

OCTOBER, 1872. PRIVATE OBSERVATORY, HOBART TOWN.

Day of Month.	Bar. 37 feet abv. sea level corrected & reduced.		Self-Registering Thermometers.					Wind.			
	Highest.	Lowest.	Highest in shade.		Lowest in shade.		Highest in sun.	Lowest on grass.	Direction from three daily re- gisters.	Force in lbs. per square foot.	Rain in Inches.
	In.	In.	°	°	°	°	°				
1	29.750	29.737	60	46	84.0	42.5	NW W	0	0.06		
2	29.672	29.626	71	43	103.0	37.5	NE SW	.78	0.31		
3	29.967	29.892	65	47	76.5	44.0	NE SE	.52	0.26		
4	30.178	30.114	62	37	90.0	33.0	NW E SE	1.04	0.14		
5	30.299	30.180	63	42	91.0	38.5	SW SE	.78			
6	30.309	30.113	64	50	80.5	37.5	NW NE	1.04			
7	29.942	29.860	63	47	95.0	45.0	NW	1.04	0.03		
8	29.906	29.874	64	53	60.0	49.5	SW	0	0.39		
9	29.932	29.912	60	50	60.0	44.0	SE	.78	0.10		
10	29.340	29.719	70	46	104.0	42.0	NW NE	.78			
11	29.756	29.544	67	47	69.5	39.5	NW W	.52	0.36		
12	29.719	29.671	70	43	104.5	39.5	NW SE	1.04	0.01		
13	29.685	29.397	68	43	80.0	44.0	NW	.78	0.07		
14	29.330	29.277	64	46	92.0	40.0	NW W NW	13.42	0.10		
15	29.570	29.404	61	43	93.0	36.0	NW W	13.42			
16	29.926	29.801	58	39	90.5	34.5	NW W NW	.78	0.03		
17	30.002	29.963	67	43	93.0	36.5	NW W	5.46	0.04		
18	30.053	30.026	69	50	94.0	46.0	NW SW	1.04	0.02		
19	30.149	30.114	68	50	105.0	44.0	NW	3.12			
20	30.236	30.053	79	45	111.0	43.0	NW	3.64			
21	29.713	29.633	36	50	117.0	47.5	NW SE	6.25	0.34		
22	29.522	29.417	78	49	99.5	45.5	NW W NW	8.07	0.24		
23	30.003	29.865	74	40	97.0	39.0	NW SE	1.04			
24	29.724	29.585	70	45	86.0	41.0	E SW	7.81			
25	29.963	29.845	67	43	99.5	42.0	NW SW	5.99			
26	30.087	30.006	73	47	109.5	41.0	NW NE SE	3.12			
27	29.934	29.833	69	49	77.0	44.0	NW SE	1.04			
28	29.591	29.280	79	46	112.0	41.5	NW	5.73			
29	29.751	29.253	75	50	99.0	46.0	NW S SW	15.63	0.10		
30	30.096	30.053	71	39	103.0	34.0	NW W	3.38			
31	30.191	30.105	69	46	110.0	33.0	NW SE	1.56			
Monthly mean			58.0		53.42	41.10	Total force 106.73			2.60	
29.837											

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

The direction of the wind is registered from currents moving at a height of 192 feet and the force according to Lind's Wind Gauge. The supposition, however, of a uniform velocity during the month is a very arbitrary one, and the results can be considered only approximately correct.

The relations of the quantities of rain which fell under the different winds are registered each evening at sundown.

The 25 years' standard tables are used for obtaining the difference from the average.

Barometer mean, 29.837in., being .059in. above the average.
 Temperature mean, 53.0°, being 3.71° above the average.
 Solar intensity mean, 93.42°, being 3.70° below the average.
 Dew point mean, 46.6°, being 2.04° below the average.
 Humidity of air mean, .69, being .04 per cent. below the ditto.
 Elastic force of air mean, .323, being .020 per cent. above the ditto.
 Total amount of rain, 2.60in., being 0.54in. above the ditto.
 Increase of rainfall on spontaneous evaporation, 0.10in.
 Mean amount of ozone, 3.1, being 0.19 of chromatic scale above ditto.
 Electricity active on the 5th, 15th, 16th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th, 29th, 30th, and 31st.
 Thunderstorm on the 10th and 21st.
 Aurora on the 15th.

Leafing, Flowering, and Fruiting of a few Standard Plants in the Royal Society's Gardens, during the month.

- 10th.—*Carpinus betulus* commencing to leaf.
 20th.—*Ailanthus glandulosa* ditto.
 23rd.—Common Lime ditto.
 24th.—*Morus nigra* ditto.
 26th.—Common Elm seeds commencing to fall.
 30th.—*Melia azederach* commencing to leaf.

FRANCIS ABBOTT.