

OCTOBER, 1873.
PRIVATE OBSERVATORY, HOBART TOWN.

Day of Month.	Bar. 37 feet abv. sea level corrected & reduced.		Self-Registering Thermometers.				Wind.		Rain in inches.
	Highest.	Lowest.	Highest in shade.		Lowest in sun.		Direction from three daily re- gisters.	Force in lb. per square foot.	
			Highest in shade.	Lowest in shade.	Highest in sun.	Lowest on grass.			
	In.	In.	°	°	°	°			
1	30.088	30.045	64	44	104.0	36.0	SW SE	3.64	
2	29.965	29.710	64	44	93.0	38.0	NW	3.38	
3	29.577	29.510	63	50	90.0	40.0	NW SW	1.56	
4	30.112	30.064	61	38	82.5	32.0	SE S SW	5.72	0.47
5	30.141	30.024	59	35	89.0	29.5	NW SE	.78	0.03
6	29.760	29.602	58	43	74.5	32.0	NW	0.	0.04
7	29.921	29.887	63	48	101.0	38.0	SE E	.78	0.06
8	30.295	30.209	61	45	95.0	34.0	SE	5.46	0.08
9	30.344	30.141	77	35	107.5	30.5	NW	3.38	
10	29.975	29.885	75	43	91.5	34.0	NW	3.12	0.04
11	30.002	29.897	70	45	105.0	35.0	NW SE	.78	
12	29.631	29.522	68	46	102.5	36.5	NW SW	8.33	0.43
13	29.784	29.578	64	39	88.0	31.0	SW	23.44	0.06
14	29.910	29.836	74	44	102.0	34.0	NW	10.94	
15	29.860	29.805	73	53	106.0	35.5	NW SE	3.64	0.07
16	29.890	29.799	69	47	103.5	34.0	NW SE	1.04	
17	29.694	29.533	80	51	107.0	37.0	E SE NW	2.86	0.06
18	29.581	29.422	77	53	103.0	35.5	NW SW	3.33	0.02
19	29.977	29.967	69	49	99.0	33.0	NW	6.25	
20	29.949	29.946	72	52	110.5	35.5	NW	5.72	
21	29.997	29.775	78	47	110.0	34.0	NW SE NW	6.25	
22	29.512	29.353	83	53	111.0	36.5	NW W	26.04	
23	29.839	29.686	77	50	109.0	33.5	NW	5.72	
24	29.900	29.715	82	49	117.0	32.0	NW	7.80	
25	29.917	29.551	80	51	112.5	34.5	NW	27.84	
26	29.624	29.416	75	45	109.0	33.0	NW SE	1.30	0.06
27	29.571	29.491	70	45	101.0	83.0	NW SW	10.41	
28	29.792	29.760	66	46	92.0	84.5	NW SE	1.04	
29	29.849	29.585	77	46	109.5	35.0	NW	1.04	
30	29.536	29.322	81	54	116.0	38.5	NWE	.52	
31	29.370	29.231	76	56	79.5	36.0	W E SE	3.72	0.07
Monthly mean	60.60	60.60	100.70	34.60	Total Force		192.40	1.49	
29-781									

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

Barometer mean, 29.781in., being 0.003in. above the average.
 Temperature mean, 60.60°, being 6.21° above the ditto.
 Solar intensity mean, 100.70°, being 3.58° above the ditto.
 Dew point mean, 46.8°, being 2.24° above the ditto.
 Humidity of air mean, .61, being .12 per cent. below the ditto.
 Elastic force of vapour mean, .311, being .008 per cent. above the ditto.
 Total amount of rain, 1.49in., being 0.57in. below the ditto.
 Increase of spontaneous evaporation on rain-fall, 2.71in.
 Mean amount of ozone, 6.20, being 1.71 of chromatic scale below the ditto.
 A large amount of atmospheric electricity all through the month.
 A very strong wind-force all through the month, accompanied with a large amount of spontaneous evaporation.
 Lightning on the 30th.

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

- 12th.—Carpinus Betulus commencing to break.
- 22nd.—Ailanthus Glandulosus commencing to break.
- 25th.—Common Lime ditto.
- 27th.—Morus Niger ditto.
- 30th.—Ulmus Campestres seeds commencing to fall.
- 31st.—Melia Azederach commencing to break.