

# METEOROLOGY FOR JULY, 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. Per cent		Clouds.		Wind.		Rain in Inches	Spon. Evap.	Ozone. Chron. 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.	Character.	Amount.	Character.	Amount.	Direction from.	Force in lbs. per square foot.	Direction from.	Force in lbs. per square foot.	7-30 a.m.	7-30 a.m.	7-30 a.m.	
1	29.503	29.531	5.	47.	51.	72.	54.	37.	93	93	K	10	N	10	W		W				.03	6.
2	29.541	29.037	9.	54.	52.	90.	60.	23.	93	100	K	10	KN	10	NW		S				.03	4.
3	29.559	30.014	5.	40.	45.	65.	54.	33.	73	79	K	7	K	7	SW		S		52		.35	9.
4	29.709	29.590	7.5	46.	51.	60.	53.	34.	73	74	K	10	KN	10	N	2.60	NW	5.21			.37	6.
5	29.759	29.806	6.	43.	46.	72.	53.	31.	77	79	K	7	K	7	NW		N		52		.09	10.
6	29.834	29.840	9.	40.	47.	69.	60.	35.	86	86	K	7	KN	9	E		N		26		.01	4.
7	29.644	29.807	10.5	51.	54.	82.	56.	36.	74	65	K	7	K	5	W		N		52		.01	4.
8	29.938	29.932	10.	50.	55.	65.	57.	36.	74	70	K	9	K	10	NW	52	NW		52			3.
9	29.904	29.845	7.	45.	55.	60.	54.	33.	93	74	0	0	0	0	NW	NW		52				6.
10	29.653	29.620	14.	53.	57.	65.	59.	37.	71	93	K	10	N	10	NW	5.21	SW	2.60		15	4.	
11	30.122	30.154	5.	41.	52.	83.	60.	31.	73	78	0	0	K	4	S	SW		52		19	3.	
12	30.132	30.154	3.	33.	45.	86.	62.	20.	77	73	0	0	K	4	N	2.60	SW	52		10	4.	
13	30.032	29.945	5.	41.	49.	70.	52.	32.	54	74	K	4	K	7	NW	52	NW			.01		4.
14	29.924	29.924	7.	45.	49.	70.	55.	34.	79	93	K	5	K	10	NW	SE	NW					6.
15	29.932	29.875	4.5	40.	43.	85.	52.	31.	85	86	0	0	0	0	NW	26	NW			.60		5.
16	29.902	29.703	2.	36.	43.	65.	50.	38.	91	93	K	3	K	7	NW	26	NW			.20		6.
17	29.765	29.753	7.	46.	56.	80.	64.	37.	86	87	K	5	K	4	NW	52	NW					3.5
18	29.673	29.541	4.	39.	49.	66.	62.	34.	92	93	N	10	KN	10	NW	W						3.
19	29.491	29.350	10.5	51.	49.5	58.	56.	45.	93	93	N	10	KN	10	SW	W			.80			7.
20	29.303	29.423	10.5	51.	56.	65.	58.	45.	86	75	K	10	K	9	W	NW		52		.15		5.
21	29.690	29.663	10.	50.	54.	73.	57.	44.	74	80	K	7	K	10	NW	26	NW			.01		4.
22	29.638	29.725	11.5	53.	53.	90.	62.	44.	69	61	K	8	K	7	NW	23	NW	2.60			.04	3.5
23	29.813	29.725	7.	45.	57.	65.	61.	40.	79	83	K	7	K	6	NW	26	N					3.
24	29.593	29.589	11.	51.	60.	86.	65.	42.	87	62	K	4	0	0	NW	26	NW	5.21				3.
25	29.692	29.562	11.	52.	59.	75.	68.	42.	75	83	K	7	K	5	N	26	NW	26				3.
26	29.472	29.120	5.5	42.	54.	57.	56.	35.	92	93	K	10	N	10	NW	S		52		.02		3.5
27	29.332	29.454	5.5	42.	45.	52.	49.	35.	85	86	K	10	K	10	SW	26	SW			2.		10.
28	29.768	29.765	5.5	42.	46.	65.	53.	35.	85	86	K	10	KN	6	SE	26	SW	26		.20		6.
29	29.176	30.212	5.5	43.	47.	65.	52.	32.	85	87	KN	10	KN	6	SW	S				.03		6.
30	29.222	30.208	4.	39.	50.	57.	55.	32.	85	85	K	6	K	8	SW	26	S	26		.01		3.
31	29.206	30.242	5.	42.	49.	70.	52.	33.	85	86	K	5	N	10	NW	52	S	26			.65	4.
Mean Press. 29.785		Mean M'n. Tem. 7.20	48.36	Mean. 71.50	Mean. 56.64	Mean. 36.20	Mean. 82	Mean for Month. 7		Mean Force 62lb.		TL. 4.96		TL. 80		TL. 153.5						
Greatest do. 30.208		Max. 14.0		Max. 99.0	Max. 65.0	Max. 45.0		Prev. Character, K		Greatest Force 5.21 lb.						Mean 5.0						
Least do. 29.120		Min. 4.0		Min. 52.0	Min. 49.0	Min. 29.0				Least Force. 0												
										Prevailing Direction NW												

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 92 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 ASBOTT, F.R.A.S., etc.

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Time of leafing and flowering of a few standard plants in the Botanic Gardens, Hobart Town, during the month of July, 1878.

16th.—*Arbutus unedo* commencing to flower.

20th.—*Garrya Elliptica* ditto.

25th.—Cape mulberry commencing to leaf.

30th.—Common almond commencing to flower.

31st.—Yellow crocus in full flower.

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### METEOROLOGICAL.

Results of observations taken at New Norfolk for July, 1878, in accordance with new forms, at 7.30 a.m. and 4.30 p.m.:—

Barometer.—Mean of two daily readings, corrected and reduced, 29.913 inches.

Thermometer.—Mean of two ditto, 43.84 deg.

Mean of max. and min. in shade, 44.95 deg.

Dew Point.—Mean of two ditto, 39.48 deg.

Elastic Force of Vapour.—Mean of two ditto, .243.

Humidity of Air.—Mean of two ditto, .84.

Solar Intensity.—Mean of max. temperature, 98.93 deg.

Terrestrial Radiation.—Mean of min. temperature, 30.32 deg.

Daily Range of Temperature.—Mean 15.38 deg.

Rainfall —1.94 inches, in excess of evaporation .54 inches.

Evaporation.—1.40 inches.

Clouds.—Mean amount of two daily registers, 8.30.

Ozone.—Mean amount of two daily registers, 7.72.

W. F. SHOEBRIDGE, Bushy Park.