



SIGNIFICANT WEATHER – September 2008

SUMMARY

Parts of central and western Queensland received very much above average rainfall for the month, with a number of places receiving their highest daily and monthly totals on record. The bulk of the rainfall for the month was received during the first week with many places reaching or exceeding their long term average within a few days.

Dust storms were reported in Queensland and New South Wales and snow was reported in New South Wales and Tasmania. Heavy rain from an east coast low early in the month caused minor flooding on the Mid North Coast of New South Wales.

The combination of cold air and light winds produced widespread frosts and very low temperatures in Western Australia. A number of record low minimum temperatures were broken in the Lower West, Great Southern and Central Wheat Belt districts.

THUNDERSTORMS/TORNADOES

Queensland

On the 12th widespread thunderstorms occurred in western Queensland to the east of a surface trough. A wind gust of 100 km/h was recorded at Ballera Gas Field.

On the 19th isolated thunderstorms formed in southeast Queensland with the passage of an upper trough. Kilcoy recorded 28mm of rainfall in 5 minutes with hail to 2cm in diameter and wind gusts over 100 km/h.

Widespread thunderstorms formed in southeast Queensland with the passage of an upper trough on the 20th. Hail up to 2cm was reported south of Amberley while Round Mountain on the Upper Logan river recorded 37mm of rainfall in 20 minutes. Other instances of flash flooding were also recorded during the afternoon.

On the 21st widespread thunderstorms occurred with the passage of an upper trough which combined with a series of thunderstorms in northern New South Wales moving north to the western suburbs of Brisbane. Wind gusts of 110 to 120 km/h and 5cm hail were recorded at Rathdowney. Separate reports of 2-3cm hail and wind gusts up to 100 km/h were

recorded at Rosewood, Minden and near Wivenhoe Dam Wall during the afternoon. There were reports of 4-5cm hail near Ipswich during the late afternoon.

New South Wales

On the 12th a severe thunderstorm with golf ball size hail occurred at Swan Creek and Ulmarra, near Grafton on the North Coast. Strong winds estimated at 100 km/h caused power outages. Up to 37mm of rain was recorded at Ulmarra with 10mm falling in about 4 minutes. Golf ball size hail was also reported in parts of Grafton with small hail accumulating to a depth of 10cm on the ground.

On the 14th, thunderstorms, lightning and strong winds caused power outages to parts of the Orange area on the Central Tablelands. Transmissions from the local radio and television stations were disrupted for several hours. Heavy rain caused minor flooding of streams after 58mm was recorded at Orange airport in 18 hours.

A thunderstorm with golf ball size hail near Kyogle on the North Coast was reported on the 20th. On the same day, a thunderstorm with 2cm hail and strong winds occurred at Loomberah (south east of Tamworth) on the North West Slopes.

On the 21st a thunderstorm with heavy rain was reported in the Tabulam area on the North Coast. Up to 47mm of rain was recorded at Tabulam (Clarence River) and 33mm at Tabulam Post Office.

Strong winds associated with thunderstorms and 2cm size hail caused damage to many houses at Broken Hill in the far west of the state on the 22nd.

Tasmania

Extensive thunderstorms in the north early on the 12th caused power outages for several hours near Beaconsfield and Beauty Point. Other areas affected were Oldina near Devonport, Bell Bay, Perth and Bell Buoy Beach.

South Australia

A heavy convective shower near Minlaton on Yorke Peninsula produced 37mm of rain in less than one hour. Most of the rain occurred in about 30 minutes on the afternoon of the 7th. The heavy rain caused localised flash flooding.

Northern Territory

On the 22nd, a severe thunderstorm affected Alice Springs early in the afternoon. Several cars were smashed by falling trees, and some roofs were ripped off. The majority of homes in Alice Springs lost power during the storm, and there was flash flooding in the eastern parts of town. A wind gust of 102km/h was recorded at Alice Springs Airport.

On the 27th a thunderstorms produced small hail at an outstation near Palm Valley, in the Alice Springs district. The thunderstorm displayed severe characteristics on radar and most likely produced large hail in some remote areas around Palm Valley.

WIND

Queensland

On the 4th a large high pressure system in the Tasman Sea combined with a weak trough off southeast Queensland to bring strong winds to the region. Cape Moreton recorded wind gusts of 93 km/h.

On the 24th a trough sitting offshore of southeast Queensland combined with a high in the Tasman Sea to bring damaging strong winds to the region. Wind gusts of 90-93 km/h were recorded at Double Island Point. Wind gusts of 90-120 km/h were recorded at Cape Moreton.

New South Wales

On the 14th and 15th a line of storms caused strong winds over southern districts of New South Wales. The highest wind gust was 126 km/h at Thredbo and 104 km/h at Cabramurra, both in the Snowy Mountains. The Australian Capital Territory experienced the strongest winds since December 2005 with a wind gust of 98 km/h at Canberra Airport. Mount Ginini in the mountains south west of Canberra recorded a similar gust. There were many reports of falling trees causing damage to buildings and several houses were unroofed. One person was injured in the suburb of Kambah by a fallen tree.

On the 22nd many houses were damaged and trees uprooted when gale force winds from the north west reached 117 km/h at Broken Hill and 115 km/h at Fowlers Gap in the far west of New South Wales. Dozens of houses were unroofed and cars damaged at Hay in the Riverina where wind gusts reached 104 km/h. A Hotel in the main street lost most of its verandah. At Goulburn on the Southern Tablelands, strong winds had damaged the roof of a hotel after winds reached 100 km/h. Tibooburra in the far north west of the state recorded a wind gust of 111 km/h.

Tasmania

Strong winds caused power outages on many days of the month. On the 15th around 7,500 residents in the north lost power for much of the day. There were

several reports of boats dragging their moorings. Part of a roof was blown off at Smithton. On the 20th power was cut to 1,500 residents, mainly in the south and on the 21st another 2,000 residents lost power.

Strong winds in southern Tasmania on the 26th. Gusts to 106 km/h were recorded in Hobart. Several roofs were damaged in the northern suburbs, with 13 reports of serious damage in the area. A school was closed in Mt Fawkner due to roof damage and broken windows. A 12 metre yacht broke its mooring near Kettering.

Strong winds also led to waves as high as 15 metres near Cape Sorell on the 16th.

South Australia

A short burst of gale force west-southwest winds, with gusts to 96 km/h affected Nullarbor on the West Coast mid afternoon on the 13th in the wake of a strong cold front.

On the 14th gale force westerly winds of 60-65 km/h were experienced, squalls to 96 km/h occurred at Cape Jaffa on the Lower South East coast during the early hours.

Numerous severe squalls accompanying showers and thunderstorms occurred over a large area southeast of Elliston to Cleve to Port Pirie to Yunta from the 14th to late afternoon of the 15th. In the Adelaide region the highest recorded wind gusts were 106 km/h at Mount Crawford and 98 km/h at Edinburgh Airport. There were reports of fallen trees and roof damage. More than 23,000 homes and businesses experienced power outages. A man suffered head injuries after a tree fell on his car on the 15th while he was driving between Blyth and Clare in the Mid North.

Squally northerly winds affected parts of the Northeast Pastoral district ahead of a strong front which traversed northern South Australia on the 22nd, with winds briefly gale force at Marree and wind gusts up to 100 km/h recorded at Moomba. Southwest winds of 60-70 km/h blew dust following the front, with sustained gale force winds recorded at Coober Pedy (Northwest Pastoral) and Marree (Northeast Pastoral).

Western Australia

The passage of a cold front on the 12th through the southwest of Western Australia produced wind gusts of 91 km/h at Cape Naturaliste and 107 km/h at Cape Leeuwin. Cape Leeuwin also recorded a wind gust of 98 km/h on the 13th behind the front. As the front moved through the Eucla district on the 13th, Forrest reported a wind gust of 102 km/h. No damage was reported.

On the 14th the passage of a cold front through the southwest of Western Australia produced severe wind gusts: 94 km/h at Cape Leeuwin, 93 km/h at

Cape Naturalise, 91 km/h at Albany Airport and 91 km/h at Esperance Aerodrome. No damage was reported.

On the 18th the passage of a cold front through the southwest of Western Australia produced a wind gust of 102 km/h at Cape Leeuwin.

On the 21st the passage of a cold front produced a number of severe wind gusts in coastal sites of the South West Land Division. There was a marked cold change following the passage of the front. Two Rocks reported a severe storm with wind gusts reaching an estimated >100 km/h with damage to fences, trees, television aerials and possible roof damage.

The following wind gusts were reported: 94 km/h at Cape Leeuwin, 117 km/h at Rottneest Island, 102 km/h at Ocean Reef and 91 km/h at Esperance.

The frontal passage also affected the Goldfields. One house located at Kambalda had its roof lifted whilst a parked car was crushed by a falling tree. There was other minor damage but this was mainly limited to fallen trees. Norseman Airport and Kalgoorlie-Boulder Airport both reported wind gusts to 70 km/h.

On the 30th Forrest recorded a wind gust of 104 km/h in a thunderstorm.

DUST STORMS

Queensland

Dust storms were reported on the following days:

07th	Georgetown
09th	Barcaldine
14th	Birdsville, Bedourie and Thargomindah
15th	Mitchell
22nd	Thargomindah
24th	Croydon

New South Wales

Below to very much below average rainfall over southern New South Wales and extensive areas of South Australia over the past 6 months have produced favourable conditions for the occurrence of dust storms during periods of strong winds.

On the 15th strong northwest winds over the southern half of New South Wales caused severe local dust storms in the Riverina and Lower Western. Visibility was reduced to 200 metres at Ivanhoe and Hay during the afternoon. Raised dust was blown as far east as coastal districts where "raining mud" was reported at Wollongong.

On the 22nd gale force winds gusting to 117 km/h at Broken Hill caused severe dust storms in western and southern New South Wales associated with thunderstorms and a strong cold front. Visibility was

reduced to 200 metres in Broken Hill. The dust storms reached as far east as the South West Slopes where visibility was reduced to under 500 metres in places. The dust subsequently caused muddy rain to fall over vast areas of southern New South Wales and extending to the east coast. In the Snowy Mountains dust gave a reddish tinge to the snow.

SNOW

New South Wales

The Snowy Mountains received significant falls of snow on the 2nd, 3rd and 4th and again on the 15th and 16th. On the morning of the 16th low level snowfalls extended to the Jindabyne-Berridale area of the Southern Tablelands with up to 3cm covering ground above the 1,000 metre level.

Tasmania

Snow to around 600 metres on the morning of the 16th caused closure of some roads in the west of the state.

FLOODING

New South Wales

On the 5th and 6th heavy rain from an east coast low pressure system caused minor to moderate flooding on the Bellinger River near Coffs Harbour on the Mid North Coast. The river peaked at 6.5 metres in the Darkwood area isolating 500 people. Flooding and landslides in the Bellingen area closed several roads. As the low moved south, minor flooding occurred in the Hastings River and moderate flooding in the Paterson and Williams Rivers in the lower Hunter. The Paterson river peaked at 11.5 metres on the 6th after 140mm of rain fell over 3 days in the Maitland area causing moderate flooding of streams in the district. Minor flooding was also recorded in the lower Hunter River and Wollombi Creek, near Singleton.

Following heavy rain in Central Queensland early in the month, there was minor flooding of the Paroo River in the north west of the state from 12th to 19th.

TEMPERATURE

Western Australia

Following the passage of a strong cold front on the 22nd, a high pressure ridge formed across southern Western Australia. The combination of cold air and light winds produced widespread frosts and very low temperatures in some South West Land Division districts. A number of record low minimum temperatures were broken in the Lower West, Great Southern and Central Wheat Belt districts. Some damage was reported to wheat crops in the Central

Wheat Belt and Great Southern districts whilst in the Southwest district low temperatures resulted in yield loss for a number of potato and carrot crops. Perth metropolitan recorded a daily minimum temperature of 1.0°C on the 22nd, breaking the September record of 1.5°C for the lowest daily minimum set on the 1st and 10th of September 2005.

Note: The record tables below are only shown for sites with 30 years or more of observations. (Northern Territory is 20 or more years).

Western Australia

Highest Mean Maximum Temperature for September

Station	Actual °C	Previous Highest °C	Year	Years of Record
New South Wales				
Hillston Airport	23.6	23.3	2007	78
Victoria				
Essendon Airport	19.0	18.8	2006	38
Western Australia				
Eyre	23.7	23.5	1999	49
Northern Territory				
Pirlangimpi AWS	33.9	33.7	1998	23

Highest Mean Minimum Temperature for September

Station	Actual °C	Previous Highest °C	Year	Years of Record
Queensland				
Monto Township	12.0	11.9	1975	35
Texas PO	10.6	10.6	1998	39
New South Wales				
Casino Airport	13.2	13.2	1929	88

Highest Daily Maximum Temperature for September

Station	Actual °C	Date	Previous Highest °C	Year	Years of Record
New South Wales					
Hume Reservoir	28.8	27	28.4	2006	42
Victoria					
Kerang	34.0	27	34.0	2001	45
South Australia					
Parafield A/P	35.0	27	34.3	1987	52
Yongala	32.8	27	31.7	1961	52
Cleve	35.9	27	34.6	1961	51
Eudunda	31.1	27	30.8	1987	44
Meningie	30.7	27	30.0	1999	43
Kimba	35.5	27	34.7	1983	41
Nonning	36.8	27	35.6	1990	39
Edinburgh RAAF	34.9	27	34.4	1987	36

Lowest Daily Maximum Temperature for September

Station	Actual °C	Date	Previous Lowest °C	Year	Years of Record
Queensland					
Surat	13.4	04	14.2	1992	47
New South Wales					
Bankstown Airport	12.6	06	13.1	1970	41

Highest Daily Minimum Temperature for September

Station	Actual °C	Date	Previous Highest °C	Year	Years of Record
New South Wales					
Tibooburra PO	22.9	28	22.8	2003	89
Burrinjuck Dam	14.5	28	14.2	2002	45
Condobolin Ag Research Stn	19.0	28	18.8	1980	45
Tumbarumba PO	15.0	28	14.9	1996	44
Yass (Linton Hostel)	14.8	28	14.3	1995	44
Pindari Dam	17.0	23	16.6	2005	38
Goulburn TAFE	14.7	28	14.5	2002	36
Nerriga Composite	16.3	28	14.0	2006	36
Western Australia					
Brookton	14.0	25	13.5	1972	41

Lowest Daily Minimum Temperature for September

Station	Actual °C	Date	Previous Lowest °C	Year	Years of Record
Tasmania					
Bushy Park (Bushy Park Estates)	-3.7	04	-3.4	2003	48
Western Australia					
Katanning Comparison	-1.4	22	-1.2	2005	102
Pingelly	-1.6	22	-1.1	1970	37
Northern Territory					
Kulgera	-1.0	01	-1.0	2004	26

RAINFALL

Note: The record tables below are only shown for sites with 30 years or more of observations. (Northern Territory is 20 or more years).

Highest Monthly Rainfall on Record for September

Station	Actual mm	Previous Highest mm	Year	Years of Record
Queensland				
Gilberton	63.4	50.8	1943	91
Moorabinda	83.8	79.2	1978	71
Longreach Aero	70.0	60.3	1973	55
Trinidad	65.8	53.3	1971	39
Goodar Station	87.0	84.5	1976	37
Beardmore Dam	82.6	76.4	1998	35
Wallen	56.0	50.2	1998	34
New South Wales				
Pokolbin (Ben Ean)	150.5	144.0	1982	99
Coramba (Glenfiddich)	237.8	231.6	1988	70
Chichester Dam	243.2	181.6	1954	67
Goonumbla (Avondale)	116.6	108.2	1997	67
Williamtown RAAF	179.4	162.2	2006	63
Scone SCS	95.4	89.0	1998	59
Thora Post Office	235.0	223.5	1954	56
Nana Glen (Cowling Close)	181.4	159.8	1959	50
Lower Creek (Cedar Park)	135.6	105.6	1998	47
Pokolbin (Jacksons Hill)	118.0	118.0	2006	47
Upper Rouchel (Mount View)	160.0	146.6	1995	46
Dungog Main Creek (Yeranda)	182.8	159.1	1982	45
Carrabolla (Woodberry)	167.4	155.6	1986	44
Carrow Brook	167.0	151.2	1990	44
Gloucester (Upper Bowman)	162.4	161.7	1982	43
Salisbury (Barrington Wilderness Cottage)	216.6	209.1	1963	42
Bobin (Bobin Creek)	200.0	198.0	1988	40
Birdwood	184.0	115.2	1988	39

Bowmans Creek (Grenell)	133.8	130.8	1970	39
Lostock Dam	130.6	121.5	1995	39
Paterson (Tocal)	165.4	161.4	2006	39
Thumb Creek (Figtree)	222.0	136.6	1988	39
Eungai Creek (Southbank Road)	135.8	123.2	2006	38
Alectown (Bridgewater)	116.0	104.8	1996	37
Leigh (Rolling Acres)	305.8	298.6	1988	34
Bowraville (Cow County)	218.0	117.6	1998	33
Girralong	223.0	113.4	1998	32
Wittittrin	190.5	149.5	1963	32

Western Australia

Norseman	77.0	65.6	1997	111
Mount Howick	131.7	112.2	1978	45
Mount Elizabeth	54.6	51.2	1975	36
The Duke	136.6	113.8	2003	30

Northern Territory

Wycliffe Well	13.0	11.7	1998	21
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Lowest Monthly Rainfall on Record for September

Station	Actual mm	Previous Lowest mm	Year	Years of Record
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Victoria

Melbourne Regional Office	12.0	13.4	1907	154
Seymour Shire Depot	7.8	9.6	1938	128
Bonnie Doon Garage	10.2	12.4	1961	102
Preston Reservoir	14.2	14.3	1938	98
East Sale Airport	11.6	16.4	2007	66
Essendon Airport	11.0	13.0	1938	63
Mildura Airport	2.0	3.0	1957	63
Durham Ox	4.6	5.4	1951	62
Moorabbin Airport	24.8	25.0	1985	57
Baynton	10.0	21.1	1968	55
Sedgwick	16.4	17.0	1995	53
Mangalore Airport	8.6	11.6	1996	52
Terip Terip	16.0	23.4	1961	50
Eppalock Reservoir	6.4	13.0	1982	44
Castlemaine Prison	15.0	22.6	1982	42
Longwood	6.2	6.6	1914	42
Kotta	7.8	9.4	1968	41
Eastville (Bonnie Banks)	10.6	12.0	1982	40
Harcourt	17.8	26.8	1982	40
High Camp (Lannermoor)	12.8	17.8	2007	40
Kanumbra (Brilliant Estate)	23.8	29.8	1994	40
Murchison (Acadia (Sunnyville))	8.8	12.2	2007	40
Murrayville (Ngallo)	5.8	6.4	1982	40
Buxton	33.0	36.1	2006	39
Warracknabeal Museum	9.8	9.8	1987	39
Baringhup (Blue Hills)	12.4	17.2	2002	37
Beaconsfield Upper	44.0	47.3	1968	37
Benloch	20.7	24.0	1990	37
Smeaton (Blampied (Bardia))	22.2	26.1	1968	36
Wanalta DAEN Station	6.6	16.2	1982	35
Lindsay Point	1.6	4.2	1980	34
Cann River	32.1	35.2	1981	33
Chesney Vale (Lake Mokoan No1)	10.0	14.8	2007	31
Tatura (Thiess Services)	8.2	15.0	1987	31
Bundoora (Latrobe University)	16.2	16.7	1981	30
South Australia				
Beltana (Beltana Stn)	0.0	0.0	1995	135
Port Augusta (Carrierloo Stn)	0.0	0.0	2006	127
Woomera (South Gap Stn)	0.0	0.0	2006	127
Woomera (Arcoona)	0.0	0.0	2007	125

Glendambo (Coondambo)	0.0	0.0	2006	124
Marree Comparison	0.0	0.0	2007	124
Belton (Shadow Vale)	0.0	0.0	2003	119
Corny Point	8.0	8.0	1994	118
Cummins	6.0	7.4	2006	95
Cook	0.0	0.0	1994	88
Muloorina Stn (Muloorina Homestead)	0.0	0.0	2007	84
Tarcoola (Bulgunnia)	0.0	0.0	2007	79
Glendambo (Millers Creek)	0.0	0.0	2006	76
Adelaide (Clapham)	1.0	19.0	1987	54
Adelaide A/P	12.2	13.1	1962	54
Andrews (Geralka)	8.2	9.2	2006	52
Cooper Pedy (Ingomar)	0.0	0.0	2007	52
Manoora (Cooinda)	10.2	13.0	2006	52
St Kitts	15.2	15.6	2006	52
Burra Community School	11.2	12.0	2006	48
Burra (Leighton)	5.0	9.0	2006	40
Meningie (Green Plains)	17.4	18.8	1995	40
Sherlock (Warrana)	11.0	12.8	1987	39
Wilmington (Stonehaven)	4.0	5.0	2003	36
Adelaide (Kent Town)	16.0	16.0	1987	32
Mount Gambier (Blue Lake Holiday Park)	39.8	41.4	1977	30

Highest Daily Rainfall on Record for September

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

Gilberton	58.2	25	39.9	1947	91
Gillespie	47.0	04	34.0	1996	128
Wharton Creek Station	35.0	04	34.0	1962	63
Moorabinda	37.4	05	34.6	1992	71
Longreach Aero	42.8	03	29.6	2005	55
Ulcanbah	54.8	04	41.4	1973	66
Albro Station	50.0	04	47.0	1978	30
Gue	16.6	04	10.0	2005	69
Trinidad	45.8	04	22.4	1970	39
Cooroy Composite	106.8	05	84.3	1918	116
Eumundi - Crescent Rd	97.4	05	80.8	1918	101
Caltex Refineries (Qld) Ltd	64.0	06	55.0	1998	45
Wamuran	90.9	05	77.4	1998	55
Maleny Denning Rd	128.0	05	93.0	1998	81
Cannon Hills Bowls Club	48.8	05	45.8	1974	35
Mckenzie Creek	67.4	05	57.6	1975	56
Numinbah	191.0	05	109.0	1988	81
Strathpine Colonial Drive	79.0	05	62.0	1998	32
Greenbank Thompson Rd	37.2	05	36.2	1998	31
Cooranga North	53.6	22	46.5	1964	47
Top Plains	43.2	05	42.4	1982	57
Beardmore Dam	44.8	05	38.0	1988	35
Namarah	54.8	05	43.0	1995	44
Cheepie PO	41.0	04	40.1	1966	64
Bogarella	54.0	04	45.2	1973	85

New South Wales

Bulahdelah PO	86.0	06	81.3	1917	103
Comboyne PO	174.0	06	163.8	1934	103
Manildra PO	48.0	06	45.4	1996	97
Gosford (Narara RS)	109.6	06	106.9	1970	91
Chichester Dam	161.6	06	120.0	1988	67
Goonumbla (Avondale)	68.4	15	51.0	1974	67
Long Flat PO	99.0	06	82.6	1914	59
Brays Creek (Misty Mountain)	59.0	05	55.0	1982	56
Ourimbah (Dog Trap Road)	111.0	06	107.2	1970	56
Thora PO	119.0	06	69.0	1998	56
Meldrum (Coolawarra)	112.4	05	109.2	1954	52
Carrow Brook	105.0	06	100.6	1963	46
Kangaroo Creek (Jaloom)	61.4	05	47.8	1982	46

Dungog Main Creek (Yeranda)	96.8	06	89.4	1963	45
Carrabolla (Woodberry)	92.0	09	90.4	1988	44
Gloucester (Upper Bowman)	98.4	06	82.2	1982	43
Bobin (Bobin Creek)	124.2	06	113.0	1963	42
Paterson (Tocal)	72.6	06	61.8	2006	41
Birdwood	98.4	06	89.6	1988	40
Alectown (Bridgewater)	57.0	15	56.0	1974	39
Lostock Dam	77.0	06	67.6	1988	39
Tabulam (Muirme)	55.0	05	38.1	1973	39
Thumb Creek (Figtree)	91.0	05	88.0	1988	39
Loadstone (High View)	42.5	05	38.2	2006	38
Bretti (Vinegar Hill)	69.8	06	53.3	1971	37
Tyalgum (Kerrs Lane)	76.0	05	75.6	1988	37
Upper Rollands Plains (Greenacres)	79.8	06	66.2	1988	37
Bowraville (Cow Cownty)	88.0	06	87.0	1988	36
Girralong	106.6	05	75.0	1988	32
Wittittrin	81.0	06	75.8	1976	32
Tyringham (Glenferneigh (Ring Tree))	50.0	05	38.2	1988	31
Gosford North (Glennie St)	93.0	06	90.0	1985	30
Western Australia					
Gingin	55.0	26	44.0	1999	102
Norseman	58.8	27	30.6	2003	102
Kellerberrin	26.2	26	23.6	1913	101
Northam	33.6	26	31.2	1973	101
Koorikin	32.4	26	29.2	1948	97
Doodlakine	24.2	25	22.4	1992	96
Millston	25.0	26	24.1	1962	96
Fort Hill	28.5	26	27.9	1949	92
Breakell	30.8	26	30.2	1958	86
Bungulla	31.0	26	30.5	1955	81
Quellington	56.0	26	38.1	1953	81
Hyden	32.0	26	28.2	1952	79
Lake Camm	29.0	25	28.7	1959	79
Graham Rock	39.6	26	24.9	1958	75
Bonnie Rock	26.0	27	25.4	1968	73
Karlgarin	27.6	26	21.8	1958	72
Walgoolan North	23.0	26	23.0	2006	71
Jaroma	36.6	25	31.0	1973	67
Monte Vista	24.6	26	23.0	1995	41
North Ravensthorpe	33.0	26	23.4	1997	41
Lorinna	32.8	27	26.8	1985	37
Mordetta	31.4	26	20.0	1992	37
Mount Elizabeth	47.0	03	29.2	1974	36
Oldfield	30.0	26	23.2	1985	35
Mount Howick	53.0	27	32.2	1978	34
The Duke	54.0	27	29.2	1973	31

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