

ATTACHMENT 24 BEGA WEATHER DATA

Monthly Climate Statistics for 'BEGA (NEWTOWN ROAD)' [069002]																
Created on [09 May 2018 13:41:04 GMT+00:00]																
069002 BEGA (NEWTOWN ROAD)																
Commenced: 1879																
Last Record: 2018																
Latitude: 36.69 Degrees South																
Longitude: 149.84 Degrees East																
Elevation: 50 m																
State: NSW																
Statistic Element	January	February	March	April	May	June	July	August	September	October	November	December	Annual	Number of	Start Year	End Year
Mean maximum temperature (Degrees C) for years 1907 to 1994	27	27	25.7	23	19.7	16.9	16.7	18.2	20.5	22.5	24	25.9	22.3	76	1907	1994
Highest temperature (Degrees C) for years 1965 to 1994	44.5	42.6	41	33.9	29.1	23.3	27.5	28.3	36.6	35.7	43.1	43.8	44.5	28	1965	1994
Date of Highest temperature for years 1965 to 1994	9-Jan-79	8-Feb-82	7-Mar-83	12-Apr-68	11-May-80	1-Jun-76	30-Jul-75	20-Aug-77	30-Sep-80	13-Oct-77	18-Nov-80	12-Dec-75	9-Jan-79	N/A	1965	1994
Lowest maximum temperature (Degrees C) for years 1965 to 1994	16.9	15.9	15.4	14.6	11.3	8.7	8.5	10.5	10.3	11.4	13.4	13.5	8.5	28	1965	1994
Date of Lowest maximum temperature for years 1965 to 1994	1-Jan-80	21-Feb-93	29-Mar-73	30-Apr-66	6-May-70	29-Jun-83	23-Jul-93	3-Aug-81	7-Sep-77	3-Oct-83	2-Nov-74	3-Dec-68	23-Jul-93	N/A	1965	1994
Decile 1 maximum temperature (Degrees C) for years 1965 to 1994	21.8	21.5	20.7	18.9	16	13.5	13.5	14.6	15.6	17	18.5	20.4		29	1965	1994
Decile 9 maximum temperature (Degrees C) for years 1965 to 1994	33.1	32.9	30.2	27.4	23.4	19.6	20	21.2	24.8	27.8	29.1	31.2		29	1965	1994
Mean number of days >= 30 Degrees C for years 1965 to 1994	7.1	6	3.5	0.6	0	0	0	0	0.4	1.8	2.4	4.8	26.6	28	1965	1994
Mean number of days >= 35 Degrees C for years 1965 to 1994	1.7	1.6	0.5	0	0	0	0	0	0	0.1	0.6	1	5.5	28	1965	1994
Mean number of days >= 40 Degrees C for years 1965 to 1994	0.2	0.3	0.1	0	0	0	0	0	0	0	0.1	0.2	0.9	28	1965	1994
Mean minimum temperature (Degrees C) for years 1907 to 1994	14.2	14.5	12.6	8.9	5.5	2.9	1.4	2.6	5.1	8.2	10.7	12.9	8.3	77	1907	1994
Lowest temperature (Degrees C) for years 1965 to 1994	4	5	2.5	-2.2	-3.1	-5.9	-8.1	-4.9	-3.6	-1	0.6	2.2	-8.1	28	1965	1994
Date of Lowest temperature for years 1965 to 1994	13-Jan-75	7-Feb-80	31-Mar-70	27-Apr-67	24-May-66	29-Jun-68	16-Jul-70	14-Aug-71	13-Sep-71	10-Oct-71	4-Nov-80	5-Dec-67	16-Jul-70	N/A	1965	1994
Highest minimum temperature (Degrees C) for years 1965 to 1994	22.7	24.2	20.5	20.6	18	13.9	12.5	11.8	14.4	16.3	20.1	21.2	24.2	28	1965	1994
Date of Highest minimum temperature for years 1965 to 1994	31-Jan-73	6-Feb-73	7-Mar-86	5-Apr-81	2-May-88	7-Jun-88	14-Jul-75	25-Aug-68	26-Sep-90	31-Oct-66	28-Nov-68	12-Dec-81	6-Feb-73	N/A	1965	1994
Decile 1 minimum temperature (Degrees C) for years 1965 to 1994	10	10.2	8.5	4.1	0.8	-1.5	-2.6	-1.6	0.5	3.6	6.2	8.5		29	1965	1994
Decile 9 minimum temperature (Degrees C) for years 1965 to 1994	18.2	18.5	16.8	14.5	10.6	8.3	6.1	7.1	9.6	13	15.2	17.2		29	1965	1994
Mean number of days <= 2 Degrees C for years 1965 to 1994	0	0	0	0.7	6.4	14.6	19.9	15.7	6.8	1.2	0.2	0	65.5	28	1965	1994
Mean number of days <= 0 Degrees C for years 1965 to 1994	0	0	0	0.1	1.6	8.5	12.9	8.3	2.3	0.2	0	0	33.9	28	1965	1994
Mean daily ground minimum temperature Degrees C for years null to null																
Lowest ground temperature Degrees C for years null to null																
Date of Lowest ground temperature for years null to null														N/A		
Mean number of days ground min. temp. <= -1 Degrees C for years null to null																
Mean rainfall (mm) for years 1879 to 2018	80.6	91.7	96.1	70	72.2	81.3	51.9	50.8	50.9	67.7	68.4	77.5	862.7	122	1879	2018
Highest rainfall (mm) for years 1879 to 2018	431.8	730.9	669.9	409.5	635.9	689	354.9	326.6	240	369.4	301.4	324.6	1833.2	133	1879	2018
Date of Highest rainfall for years 1879 to 2018	1911	1919	1914	1934	1925	1891	1922	1901	1892	1976	1973	1992	1934	N/A	1879	2018
Lowest rainfall (mm) for years 1879 to 2018	1.6	0	0	0	0.6	0	0	0	0	0.8	0	1	398.9	133	1879	2018
Date of Lowest rainfall for years 1879 to 2018	1932	2014	2004	1910	1982	1962	1970	1948	1907	1895	1926	1972	1885	N/A	1879	2018
Decile 1 monthly rainfall (mm) for years 1879 to 2018	14.6	9.3	8.4	8	5.2	7.2	2.8	3.8	10.6	16.6	11.8	14.8	519.5	134	1879	2018
Decile 5 (median) monthly rainfall (mm) for years 1879 to 2018	57.9	50	56.8	38.1	34.8	43.9	26.9	27.6	32.6	52.7	53.5	52.6	807.1	134	1879	2018
Decile 9 monthly rainfall (mm) for years 1879 to 2018	160	210.8	260	154.8	187.1	196.8	143.4	124.8	116.2	142	142.3	180.6	1275.1	134	1879	2018
Highest daily rainfall (mm) for years 1879 to 2018	192.8	454.2	384.8	176.5	252.5	196.3	179.4	162.3	129.5	151.9	189.2	235.4	454.2	134	1879	2018
Date of Highest daily rainfall for years 1879 to 2018	8-Jan-34	27-Feb-19	4-Mar-61	21-Apr-188	27-May-00	30-Jun-13	7-Jul-88	23-Aug-57	16-Sep-62	25-Oct-20	5-Nov-73	6-Dec-92	27-Feb-19	N/A	1879	2018
Mean number of days of rain for years 1879 to 2018	8	7.6	8.3	7.1	7.1	7.2	5.8	6.4	7.3	8.9	8.7	8.4	90.8	134	1879	2018
Mean number of days of rain >= 1 mm for years 1879 to 2018	6.4	6.2	6.5	5.5	5.2	5.3	4.1	4.6	5.4	6.7	7	6.7	69.6	134	1879	2018
Mean number of days of rain >= 10 mm for years 1879 to 2018	2.2	2.1	2.1	1.7	1.5	1.7	1.2	1.3	1.3	1.8	2	2.2	21.1	134	1879	2018
Mean number of days of rain >= 25 mm for years 1879 to 2018	0.8	0.7	0.9	0.7	0.7	0.9	0.5	0.5	0.4	0.5	0.5	0.7	7.8	134	1879	2018
Mean daily wind run (km) for years null to null																
Maximum wind gust speed (km/h) for years null to null																
Date of Maximum wind gust speed for years null to null														N/A		
Mean daily sunshine (hours) for years null to null																
Mean daily solar exposure (MJ/(m*m)) for years 1990 to 2018	22.7	19.6	16.5	12.6	9.5	7.4	8.6	11.7	15.7	19.3	21.4	22.6	15.6	28	1990	2018
Mean number of clear days for years 1965 to 1994	6.8	5.9	6.8	7.2	6.5	7.6	9.7	8.7	7.7	6.9	5.8	5.7	85.3	30	1965	1994
Mean number of cloudy days for years 1965 to 1994	12.7	12.2	12.2	10.8	12.3	10.9	9.3	9.4	10.4	12.5	13.3	13.8	139.8	30	1965	1994
Mean daily evaporation (mm) for years null to null																
Mean 9am temperature (Degrees C) for years 1910 to 1994	20.4	19.8	17.8	14.1	9.9	6.8	5.7	8	12	15.8	17.9	20	14	77	1910	1994
Mean 9am wet bulb temperature (Degrees C) for years 1910 to 1994	17.3	17.4	15.7	12.4	8.6	5.7	4.5	6.3	9.7	12.9	14.7	16.5	11.8	76	1910	1994
Mean 9am dew point temperature (Degrees C) for years 1985 to 1994														9	1985	1994
Mean 9am relative humidity (%) for years 1910 to 1994	72	77	80	81	83	83	81	76	74	69	69	69	76	56	1910	1994
Mean 9am cloud cover (okas) for years 1907 to 1994	3.9	4	3.8	3.8	3.9	3.9	3.3	3.1	3.4	3.6	4	4.1	3.7	78	1907	1994
Mean 9am wind speed (km/h) for years 1965 to 1994	4.2	3.4	3.8	3.7	3.4	4.1	4.7	5.6	7	6.6	6	5.6	4.8	27	1965	1994
Mean 3pm temperature (Degrees C) for years 1944 to 1994	24.6	24.8	23.4	20.8	18	15.4	15.2	16.1	18	19.6	21.3	23.2	20	39	1944	1994
Mean 3pm wet bulb temperature (Degrees C) for years 1944 to 1994	19.1	19.6	18.4	15.9	13.7	11.5	10.6	11.1	12.8	14.7	16.2	17.9	15.1	39	1944	1994
Mean 3pm dew point temperature (Degrees C) for years 1985 to 1994														9	1985	1994
Mean 3pm relative humidity (%) for years 1944 to 1994	59	61	59	59	60	61	55	52	52	54	57	58	57	19	1944	1994
Mean 3pm cloud cover (oktas) for years 1944 to 1994	4.4	4.6	4.6	4.2	4.4	4.3	3.9	4.2	4.4	4.7	4.8	4.7	4.4	39	1944	1994
Mean 3pm wind speed (km/h) for years 1965 to 1994	12.7	12	11.8	9.8	8.2	8.9	10.3	13.6	14.5	14.1	13.8	13.2	11.9	27	1965	1994

Monthly Climate Statistics for 'BEGA AWS' [069139]																
Created on [09 May 2018 13:41:09 GMT+00:00]																
069139 BEGA AWS																
Commenced: 1992																
Last Record: 2018																
Latitude: 36.67 Degrees South																
Longitude: 149.82 Degrees East																
Elevation: 41 m																
State: NSW																
Statistic Element	January	February	March	April	May	June	July	August	September	October	November	December	Annual	Number of	Start Year	End Year
Mean maximum temperature (Degrees C) for years 1992 to 2018	27.2	26.6	24.8	22.2	19.4	16.7	16.4	17.9	20.1	22	23.5	25	21.8	26	1992	2018
Highest temperature (Degrees C) for years 1992 to 2018	44.6	44.4	40.4	35.6	28.1	24.5	26.3	28.2	35.4	36.8	42.6	42.4	44.6	26	1992	2018
Date of Highest temperature for years 1992 to 2018	18-Jan-13	7-Feb-09	23-Mar-98	28-Apr-94	15-May-16	9-Jun-04	22-Jul-16	4-Aug-11	23-Sep-17	27-Oct-08	20-Nov-09	17-Dec-09	18-Jan-13	N/A	1992	2018
Lowest maximum temperature (Degrees C) for years 1992 to 2018	17.5	15.8	16	13.4	12.1	9.7	8	7.6	10.5	12.3	13.6	16	7.6	26	1992	2018
Date of Lowest maximum temperature for years 1992 to 2018	2-Jan-95	21-Feb-93	12-Mar-94	12-Apr-94	26-May-97	26-Jun-07	20-Jul-98	4-Aug-03	2-Sep-05	14-Oct-14	8-Nov-99	8-Dec-94	4-Aug-03	N/A	1992	2018
Decile 1 maximum temperature (Degrees C) for years 1992 to 2018	21.5	21.4	20.3	18.4	16.3	13.6	13.3	14.4	15.8	17	18.1	19.9		25	1992	2018
Decile 9 maximum temperature (Degrees C) for years 1992 to 2018	33.4	32	29.9	26.3	22.8	19.8	19.6	21.7	25.7	28.2	29.5	30.5		25	1992	2018
Mean number of days >= 30 Degrees C for years 1992 to 2018	7.4	5.3	2.9	0.5	0	0	0	0	0.3	1.7	2.3	3.5	23.9	26	1992	2018
Mean number of days >= 35 Degrees C for years 1992 to 2018	2.2	1.2	0.2	0	0	0	0	0	0	0.3	0.5	1.1	5.5	26	1992	2018
Mean number of days >= 40 Degrees C for years 1992 to 2018	0.4	0.2	0	0	0	0	0	0	0	0	0.1	0.2	0.9	26	1992	2018
Mean minimum temperature (Degrees C) for years 1992 to 2018	15	15	12.9	9.5	5.7	3.7	2.3	3.1	6.1	8.5	11.4	13.4	8.9	26	1992	2018
Lowest temperature (Degrees C) for years 1992 to 2018	4.5	6	3.1	-0.1	-2.4	-4.3	-4.3	-4.1	-3	0	0.7	4.3	-4.3	26	1992	2018
Date of Lowest temperature for years 1992 to 2018	22-Jan-94	18-Feb-03	27-Mar-15	13-Apr-01	28-May-05	15-Jun-92	22-Jul-17	5-Aug-14	2-Sep-03	10-Oct-03	5-Nov-02	28-Dec-00	22-Jul-17	N/A	1992	2018
Highest minimum temperature (Degrees C) for years 1992 to 2018	23.5	22.2	20.5	18.6	17	14	12	14.7	19	17.5	23.8	22.4	23.8	26	1992	2018
Date of Highest minimum temperature for years 1992 to 2018	24-Jan-17	8-Feb-98	8-Mar-10	20-Apr-02	13-May-95	21-Jun-16	7-Jul-16	31-Aug-05	25-Sep-01	21-Oct-15	3-Nov-96	30-Dec-16	3-Nov-96	N/A	1992	2018
Decile 1 minimum temperature (Degrees C) for years 1992 to 2018	10.7	10.8	8.6	4.9	0.9	-1.1	-2	-1.1	1.1	3.9	6.9	9.2		25	1992	2018
Decile 9 minimum temperature (Degrees C) for years 1992 to 2018	18.7	18.7	16.7	13.6	10.9	9.3	7.5	8.2	11	13.4	15.6	17.1		25	1992	2018
Mean number of days <= 2 Degrees C for years 1992 to 2018	0	0	0	0.6	5.8	11.8	16.2	13.4	4.2	1	0.1	0	53.1	26	1992	2018
Mean number of days <= 0 Degrees C for years 1992 to 2018	0	0	0	0.1	1.2	6.7	10	6.5	1.2	0.1	0	0	25.8	26	1992	2018
Mean daily ground minimum temperature Degrees C for years null to null																
Lowest ground temperature Degrees C for years null to null																
Date of Lowest ground temperature for years null to null														N/A		
Mean number of days ground min. temp. <= -1 Degrees C for years null to null																
Mean rainfall (mm) for years 1994 to 2018	49	80.3	68.2	31.5	42.3	68.1	39	33.2	34.4	44.3	63.5	64	624.1	20	1994	2018
Highest rainfall (mm) for years 1994 to 2018	193.7	383	324	104.6	172.6	329.2	183.8	146	107.4	125.4	191.2	237.4	1020.6	23	1994	2018
Date of Highest rainfall for years 1994 to 2018	1999	2010	2012	2012	2010	2016	2001	1998	2013	1999	2013	2014	2010	N/A	1994	2018
Lowest rainfall (mm) for years 1994 to 2018	10.6	0.2	0.2	0	6.6	0.4	1.4	1	6.2	0	0	3	346.6	23	1994	2018
Date of Lowest rainfall for years 1994 to 2018	2017	2009	2004	2011	2008	2004	1994	1997	1995	1995	2006	2002	2009	N/A	1994	2018
Decile 1 monthly rainfall (mm) for years 1994 to 2018	14	7.2	8.5	3.1	9.8	8.4	3	3.7	10	8.9	20	17.3	406.4	23	1994	2018
Decile 5 (median) monthly rainfall (mm) for years 1994 to 2018	38.8	47.6	35.6	24	21.2	39	18.2	18.4	26.6	30.6	57.1	35.8	629.2	23	1994	2018
Decile 9 monthly rainfall (mm) for years 1994 to 2018	85.9	169.5	198	73.9	100.8	149.8	101.2	90.6	65.4	101.9	112.3	174.2	848	23	1994	2018
Highest daily rainfall (mm) for years 1994 to 2018	98.4	219	189	42	75.2	130.8	88.2	76	57.8	62.6	125.6	126.2	219	22	1994	2018
Date of Highest daily rainfall for years 1994 to 2018	31-Jan-16	11-Feb-07	3-Mar-97	19-Apr-12	26-May-10	6-Jun-16	1-Jul-05	8-Aug-98	17-Sep-13	31-Oct-05	12-Nov-13	7-Dec-14	11-Feb-07	N/A	1994	2018
Mean number of days of rain for years 1994 to 2018	10.2	9.5	11.3	10.5	11.7	12	10.2	8.7	9.9	10.5	11.4	9.5	125.4	23	1994	2018
Mean number of days of rain >= 1 mm for years 1994 to 2018	6.1	5.4	6.1	4.3	3.7	4.6	3.5	3.6	4.5	5.3	6.9	6.6	60.6	22	1994	2018
Mean number of days of rain >= 10 mm for years 1994 to 2018	1.6	2	1.4	0.8	0.9	1.5	1.2	1	0.8	1.2	1.8	1.9	16.1	22	1994	2018
Mean number of days of rain >= 25 mm for years 1994 to 2018	0.5	0.7	0.6	0.3	0.6	0.9	0.5	0.2	0.3	0.3	0.5	0.5	5.9	22	1994	2018
Mean daily wind run (km) for years 2003 to 2018	229	203	181	158	154	151	169	186	223	226	225	225	194	15	2003	2018
Maximum wind gust speed (km/h) for years 2003 to 2018	81	83	94	91	96	93	94	93	109	87	89	93	109	15	2003	2018
Date of Maximum wind gust speed for years 2003 to 2018	11-Jan-08	8-Feb-15	5-Mar-15	25-Apr-12	10-May-16	19-Jun-04	1-Jul-08	25-Aug-09	6-Sep-12	12-Oct-07	3-Nov-13	5-Dec-12	6-Sep-12	N/A	2003	2018
Mean daily sunshine (hours) for years null to null																
Mean daily solar exposure (MJ/(m*m)) for years 1990 to 2018	22.4	19.2	16.3	12.6	9.5	7.5	8.6	11.7	15.6	19.2	21.1	22.1	15.5	28	1990	2018
Mean number of clear days for years null to null																
Mean number of cloudy days for years null to null																
Mean daily evaporation (mm) for years null to null																
Mean 9am temperature (Degrees C) for years 1992 to 2010	19.8	18.8	16.3	14.1	10.3	7.4	6.4	8.4	12.5	15.6	16.9	18.6	13.8	19	1992	2010
Mean 9am wet bulb temperature (Degrees C) for years 1992 to 2010	17.6	16.9	14.5	12.5	9.1	6.4	5.3	7	10	12.7	14.2	15.8	11.8	15	1992	2010
Mean 9am dew point temperature (Degrees C) for years 1992 to 2010	15.4	15.5	13.2	11	7.7	4.9	3.4	4.5	7.4	9.6	11.9	13.4	9.8	18	1992	2010
Mean 9am relative humidity (%) for years 1992 to 2010	77	82	84	83	86	87	84	79	74	69	74	73	80	18	1992	2010
Mean 9am cloud cover (okas) for years 2010 to 2010														0	2010	2010
Mean 9am wind speed (km/h) for years 1992 to 2010	8.4	6.4	5.7	6.4	5.6	6	5.8	7.2	9.3	10.5	9.9	9.9	7.6	18	1992	2010
Mean 3pm temperature (Degrees C) for years 1992 to 2010	24.9	24.7	22.9	20.3	17.7	15.4	15	16.2	17.7	19.1	21.1	22.7	19.8	19	1992	2010
Mean 3pm wet bulb temperature (Degrees C) for years 1992 to 2010	19.3	19.4	17.9	15.4	13.5	11.3	10.4	11	12.7	14.3	16.3	17.5	14.9	15	1992	2010
Mean 3pm dew point temperature (Degrees C) for years 1992 to 2010	15.6	15.5	13.9	11.4	9.1	6.6	5	5.1	7.4	9.5	12.3	13.7	10.4	18	1992	2010
Mean 3pm relative humidity (%) for years 1992 to 2010	60	60	59	59	59	58	54	51	53	57	60	60	57	18	1992	2010
Mean 3pm cloud cover (oktas) for years null to null																
Mean 3pm wind speed (km/h) for years 1992 to 2010	22.2	20.5	19.2	17.4	14.9	14.1	15.3	19	20.8	21.6	21.7	21.8	19	18	1992	2010