

METEOROLOGY.

JANUARY, 1875.

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 lb. per square foot.	Rain in Inches.
	In.	In.	°	°	°	°			
1	29.293	29.063	67.49	98.5	44.5		SW	10.41	0.05
2	29.450	29.363	67.46	104.0	42.0		SW S	8.33	0.02
3	29.829	29.776	68.48	100.0	41.5		NW NE SE	1.04	
4	29.965	29.933	80.48	118.0	42.5		NW SE	.52	
5	29.715	29.533	98.52	129.0	46.5		NW	15.89	
6	29.814	29.768	81.55	110.5	50.0		SE S	.104	
7	29.747	29.707	72.55	113.0	49.0		SW SE	8.07	
8	29.925	29.902	71.49	120.0	43.5		SE	.78	
9	29.926	29.728	81.46	117.5	40.5		NW SE	.52	0.15
10	29.600	29.448	79.56	115.0	54.0		NW SW	.52	0.12
11	29.567	29.554	67.51	102.0	48.0		NW SW	1.30	0.15
12	29.430	29.401	68.51	108.0	47.0		NW SW	5.72	0.10
13	29.385	29.313	62.46	102.5	43.0		NW SW	23.43	0.01
14	29.577	28.956	79.50	120.0	44.0		NW SW	13.02	0.01
15	29.445	29.329	76.51	106.0	45.0		SW NW	20.84	0.14
16	29.607	29.491	68.52	113.0	40.0		NW	3.64	
17	29.785	29.765	75.52	112.0	48.0		W	3.38	
18	29.784	29.732	87.55	123.0	50.0		NW SE	5.46	
19	29.805	29.691	96.61	123.0	50.0		SE NW	1.04	
20	29.839	29.757	92.65	91.0	57.5		NE SE	0.	0.04
21	29.812	29.549	89.65	122.0	58.0		W SE	0.	
22	29.583	29.513	100.67	130.0	60.0		NW SW	.78	
23	29.715	29.683	82.63	112.0	56.0		NW W	5.72	
24	30.002	29.968	74.54	110.5	48.0		SW S	8.33	
25	30.032	29.827	69.49	85.0	43.0		W NW	1.30	
26	29.810	29.741	69.56	94.5	46.5		SW SE	1.56	
27	30.132	30.047	69.47	104.0	42.0		SE	.78	
28	29.914	29.647	84.46	123.0	42.0		NW SE	6.25	
29	29.797	29.670	80.60	106.0	49.5		SE	1.30	
30	29.821	29.759	78.47	113.0	40.0		SW SE	1.56	
31	29.451	29.359	74.51	110.0	44.0		NW SW	1.56	
Monthly mean 29.682			66.92	110.84	47.0		Total force	158.70	0.79

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, 29.682in., being .062in. below the average.
 Temperature mean, 62.92°, being 4.23° above the average.
 Solar intensity mean, 110.84°, being 2.78° above the average.
 Dew point mean, 49°, being 10.41° below the average.
 Humidity of air mean, .56, being .11 per cent. below the average.
 Elastic force of vapour mean, .367, being .006 per cent. below the average.
 Total amount of rain, 1.79in., being 0.78in. below the average.
 Increase of spontaneous evaporation on rainfall, 4.88in.
 Mean amount of ozone, 5.75, being 1.18 of chromatic scale below the average.
 Electricity active through the month, with only six nil, 42 positive and 14 negative.
 fresh fall of snow on Mount Wellington on the 15th. The hottest day on the 22nd, 100° in the shade, 130° in the sun.

FRANCIS ABBOTT

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

- 4th.—First Royal Apricot ripe.
- th.—Jargonelle Pear ripe.
- th.—Veronica Angustifolia in full flower.
- 15th.—Grevillea robusta, ditto.
- 25th.—Black Mulberry ripe.

Results of observations taken at New Norfolk for January, 1875:—

Barometer mean, of three daily readings, corrected and reduced, 29.738in.

Temperature, mean, of three daily readings, 63.39°.

Dew point, mean position of ditto, 43.92°.

Humidity mean of ditto, .64.

Elastic force of vapour ditto, .362in.

*Solar intensity mean of maximum temperature, 131.5°.

Terrestrial Radiation mean of minimum temperature, 44.4°.

Rainfall, 1.57in.

Evaporation, 6.90in. ; in excess of rainfall, 5.33.

Clouds, mean amount of three daily observations, 4.3.

Ozone mean of two ditto, 7.7.

Wind, force in lbs. of three ditto, 111.42lbs.

*Taken with Cassella's improved vacuum self-registering thermometer with bulb and part of stem blackened.

W. E. SHOEBRIDGE, Valleyfield.

FEBRUARY, 1875.

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 shade.	Highest in sun.	Lowest on grass.	Direction from three daily registers.	Force in lb. per square foot.	
1	29.960	29.937	97.43	103.0	36.0	NW SE	1.30		
2	30.037	29.790	84.46	116.0	37.5	NW W	1.30	0.11	
3	29.624	29.317	86.64	110.5	52.0	NW W	5.73		
4	29.930	29.729	80.50	102.0	40.5	S SW	6.25	0.67	
5	30.063	30.042	75.42	110.0	36.5	NW SW	.78	0.1	
6	30.224	30.186	80.52	111.0	42.0	SE	.52		
7	30.175	30.124	72.52	109.0	42.0	N NE SE	.52		
8	29.965	29.772	86.54	120.0	47.0	NW N	1.04		
9	29.676	29.523	110.66	120.5	62.0	NW NE	.26	0.18	
10	29.891	29.815	102.55	115.0	50.0	NWS	.52	0.07	
11	30.045	29.922	82.57	118.5	52.0	NE NW	1.04		
12	29.660	29.546	75.60	84.0	54.0	NW	.78	0.21	
13	29.836	29.827	72.49	107.0	42.0	NW SW	1.56	0.10	
14	29.873	29.852	79.54	116.0	45.5	NW	1.30		
15	29.924	29.824	78.49	110.0	42.5	NW SE	1.56		
16	29.945	29.879	69.52	107.0	46.0	NW SW	1.14	0.01	
17	29.960	29.886	78.50	110.0	42.0	NW SW	1.56	0.02	
18	30.121	30.039	71.55	94.5	48.5	NW SE	.26		
19	29.913	29.833	86.53	112.5	47.0	NW W	1.56		
20	30.087	30.013	78.58	75.0	44.5	NE SW	.52		
21	29.935	29.687	90.53	122.0	50.0	NW SE	1.30		
22	29.705	29.643	83.66	115.0	58.0	NW SW	3.64	0.01	
23	29.937	29.924	75.48	110.5	42.0	NW SW	.78		
24	30.086	30.005	80.52	110.0	46.0	N SE	.78		
25	30.188	30.115	82.50	115.0	45.0	NW SE	.52		
26	30.100	30.113	77.53	91.0	48.0	SE SW	5.73		
27	30.279	30.204	79.51	103.0	42.0	N NW	.26	0.08	
28	30.229	30.169	77.46	110.0	41.5	NW SE	.52		
Monthly mean			67.80	108.40	46.0	Total Force	43.03	1.47	
29.934									

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, 29·934in., being 0·092in. above the average.

Temperature mean, 67° 30', being 5·69 above the average.

Solar intensity mean, 180° 40', being 0° 80' above the ditto.

Dew point mean, 51° 9', being 1° 39' above the ditto.

Humidity of air mean, '60, being '10 per cent. below the ditto.

Elastic force of vapour mean, '409, being '034 per cent. above the ditto.

Total amount of rain, 1·47in., being 0·06in. below the ditto.

Increase of spontaneous evaporation on rainfall, 3·49in.

Mean amount of ozone, 5·68, being 1·49 per cent. of chromatic scale below ditto.

Electricity active all through the month with 27 positive, 25 negative, and 4 nil, on the 12th.

Thunder and lightning on the 9th. The hottest day in the sun on the 21st, 122°. On the 9th, in the shade, 110°.

FRANCIS ABBOTT.

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

4th.—Kerry Pippin Apple commencing to ripen.

6th.—Windsor Pear ditto.

9th.—Bon Chretien Pear ditto.

12th.—Green Gage ditto.

20th.—Ash commencing to shed seed.

24th.—Sycamore ditto.

Results of observations taken at New Norfolk for February, 1875 :—

Barometer mean of 3 daily readings, corrected and reduced, 29·969in.

Thermometer mean of 3 daily readings, 64° 33'

Solar intensity mean of maximum temperature, 131° 42'

Terrestrial radiation mean of minimum temperature, 44° 74'

Dew Point, mean position, 52° 8'.

Elastic force of vapour mean of 3 daily readings, '415in.

Humidity mean of ditto, '69.

Clouds amount of ditto, '451.

Wind force in lbs. ditto, total 52° 40lbs.

Rainfall, 1·97 inches.

Evaporation, 5·72in. in excess of rainfall, 3·75in.

Ozone mean, 7·35.

W. E. SHOBRIDGE, Valleyfield.