

DECEMBER, 1873.

PRIVATE OBSERVATORY, HOBART TOWN.

Day of Month.	Bar. 37 feet abv. sealevel 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 lb. per square foot.	Rain in Inches.
	In.	In.	°	°	°	°			
1	30·278	30·191	71	52	110·0	37·5	NE SE	1·04	
2	30·225	30·149	78	43	112·5	36·0	NW SE	1·30	
3	30·133	30·043	83	51	116·0	38·5	NW SE	3·64	
4	30·005	29·948	83	52	117·0	39·5	NW SE	1·56	
5	29·930	29·837	86	56	124·0	41·0	NW SE	1·04	
6	29·989	29·932	83	59	111·5	39·5	NW SE	1·04	0·02
7	30·055	30·030	77	57	107·0	39·0	SE	·26	
8	29·917	29·869	81	62	119·0	40·0	NW SE	·78	
9	29·767	29·689	76	59	110·5	39·5	NW SE	1·04	0·05
10	29·469	29·348	72	60	80·5	40·0	NW	2·52	0·28
11	29·500	29·485	78	52	119·0	37·5	NW SE	1·56	
12	29·501	29·486	73	53	102·0	37·5	NW	3·64	
13	29·772	29·676	68	51	107·0	37·0	NW	1·30	0·03
14	29·971	29·829	75	47	117·5	34·5	NW SE	1·30	
15	29·770	29·464	86	57	119·5	36·0	NW	3·33	
16	29·714	29·675	83	58	119·0	36·5	NW SE	2·52	
17	29·821	29·806	75	52	110·0	37·0	NW SW	1·30	
18	29·831	29·525	80	52	117·5	36·5	NW	1·30	
19	29·217	29·008	79	55	107·0	37·0	NW	5·20	0·52
20	29·417	29·205	70	45	112·0	33·0	SW NW	5·33	0·07
21	29·417	29·237	66	51	105·0	34·0	NW SW	3·33	0·01
22	29·588	29·534	63	45	104·5	33·5	NW	2·52	0·09
23	29·705	29·505	67	47	100·0	35·0	SW NW	31·25	0·01
24	29·879	29·783	75	47	112·0	34·5	NW	·78	
25	29·554	29·442	81	56	117·0	37·0	NW	7·80	0·01
26	29·616	29·482	74	45	105·0	35·0	NW SW	7·80	0·01
27	29·967	29·879	73	60	111·5	37·5	NW	3·64	
28	29·927	29·775	79	51	116·0	36·0	NW SE	·78	0·01
29	29·740	29·707	81	52	119·0	38·5	W NW	1·30	
30	30·041	29·963	79	51	115·0	40·0	NW	3·33	
31	30·131	30·104	79	48	112·5	37·5	SE	1·30	
Monthly mean			67·24		111·50	37·10	Total force	114·78	1·11
	29·745								

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, 29·745in., being 90·003in. below the average.

Temperature mean, 67·24°, being 6·05° above the average.

Solar intensity mean, 111·50°, being 6·68° above the ditto.

Dew point mean, 50·4°, being 1·13° below the average.

Humidity of air mean, ·56, being ·10 per cent. below ditto.

Elastic force of vapour mean, ·372, being ·019 per cent. above the ditto.

Total amount of rain, 1·11in., being 0·70in. below the ditto.

Increase of spontaneous evaporation on rainfall, 4·42in.

Mean amount of ozone, 5·4, being 2·7 of chromatic scale below ditto.

Electricity active all through the month.

Mean daily amount of sunlight observed for anticipating a clear sky at the transit of Venus, 1874 :—1872, December=·73 per cent. 1873, ditto=·77 ditto ditto.

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

14th.—First bunch of Red Currants ripe.

17th.—Common Privet commencing to flower.

20th.—First bunch Black Currants ripe.

25th.—Melia Azederach commencing to flower.

26th.—Doyenne d'Ete Pear ripe.

31st.—Juneating Apple commencing to ripen.

FRANCIS ABBOTT.