

SEPTEMBER, 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.		Highest in sun.	Lowest on grass.	Direction from three daily re- gisters.	Force in lbs. per square foot.	Rain in inches.
			°	°					
1	29.709	29.663	62.55	87.0		36.0	NW	3.64	0.03
2	29.730	29.644	70.50	95.5		47.0	NW W	10.94	0.03
3	29.848	29.752	69.47	95.5		40.0	NW	13.02	
4	29.842	29.705	75.49	104.0		46.0	NW	1.04	0.03
5	29.680	29.620	71.45	96.5		43.0	NW	7.81	0.17
6	30.195	29.911	67.42	81.0		36.0	SW	10.41	
7	30.153	30.074	62.37	83.5		29.5	NW	10.41	0.01
8	30.095	30.037	68.48	95.5		44.0	NW	1.56	
9	30.122	30.046	30.50	106.0		47.5	NW	1.30	
10	29.987	29.837	80.48	95.0		41.0	NW	2.86	0.51
11	29.684	29.651	73.53	76.0		33.5	NW	10.94	0.55
12	30.199	29.980	69.40	77.5		37.5	NW SW	.52	0.01
13	30.469	30.441	66.44	92.0		32.0	NWSE	1.04	
14	30.478	30.409	64.34	92.5		30.5	NW E SE	.78	
15	30.391	30.241	65.39	90.0		30.0	NW NESE	1.04	
16	30.194	30.093	69.39	95.0		30.5	NW SE	1.30	
17	30.043	29.861	71.41	97.0		33.0	NW	2.33	
18	29.890	29.783	79.50	107.0		42.5	NW	.78	
19	29.700	29.591	77.47	107.0		40.5	NE NW	10.42	
20	29.815	29.695	72.46	98.5		42.5	NW	7.80	0.43
21	29.974	29.791	69.37	102.0		33.5	NW E SE	.52	0.02
22	30.145	30.106	64.43	77.0		37.0	SW SE	1.56	
23	30.169	30.115	65.41	95.0		31.0	NW SE	1.30	
24	30.161	30.060	67.43	99.5		31.5	NW SE	1.04	0.07
25	30.081	29.963	69.47	104.0		33.5	NW SE NW	1.62	
26	30.187	30.048	64.46	89.0		40.0	SW SE	3.64	
27	30.242	30.121	66.37	95.5		31.0	NW SE	.52	
28	30.076	29.863	68.44	99.0		35.0	NW SE	.78	
29	29.742	29.740	52.48	59.5		44.0	SW	5.72	0.07
30	29.811	29.779	63.38	95.0		32.0	SW SE NW	1.30	
Monthly mean.			55.70	92.78	37.68	Total Force ..	118.73	2.53	
	29-287								

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, 29.287 in., being 0.486 in. below the average.  
 Temperature mean, 55.70°, being 4.58° above the ditto.  
 Solar intensity mean, 92.78°, being 3.32 ditto.  
 Dew point mean, 41.3°, being 0.94° below the ditto.  
 Humidity of air mean, .64, being .12 per cent. below ditto.  
 Elastic force of vapour mean, .280, being the same as ditto.  
 Total amount of rain, 2.53 in., being 0.33 in. above ditto.  
 Increase of spontaneous evaporation on rain-fall, 1.22 in.  
 Mean amount of ozone, 8.70, being 0.78, of chromatic scale above ditto.  
 Electricity active on the 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th, 27th, 28th, and 30th, with 44 positive, and 12 negative, the remainder nil.  
 An aurora on the 3rd. Snow never absent from Mount Wellington, with frequent fresh deposits.

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

12th—Ash commencing to break into leaf.  
 17th—Grape vines ditto.  
 19th—Oak ditto.  
 20th—Mountain Peony commencing to flower.  
 24th—Horsechestnut commencing to flower.  
 25th—Robinia pseudo-acacia commencing to leaf.

FRANCIS ABBOTT.