

Annual Weather Review

Armidale NSW - 2021

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2021 was year of good rainfall and cooler than normal day temperatures. It was a cloudy year with only 139 sunny days, 45 less than the long term average (LTA).

RAINFALL: The above average rainfall experienced in 2020 continued into 2021. The total for the year of 991.8 millimetres was 211 mm higher than the LTA, and was the wettest year since 2011. Rainfall was well above average in February, March, July, August, October, November and December with close to or below average rain in the remaining months. The higher than normal rainfall in November and December was the result of a developing La Nina weather event in the Pacific Ocean. November was the wettest month recording 192.8.0 mm, and May was the driest with 21.2 mm. The highest daily fall was 37.8 mm on 28th February.

TEMPERATURES: Day temperatures overall were a little cooler than normal while overnight minimums were close to normal. The months with the greatest deviations below the LTA maximum were January, February, March and November, while August was unusually warmer than the LTA. Temperatures reached 30.0C on just 3 days, 14 less than the LTA. Highest was 30.9C on 27th January, the coldest day was 10th June with a maximum of 5.5C, and the coldest overnight minimum was -7.6C on 7th July.

WINDS: Winds were moderate in June, July, August, October and November, and light in the remaining months. The year totalled 8 windy days* (annual average 19 days). Wind direction at 3pm: west: 141 days, east: 76 days, south-west: 50 days, north-west: 38 days, south-east: 20 days, north-east: 15 days, south: 14 days, north: 11 days.

EVAPORATION: As a result of the high number of cloudy days the total pan evaporation for the year was much lower than normal totalling 1043.4 mm, 153 mm less than the LTA. Average daily evaporation for the year was 2.9 mm.

FROSTS: Total number of frosts was 86 which was 12 less than the LTA. August was the frostiest month recording 16 frosts. There were 23 light frosts, 46 moderate frosts, and 17 severe frosts**. The first frost was on 12th April, ending a frost-free period of 178 days over the summer of 2020-21, and the last frost was on 26th October.

FOGS: There were fogs on 25 days which is six less than the LTA. The foggiest month was May with fogs on nine days. There were four late evening fogs with the remainder occurring in the early mornings.

SNOW: There were no snowfalls. The annual average is 2.2 snow days.

THUNDERSTORMS: There were storms on 28 days of the year, nine less than the LTA. Thunderstorm activity was highest in January and December with storms occurring on six days in those months. A severe thunderstorm in the evening of 14th October produced large hailstones, and a tornado which caused severe damage to parts of North Armidale. Details in the October Monthly Weather Review.

HAIL: Hail was observed on one day during a severe thunderstorm in the evening on 14th October. Hailstones measured 20 to 30 mm in diameter and caused damage to vehicles across much of Armidale. There may have been additional falls of small hail during thunderstorms on other dates which were not recorded. The annual average is 3.3 hail days.

FLOODS: Flash flooding occurred in Dumaresq Creek on 24 Jan. Minor flooding on 27 Jan; 24 Mar; 16 Jul; 4 & 25 Aug; 1 Oct; 8, 23 & 27 Nov; 5 & 10 Dec. Moderate flooding on 23 Mar; 3 & 24 Aug; 22 Nov; 1, 2 & 9 Dec. Flash flooding may also have occurred on other dates not noted here.

Weather Statistics 2021 - 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	34.0	123.2	135.6	30.4	21.2	57.8	73.2	77.6	36.4	84.4	192.6	125.4	991.8
Long Term Average mm	101.6	87.9	65.3	44.7	42.4	54.8	47.3	47.6	50.3	67.6	81.8	89.2	780.6
RAIN DAYS	13	17	14	7	5	11	12	11	9	14	16	14	143
Long Term Average days	10	10	10	8	8	10	9	9	8	9	9	10	110
HIGHEST DAILY RAINFALL mm	11.8	37.8	37.2	21.4	11.6	17.6	15.4	24.0	15.0	19.8	34.6	28.0	37.8
Day	7	28	23	18	5	4	2	24	30	1	27	1	
AVERAGE DAILY MAX TEMP deg C	25.5	24.5	22.5	19.2	16.7	13.1	13.3	15.8	18.5	21.2	21.4	24.4	19.7
Long Term Average deg C	26.7	25.6	23.6	20.2	16.4	13.2	12.7	14.4	17.9	20.9	23.2	25.3	20.0
AVERAGE DAILY MIN TEMP deg C	11.6	12.7	11.4	4.3	2.3	1.7	0.7	0.9	1.8	6.1	10.9	11.7	6.3
Long Term Average deg C	12.9	12.6	10.4	6.5	2.9	0.9	-0.3	-0.2	2.5	5.7	8.9	11.2	6.2
AVERAGE GRASS MIN TEMP deg C	8.4	9.3	8.7	0.8	-2.1	-2.5	-2.8	-2.0	-1.9	3.0	9.0	10.3	3.2
Long Term Average deg C	9.8	9.7	7.3	2.9	-1.7	-2.8	-4.3	-4.5	-1.5	1.9	5.6	8.1	2.5
HIGHEST MAXIMUM TEMP deg C	30.9	29.4	28.5	23.7	21.0	18.5	19.6	21.8	23.0	28.9	26.2	30.6	30.9
Day	27	23	1	9	3	16	31	1	11	23	10	21	
LOWEST MAXIMUM TEMP deg C	17.9	20.0	15.6	13.0	11.5	5.6	8.5	7.2	9.5	12.2	14.0	17.5	5.6
Day	7,8	27	22	17	5	10	21	24	21	12	13	5	
HIGHEST MINIMUM TEMP deg C	17.6	16.8	15.2	13.6	11.8	9.9	11.0	9.5	10.0	13.4	17.2	16.1	17.6
Day	28	2	21,24	6	8	25	16	3	5	30	26	22	
LOWEST MINIMUM TEMP deg C	4.0	6.0	5.0	-3.1	-5.0	-5.6	-7.6	-5.0	-4.0	-1.1	2.0	6.2	-7.6
Day	17	15	28	12	16	28	7	29	7	7	16	11	
LOWEST GRASS MIN TEMP deg C	1.1	1.9	2.0	-6.7	-10.1	-8.8	-10.4	-8.0	-7.3	-5.1	-0.4	4.9	-10.4
Day	17	15	31	22	17	6	7	29	22	6	16	31	
FROSTS	0	0	0	9	15	13	15	16	14	4	0	0	86
Long Term Average days	0	0	1	5	14	16	20	20	15	6	1	0	98
FOGS days	0	1	0	6	9	0	3	3	1	0	0	2	25
Long Term Average days	1	1	3	4	5	5	3	2	2	2	1	1	31
THUNDERSTORMS days	6	4	2	0	0	2	1	1	0	3	3	6	28
Long Term Average days	7	5	3	1	1	0	0	1	2	4	6	8	37
EVAPORATION (Class A Pan) mm	139.4	104.8	99.4	70.0	46.8	33.8	40.8	63.8	88.8	121.0	101.4	133.4	1043.4
Long Term Average mm	162.3	127.0	113.7	76.4	50.9	36.4	42.0	66.0	95.9	127.0	138.9	159.6	1196.4
AVGE. DAILY EVAPORATION mm	4.5	3.7	3.2	2.3	1.5	1.1	1.3	2.1	3.0	3.9	3.4	4.3	2.9
AVERAGE DAILY WIND RUN km	118.5	116.7	126.7	96.7	80.2	143.7	176.8	136.4	125.2	167.6	152.6	115.1	129.7
Long Term Average km	148.5	144.0	137.4	121.9	121.6	141.5	151.0	162.7	168.8	155.4	151.8	151.3	146.8
PREVAILING 3PM WIND DIRECTION	E	E	W	W	W	W	W	W	W	W	W	E	-
FINE SUNNY DAYS ^	9	6	8	15	16	10	12	17	17	15	4	10	139
Long Term Average days	15	12	15	15	15	13	15	19	19	17	14	15	184
MAXIMUM TEMP > 29.9 deg. days	1	0	0	0	0	0	0	0	0	0	0	2	3
MAXIMUM TEMP < 10.0 deg. days	0	0	0	0	0	3	5	2	1	0	0	0	11
MINIMUM TEMP < 5.0 deg. days	1	0	0	20	20	21	26	28	23	14	2	0	155

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