

HEAD OFFICE

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SPECIAL CLIMATE STATEMENT 24



An extremely wet December leads to widespread flooding across eastern Australia

Late November and December 2010 were extremely wet through much of eastern Australia. Four major rain events affected large parts of the eastern states during this period, resulting in widespread flooding on many rivers, especially in Queensland and New South Wales. The most severe flooding, which in terms of extent, impact and severity was the most significant in Australia since at least the 1970s, occurred in Queensland and far northern and central western New South Wales in the last week of December, with downstream impacts continuing into January. Earlier in the month, there was also substantial flooding in various parts of the eastern states, especially in the Murrumbidgee and Lachlan catchments of inland New South Wales.

It was the wettest December on record for Queensland and for eastern Australia as a whole, the second-wettest for the Murray-Darling Basin, the sixth-wettest for Victoria and the eighth-wettest for New South Wales. For Australia as a whole it was the third-wettest December on record. This followed an extremely wet spring, the wettest on record for Queensland, New South Wales, eastern Australia and the Murray-Darling Basin. The heavy late November and December rainfall followed a very wet July to October for Australia, meaning many catchments were already wet before the flooding rain. It was Australia's wettest July to October on record and also the wettest July to December on record.

The rains of late 2010 have taken place during a very strong La Niña event in the Pacific Ocean. The December Southern Oscillation Index (SOI) was +27.1, the highest December value on record and the highest monthly value since 1973, whilst other indicators of La Niña also indicate the strongest event since at least the mid-1970s. Previous strong La Niña events, such as those of 1974 and 1955, have also been associated with widespread and severe flooding in eastern Australia. Sea surface temperatures off the Queensland coast in recent months have also been at or near record levels.

Major rain events of the period

There were four major rain events during late November and December, concentrated on the periods 28 November to 3 December, 7 to 13 December, 19 to 20 December and 23 to 28 December.

28 November to 4 December. A trough remained over eastern Australia through this period, with the southeast predominantly in a humid northerly airstream for the bulk of the period. Total rainfall for the period (Figure 1a) was widely in the 100-300 mm range on the ranges and western slopes of southern and central New South Wales, as well as in central Queensland in a band extending from Mackay southwards to the Emerald area. Falls exceeded 50 mm over most of the eastern two-thirds of New South Wales and the eastern half of Queensland (except the southeast corner), as well as large parts of central and northern Victoria. Notable daily falls during this period included 118.6 mm at Young on 29 November, 143.6 mm at Mackay and 100.8 mm at Mudgee on 1 December, and 228.0 mm at Mount Charlton (near Mackay) on 3 December.

7 to 13 December. A cold front crossed southeastern Australia at the start of the period, initially reaching South Australia late on the 7th and then continuing eastwards over the next two days. A trough developed associated with the front and moved slowly across northern New South Wales and the southern half of Queensland over the following days, eventually moving off the Queensland coast on the 13th. Falls for the period 8 to 13 December (Figure 1b) widely exceeded 50 mm in a number of areas, including eastern South Australia and western Victoria, the upland areas of northeast Victoria and southeast New South Wales, northwestern Tasmania, much of the Queensland coast and an inland area in Queensland's central west. Some falls were locally much

higher, especially as a result of severe thunderstorms in South Australia on the afternoon of the 7th, with all-time daily records at some sites and December records at many others (Table 1). Mannum received 130.0 mm and Birdwood 128.2 mm for the 24 hours to 9 a.m. on the 8th, while other notable daily falls during the period included 127.8 mm at Blackall (Queensland) on the 8th, 182.0 mm at Rocky Valley (Victoria) on the 9th, 106.1 mm at Cowra (NSW) on the 10th and 128.0 mm at Miriam Vale (Queensland) on the 12th.

19 to 20 December. A trough moved north over Queensland on 19 and 20 December, associated with an intense low east of Tasmania (which also brought snow to relatively low levels in Victoria and southern New South Wales). Whilst no exceptional daily totals occurred, much of southern and central Queensland received a further 50 to 100 mm for the period (Figure 1c).

23 to 28 December. A moist easterly flow covered much of Queensland for the period 23 to 28 December. Further moisture was brought into the region by the circulation associated with Tropical Cyclone Tasha, which made landfall south of Cairns on the morning of 25 December. A trough moved northeast across New South Wales and Queensland from the 26th, eventually clearing most of the rain seawards on the 28th. Rainfall totals for the period (Figure 1d) exceeded 200 mm over a large area of central eastern Queensland, roughly bounded by Rockhampton, Carnarvon Gorge and Hervey Bay, with falls exceeding 400 mm in places. Similar falls extended northwards along the Oueensland coast as far north as Cairns, as well as near the Gold Coast and far northern New South Wales. Much of the eastern half of Queensland received at least 100 mm. The most widespread intense rainfall was on the 27th, where a number of stations in the Carnarvon Range area set all-time daily records with daily totals in excess of 200 mm, peaking at 273.6 mm at Carnaryon Station. Other very high totals (including 304 mm at Corsis and 294 mm at Babinda) occurred on the north tropical coast on the 25th near the landfall of *Tasha*, while other notable daily totals included 140.2 mm at Rockhampton on the 26th, 148.0 mm at Condamine on the 27th and 165.4 mm at Bundaberg on the 28th. Further south, falls of 50-100 mm in the NSW Central Tablelands on the 26th exacerbated flooding in that region.

Extreme daily rainfall totals during the period

Selected daily rainfall records set during December 2010 are listed in Table 1. The Queensland events were more notable for their extent, particularly the extent of heavy falls inland from the coast, and duration than for their intensity, and only a relatively modest number of daily records was set during the month.

The greatest concentration of daily records during the period was in South Australia and western Victoria on 8 December, mostly as a result of severe thunderstorms on the afternoon and evening of the 7th. December is normally a relatively dry month in this region and many stations exceeded their monthly average in one day.

Averaged over Queensland, the wettest day of the event was 27 December, with a statewide average of 22.0 mm. This was the second-highest on record for December (after 30.7 mm on 22 December 1956) but fell well short of the all-months record of 31.6 mm set on 2 March 2010 (see Special Climate Statement 20). Whilst no individual day approached record levels in the Murray-Darling Basin, the Basin-wide average daily total exceeded 10 mm on five days during the period (peaking at 13.7 mm on 28 November) and 5 mm on 14 days (this compares with the average daily total of about 1.5 mm).

Total rainfalls for the period

For the period from 28 November to 31 December (Figure 2), total rainfall exceeded 300 mm over most of the eastern half of Queensland, except for inland southern border areas. Totals in the 400 to 600 mm range were widespread along most of the Queensland east coast, extending inland to cover many areas in the Central Highlands and adjacent areas, as well as most of Cape York Peninsula. (The inland penetration of the heaviest falls can be compared with the 1918 event, which led to Rockhampton's record flood peak; that event, associated with a tropical cyclone, was concentrated quite close to the coast and was more short-lived than the current event). Some stations in the Mackay area exceeded 1000 mm, and totals between 600 and 800 mm occurred along several parts of the coast, especially around Mackay, between Cairns and Townsville, and in the Bundaberg-Wide Bay region.

Totals for the period were less extreme in the southeastern states, but were still between 200 and 400 mm over the ranges of northeast Victoria and southeast New South Wales, as well as in a broad band along the NSW western slopes from the Snowy Mountains into the state's far north. Most of the state's eastern half received at least 100 mm, as did most of Victoria, South Australia east and south from Adelaide, and northern and western Tasmania.

December 2010 was the wettest December on record over most of southeastern Queensland, as well as some areas further north (Figure 3). It was also the wettest December on record in a band through central New South Wales between Canberra and Dubbo, and in a broad region on both sides of the South Australia-Victoria border. All of these regions generally received between three and six times their average December rainfall (Figure 4). At some stations, particularly in Queensland (Table 2), it was the wettest month (i.e., compared against all calendar months) on record.

On an area-average basis, it was the wettest December on record for eastern Australia¹, with the total of 167.2 mm (132% above normal) surpassing the 154.8 mm set in 1975. Queensland (209.5 mm, 154% above normal) also set a record (previously 200.1 mm in 1975), while the Murray-Darling Basin (107.0 mm, 119% above normal) ranked second behind 1992. Victoria (103.9 mm, 118% above normal) ranked fifth and New South Wales (98.9 mm, 83% above normal) eighth.

In some parts of the inland southeast the heaviest rain was split between the months of November and December and its extreme nature was thus not fully reflected in monthly totals. Young received 346.4 mm in the 13 days from 28 November to 10 December, more than half its annual mean (662 mm), and more than the 262.4 mm they received in all of 2006, and well in excess of their wettest calendar month on record (298.9 mm in March 1950). Whilst such statistics are not extraordinary in the more arid parts of Australia – where a number of stations in recent years have received their average annual rainfall in a single day – they are highly unusual for a location in southeastern Australia. Over the same 13-day period, Burrinjuck Dam received 332.0 mm and Canberra 225.0 mm.

Floods resulting from the rainfall

The rains from 23 to 28 December resulted in exceptional flooding in many parts of central and southern Queensland with many rivers reaching record levels (Table 3). By 23 December, many rivers were already at or near flood level as a result of the rains in the preceding weeks (with some, notably the Dawson, experiencing major flooding). The rains during the following few days, on top of the pre-existing wet conditions, resulted in major flooding over a vast region. Except for the southeast coastal fringe south of Maryborough, almost every river in Queensland that is south of the Tropic of Capricorn and east of Charleville and Longreach reached major flood level at some stage during the period from 26 November to 7 January, mostly between 23 December and 4 January (Figure 5). Properties were inundated in at least 17 towns in Queensland and adjacent border areas

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¹ In this context eastern Australia is defined as Queensland, NSW, Victoria, Tasmania and the ACT.

of New South Wales, with the largest impacts in the towns of Theodore, Dalby, Chinchilla, Emerald, Bundaberg and Rockhampton. Further flood peaks are expected downstream on the inland-flowing rivers in the coming weeks.

The most extreme flooding occurred in the Fitzroy and Condamine-Balonne catchments. Record flood levels occurred at a number of locations in these catchments (Table 3), including the Dawson River at Theodore, the Nogoa at Emerald, the Comet at Rolleston and Comet Weir, and in the Condamine-Balonne system at Tummaville, Millmerran, Condamine Township and Surat. In some cases these flood peaks broke records which had only just been set during the February-March 2010 event. The Fitzroy at Rockhampton reached its fifth highest level of the last 100 years, and the Burnett at Bundaberg its highest since 1942. The flooding was prolonged in many areas, with the Dawson at Theodore remaining above major flood level for more than two weeks (Figure 6).

Whilst not reaching the severity of Queensland, there was also widespread flooding in various parts of New South Wales, most significantly in the Murrumbidgee, Lachlan and Castlereagh catchments. Eugowra was flooded three times during the month on December 4, 10 and 27. Wagga Wagga experienced its worst flooding since 1974 when the Murrumbidgee peaked at 9.7 metres on 6 December, while major flooding (the highest since 1976) inundated properties in Queanbeyan on 9 December. This caused a secondary peak further down the Murrumbidgee, where floods extended downstream over the following weeks, reaching Hay at the end of the month. Total River Murray inflows for December were the highest on record, and in conjunction with floods earlier in the spring in southern inland New South Wales and northern Victoria, these are expected to produce the strongest flows² since at least 1992 in the South Australian portion of the Murray during January and February.

Further information

This statement is based on information available as of 6 January 2011. An update is expected to be issued later in January after downstream flood peaks have occurred.

The Gascoyne River flooding in Western Australia is not covered in this statement. A separate report on that event is available at http://www.bom.gov.au/announcements/sevwx/. Another separate report is expected to be issued in due course on flooding in the Murray River system.

Further information can be obtained from the following contacts:

For general enquiries on this statement

National – Blair Trewin (03-9669 4623), David Jones (03-9669 4085) Queensland – Climate Services Centre (07-3239 8700) NSW – Climate Services Centre (02-9296 1555) SA – Climate Services Centre (08-8366 2600) Victoria – Climate Services Centre (03-9669 4956)

For enquiries specific to flooding in Queensland

Peter Baddiley (07-3239 8768)

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² From the 31 December 2010 River Murray Flow Advice, SA Government Department for Water (http://www.waterforgood.sa.gov.au/2010/12/river-murray-flow-advice-31-december/).

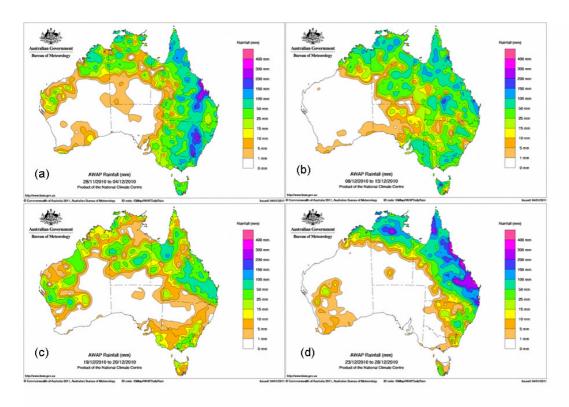


Figure 1. Australian rainfall totals for the periods (a) 28 November to 4 December, (b) 8 to 13 December, (c) 19 to 20 December and (d) 23 to 28 December.

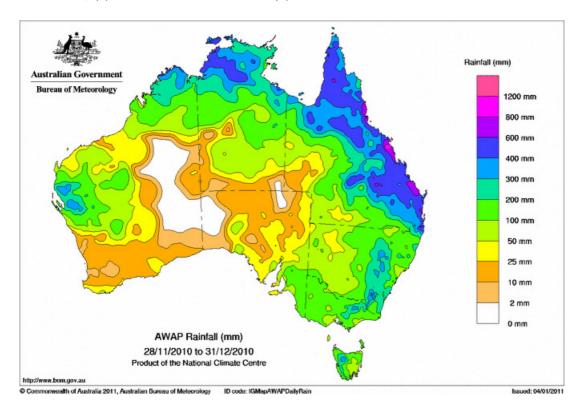


Figure 2. Total rainfall for the period 28 November -31 December 2010.

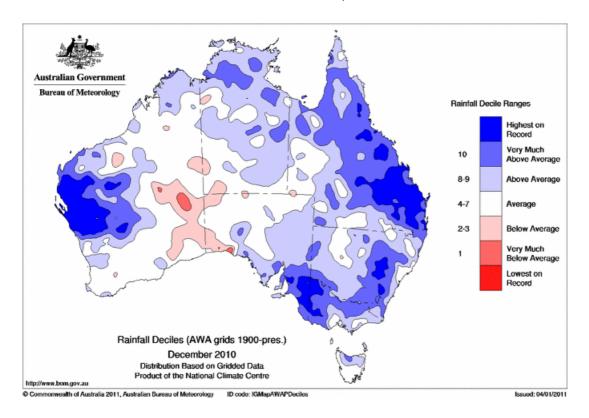


Figure 3. Australian rainfall deciles for December 2010.

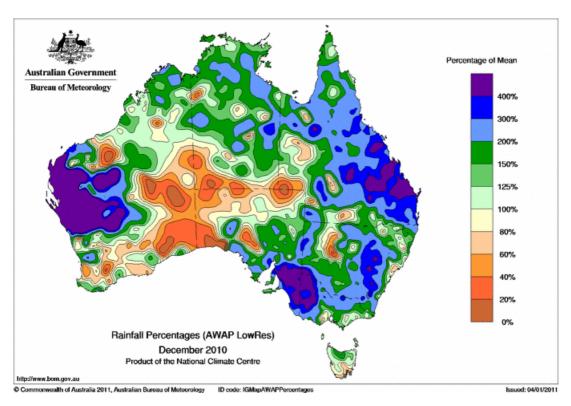


Figure 4. Australian rainfall percentages of normal for December 2010.

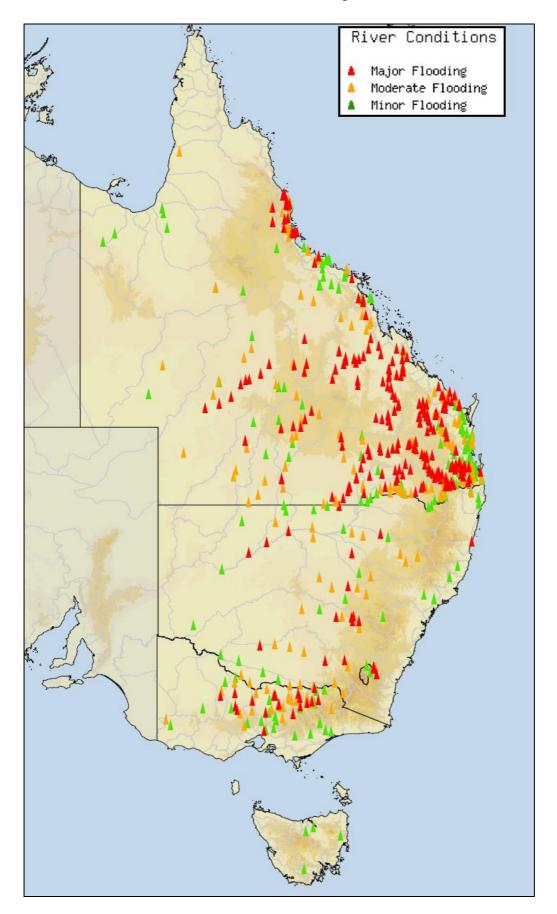


Figure 5. Flood peaks in eastern Australia over the period 26 November 2010 – 7 January 2011.

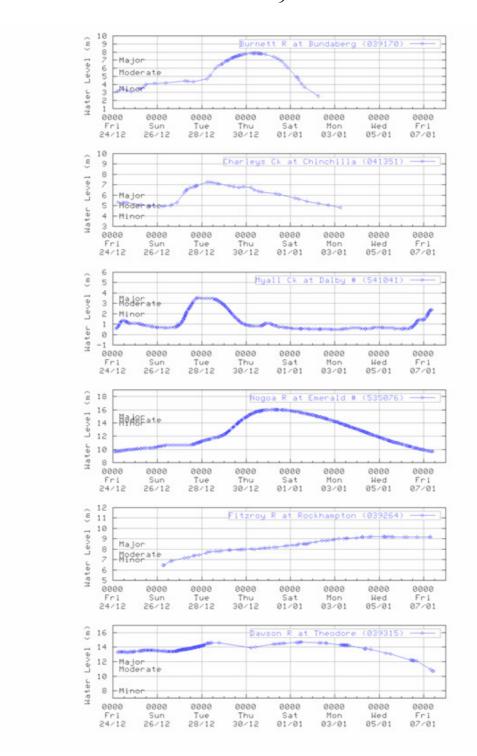


Figure 6. Flood peaks at selected Queensland towns: (from top) Bundaberg, Chinchilla, Dalby, Emerald, Rockhampton and Theodore.

| Station | Nama | State | Rainfall | Doto | Previous | Data |
|----------------------|--------------------------------|----------|--------------|--------------|------------------------|-----------------------------------|
| | Name | State | | Date | | Date |
| number | Wilson 11 a (Marilla account) | SA | (mm) | 0/12 | record (mm) | 12/12/2009 |
| 18058 | Whyalla (Mullaquana) Auburn | SA SA | 44.8 65.8 | 8/12 8/12 | 39.2 50.3 | 12/12/2008 |
| 21001 21002 | Balaklava | SA SA | | | | 12/12/1917 |
| 21002 | | | 84.2 | 8/12 | 46.0 | 12/12/1917 |
| | Blyth Booborowie | SA SA | 63.6 | 8/12 | 62.5 49.0 | 21/12/1921 |
| 21004 | | | 71.4 | 8/12 | | 1/12/1966 |
| 21012 | Bute | SA | 66.0 | 8/12 | 35.0 | 3/12/1989 |
| 21019 | Farrell Flat | SA | 89.6 | 8/12 | 69.3 | 27/12/1929 |
| 21022 | Gulnare | SA SA | 61.0 74.2 | 8/12 8/12 | 50.3 62.0 | 1/12/1966 |
| 21026 | Hoyleton | | | | | 12/12/2008 |
| 21033 | Mintaro | SA | 66.8 | 8/12 | 54.6 | 12/12/1917 |
| 21034 | Mount Bryan | SA | 76.6 | 8/12 | 57.9 (Dec) | 25/12/1946 |
| 21047 | Chalding | SA | 53.0 | 8/12 | 62.4 (all) 52.3 | 27/9/1979 |
| 21047 | Spalding Glen Osmond | | | | | 1/12/1966 |
| 23005 | | SA | 64.8 | 8/12 | 53.1 | 23/12/1913 |
| 23013 | Parafield | SA SA | 51.2 | 8/12 | 47.0 45.7 | 28/12/1929 |
| 23025 | Smithfield Gawler | SA SA | 68.8 | 8/12 8/12 | 35.6 | 27/12/1920 19/12/1922 |
| 23078 23090/23000 | Adelaide | SA SA | 72.8 70.0 | 8/12 | 61.5 | 23/12/1913 |
| 23305 | Greenock | SA SA | 98.8 | 8/12 | 50.5 | 28/12/1913 |
| 23303 | Kapunda | SA SA | 98.8 85.0 | 8/12 | 46.7 | 18/12/1923 |
| | | SA SA | 85.0 86.4 | 8/12 | 39.9 | 25/12/1946 |
| 23309 23310 | Lyndoch Manoora | SA SA | 77.0 | 8/12 | 52.8 | 12/12/2008 |
| 23310 | Marrabel | SA SA | 70.0 | 8/12 | 50.8 | |
| 23311 | Riverton | SA SA | 90.0 | 8/12 | 63.0 | 12/12/1917 12/12/2008 |
| 23314 | Saddleworth | SA SA | 74.8 | 8/12 | 60.5 | |
| 23313 23318 | Tanunda | SA SA | 94.0 | 8/12 | 48.5 (Dec) | 17/12/1902 28/12/1896 , |
| 23316 | Tanunua | SA | 94.0 | 0/12 | 46.5 (Dec) | 5/12/1966 |
| | | | | | 87.1 (all) | 17/4/1889 |
| 23319 | Tarlee | SA | 109.8 | 8/12 | 64.8 | 24/12/1954 |
| 23343 | Turretfield | SA | 90.0 | 8/12 | 28.4 | 4/12/1911, |
| 23343 | Turretireid | SA | 90.0 | 0/12 | 20.4 | 25/12/1964 |
| 23370 | Stockport (Clifton) | SA | 88.2 | 8/12 | 43.0 | 12/12/2008 |
| 23705 | Birdwood | SA SA | 128.2 | 8/12 | 62.5 (Dec) | 25/12/1948 |
| 25705 | Birawood | SA. | 120.2 | 0/12 | 125.5 (all) | 9/2/1969 |
| 23719 | Gumeracha | SA | 73.4 | 8/12 | 58.4 | 27/12/1920 |
| 23737 | Mount Pleasant | SA | 73.4 | 8/12 | 48.2 | 1/12/1987 |
| 23752 | Williamstown | SA | 94.6 | 8/12 | 45.7 | 27/12/1920 |
| 24517 | Mannum | SA | 130.0 | 8/12 | 62.2 | 25/12/1946 |
| 24525 | Palmer | SA | 86.2 | 8/12 | 81.0 | 18/12/1992 |
| 24534 | Sutherlands | SA | 87.0 | 8/12 | 83.1 | 26/12/1946 |
| 25000 | Alawoona | SA | 65.0 | 8/12 | 53.6 | 31/12/1983 |
| 25002 | Purnong | SA | 75.0 | 8/12 | 48.0 | 28/12/1929 |
| 25002 | Karoonda | SA | 73.6 | 8/12 | 57.2 | 28/12/1929 |
| 25010 | Mindarie | SA | 85.0 | 8/12 | 35.6 (Dec) | 27/12/1920 |
| 23010 | 1.IIIGui io | 571 | 05.0 | 0/12 | 79.8 (all) | 18/12/1946 |
| 25013 | Parilla | SA | 79.0 | 8/12 | 74.0 | 26/12/1999 |
| 23013 | 1 411114 | D/ 1 | 17.0 | 0/12 | 77.0 | 2011211777 |

Table 1. Selected record daily rainfall totals which have occurred during December 2010 at locations with 50 or more years of data. Values shown in bold are records for any calendar month.

| Station | Name | State | Rainfall | Date | Previous | Date |
|--------------|--------------------|-------|--------------|-------|----------------------------|------------|
| number | Name | State | (mm) | Date | record (mm) | Date |
| 25014 | Paruna | SA | 64.6 | 8/12 | 40.6 | 22/12/2000 |
| 25014 | Pinnaroo | SA | 64.0 | 8/12 | 38.4 | 28/12/1962 |
| 25017 | Sandalwood | SA | 82.0 | 8/12 | 36.8 | 22/12/1964 |
| 25509 | Lameroo | SA | 73.0 | 8/12 | 60.0 | 26/12/1999 |
| 35018 | Carnarvon Station | QLD | 273.6 | 27/12 | 124.5 (Dec) | 28/12/2008 |
| 33010 | Carnar von Station | QLD | 273.0 | 2//12 | 124.3 (Dec) 126.0 (all) | 1/6/1981 |
| 35021 | Comet | QLD | 148.4 | 3/12 | 136.4 | 30/12/1962 |
| 35051 | Orion | QLD | 153.4 | 3/12 | 139.8 | 28/12/2008 |
| 35079 | Wharton Creek | QLD | 257.0 | 27/12 | 103.1 (Dec) | 22/12/1956 |
| 33079 | Whatton Creek | QLD | 237.0 | 2//12 | 184.2 (all) | 24/11/1950 |
| 35090 | Rewan | QLD | 190.6 | 27/12 | 144.8 | 11/12/1917 |
| 35194 | Wyseby | QLD | 247.2 | 27/12 | 119.6 (Dec) | 22/12/1975 |
| 33174 | Wyseby | QLD | 247.2 | 27/12 | 213.8 (all) | 3/3/1990 |
| 36003 | Birricannia | QLD | 95.0 | 27/12 | 87.9 | 18/12/1944 |
| 36143 | Blackall | QLD | 123.6 | 8/12 | 96.4 | 31/12/2009 |
| 39204 | Colodan | QLD | 89.0 | 20/12 | 83.0 | 12/12/1988 |
| 40071 | Lanark | QLD | 102.0 | 23/12 | 100.1 | 15/12/1965 |
| 41069 | Millmerran | QLD | 97.0 | 27/12 | 94.0 | 5/12/2003 |
| 41082 | Pittsworth | QLD | 114.0 | 28/12 | 100.1 | 22/12/1956 |
| 42009 | Drillham | QLD | 81.0 | 27/12 | 66.5 | 26/12/1971 |
| 42016 | Hannaford | QLD | 102.0 | 27/12 | 90.2 | 12/12/1942 |
| 42048 | Condamine | QLD | 148.0 | 27/12 | 96.6 | 22/12/1988 |
| 47016 | Lake Victoria | NSW | 86.0 | 8/12 | 49.0 | 29/12/1957 |
| 50045 | Yalgogrin North | NSW | 68.2 | 9/12 | 66.5 | 17/12/1930 |
| 64009 | Dunedoo | NSW | 77.6 | 1/12 | 71.6 | 13/12/2008 |
| 65020 | Manildra | NSW | 63.8 | 10/12 | 63.2 | 14/12/1960 |
| 70016 | Captains Flat | NSW | 74.2 | 9/12 | 68.8 | 30/12/1948 |
| 70083 | Tharwa | ACT | 85.0 | 9/12 | 80.3 | 18/12/1961 |
| 70351/70014 | Canberra | ACT | 87.0 | 3/12 | 86.6 | 30/12/1948 |
| 72004 | Batlow | NSW | 99.6 | 9/12 | 94.0 | 28/12/1919 |
| 72150 | Wagga Wagga | NSW | 67.6 | 9/12 | 65.2 | 26/12/1988 |
| 73007 | Burrinjuck Dam | NSW | 111.0 | 3/12 | 87.6 | 18/12/1961 |
| 74064 | Lockhart | NSW | 53.2 | 9/12 | 45.7 | 3/12/1960 |
| 74110 | Urana | NSW | 69.0 | 9/12 | 60.0 | 9/12/2004 |
| 76038 | Murrayville | VIC | 70.0 | 8/12 | 41.1 | 25/12/1919 |
| 76064 | Walpeup | VIC | 78.0 | 8/12 | 41.0 | 21/12/1992 |
| 76067 | Werrimull | VIC | 71.0 | 8/12 | 58.8 | 31/12/2002 |
| 77033 | Patchewollock | VIC | 67.0 | 8/12 | 58.4 | 1/12/1987 |
| 79036 | Natimuk | VIC | 54.2 | 8/12 | 52.1 | 28/12/1929 |
| 79071 | Apsley | VIC | 48.4 | 8/12 | 38.6 | 10/12/1971 |
| 81051 | Tungamah | VIC | 83.4 | 9/12 | 57.7 | 15/12/1894 |
| 83038 | Tawonga | VIC | 144.2 | 9/12 | 69.0 (Dec) | 22/12/2007 |
| | | | | | 95.4 (all) | 26/3/1993 |
| 83043 | Rocky Valley | VIC | 182.0 | 9/12 | 128.6 | 14/12/1993 |
| 89003 | Balmoral | VIC | 103.2 | 8/12 | 56.4 | 13/12/2008 |
| 89009 | Cavendish | VIC | 106.8 | 8/12 | 65.0 (Dec) | 13/12/2008 |
| | | | | | 101.6 (all) | 7/2/1957 |
| 89011 | Dunkeld | VIC | 78.4 | 8/12 | 64.0 | 13/12/2008 |
| 89034 | Willaura | VIC | 98.0 | 8/12 | 64.8 (Dec) | 13/12/1966 |
| | | 1 | | | 91.4 (all) | 6/2/1973 |
| 90060 | Nullawarre | VIC | 70.2 | 8/12 | 61.6 | 3/12/1985 |

Table 1 (continued). Selected record daily rainfall totals which have occurred during December 2010 at locations with 50 or more years of data. Values shown in bold are records for any month.

| Station | Name | State | Rainfall | Previous | Year |
|---|---|--|---|---|--|
| number | Turne | State | (mm) | record (mm) | Tour |
| 21001 | Auburn | SA | 140.0 | 120.8 | 1966 |
| 21002 | Balaklava | SA | 129.2 | 80.9 | 1894 |
| 21004 | Booborowie | SA | 122.2 | 99.6 | 1966 |
| 21012 | Bute | SA | 96.0 | 66.7 | 1922 |
| 21019 | Farrell Flat | SA | 141.6 | 122.4 | 1894 |
| 21026 | Hoyleton | SA | 109.6 | 104.2 | 2008 |
| 23025 | Smithfield | SA | 129.8 | 109.5 | 1966 |
| 23023 | Gawler | SA | 118.8 | 109.7 | 1861 |
| 23305 | Greenock | SA | 152.4 | 94.8 | 2008 |
| 23307 | Kapunda | SA | 132.2 | 103.1 | 1902 |
| 23309 | Lyndoch | SA | 160.0 | 107.2 | 1992 |
| 23310 | Manoora | SA | 135.4 | 104.4 | 1992 |
| 23310 | Marrabel | SA | 126.0 | 110.6 | 1992 |
| 23314 | Riverton | SA | 197.0 | 123.7 | 1902 |
| 23314 | Saddleworth | SA | 139.0 | 112.1 | 1902 |
| 23313 | Tanunda | SA | 177.4 | 120.4 | 1875 |
| 23319 | Tarlee | SA SA | 183.6 | 120.4 | 1992 |
| 23319 | Turretfield | SA SA | 153.7 | 91.8 | 1992 |
| 23705 | Birdwood | SA SA | 199.2 | 177.8 | 1992 |
| 23703 | | SA SA | | | 1992 |
| | Bridgewater | SA SA | 160.5 | 148.6 | 1992 |
| 23752 | Williamstown | | 167.0 | 115.4 | |
| 24517 24526 | Mannum | SA | 173.0 | 138.6 | 2004 |
| | Point Pass | SA | 175.4 | 99.6 | 1946 |
| 25002 | Purnong | SA | 142.0 | 87.7 | 1929 |
| 25006 | Karoonda | SA | 142.4 | 103.6 (Dec) | 1992 |
| | | | | | |
| 25010 | Mindaria | SA | 132.4 | 113.1 (all) | Feb 1969 |
| 25010 | Mindarie | SA | 132.4 | 84.0 (Dec) | 1992 |
| | | | | 84.0 (Dec) 127.3 (all) | 1992 Feb 1973 |
| 25013 | Parilla | SA | 140.6 | 84.0 (Dec) 127.3 (all) 100.4 | 1992 Feb 1973 1937 |
| 25013 25014 | Parilla Paruna | SA SA | 140.6 91.6 | 84.0 (Dec) 127.3 (all) 100.4 87.6 | 1992 Feb 1973 1937 1992 |
| 25013 25014 25015 | Parilla Paruna Pinnaroo | SA SA SA | 140.6 91.6 86.0 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 | 1992 Feb 1973 1937 1992 1992 |
| 25013 25014 25015 25017 | Parilla Paruna Pinnaroo Sandalwood | SA SA SA SA | 140.6 91.6 86.0 113.5 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 | 1992 Feb 1973 1937 1992 1992 1937 |
| 25013 25014 25015 25017 25507 | Parilla Paruna Pinnaroo Sandalwood Keith | SA SA SA SA SA | 140.6 91.6 86.0 113.5 137.8 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 78.1 | 1992 Feb 1973 1937 1992 1992 1937 1937 |
| 25013 25014 25015 25017 25507 25509 | Parilla Paruna Pinnaroo Sandalwood Keith Lameroo | SA SA SA SA SA SA | 140.6 91.6 86.0 113.5 137.8 107.8 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 78.1 88.1 | 1992 Feb 1973 1937 1992 1992 1937 1937 1962 |
| 25013 25014 25015 25017 25507 25509 25513 | Parilla Paruna Pinnaroo Sandalwood Keith Lameroo Peake | SA SA SA SA SA SA | 140.6 91.6 86.0 113.5 137.8 107.8 107.9 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 78.1 88.1 107.0 | 1992 Feb 1973 1937 1992 1992 1937 1937 1962 1929 |
| 25013 25014 25015 25017 25507 25509 25513 25519 | Parilla Paruna Pinnaroo Sandalwood Keith Lameroo Peake Wolseley | SA SA SA SA SA SA SA | 140.6 91.6 86.0 113.5 137.8 107.8 107.9 129.6 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 78.1 88.1 107.0 106.0 | 1992 Feb 1973 1937 1992 1992 1937 1937 1962 1929 1894 |
| 25013 25014 25015 25017 25507 25509 25513 25519 28000 | Parilla Paruna Pinnaroo Sandalwood Keith Lameroo Peake Wolseley Laura | SA SA SA SA SA SA SA SA QLD | 140.6 91.6 86.0 113.5 137.8 107.8 107.9 129.6 410.4 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 78.1 88.1 107.0 106.0 406.6 | 1992 Feb 1973 1937 1992 1992 1937 1937 1962 1929 1894 1976 |
| 25013 25014 25015 25017 25507 25509 25513 25519 28000 30082 | Parilla Paruna Pinnaroo Sandalwood Keith Lameroo Peake Wolseley Laura Gregory Springs | SA SA SA SA SA SA SA QLD QLD | 140.6 91.6 86.0 113.5 137.8 107.8 107.9 129.6 410.4 350.2 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 78.1 88.1 107.0 106.0 406.6 315.4 | 1992 Feb 1973 1937 1992 1992 1937 1937 1962 1929 1894 1976 2000 |
| 25013 25014 25015 25017 25507 25509 25513 25519 28000 30082 30137 | Parilla Paruna Pinnaroo Sandalwood Keith Lameroo Peake Wolseley Laura Gregory Springs Hillgrove | SA SA SA SA SA SA SA QLD QLD QLD | 140.6 91.6 86.0 113.5 137.8 107.8 107.9 129.6 410.4 350.2 399.4 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 78.1 88.1 107.0 106.0 406.6 315.4 254.6 | 1992 Feb 1973 1937 1992 1992 1937 1937 1962 1929 1894 1976 2000 2000 |
| 25013 25014 25015 25017 25507 25509 25513 25519 28000 30082 30137 31029 | Parilla Paruna Pinnaroo Sandalwood Keith Lameroo Peake Wolseley Laura Gregory Springs Hillgrove Herberton | SA SA SA SA SA SA SA QLD QLD QLD QLD QLD | 140.6 91.6 86.0 113.5 137.8 107.8 107.9 129.6 410.4 350.2 399.4 446.2 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 78.1 88.1 107.0 106.0 406.6 315.4 254.6 416.0 | 1992 Feb 1973 1937 1992 1992 1937 1937 1962 1929 1894 1976 2000 2000 1950 |
| 25013 25014 25015 25017 25507 25509 25513 25519 28000 30082 30137 31029 31046 | Parilla Paruna Pinnaroo Sandalwood Keith Lameroo Peake Wolseley Laura Gregory Springs Hillgrove Herberton Mount Garnet | SA SA SA SA SA SA SA QLD QLD QLD QLD QLD QLD | 140.6 91.6 86.0 113.5 137.8 107.8 107.9 129.6 410.4 350.2 399.4 446.2 337.4 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 78.1 88.1 107.0 106.0 406.6 315.4 254.6 416.0 327.0 | 1992 Feb 1973 1937 1992 1992 1997 1937 1962 1929 1894 1976 2000 2000 1950 1997 |
| 25013 25014 25015 25017 25507 25509 25513 25519 28000 30082 30137 31029 31046 33008 | Parilla Paruna Pinnaroo Sandalwood Keith Lameroo Peake Wolseley Laura Gregory Springs Hillgrove Herberton Mount Garnet Byfield | SA SA SA SA SA SA SA QLD QLD QLD QLD QLD QLD QLD | 140.6 91.6 86.0 113.5 137.8 107.8 107.9 129.6 410.4 350.2 399.4 446.2 337.4 770.0 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 78.1 88.1 107.0 106.0 406.6 315.4 254.6 416.0 327.0 651.9 | 1992 Feb 1973 1937 1992 1992 1937 1937 1962 1929 1894 1976 2000 2000 1950 1997 |
| 25013 25014 25015 25017 25507 25509 25513 25519 28000 30082 30137 31029 31046 33008 33013 | Parilla Paruna Pinnaroo Sandalwood Keith Lameroo Peake Wolseley Laura Gregory Springs Hillgrove Herberton Mount Garnet Byfield Collinsville | SA SA SA SA SA SA SA QLD QLD QLD QLD QLD QLD QLD | 140.6 91.6 86.0 113.5 137.8 107.8 107.9 129.6 410.4 350.2 399.4 446.2 337.4 770.0 425.9 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 78.1 88.1 107.0 106.0 406.6 315.4 254.6 416.0 327.0 651.9 410.4 | 1992 Feb 1973 1937 1992 1992 1937 1937 1962 1929 1894 1976 2000 2000 1950 1997 1962 1956 |
| 25013 25014 25015 25017 25507 25509 25513 25519 28000 30082 30137 31029 31046 33008 33013 34000 | Parilla Paruna Pinnaroo Sandalwood Keith Lameroo Peake Wolseley Laura Gregory Springs Hillgrove Herberton Mount Garnet Byfield Collinsville Balfes Creek | SA SA SA SA SA SA QLD QLD QLD QLD QLD QLD QLD QLD | 140.6 91.6 86.0 113.5 137.8 107.8 107.9 129.6 410.4 350.2 399.4 446.2 337.4 770.0 425.9 297.5 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 78.1 88.1 107.0 106.0 406.6 315.4 254.6 416.0 327.0 651.9 410.4 260.3 | 1992 Feb 1973 1937 1992 1992 1937 1937 1962 1929 1894 1976 2000 2000 1950 1997 1962 1956 1906 |
| 25013 25014 25015 25017 25507 25509 25513 25519 28000 30082 30137 31029 31046 33008 33013 34000 35007 | Parilla Paruna Pinnaroo Sandalwood Keith Lameroo Peake Wolseley Laura Gregory Springs Hillgrove Herberton Mount Garnet Byfield Collinsville Balfes Creek Bauhinia Downs | SA SA SA SA SA SA QLD | 140.6 91.6 86.0 113.5 137.8 107.8 107.9 129.6 410.4 350.2 399.4 446.2 337.4 770.0 425.9 297.5 475.2 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 78.1 88.1 107.0 106.0 406.6 315.4 254.6 416.0 327.0 651.9 410.4 260.3 270.6 | 1992 Feb 1973 1937 1992 1992 1937 1937 1962 1929 1894 1976 2000 2000 1950 1997 1962 1956 1906 1988 |
| 25013 25014 25015 25017 25507 25509 25513 25519 28000 30082 30137 31029 31046 33008 33013 34000 35007 35014 | Parilla Paruna Pinnaroo Sandalwood Keith Lameroo Peake Wolseley Laura Gregory Springs Hillgrove Herberton Mount Garnet Byfield Collinsville Balfes Creek Bauhinia Downs Wandoan | SA SA SA SA SA SA SA QLD | 140.6 91.6 86.0 113.5 137.8 107.8 107.9 129.6 410.4 350.2 399.4 446.2 337.4 770.0 425.9 297.5 475.2 413.0 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 78.1 88.1 107.0 106.0 406.6 315.4 254.6 416.0 327.0 651.9 410.4 260.3 270.6 357.8 | 1992 Feb 1973 1937 1992 1992 1937 1937 1962 1929 1894 1976 2000 2000 1950 1997 1962 1956 1906 1988 1970 |
| 25013 25014 25015 25017 25507 25509 25513 25519 28000 30082 30137 31029 31046 33008 33013 34000 35007 | Parilla Paruna Pinnaroo Sandalwood Keith Lameroo Peake Wolseley Laura Gregory Springs Hillgrove Herberton Mount Garnet Byfield Collinsville Balfes Creek Bauhinia Downs | SA SA SA SA SA SA QLD | 140.6 91.6 86.0 113.5 137.8 107.8 107.9 129.6 410.4 350.2 399.4 446.2 337.4 770.0 425.9 297.5 475.2 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 78.1 88.1 107.0 106.0 406.6 315.4 254.6 416.0 327.0 651.9 410.4 260.3 270.6 357.8 238.9 (Dec) | 1992 Feb 1973 1937 1992 1992 1937 1937 1962 1929 1894 1976 2000 2000 1950 1997 1962 1956 1906 1988 1970 1927 |
| 25013 25014 25015 25017 25507 25509 25513 25519 28000 30082 30137 31029 31046 33008 33013 34000 35007 35014 35018 | Parilla Paruna Pinnaroo Sandalwood Keith Lameroo Peake Wolseley Laura Gregory Springs Hillgrove Herberton Mount Garnet Byfield Collinsville Balfes Creek Bauhinia Downs Wandoan Carnarvon Station | SA SA SA SA SA SA SA QLD | 140.6 91.6 86.0 113.5 137.8 107.8 107.9 129.6 410.4 350.2 399.4 446.2 337.4 770.0 425.9 297.5 475.2 413.0 535.8 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 78.1 88.1 107.0 106.0 406.6 315.4 254.6 416.0 327.0 651.9 410.4 260.3 270.6 357.8 238.9 (Dec) 340.2 (all) | 1992 Feb 1973 1937 1992 1992 19937 1937 1962 1929 1894 1976 2000 2000 1950 1997 1962 1956 1906 1988 1970 1927 Feb 1997 |
| 25013 25014 25015 25017 25507 25509 25513 25519 28000 30082 30137 31029 31046 33008 33013 34000 35007 35014 35018 | Parilla Paruna Pinnaroo Sandalwood Keith Lameroo Peake Wolseley Laura Gregory Springs Hillgrove Herberton Mount Garnet Byfield Collinsville Balfes Creek Bauhinia Downs Wandoan Carnarvon Station | SA SA SA SA SA SA SA QLD | 140.6 91.6 86.0 113.5 137.8 107.8 107.9 129.6 410.4 350.2 399.4 446.2 337.4 770.0 425.9 297.5 475.2 413.0 535.8 383.0 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 78.1 88.1 107.0 106.0 406.6 315.4 254.6 416.0 327.0 651.9 410.4 260.3 270.6 357.8 238.9 (Dec) 340.2 (all) 273.5 | 1992 Feb 1973 1937 1992 1992 1993 1937 1962 1929 1894 1976 2000 2000 1950 1997 1962 1996 1996 1996 1988 1970 1927 Feb 1997 |
| 25013 25014 25015 25017 25507 25509 25513 25519 28000 30082 30137 31029 31046 33008 33013 34000 35007 35014 35018 | Parilla Paruna Pinnaroo Sandalwood Keith Lameroo Peake Wolseley Laura Gregory Springs Hillgrove Herberton Mount Garnet Byfield Collinsville Balfes Creek Bauhinia Downs Wandoan Carnarvon Station | SA SA SA SA SA SA SA QLD | 140.6 91.6 86.0 113.5 137.8 107.8 107.9 129.6 410.4 350.2 399.4 446.2 337.4 770.0 425.9 297.5 475.2 413.0 535.8 383.0 268.6 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 78.1 88.1 107.0 106.0 406.6 315.4 254.6 416.0 327.0 651.9 410.4 260.3 270.6 357.8 238.9 (Dec) 340.2 (all) 273.5 213.1 | 1992 Feb 1973 1937 1992 1992 1993 1937 1962 1929 1894 1976 2000 2000 1950 1997 1962 1956 1906 1988 1970 1927 Feb 1997 1956 1916 |
| 25013 25014 25015 25017 25507 25509 25513 25519 28000 30082 30137 31029 31046 33008 33013 34000 35007 35014 35018 | Parilla Paruna Pinnaroo Sandalwood Keith Lameroo Peake Wolseley Laura Gregory Springs Hillgrove Herberton Mount Garnet Byfield Collinsville Balfes Creek Bauhinia Downs Wandoan Carnarvon Station | SA SA SA SA SA SA SA QLD | 140.6 91.6 86.0 113.5 137.8 107.8 107.9 129.6 410.4 350.2 399.4 446.2 337.4 770.0 425.9 297.5 475.2 413.0 535.8 383.0 | 84.0 (Dec) 127.3 (all) 100.4 87.6 71.6 92.8 78.1 88.1 107.0 106.0 406.6 315.4 254.6 416.0 327.0 651.9 410.4 260.3 270.6 357.8 238.9 (Dec) 340.2 (all) 273.5 | 1992 Feb 1973 1937 1992 1992 1993 1937 1962 1929 1894 1976 2000 2000 1950 1997 1962 1996 1996 1996 1988 1970 1927 Feb 1997 |

Table 2. Selected record monthly rainfall totals which have occurred during December 2010 at locations with 50 or more years of data. Values shown in bold are records for any calendar month.

| Station | Name | State | Rainfall | Previous | Year |
|--------------|--------------------|-------|----------|----------------------------|----------|
| number | Name | State | (mm) | record (mm) | 1 cai |
| 35079 | Wharton Creek | OI D | 452.0 | ` ' | 1956 |
| 35079 | wharton Creek | QLD | 452.0 | 307.0 (Dec) 414.3 (all) | Feb 1954 |
| 35194 | Wyseby | QLD | 603.2 | 339.0 (Dec) | 1970 |
| 33194 | Wyseby | QLD | 003.2 | 511.6 (all) | Feb 2010 |
| 36143 | Blackall | QLD | 254.0 | 246.8 | 1965 |
| 39004 | Baralaba | QLD | 461.2 | 353.9 | 1903 |
| 39040 | Gin Gin | QLD | 803.7 | 411.0 | 1973 |
| 39059 | Lady Elliot Island | QLD | 510.0 | 383.4 | 1962 |
| 39066/39039 | Gayndah | QLD | 380.8 | 321.2 | 1902 |
| 39070 | Mount Perry | QLD | 584.8 | 365.4 | 1942 |
| 39073 | Mundubbera | QLD | 428.6 | 321.7 (Dec) | 1959 |
| 37013 | Wundubbera | QLD | 420.0 | 364.4 (all) | Feb 1956 |
| 39089 | Thangool | QLD | 374.4 | 344.4 | 1973 |
| 39104 | Monto | QLD | 499.0 | 248.5 (Dec) | 1973 |
| 37104 | Wionto | QLD | 422.0 | 434.2 (all) | Feb 1971 |
| 39128/39015 | Bundaberg | QLD | 573.2 | 490.3 | 1962 |
| 40021 | Biggenden | QLD | 558.9 | 441.4 | 1942 |
| 40043 | Cape Moreton | QLD | 375.8 | 372.5 | 1965 |
| 40059 | Cooroy | QLD | 559.5 | 521.0 | 1926 |
| 40071 | Lanark | QLD | 462.0 | 328.2 | 1947 |
| 40078 | Eumundi | QLD | 615.8 | 516.7 | 1926 |
| 40082 | UQ Gatton | QLD | 317.0 | 278.7 | 1942 |
| 40098 | Howard | QLD | 631.4 | 543.0 | 1926 |
| 40099 | Imbil | QLD | 575.6 | 454.6 | 1926 |
| 40106 | Kenilworth | QLD | 547.1 | 481.1 | 1926 |
| 40135 | Moogerah Dam | QLD | 363.8 | 308.8 | 1921 |
| 40144 | Mount Joseph | QLD | 521.8 | 477.0 | 1926 |
| 40158 | Nanango | QLD | 365.9 | 333.1 | 1970 |
| 40160 | Nerang | QLD | 481.2 | 392.8 | 1897 |
| 40166 | Oxenford | QLD | 542.2 | 493.8 | 1897 |
| 40170 | Pechey | QLD | 326.0 | 307.2 | 1942 |
| 40177 | Proston | QLD | 399.0 | 282.3 (Dec) | 1970 |
| 40177 | Troston | QLD | 333.0 | 301.4 (all) | Feb 1971 |
| 40198 | Tarome | QLD | 523.4 | 449.9 | 1965 |
| 40231 | Manly | QLD | 467.0 | 397.1 | 1970 |
| 41011 | Cambooya | QLD | 325.6 | 298.9 | 1895 |
| 41018 | Clifton | QLD | 359.0 | 261.8 (Dec) | 1928 |
| | | | | 350.7 (all) | Feb 1893 |
| 41050 | Jandowae | QLD | 376.6 | 268.5 (Dec) | 1921 |
| | | | | 356.4 (all) | Mar 1941 |
| 41069 | Millmerran | QLD | 312.0 | 264.0 | 1970 |
| 41082 | Pittsworth | QLD | 433.6 | 297.5 (Dec) | 1965 |
| | | | | 359.7 (all) | Feb 1893 |
| 41120 | Yangan | QLD | 374.4 | 292.0 | 1975 |
| 43015 | Injune | QLD | 349.9 | 280.4 | 1931 |
| 43020 | Mitchell | QLD | 319.4 | 253.9 | 1931 |
| 47016 | Lake Victoria | NSW | 140.1 | 98.7 | 1975 |
| 51049 | Trangie Research | NSW | 145.2 | 137.4 | 1992 |
| 55006 | Blackville | NSW | 244.4 | 208.9 | 1926 |
| 55023 | Gunnedah Pool | NSW | 232.4 | 185.8 | 2004 |
| 59040 | Coffs Harbour | NSW | 395.4 | 383.2 | 1991 |
| 62013 | Gulgong | NSW | 241.1 | 212.8 | 1958 |

Table 2 (continued). Selected record monthly rainfall totals which have occurred during December 2010 at locations with 50 or more years of data. Values shown in bold are records for any calendar month.

| Station | Name | State | Rainfall | Previous | Year |
|---------|---------------------|-------|----------|-------------|----------|
| number | | | (mm) | record (mm) | |
| 63005 | Bathurst Ag Station | NSW | 219.4 | 194.5 | 1947 |
| 63035 | Hill End | NSW | 257.6 | 220.4 | 1926 |
| 64004 | Binnaway | NSW | 272.0 | 233.4 | 2007 |
| 64008 | Coonabarabran | NSW | 293.8 | 289.6 | 2007 |
| 64009 | Dunedoo | NSW | 279.4 | 194.8 | 1926 |
| 65011 | Cumnock | NSW | 283.0 | 200.2 | 1992 |
| 65018 | Geurie | NSW | 198.0 | 190.4 | 2007 |
| 65020 | Manildra | NSW | 252.6 | 204.5 | 1920 |
| 65023 | Molong | NSW | 241.4 | 214.8 | 1947 |
| 65026 | Parkes | NSW | 212.8 | 171.9 | 1947 |
| 65034 | Wellington | NSW | 184.6 | 173.2 | 2009 |
| 70025 | Crookwell | NSW | 270.8 | 212.4 | 1947 |
| 70083 | Tharwa | ACT | 220.4 | 159.6 | 1961 |
| 73007 | Burrinjuck Dam | NSW | 260.5 | 243.5 | 1947 |
| 76038 | Murrayville | VIC | 122.8 | 82.0 | 1966 |
| 76064 | Walpeup | VIC | 141.6 | 121.6 (Dec) | 1992 |
| | | | | 139.0 (all) | Feb 2000 |
| 76067 | Werrimull | VIC | 132.2 | 74.4 | 1983 |
| 77033 | Patchewollock | VIC | 97.2 | 96.8 | 2004 |
| 77052 | Woomelang | VIC | 119.6 | 101.7 | 1930 |
| 78010 | Dimboola | VIC | 141.0 | 111.8 | 1992 |
| 79010 | Drung Drung | VIC | 142.6 | 137.8 | 1930 |
| 79023 | Horsham | VIC | 150.2 | 145.8 | 1930 |
| 79036 | Natimuk | VIC | 130.6 | 116.5 | 1930 |
| 79075 | Rupanyup | VIC | 148.2 | 124.7 | 1930 |
| 83038 | Tawonga | VIC | 247.8 | 212.0 | 1988 |
| 89003 | Balmoral | VIC | 222.2 | 122.7 (Dec) | 1902 |
| | | | | 197.4 (all) | Jul 1947 |
| 89034 | Willaura | VIC | 169.4 | 162.3 | 1966 |
| 90057 | Merino | VIC | 176.0 | 149.4 | 1986 |

Table 2 (continued). Selected record monthly rainfall totals which have occurred during December 2010 at locations with 50 or more years of data. Values shown in bold are records for any calendar month.

| River | Location | Peak height (m) | Date | Previous record (m) | First year |
|-----------|-------------------------------|-----------------|-------------|----------------------|------------|
| | | _ | | | of data |
| Dawson | Utopia Downs | 14.25 | 28 December | 12.82 (27/4/1989) | 1970 |
| Dawson | Tanara Crossing | 12.50 | 28 December | 12.09 (26/5/1983) | 1983 |
| Dawson | Windamere | 10.52 | 27 December | 10.28 (3/5/1983) | 1975 |
| Dawson | Chilgerrie Hill | 10.85 | 27 December | 10.60 (28/8/1998) | 1983 |
| Dawson | La Palma | 7.70 | 28 December | 7.39 (23/2/1971) | 1956 |
| Dawson | Glebe Weir TW | 18.81 | 31 December | 15.19 (6/5/1983) | 1983 |
| Dawson | Glebe Weir HW | 9.62 | 31 December | 6.15 (6/5/1983) | 1983 |
| Dawson | Gyrandra Weir | 4.80 | 27 December | 3.94 (7/3/2010) | 1988 |
| Dawson | Theodore | 14.70 | 1 January | 14.07 (14/2/1956) | 1924 |
| Dawson | Woodleigh | 18.45 | 2 January | 13.97 (17/1/1996) | 1986 |
| Dawson | Redcliff | 9.01 | 28 December | 7.36 (22/2/1971) | 1958 |
| Dawson | Beckers | 19.47 | 30 December | 15.75 (4/5/1983) | 1965 |
| Nogoa | Raymond | 12+ | 28 December | 11.41 (25/11/1950) | 1947 |
| Nogoa | Craigmore | 18.16 | 29 December | 16.25 (20/1/2008) | 1972 |
| Nogoa | Emerald | 16.05 | 31 December | 15.70 (27/11/1950) | 1950 |
| Comet | Rewan | 11.3+ | 27 December | 10.97 (19/4/1990) | 1987 |
| Comet | Rolleston | 8.2 (approx.) | 28 December | 5.87 (19/2/2010) | 1958 |
| Comet | Comet Weir | 13.94 | 29 December | 13.19 (11/2/1954) | 1922 |
| Mackenzie | Bingegang | 17.45 | 2 January | 17.23 (6/2/1978) | 1974 |
| Barker | Glenmore | 4.45 | 28 December | 4.11 (10/2/1999) | 1988 |
| Boyne | Boondooma Dam | 3.46 | 28 December | 1.30 (28/7/1984) | 1983 |
| Auburn | Glenwood | 14.70 | 29 December | 13.11 (5/2/1971) | 1971 |
| Burnett | Monto | 6.49 | 28 December | 5.96 (9/1/1996) | 1990 |
| Burnett | Lands End | 6.81 | 27 December | 6.45 (7/2/2003) | 1987 |
| Burnett | Wuruma Dam | 3.38 | 28 December | 0.59 (10/2/1971) | 1971 |
| Burnett | Eidsvold | 14.28 | 28 December | 12.36 (8/2/2003) | 1963 |
| Burnett | Gayndah Flume | 16.34 | 28 December | 14.20 (5/2/1971) | 1971 |
| Burnett | Coringa | 10.09 | 27 December | 8.47 (16/3/1992) | 1986 |
| Burnett | Walla | 20.10 | 29 December | 18.07 (5/2/1971) | 1968 |
| Condamine | Clydesdale | 4.78 | 27 December | 4.65 (3/5/1996) | 1971 |
| Condamine | Centenary Bridge (Millmerran) | 8.30 | 28 December | 8.20 (February 1976) | 1976 |
| Condamine | Loudoun Bridge | 11.20 | 29 December | 10.89 (13/2/1976) | 1956 |
| Condamine | Warra-Kogan | 15.00 | 30 December | 14.00 (1956) | 1956 |
| Condumnic | Road Bridge | 13.00 | 30 December | 1 (1550) | 1950 |
| Condamine | Brigalow Bridge | 14.84 | 30 December | 13.99 (14/2/1976) | 1972 |
| Condamine | Beruna Bridge | 7.95 | 28 December | 7.20 (8/2/1981) | 1962 |
| Condamine | Chinchilla Weir | 15.38 | 31 December | 13.97 (8/4/1988) | 1956 |
| Condamine | Condamine | 15.25 | 1 January | 14.25 (13/2/1942) | 1924 |
| Condamine | Cotswold | 17.82 | 2 January | 16.13 (8/5/1983) | 1967 |
| Balonne | Warkon | 12.03 | 3 January | 11.88 (13/1/1996) | 1941 |
| Balonne | Surat | 12.75 | 4 January | 12.40 (3/3/2010) | 1910 |
| Moonie | The Deep | 5.65 | 27 December | 4.45 (10/1/1996) | 1970 |
| | Crossing | | | (20, 2, 2) (0) | 127.0 |
| Moonie | Tartha | 7.00 | 28 December | 6.75 (1956) | 1956 |
| Weir | O'Connor | 14.58 | 28 December | 14.57 (January 1956) | 1956 |
| Boyne | Awoonga Dam | 4.16 | 28 December | 1.74 (7/1/1991) | 1987 |
| Kolan | Fred Haigh Dam | 3.85 | 29 December | 1.73 (12/3/1977) | 1977 |
| ixolali | 1 Icu Haigii Daili | 5.05 | 2) December | 1.13 (12/3/17/17) | 1711 |

Table 3. A selection of record flood peak heights reached during the event at sites with 20 or more years of observations. (HW – headwater/lake level; TW – tailwater/outflow level).