

METEOROLOGY FOR OCTOBER, 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.		Ozonic. Scale. 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.	7-30 a.m.	4-30 p.m.	7-30 a.m.	4-30 p.m.	7-30 a.m.	7-30 a.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	29.852	29.051	11.°	52.	60.	78.	70.	38.	69	67	K	10	K	9	NW	2.60	NW	5.21		3.	
2	29.735	29.793	12.°	54.	62.	85.	66.	30.	87	50	K	9	K	5	NW	2.60	N	2.60	.06	6.	
3	29.923	29.745	15.5	60.	70.	107.	73.	40.	64	57	K	4	KS	5	N	.26	S	.0		5.	
4	29.825	29.845	11.5	57.	53.	80.	72.	39.	81	66	K	7	K	7	NW	.52	NW	5.20		3.	
5	30.035	29.837	11.5	53.	66.	108.	68.	39.	64	52	K	10	K	4	N	.26	NW	.52		2.	
6	29.696	29.893	11.	56.	69.	95.	71.	30.	61	83	K	10	K	8	N	.52	NW	5.21		6.	
7	29.335	29.825	10.	50.	60.	95.	69.	37.	63	66	K	7	K	4	NW	.52	NW	2.60		2.	
8	29.626	29.862	12.	54.	62.	107.	65.	39.	60	59	K	10	K	8	NW	.52	N	.52	.01	2.	
9	29.483	29.220	9.	48.	57.	75.	63.	33.	67	61	K	10	N	10	N	0	SE	.0	.01	1.65	0.
10	29.762	28.941	11.	52.	58.	86.	53.	36.	80	93	KN	10	K	3	W	0	SW	.52	.47	9.	
11	29.152	29.231	8.	47.	52.	98.	58.	33.	79	64	K	9	K	4	NW	.52	NW	2.60	.02	5.	
12	29.384	29.075	9.	49.	56.	95.	58.	35.	93	65	K	8	K	4	NW	2.60	NW	5.21	.01	3.	
13	29.573	29.454	12.5	52.	63.	85.	66.	38.	86	63	K	10	K	10	NW	.52	NW	.52	.19	3.	
14	29.427	29.168	14.0	58.	60.	75.	63.	41.	71	83	K	10	K	10	NW	.26	SW	10.42	.06	10.	
15	28.942	29.120	9.	49.	67.	70.	57.	34.	69	69	KN	9	KN	10	NW	.26	SW	2.60	.25	8.	
16	29.056	29.721	7.5	46.	55.	79.	62.	32.	61	65	K	5	K	7	SW	2.60	W	2.60	.02	4.	
17	29.393	29.517	11.5	57.	66.	95.	61.	37.	66	70	K	9	KN	9	NW	.52	NW	2.60	.02	6.	
18	29.542	29.865	11.5	53.	56.	90.	90.	39.	74	68	KN	7	K	6	NW	2.60	N	.52	.05	7.	
19	29.592	29.913	11.5	53.	63.	95.	69.	39.	64	77	K	10	K	4	N	2.00	W	2.60	.04	30	4.
20	29.920	29.804	13.	55.	64.	85.	70.	40.	82	72	K	5	K	10	NW	.52	S	.26	.01	5.	
21	29.722	29.446	16.	61.	58.	101.	65.	42.	59	81	K	6	K	7	N	.26	SE	.26	.03	9.	
22	29.937	29.942	11.5	57.	62.	85.	68.	39.	76	67	K	7	K	10	NW	.26	W	.52	.01	3.	
23	29.625	29.501	17.5	64.	62.	109.	71.	41.	73	58	K	7	K	8	W	2.60	W	5.21	.05	3.	
24	29.515	29.520	8.0	45.	60.	85.	67.	35.	85	60	KN	5	KN	7	W	.52	S	2.60	.15	7.	
25	29.552	29.075	9.0	40.	52.	79.	62.	36.	73	74	K	8	K	7	NW	.52	NW	.52	.09	7.5	
26	29.993	30.057	9.5	49.	49.	69.	57.	36.	74	74	KN	10	K	10	NW	.52	SE	2.60	.03	6.	
27	30.154	30.075	10.5	51.	59.	86.	65.	37.	55	66	O	0	K	6	SW	.26	S	.52	.01	6.	
28	29.843	29.057	9.	43.	60.	85.	62.	35.	86	76	K	10	K	10	N	.52	NW	.26	.01	8.	
29	29.542	29.531	16.5	62.	66.	112.	75.	37.	63	73	K	3	K	3	N	2.60	W	.26	.05	9.	
30	29.470	29.314	13.5	57.	67.	109.	70.	34.	81	68	K	10	K	7	NW	.26	NW	.52		8.	
31	29.332	30.065	13.	56.	56.	80.	68.	35.	85	61	K	3	K	4	W	2.60	S	.52	.03	1.00	3.

The Meteorological form brought into use at the beginning of 1870 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 ABBOTT, F.R.A.S., etc.

Time of leafing, flowering, and fruiting of a few standard plants in the Royal Society's Gardens during the month of October, 1873 —

- 5th. *Carpinus betulus* commencing to break.
- 13th. *Ailanthus glandulosus* commencing to break.
- 20th. *Tilia europaea* commencing to break.
- 23rd. Black Mulberry commencing to break.
- 25th. Common Elm Seeds commencing to fall.
- 28th. *Melia azedarach* commencing to break.

F. ABBOTT, JUN., Superintendent.

METEOROLOGICAL.

Results of observations taken at New Norfolk for October, 1873,

in accordance with new forms, at 7.30 a.m. and 4.30 p.m.:

Barometer.—Mean of two daily readings, corrected and reduced, 29.742 inches.

Thermometer.—Mean of two ditto, 52.20 deg.

” Mean of max. and min. in shade, 53.93 deg.

Dew Point.—Mean position of two ditto, 42.92 deg.

Elastic Force of Vapour.—Mean of two ditto, .277.

Humidity of Air.—Mean of two ditto, .72.

Solar Intensity.—Mean of max. temperature, 120.09 deg.

Terrestrial Radiation.—Mean of min. temperature, 36.29 deg.

Rainfall —2.82 inches. Total since commencement of year, 21.21 inches; to same time in 1877, 18.22 inches; in 1876, 16.97 inches; in 1875, 19.03 inches; and in 1874, 16.29 inches.

Evaporation —3.44 inches, in excess of rainfall, .62 inches.

Clouds.—Mean of two daily registers, 5.56.

Ozone.—Mean of two ditto, 7.29 of scale 0—10.

W. E. SHOOBRIDGE, Bushy Park.