

APRIL, 1874.
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	30.129	30.690	65	46	102.0	40.0	NW SE	.26	0.12
2	29.834	29.663	82	49	108.0	44.0	NW SE	1.30	
3	29.815	29.704	75	54	99.0	49.5	W SE	1.04	0.02
4	29.970	29.930	64	50	75.5	45.0	S	1.04	
5	30.037	30.001	64	50	70.0	47.0	SW SE SW	1.04	
6	30.134	30.160	69	41	100.0	35.5	NW SE	.78	
7	30.345	30.328	71	42	99.5	37.0	NW SE	.52	
8	30.273	30.314	80	50	104.0	43.0	SE N	1.04	
9	30.192	29.943	84	49	109.5	45.0	NW	5.99	
10	29.865	29.783	82	57	109.0	50.5	SE	0.	0.26
11	29.635	29.585	71	56	85.0	52.0	NW	.52	0.23
12	29.895	29.591	72	43	92.0	41.5	SW NW	10.68	
13	30.174	30.133	68	42	98.5	36.0	NW SE W	.78	
14	30.265	30.164	64	38	88.0	31.5	NW	.78	
15	29.892	29.195	75	43	62.0	33.0	NW	20.84	0.16
16	29.976	29.895	72	42	71.0	34.5	S NW SW	3.12	
17	30.325	30.310	73	43	96.5	38.0	NW N	.78	
18	30.330	30.336	71	44	97.5	39.0	W SE	.52	
19	30.321	30.155	70	46	91.0	41.0	NW	.52	0.14
20	29.976	29.815	65	55	66.5	52.0	NW N	0.	0.42
21	29.775	29.726	61	55	69.0	50.0	S SW	3.12	0.03
22	30.072	29.942	58	46	78.0	38.5	NW SE S	.52	
23	30.116	29.945	70	41	93.5	35.5	NW N	1.04	
24	29.834	29.807	72	40	95.0	34.0	W NW	0.	
25	29.832	29.772	72	46	96.0	42.0	NW SE	.52	
26	29.712	29.551	78	53	95.0	47.0	NW SE	0.	
27	29.553	29.455	63	51	76.0	46.0	S NW SW	1.30	0.06
28	29.761	29.750	61	41	75.0	34.5	SW	3.33	0.06
29	29.932	29.851	62	39	84.0	32.0	NW SW	1.56	0.04
30	30.237	30.162	56	43	88.0	33.0	S SE	0.	
Monthly mean 29.847			60.20		89.0	41.10	Total Force ..	65.63	1.59

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, 29.847in., being 0.065in. below the average.

Temperature, mean, 60.20°, being 4.87° above the ditto.

Solar intensity, mean, 39.0°, being 12.74° below the ditto.

Dew point mean, 43.7°, being 1.53° above the ditto.

Humidity of air mean, .63, being .08 per cent. below the ditto.

Elastic force of vapour mean, .356, being .027 per cent. above the ditto.

Total amount of rain, 1.59in., being 0.18in. below the ditto.

Increase of evaporation on rainfall 1.20in.

Mean amount of ozone 5.80, being 1.26 of chromatic scale below ditto.

Stroug southern lights on the 7th.

A fresh fall of Snow on Mount Wellington on the 15th.

FRANCIS ABBOTT.

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

10th.—Elm leaves commence falling.

18th.—Coe's late red Plum ripe.

20th.—Chinese Chrysanthemums commenced to flower.

25th.—Mountain Ash leaves commenced to fall.

—Seeds of Hornbeam ripe.

30th.—Leaves of Black Mulberry falling.

Results of Observations taken at New Norfolk for April, 1875.

Barometer mean of three daily readings, corrected and reduced, 29.979in.

Thermometer mean of ditto, 55.30.

Dew point mean position at ditto, 49.4.

Elastic force of vapor, mean of ditto .357in.

Humidity mean of ditto, .83.

Solar intensity, mean of maximum temperature, 116.3°.

Terrestrial radiation, mean of minimum temperature, 37.3.

Rainfall, 1.88 inches.

Evaporation, 2.09in. in excess of rainfall, .21.

Clouds, mean amount of three daily registers, 5.41.

Ozone, ditto of two ditto, 6.61.

Windforce in lbs. per square foot, at three observations, total 46.93lbs.

W. E. SHOBRIDGE, Valleyfield.

New Norfolk, April, 1875.

MAY, 1875.

PRIVATE OBSERVATORY, HOBART TOWN.

Day of Month.	Bar. 37ft abv sea level, cor- rected and reduced.		Self-registering Thermometers.				Wind.		
	Highest.	Lowest.	Highest in Shade.	Lowest in Shade.	Highest in Sun.	Lowest on Grass.	Direction from three daily registers.	Force in lbs. per square foot.	Rain in Inches.
	In.	In.	°	°	°	°			
1	30.358	30.328	64	39	86.0	34.0	W NW SE	0.	
2	30.399	30.345	68	43	93.0	38.0	NW NE W	.52	
3	30.371	30.348	60	47	81.5	38.5	N NE	0.	.02
4	30.257	30.161	58	51	70.0	42.0	NE SE E	1.04	.15
5	29.967	29.847	57	51	60.5	44.5	SE	.26	.94
6	29.629	29.626	56	52	58.0	45.0	NW SE	.52	1.50
7	29.441	29.350	65	48	79.0	43.0	SW W NW	.26	0.1
8	29.415	29.380	62	53	87.0	45.0	NW N	1.04	0.16
9	29.493	29.433	59	47	62.5	42.5	W NW N	0.	0.03
10	29.636	29.598	63	45	92.0	41.0	W SW SE	.52	0.08
11	29.656	29.580	57	47	70.0	42.5	NW	.26	
12	29.202	29.131	56	49	62.5	46.0	S SE	0.	0.14
13	29.077	29.041	56	42	78.0	40.0	NW	.78	0.01
14	29.369	29.311	59	41	85.5	35.0	NW SE	.52	0.16
15	29.709	29.422	56	37	62.0	31.5	SW S	6.25	0.15
16	30.040	30.006	55	36	66.0	31.0	NW W	.26	
17	30.139	30.060	60	35	85.0	32.0	W NW	.72	
18	30.184	30.140	59	50	60.5	44.0	W SE	0.	
19	30.245	30.186	62	47	84.0	41.5	NW SE	0.	0.02
20	30.195	30.121	69	47	90.0	42.0	NW SE	.26	
21	30.056	30.000	63	42	86.0	36.0	NW W	1.04	
22	29.733	29.558	60	43	87.0	37.0	W NW	3.38	0.16
23	29.948	29.811	61	40	77.0	32.5	SW	10.41	0.02
24	30.083	29.982	64	43	86.0	38.0	W NW	7.80	
25	30.285	30.264	63	45	89.0	40.0	NW SE	0.	
26	30.340	30.330	63	39	82.0	34.0	NW	.26	
27	30.082	30.049	60	40	79.0	34.0	NW	.78	0.01
28	30.075	30.002	59	43	65.0	32.5	S SW	0.	
29	29.974	29.895	54	34	70.5	28.0	N SW NW	5.47	0.01
30	29.863	29.556	67	45	87.0	36.0	W N NW	11.20	0.04
31	29.861	29.844	63	38	85.0	31.0	NW W	.52	
Monthly mean			53.27	77.63	33.0		Total Force...	53.87	3.61
29.867									

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, 29·867in., being 0·014in. below the average.
 Temperature mean, 53·27°, being 2·65° above the average.
 Solar intensity mean, 77·63°, being 4·53° below the ditto.
 Dew point mean, 45·0°, being 1·14° above the ditto.
 Humidity of air mean, ·76, being ·04 per cent. below ditto.
 Elastic force of vapour mean, ·310, being ·006 per cent. below the ditto.
 Total amount of rain, 3·61in., being 1·84in. above the ditto.
 Increase of spontaneous evaporation on rainfall, 2·64in.
 Mean amount of ozone, 5·10, being 1·85 of chromatic scale below ditto.
 Mount Wellington covered with snow on the 14th. A fresh fall of snow on the mountain and low hills on the 15th with much squall from S.W. An additional fall of snow on Mount Wellington on the 23rd, with heavy squalls from S.W.

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

26th.—*Coronilla glauca* commencing to flower.
 27th.—*Ailanthus glandulosus* leaves all fallen.
 28th.—*Photinia serrulata* commencing to flower.
 30th.—*Diosma alba* ditto.
 31st.—*Spiraea prunifolia* ditto.

FRANCIS ABBOTT.

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

Barometer mean of three daily readings, corrected and reduced, 29·890in.
 Thermometer mean of ditto, 49·95.
 Dew point mean position at ditto, 46·90.
 Elastic force of vapour mean of ditto, ·335in.
 Humidity mean of ditto, ·91.
 Solar intensity mean of maximum temperature, 106·6.
 Terrestrial radiation mean of minimum temperature, 36·19.
 Rainfall, 2·48in. in excess of Evaporation, ·51.
 Spontaneous Evaporation, 1·97in.
 Clouds mean amount of three daily registers, 7·11.
 Ozone, ditto of two ditto, 7·7.
 Windforce in lbs. per sq. ft., of three daily registers total 99·63lbs.

W. E. SHOOBRIDGE,
 Valleyfield.