

PRIVATE OBSERVATORY, HOBART TOWN.  
Latitude 42° 52' 13" S.; Longitude 149. 49m. 29.2s. E.  
Registered for the Royal Society of Tasmania

Day of Month.	Bar. corrected for annual error on sea level.		Thermometers (Reading)		Thermometers Self-Registering		Relative Humidity		Clouds		Wind.		Rain in Inches 7 30 a.m.	Spec. Evap. 7 30 a.m.	Ozone. Chron. Scale 7 30 a.m.						
	7 30 a.m.	4 30 p.m.	Barom.	Therm.	Barom.	Therm.	Per cent	7 30 a.m.	4 30 p.m.	7 30 a.m.	4 30 p.m.	Force in lbs. per square foot.				Direction from.	Force in lbs. per square foot.	Direction from.			
1	29.570	29.542	3.0	37.0	46.0	70.0	50.0	33.5	81	73	K	5 0 K	3 0	NW	-0	NW	-26	03	4 5		
2	29.570	29.590	0.0	43.0	50.0	75.0	52.5	34.0	78	89	K	4 0 KN	0 0	NW	-52	N	-26	01	5 5		
3	29.550	29.751	7.5	40.0	53.0	81.0	52.0	31.0	85	70	K	5 0 K	0 0	NW	-23	SW	-0	0	4 0		
4	29.600	29.837	16.0	50.0	54.5	75.5	57.0	42.5	109	63	K	5 0 W	0 0	NW	-23	SW	-0	0	4 0		
5	29.024	30.134	1.0	35.0	52.0	84.5	58.5	31.5	100	61	K	4 0	0 0	SW	-0	W	-0	0	4 0		
6	29.027	30.145	3.0	38.0	49.0	65.0	53.0	33.0	122	80	K	7 0 K	0 0	NW	-0	SE	-0	0	5 5		
7	29.960	30.632	5.0	41.0	47.5	72.0	55.0	29.0	102	64	K	7 0 KN	0 0	NW	-0	SE	-0	0	5 5		
8	29.980	30.664	5.0	42.0	48.5	65.5	54.5	33.5	102	63	KN	9 0 K	4 5	NW	-24	NW	-0	02	6 0		
9	30.092	30.682	8.5	44.0	54.0	73.5	58.0	39.0	89	67	K	6 0 K	7 0	NW	-0	SE	-0	0	5 5		
10	30.091	29.829	0.0	49.0	55.0	65.5	50.5	35.5	29	65	KN	7 0 K	6 0	NW	-27	NW	-52	2 00	02	56	5 0
11	29.875	29.776	7.4	53.5	58.5	59.5	50.0	47.0	74	61	K	5 5 K	6 5	NW	-27	NW	-52	2 00	04	7 5	
12	29.732	29.553	13.9	50.0	50.0	62.0	50.0	47.0	65	61	KN	9 0 KN	9 0	NW	-26	NW	-2 00	04	0 5		
13	29.252	29.125	13.5	57.0	54.0	69.0	60.0	46.5	61	70	K	3 5 N	10 0	W	-26	NW	-2 04	04	4 0		
14	29.151	29.410	7.0	45.0	49.0	74.5	62.5	42.0	86	78	K	3 0 K	6 0	SW	-29	NW	-2 00	17	7 5		
15	29.495	29.406	2.0	40.0	45.0	70.0	51.0	23.0	91	84	KS	6 0 K	4 5	SW	-26	NW	-0	02	4 5		
16	29.112	29.670	0.0	43.0	45.5	64.0	52.0	35.0	84	73	KN	9 0 KN	7 0	NW	-26	NW	-5 21	24	7 0		
17	29.578	29.851	2.0	35.0	42.0	68.5	48.5	30.5	83	78	K	4 5 K	3 0	S	-0	N	-27	00	03	5 0	
18	29.922	30.112	4.5	54.5	55.0	70.0	51.0	44.78	88	78	KS	7 0 K	10 0	W	-27	NW	-30	0	4 5		
19	30.011	29.016	8.0	47.0	55.0	79.5	60.0	40.0	79	70	K	5 5 K	7 0	NW	-26	NW	-26	0	2 32	4 0	
20	30.164	30.105	5.0	40.0	47.0	67.0	55.0	35.5	78	86	KN	8 0 K	6 5	S	-0	SW	-0	1	01	5 0	
21	30.253	30.240	0.0	43.0	49.0	71.0	55.0	36.0	85	89	K	3 0 K	9 0	SW	-0	W	-26	00	02	7 0	
22	30.206	30.182	7.5	40.0	54.0	80.5	60.0	37.0	70	86	K	6 5 KN	4 5	W	-26	W	-26	0	4 5		
23	30.339	30.225	0.0	43.0	52.0	84.5	61.0	37.5	85	89	K	6 0 KS	5 5	W	-0	S	-26	03	6 5		
24	30.324	30.289	2.0	36.0	51.5	85.0	60.0	31.0	84	89	0	0 K	1 0	W	-26	W	-26	01	6 5		
25	30.334	30.307	1.0	35.5	46.5	72.0	55.5	31.0	91	93	0	0 K	7 5	W	-2	W	-26	0	5 0		
26	30.625	30.898	3.5	30.0	45.0	65.5	52.0	30.6	92	86	KS	10 0 KS	5 0	W	-2	W	-0	00	0 0		
27	29.812	29.765	6.5	44.0	44.0	68.0	54.0	37.0	92	75	KN	10 0 K	3 5	S	-0	W	-26	00	0 0		
28	29.881	29.852	4.0	40.0	53.5	76.5	50.0	31.5	77	64	K	5 0 KS	0 0	NW	-30	W	-26	00	0 0		
29	29.931	29.746	4.0	43.0	54.0	74.5	57.5	35.0	67	59	KS	2 5 KS	0 0	NW	-52	NW	-2 00	30	4 0		

The Meteorological form brought into use at the beginning of 1870 differs in some respects from the former one. It has been adapted 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 thirty-five years' standard tables are used for obtaining the difference from averages.

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

Time of leafing, flowering, and fruiting of a few standard plants in the Royal Society's Gardens during the month of June, 1870.—

10th.—*Diosma alba* in flower.

29th.—*Calycastrum proceum* in flower.

25th.—*Fyrus japonica* commencing to flower.

24th.—*Snowflake* commencing to flower. Black Mulberry leaves all shed. *Opuntia* orange leaves all shed.

F. ABBOTT, Jun., Superintendent

Results of observations taken at New Norfolk for June, 1870, in accordance with new forms, and registered at 7 30 a.m. and 4 30 p.m.—

Barometer, mean of 2 daily readings, corrected and reduced, 29.97 in; max., 30.40 on 25th; min., 29.11 on 10th.

Thermometer, mean of 2 ditto, 44.21 deg.

Dew point, mean position of 2 ditto, 39.00 deg.

Elastic force of vapour mean, of 2 ditto, .245.

Humidity mean of 2 ditto, 85.

Solar intensity, mean of maximum temperature, 57.83 deg.

Territorial radiation, mean of minimum temperature, 32.25 deg.

Rainfall, 2.36 in.; in excess of evaporation, 10 in.

Evaporation, 2.23 in.

Clouds, mean of 2 daily registers, 7.50.

Ozone, mean ditto, 2 ditto ditto, 7.60.

Wind, force in lbs. per square foot total of 2 ditto ditto, 42.93 lbs.

Horizontal movement, 2,350 miles, 1,070 miles from 10th to 14th.

Electricity, 59 observations, 18 negative, 14 positive, 27 nil; active on the 11th, 12th, 13th, and 24th.

Highest flood since 1863 in the Styx River on the 14th.

W. E. SHOORIDGE, Valleyfield.