

Annual Weather Review

Armidale NSW - 2016

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2016 was a very warm, cloudy year with average rainfall.

RAINFALL: The total of 780.6 mm was just 3 mm lower than the long term average (LTA). Above average rain fell in January, June, August, September and October, and below average in the remainder. August was the wettest month recording 143.0 mm, and February was the driest with just 21.2 millimetres. Conditions were particularly dry from February through to May, with good falls during the winter and early spring months. The highest daily fall during the year was 49.8 mm on 3rd August.

TEMPERATURES: 2016 was Armidale's warmest year on record from 126 years of reliable temperatures recordings commencing in 1891, with February, March, April, May and December having the highest deviations above the LTA for day temperatures. The hottest day of the year was 26th February at 34.6 degrees. The coldest day was 27th June with a maximum of just 3.6 degrees, and the coldest overnight minimum was -7.0 degrees on 30th. Overnight temperatures were mostly close to normal except in April, June and July which were much warmer than the LTA.

WINDS: Winds were light in January, March and August, moderate to strong in June, and moderate in all other months. The year totalled 19 windy days* (annual average 19 days). Wind direction at 3pm: west: 150 days, east: 60 days, north-west: 48 days, south-west: 31 days, south-east: 28 days, north: 19 days, north-east: 18 days, south: 12 days.

EVAPORATION: Total pan evaporation for the year was 1,194.4 millimetres which was 6 mm lower than the LTA. Average daily evaporation for the year was 3.3 mm.

FROSTS: Total number of frosts was 86 which was 13 less than the LTA. August was the frostiest month recording 22 frosts. There were 42 light frosts, 33 moderate frosts and 11 severe frosts**. The first frost was unusually late on 5th May which produced a frost-free period of 215 days over the summer of 2015-16. The last frost was on 26th October.

FOGS: There were fogs on 29 days which is two less than the annual average. The foggiest month was April with fogs on 7 days. There were two late evening fogs with the remainder in the early mornings.

SNOW: There were no snowfalls with the exception of 27th June when there was a very light fall in the evening in South Armidale. This was not classified as a snow day as no snow fell in the centre of Armidale. The annual average is 2.2 days of snow.

THUNDERSTORMS: It was a thundery year with storms on 43 days, 6 more than the LTA. Thunderstorm activity was highest in January, March, November and December. There were no severe storms.

HAIL: Hail fell on 3 days - 28th May (soft hail - hailstones less than 5 mm diameter), 27th October (hailstones up to 10 mm diameter), 23rd December (hailstones up to 10 mm diameter). The annual average is 3.3 hail days.

FLOODS: Minor flooding occurred in Dumaresq Creek on 5th January, 5th June, 25th August, 16th & 19th September & 31st October. Moderate flooding occurred on 3rd, 4th & 24th August, 3rd September & 23rd December. Minor brief flash flooding may have occurred on other dates not noted here.

LTA - Long Term Average * Windy day - average wind speed higher than 20 kms per hour: 9am to 6pm

** Intensity of frosts: light - minimum temp > 0.0C, moderate - minimum temp -3.9C to -0.1C, severe - minimum temperature < -3.9C.

Weather Statistics 2016 - Armidale NSW

Data recorded at East Armidale, elevation 987 metres, Bureau of Meteorology station no 56037

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
RAINFALL mm	124.6	21.2	28.0	31.6	41.2	97.8	33.6	143.0	73.4	76.6	29.6	80.0	780.6
<i>Long Term Average mm</i>	<i>101.4</i>	<i>88.3</i>	<i>65.0</i>	<i>45.3</i>	<i>42.9</i>	<i>55.0</i>	<i>47.9</i>	<i>47.6</i>	<i>50.7</i>	<i>67.3</i>	<i>83.3</i>	<i>89.1</i>	<i>784.0</i>
RAIN DAYS	17	5	7	10	5	17	7	9	15	9	6	12	119
<i>Long Term Average days</i>	<i>10</i>	<i>10</i>	<i>10</i>	<i>8</i>	<i>8</i>	<i>10</i>	<i>9</i>	<i>9</i>	<i>8</i>	<i>9</i>	<i>9</i>	<i>10</i>	<i>110</i>
HIGHEST DAILY RAINFALL mm	26.6	11.2	11.4	15.0	26.4	38.6	11.4	49.8	11.4	18.0	11.2	39.6	49.8
Day	6	5	30	9	27	5	22	3	22	22	10	24	
AVERAGE DAILY MAX TEMP deg C	25.6	27.3	26.3	22.8	19.6	13.3	14.1	14.6	16.7	19.7	24.7	28.1	21.1
<i>Long Term Average deg C</i>	<i>26.4</i>	<i>25.4</i>	<i>23.4</i>	<i>20.0</i>	<i>16.3</i>	<i>13.1</i>	<i>12.4</i>	<i>14.2</i>	<i>17.7</i>	<i>20.8</i>	<i>23.0</i>	<i>25.0</i>	<i>19.8</i>
AVERAGE DAILY MIN TEMP deg C	12.4	12.6	11.2	8.5	2.9	3.4	1.7	0.5	5.3	4.9	7.1	11.9	6.9
<i>Long Term Average deg C</i>	<i>12.7</i>	<i>12.5</i>	<i>10.2</i>	<i>6.4</i>	<i>3.0</i>	<i>0.7</i>	<i>-0.3</i>	<i>-0.2</i>	<i>2.5</i>	<i>5.5</i>	<i>9.0</i>	<i>11.1</i>	<i>6.1</i>
AVERAGE GRASS MIN TEMP deg C	8.4	7.8	6.8	3.4	-2.7	-0.2	-2.8	-3.9	1.9	0.3	1.8	8.1	2.4
<i>Long Term Average deg C</i>	<i>9.7</i>	<i>9.8</i>	<i>7.1</i>	<i>3.0</i>	<i>-1.6</i>	<i>-3.0</i>	<i>-4.1</i>	<i>-4.3</i>	<i>-1.5</i>	<i>1.8</i>	<i>6.1</i>	<i>8.2</i>	<i>2.6</i>
HIGHEST MAXIMUM TEMP deg C	32.6	34.6	30.4	28.0	24.8	20.3	21.2	21.0	20.1	25.6	29.2	33.4	34.6
Day	14	26	2	6,7	8	9	20	30	12	10	19	5	
LOWEST MAXIMUM TEMP deg C	16.2	20.7	20.0	15.8	10.2	3.6	6.9	8.0	11.3	14.5	17.0	21.0	3.6
Day	3	4	30	25	28	27	24	3	3	13	1	9	
HIGHEST MINIMUM TEMP deg C	19.4	19.1	15.9	13.9	13.0	10.0	14.2	8.5	12.5	14.8	12.9	17.0	19.4
Day	23	27	9	8	10	19	21	23	15	31	13	6,7,16	
LOWEST MINIMUM TEMP deg C	5.7	9.0	3.9	3.4	-7.0	-6.4	-6.1	-4.0	-3.4	-0.9	2.2	5.6	-7.0
Day	8	8	23	1	30	26	3	14	5	24	2	10	
LOWEST GRASS MIN TEMP deg C	0.8	3.3	-1.0	-1.5	-12.9	-11.1	-11.0	-9.6	-6.6	-4.9	-2.6	0.9	-12.9
Day	8	8	23	1,24	30	26	4	21	5	12	25	10	
FROSTS	0	0	0	0	15	9	19	22	10	11	0	0	86
<i>Long Term Average days</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>5</i>	<i>14</i>	<i>17</i>	<i>19</i>	<i>20</i>	<i>15</i>	<i>7</i>	<i>1</i>	<i>0</i>	<i>99</i>
FOGS days	0	5	1	7	4	5	3	2	2	0	0	0	29
<i>Long Term Average days</i>	<i>1</i>	<i>1</i>	<i>3</i>	<i>5</i>	<i>5</i>	<i>4</i>	<i>3</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>31</i>
THUNDERSTORMS days	7	1	6	5	0	0	0	2	1	4	7	10	43
<i>Long Term Average days</i>	<i>6</i>	<i>5</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>1</i>	<i>2</i>	<i>4</i>	<i>6</i>	<i>8</i>	<i>37</i>
EVAPORATION (Class A Pan) mm	132.4	155.8	129.4	84.2	67.4	36.2	43.2	51.4	64.2	114.8	156.8	158.6	1194.4
<i>Long Term Average mm</i>	<i>161.2</i>	<i>125.4</i>	<i>114.0</i>	<i>75.9</i>	<i>50.4</i>	<i>36.7</i>	<i>42.0</i>	<i>65.3</i>	<i>95.7</i>	<i>128.3</i>	<i>135.5</i>	<i>158.5</i>	<i>1188.6</i>
AVGE. DAILY EVAPORATION mm	4.3	5.4	4.2	2.8	2.2	1.2	1.4	1.7	2.1	3.7	5.2	5.1	3.3
AVERAGE DAILY WIND RUN km	99.4	129.1	104.1	95.5	118.1	177.8	168.7	87.7	166.2	166.1	124.9	121.1	129.9
<i>Long Term Average km</i>	<i>154.3</i>	<i>147.0</i>	<i>141.4</i>	<i>125.8</i>	<i>124.1</i>	<i>145.6</i>	<i>152.9</i>	<i>165.9</i>	<i>171.1</i>	<i>158.3</i>	<i>154.1</i>	<i>155.3</i>	<i>149.6</i>
PREVAILING 3PM WIND DIRECTION	E	E	E	E	W	W	W	W	W	W	W	W	-
FINE SUNNY DAYS ^	11	20	9	9	16	4	13	13	8	15	16	10	144
<i>Long Term Average days</i>	<i>15</i>	<i>12</i>	<i>16</i>	<i>16</i>	<i>15</i>	<i>13</i>	<i>15</i>	<i>18</i>	<i>19</i>	<i>18</i>	<i>13</i>	<i>15</i>	<i>187</i>
MAXIMUM TEMP > 29.9 deg. days	7	7	1	0	0	0	0	0	0	0	0	9	24
MAXIMUM TEMP < 10.0 deg. days	0	0	0	0	0	6	3	2	0	0	0	0	11
MINIMUM TEMP < 5.0 deg. days	0	0	1	7	23	17	24	25	12	14	7	0	130

^ Fine Sunny Day - a dry sunny day generally free from excessive cloud