th	22.3	0.0	17.7	8th	186.6	159.6	average	117%
Seventeen Seventy	28.5	-0.8	31.5	18th	22.3	-0.7	19.0	8th	135.2	149.6	average	90%
Thangool Airport	31.3	-2.3	34.1	19th	19.1	-0.7	15.8	24th	114.8	95.9	average	120%
Moreton South Coast (district 40)												
Amberley AMO	30.0	-1.1	36.0	18th	19.7	+0.1	15.6	23rd	319.0	113.6	v high	281%
Archerfield Airport	29.3	-1.1	33.8	18th	20.5	+0.3	16.8	23rd	269.4	135.0	v high	200%
Beaudesert Drumley Street	30.3		34.7	18th	19.1		15.2	23rd	150.0			
Beerburum Forest Station	29.1	-1.1	35.6	18th	20.1	+0.4	17.2	24th	675.4	194.5	v high	347%
Brisbane	29.6	-0.7	34.9	18th	21.2	-0.2	18.8	23rd	315.8	114.3	v high	276%
Brisbane Aero	28.3	-0.7	33.5	18th	21.2	0.0	17.8	24th	354.2	123.7	v high	286%
Cape Moreton Lighthouse	27.5	+0.6	30.4	19th	22.4	+0.5	18.5	7th	145.8	149.1	average	98%
Coolangatta	28.5	+0.3	31.0	18th	21.1	+0.2	17.4	24th	223.4	141.3	high	158%
Gold Coast Seaway	28.6	0.0	30.6	19th	21.9	+0.1	18.3	17th	161.0	108.0	high	149%
Gympie	29.7	-1.5	35.4	18th	19.9	+0.3	16.9	25th	433.8	163.4	v high	265%
Hervey Bay Airport	29.7	-0.3	32.4	18th	21.4	-0.7	18.3	8th	184.0	131.7	high	140%
Jimna Forestry	26.1	-2.1	32.1	18th	17.5	+0.1	13.4	24th	229.8	91.0	v high	253%
Logan City Water Treatment Plant	28.9	-0.8	33.5	17th	20.9	+0.5	17.4	25th	238.8	115.8	v high	206%
Maleny Tamarind St	25.6	-1.2	31.4	18th	18.9	+0.3	16.0	24th	902.8	281.1	v high	321%
Maryborough	30.1	-0.6	35.9	18th	20.9	+0.3	18.5	25th	288.0	163.2	high	176%
Nambour DPI - Hillside	28.3		34.1	18th	20.4		17.6	24th	708.2			
Point Lookout	29.7	+0.7	32.7	19th	21.6	-1.0	18.8	7th	290.1	120.1	v high	242%
Rainbow Beach	28.3	-0.6	34.2	18th					476.0	167.7	v high	284%
Redcliffe*	28.4	-0.6	31.8	18th	21.7	-0.2	18.8	7th	315.0	111.6	v high	282%
Sunshine Coast Airport	28.3	-0.4	31.2	19th	21.2	-0.1	18.2	7th	557.8	141.7	v high	394%
Tewantin RSL Park	28.0	-0.5	33.4	18th	21.6	-0.3	18.1	7th				
Toolara (Kelly)	29.5	-1.8	36.9	18th	20.2	-0.5	17.1	7th	460.6	163.4	v high	282%
University of Queensland Gatton	30.3	-1.2	37.0	18th	19.7	+0.6	15.6	23rd	322.0	112.7	v high	286%
East Darling Downs (district 41)												
Applethorpe	25.5	-0.9	31.6	27th	15.7	+0.5	12.1	24th	241.0	96.3	highest	250%
Dalby Airport	30.6	-2.0	35.9	26th	18.5	-0.3	14.8	22nd	139.8	73.9	high	189%
Goondiwindi Airport	32.9	-1.2	39.9	26th	20.1	-0.2	17.4	6th	60.2	83.7	average	72%
Inglewood Forest	31.0	-2.7	37.1	26th	18.2	-0.6	14.4	23rd	106.8	50.2	high	213%
Oakey Aero	29.0	-1.8	34.7	18th	18.0	+0.2	13.9	23rd	356.4	84.0	highest	424%
Stanthorpe Leslie Parade	26.3	-1.1	33.1	25th	16.2	+0.6	12.9	24th	184.2	96.9	v high	190%
Texas Post Office	31.9	-1.9	38.5	26th	19.0	+0.5	15.0	23rd	143.4	87.5	high	164%
Toowoomba Airport	26.0	-2.2	31.4	18th	17.5	0.0	13.8	22nd	413.0	88.0	v high	469%
Warwick	28.7	-1.4	34.8	26th	17.3	+0.4	13.7	23rd	149.2	85.6	high	174%
West Darling Downs (district 42)												

Miles Constance Street	31.8	-2.1	36.7	28th	19.7	-0.7	16.1	23rd	86.0	65.4	average	131%
Maranoa (district 43)												
Injune Post Office	32.0	-1.6	37.9	28th	19.1	-0.5	15.2	24th	87.2	89.6	average	97%
Mitchell Post Office	33.7	-0.3	41.3	28th	20.0	0.0	14.5	24th	14.0	81.1	v low	17%
Roma Airport	32.8	-1.4	39.4	28th	19.6	-1.4	16.3	7th	58.8	69.1	average	85%
St George Airport	33.9	-0.9	41.0	26th	21.3	-0.6	16.5	6th	12.6	55.3	v low	23%
Surat	32.7	-1.5	40.6	28th	21.4	+0.8	17.7	8th	42.0	71.7	average	59%
Warrego (district 44)												
Bollon Mary St	35.4	-0.1	43.5	26th	22.0	+0.5	16.1	6th	44.8	62.9	average	71%
Charleville Aero	35.2	+0.3	42.9	28th	21.7	0.0	15.6	6th	41.2	73.9	average	56%
Cunnamulla Post Office	37.3	+1.3	45.2	27th	23.5	+1.3	17.5	6th	21.0	46.4	average	45%
Far Southwest (district 45)												
Ballera Gas Field	37.6		42.9	28th			18.7	6th	53.2	33.7	high	158%
Quilpie Airport	38.0	+1.1	45.5	26th	24.5	+0.8	18.0	6th	35.0	53.2	average	66%
Offshore Islands (district 200)												
Middle Percy Island	28.3	-0.2	30.2	18th	23.3	0.0	20.0	7th	75.8	201.9	low	38%
Willis Island	30.2	-0.5	31.5	11th	25.5	-0.2	23.5	23rd	380.8	197.6	high	193%

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Notes

A Monthly Climate Summary is prepared to list the main features of the weather in Queensland using the most timely and accurate information available on the date of publication; it will generally **not** be updated. Later information, including data that has had greater opportunity for quality control, will be presented in the [Monthly Weather Review](#), usually published in the fourth week of the month.

This statement has been prepared based on information available at 11 am on Tuesday 1 February 2011. Some checks have been made on the data, but it is possible that results will change as new information becomes available.

* These sites are compared to other long-term sites in the area using the 1961 to 1990 period where available for Brisbane temperature, the 1981 to 2004 for Redcliffe temperature and all years of record for rainfall.

Averages are long-term means based on observations from all available years of record, which vary widely from site to site. They are not shown for sites with less than 9 years of record, as they cannot then be calculated reliably.

The [median](#) is sometimes more representative than the [mean](#) of long-term average rain.

The *Rank* indicates how rainfall this time compares with the climate record for the site, based on the [decile ranking](#) (*very low* rainfall is in decile 1, *low* in decile 2 or 3, *average* in decile 4 to 7, *high* in decile 8 or 9 and *very high* is in decile 10).

The *Fraction of average* shows how much rain has fallen this time as a [percentage](#) of the long-term mean.

No instruments from the QLD flood warning network (recognised as TM or Alert), have been used in producing daily rainfall information in this report.

Further information

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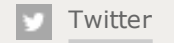
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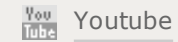
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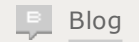
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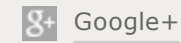
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