

METEOROLOGY FOR AUGUST, 1878.

PRIVATE OBSERVATORY, HOBART TOWN.

Latitude 42° 52' 13" S.; Longitude 9h. 49m. 29.2s. E.
(Registered for the Royal Society of Tasmania.)

Day of Month.	Bar. corrected for temperature instrumental error, and to mean sea level.	Thermometers (Reading.)		Thermometers (Self-Registering.)		Relative Humidity.		Clouds.		Wind.		Rain in Inches.	Spon. Evap.	Ozone. Chrom. Scale.					
		7 30 a.m.	4 30 p.m.	Centigrade, 7 30 a.m.	Fahrenheit, 7 30 a.m.	Fahrenheit, 4 30 p.m.	Highest in Sun, 4 30 p.m.	Highest in Shade, 4 30 p.m.	Lowest on Grass, 7 30 a.m.	7 30 a.m.	4 30 p.m.				7 30 a.m.	4 30 p.m.			
																	Per cent	7 30 a.m.	4 30 p.m.
1	30.019	30.036	5.7	41.5	50.6	62.2	53.3	35.5	85.0	K	10	K	5	NW	.52	NE	.0	.01	9.
2	29.949	29.987	8.7	47.5	51.8	55.5	57.3	38.7	79.8	K	10	K	9	NW	.52	SE	.52	.03	8.
3	29.848	29.820	10.7	54.5	53.3	65.5	57.3	39.3	93.0	K	10	K	19	SE	.52	SE	.52	.10	9.
4	28.918	28.872	6.5	43.5	52.8	59.5	57.3	94.7	71.1	K	10	K	8	SW	0	SE	0	.10	9.
5	28.967	29.004	5.5	42.4	43.7	73.5	54.3	36.9	85.8	K	8	K	10	NW	0	SW	0	.26	4.
6	29.978	29.892	5.7	41.5	50.8	53.2	53.5	92.8	80.0	K	4	K	7	SW	0	NW	0	.04	8.
7	29.459	29.550	7.7	45.4	54.8	59.0	60.3	93.7	74.4	K	10	K	10	NW	.52	NW	.52	.0	8.
8	29.618	29.392	5.5	42.5	55.7	56.3	56.3	85.7	75.5	K	10	K	10	NW	.52	NW	.52	.27	10.
9	28.941	29.120	9.7	48.5	55.6	62.0	60.3	88.7	87.8	K	10	K	10	NW	.52	NW	5.21	11.4	4.
10	29.364	29.283	5.5	42.5	54.6	62.0	60.3	92.6	65.6	K	10	K	10	NW	.52	NW	.52	.45	9.
11	29.205	29.189	9.7	48.5	53.9	60.0	58.7	87.0	80.8	K	5	K	10	NW	.52	NW	2.60	.05	4.
12	29.157	29.149	7.5	46.4	46.6	65.3	53.3	36.9	93.9	K	10	K	10	NW	.52	NW	2.60	.05	4.
13	29.391	29.406	8.5	47.4	55.6	65.3	48.7	37.7	79.9	K	6	K	10	NW	.52	NW	2.60	.05	4.
14	29.761	29.864	9.7	49.5	55.8	61.5	57.3	38.0	65.6	K	5	K	6	N	.52	NW	.52	.15	10.
15	29.350	29.388	10.7	55.5	50.8	88.5	50.3	38.9	83.8	K	10	K	9	SW	2.60	SW	.26	.30	8.
16	29.493	29.441	10.7	55.5	50.8	88.5	50.3	38.9	83.8	K	10	K	4	NW	.26	SW	.26	.03	8.
17	29.914	29.832	10.7	55.5	52.8	88.5	57.3	37.8	81.7	K	8	K	8	N	2.60	N	2.60	.0	8.
18	29.693	29.511	11.7	52.7	57.8	81.0	60.3	33.7	74.7	K	8	K	9	N	10.12	N	5.21	.35	7.
19	29.562	29.955	7.5	46.4	47.6	60.0	57.3	32.7	79.6	K	10	K	10	SW	2.60	NW	2.60	.42	9.
20	29.360	30.134	11.7	52.7	54.8	69.6	61.3	36.9	74.4	K	5	K	5	SW	2.60	NW	2.60	.42	9.
21	30.050	30.015	12.7	54.9	58.6	69.6	63.3	57.5	56.6	K	2	K	6	N	.52	NW	2.60	.6	5.
22	29.393	29.708	11.7	52.7	51.8	95.3	40.3	60.8	83.8	K	5	K	7	NW	.26	NW	2.60	.6	5.
23	29.681	29.575	9.7	49.6	60.0	90.5	53.3	37.0	80.7	K	10	K	7	NW	.52	NW	2.60	.07	5.
24	29.748	29.704	12.7	54.9	58.9	95.3	62.0	40.3	80.5	K	6	K	6	NW	.26	NW	.26	.26	2.
25	29.937	29.915	14.7	58.9	59.5	85.5	52.7	41.3	62.6	K	4	K	7	NW	2.60	NW	2.60	.4	4.
26	29.340	29.744	15.7	60.6	68.3	105.7	73.4	42.5	55.5	K	4	K	2	NW	2.60	NW	2.60	.52	4.
27	29.942	29.811	12.5	55.6	60.0	100.6	68.3	39.4	49.5	K	6	K	6	NW	2.60	NW	2.60	.52	4.
28	29.625	29.604	7.7	45.4	42.5	65.3	58.7	34.0	100.7	N	10	N	10	NW	0	W	.26	.15	7.
29	29.819	29.942	8.7	47.4	48.3	93.5	56.3	55.9	93.3	K	4	K	4	NW	.52	SW	.52	.35	10.
30	30.126	30.048	7.7	45.4	55.9	93.5	57.3	57.6	61.6	K	1	K	7	NW	.52	NW	.52	.01	6.
31	29.916	29.815	6.7	43.5	61.3	94.6	60.3	32.6	67.6	K	7	K	3	NW	0	NW	2.60	.0	8.

The Meteorological form brought into use at the beginning of 1876 differs in some respects from the former one. It has been adopted with the view of assimilating the Hobart Town records more closely with those of stations in Europe, America, etc., in order to co-operate in a system of International Meteorology. Readings are added from the centigrade thermometer, that being the instrument generally used on the continent of Europe.

The mean is in all cases taken from the sums of the two daily registers, not from the maximum and minimum.

The direction of the wind is registered from currents at a height of 32 feet above sea level, and its force in lbs. per square foot.

The relative quantity of rain that fell under the different winds is registered each morning at 7 30 a.m.

The 35 years standard tables are used for obtaining the difference from average.

FRANCIS ABBOTT, F.R.A.S., etc.

Results of observations taken at New Norfolk for August, 1878, in accordance with new forms, at 7 35 a.m., and 4 35 p.m.

Barometer.—Mean of 2 daily registers corrected and reduced, 29.832 inches.

Thermometer.—Mean of 2 do., 44.89 degrees.

Thermometer.—Mean of max. and min. in shade, 46.45 degrees.

Dew Point.—Mean position of, 2 do., 38.48 degrees.

Elastic Force of Vapour.—Mean of 2 do., .241.

Humidity of Air.—Mean of 2 do., .80.

Solar intensity, mean of maximum temperature, 100.04 deg.

Terrestrial radiation, mean of minimum temperature, 31.03 degrees.

Rainfall, 3.89 inches: in excess of evaporation, 1.83 inches.

Rainfall.—Total, from commencement of year, 15.23 inches.

Evaporation, 2.06 inches.

Clouds.—Mean of 2 daily registers, 6.03.

Ozone.—Mean of 2 do., 7.25.

W. E. SHOUBRIDGE, Bushy Park.

Time of leafing, flowering, and fruiting of a few standard plants in the Botanic Gardens during August, 1878:—

12th. Common elder (*sambucus niger*) commencing to break.

13th. Horsechestnut ditto.

14th. Gooseberries ditto.

15th. Elm commencing to flower.

16th. Common poplar commencing to break.

25th. Apricots commencing to flower.

F. ABBOTT, JUN., Superintendent.