

MAY, 1874.

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.		Direction from three daily re- gisters.	Force in lb. per square foot.	
			°	°	°	°			
1	30.073	29.985	71.42	93.5	40.0		NW	.78	
2	30.063	30.031	75.46	95.0	42.5		NW SE	.52	
3	30.233	30.228	70.50	96.5	46.0		NW SE	.52	0.43
4	30.184	30.076	68.50	72.0	40.5		SE	0.	0.50
5	29.734	29.391	63.50	63.5	40.0		SE SW	23.44	1.03
6	29.625	29.488	64.50	85.0	40.0		NW	5.97	
7	29.734	29.712	61.46	65.0	42.0		NW	0.	0.31
8	29.859	29.829	72.43	94.0	40.0		SE SW	.52	
9	30.000	29.978	71.42	91.5	38.0		NW NE SE	0.	
10	29.998	29.865	70.44	91.0	40.5		NW	.78	
11	29.648	29.575	64.47	69.0	41.0		NW E	0.	
12	29.627	29.596	60.44	72.0	43.0		SE SW SE	5.72	0.36
13	29.979	29.942	59.48	65.5	40.0		SW SE	.52	
14	30.075	30.067	62.40	83.0	31.0		NW NE	.52	
15	30.111	30.092	58.42	62.5	35.0		NW	1.04	
16	30.136	30.104	66.44	89.0	36.0		NW	.52	
17	30.095	29.914	62.48	60.0	45.0		NW	0.	0.22
18	29.661	29.600	71.50	91.0	45.0		NW	.26	0.03
19	29.630	29.627	68.45	89.0	40.5		NW	0.	0.12
20	29.394	29.326	66.45	71.0	39.0		NW SE	.52	
21	29.533	29.480	61.46	81.5	40.0		NW W NW	1.04	0.30
22	29.546	29.398	58.47	60.5	43.5		SW	1.56	0.14
23	29.850	29.808	55.45	60.0	39.0		SW	6.25	0.24
24	30.129	29.985	58.44	42.0	40.0		SW SE SW	1.56	
25	30.410	30.400	68.46	91.0	39.0		SW NE SE	0.	
26	30.421	30.334	64.50	85.0	31.0		NW SW	.26	
27	30.371	30.330	62.39	81.5	30.0		NW SW	.73	
28	30.366	30.112	65.40	86.5	30.0		NW	.52	
29	30.190	30.111	60.42	61.0	31.5		NW SW SE	.26	
30	30.238	30.184	66.44	85.0	34.0		NW	0.	0.05
31	30.000	29.984	62.48	85.5	38.5		SE SW NW	.78	
Mean monthly 29.927			53.50	78.0	38.76		Total Force	54.65	3.73

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, 29.927 in., being .046 in. above the average.

Temperature mean, 53.20°, being 2.88° above the average.

Solar intensity mean, 73.0°, being 4.16° above the ditto.

Dew point mean, 47.0°, being 3.17° above the ditto.

Humidity of air mean, .79, being .01 per cent. below ditto.

Elastic force of vapour mean, .323, being .019 per cent. above the ditto.

Total amount of rain, 3.73 in., being 1.96 in. above the ditto.

Increase of spontaneous evaporation on rainfall, 0.64 in.

Mean amount of ozone, 5.23, being 1.62 of chromatic scale below ditto.

Electricity active on the 8th, 9th, 10th, 21st, 26th, 28th, 30th and 31st. Feeble and nil during the rest of the month.

An aurora on the 9th. A fresh fall of snow on Mount Wellington on the 31st.

FRANCIS ABBOTT.

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

10th.—First Medlar ripe.

14th.—Coronilla Glauca commencing to flower.

18th.—Photinia serrulata ditto

24th.—Diosma alba ditto.

28th.—Spiraea prunifolia fl. pleno ditto.

31st.—Ailanthus glandulosus, leaves all fallen.

The following are the results of the observations made at New Norfolk during the month :—

Barometer, mean, of three daily readings, 29·937in.

Thermometer, ditto 51·41°.

Ditto max. and min. in shade, 51·22°.

Elastic force of vapour, ·365in.

Humidity of air, ·94.

Rainfall, 1·80in.

Evaporation, ·85in.

Excess of rainfall over evaporation, ·95in.

Mean amount of cloud, 6·25.

Ozone, 6·5.

W. E. SHOOBRIDGE.

JUNE, 1874. 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.		Highest in sun.	Lowest on grass.	Direction from three daily re- gisters.	Force in lb. per square foot.	
			°	°					
1	30·164	30·134	64	44	87·0	35·0	NW	·52	
2	30·126	30·029	62	45	68·0	38·0	NW SE	·78	0 10
3	30·243	30·241	59	47	60·5	39·0	SE NW SE	·26	0·05
4	30·234	30·198	65	55	82·0	40·5	NW	1·04	
5	30·200	30·057	57	50	64·0	45·0	NW	1·56	
6	30·045	29·871	67	51	82·5	43·5	NW	·78	
7	29·600	29·479	75	49	84·0	39·0	W NW SW	0·	0·45
8	30·153	30·011	62	45	65·5	32·5	SW SE	·78	0·14
9	30·230	30·217	62	36	87·0	30·0	NW	·78	
10	30·226	30·217	61	43	82·5	32·0	NW SE	·26	0·02
11	30·237	30·194	59	47	64·0	40·0	NW	0·	
12	30·214	30·166	61	48	71·5	40·0	NW	0·	
13	30·000	29·940	56	44	71·5	34·0	NW SE SW	0·	0·23
14	30·006	30·000	53	45	67·5	40·0	SE	3·64	0·15
15	30·086	30·014	56	42	82·0	37·0	NW NE	·26	
16	30·077	30·056	54	34	76·5	30·5	NW	1·30	
17	30·069	30·021	55	37	76·0	31·0	NW	3·64	
18	29·977	29·822	54	40	65·5	31·5	NW	·78	
19	30·012	29·980	59	40	77·0	31·0	NW	·52	
20	29·777	29·604	57	38	63·0	30·0	NW SW	·26	0·50
21	29·341	29·276	59	52	61·5	34·0	SE	·52	0·76
22	29·485	29·403	55	52	58·5	33·5	NW SE	·26	0·43
23	29·984	29·940	55	49	59·0	35·0	SE	·26	0·04
24	30·192	30·098	53	42	59·0	33·0	NW SW	·52	0·03
25	30·299	30·100	53	40	59·5	36·5	SW NE SW	0·	
26	30·308	30·250	57	42	57·0	35·0	NW NE NW	·78	
27	30·289	30·220	58	38	76·5	28·0	NW	·52	
28	30·102	29·975	55	39	70·5	32·5	W NW SW	·26	0·01
29	29·906	29·837	62	45	81·5	40·0	NW	·26	
30	30·011	29·984	65	45	82·0	35·5	NW	·52	
Monthly mean			49·41	71·57	35·42	Total Force		26·01	2·96
30·022									

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, 30·022in., being 0·131in. above the average.

Temperature mean, 49·41°, being 2·32° above the average.

Solar intensity mean, 71·57°, being 3·92° below the average.

Dew point mean, 42·8°, being 1·11° above the average.

Humidity of air mean, ·82, being ·01 per cent. below the average.

Elastic force of vapour mean, ·284, being ·015 per cent. above the average.

Total amount of rain, 2·96in., being 1·16in. above the average.

Increase of rain on spontaneous evaporation 2·15in.

Mean amount of ozone, 5·20, being 1·41 of chromatic scale below the average.

Electricity feeble and nil all through the month.

Mount Wellington covered with fresh snow on the 15th.

FRANCIS ABBOTT.

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

- 16th.—*Maclaura auractiaca* leaves commencing to shed.
 18th.—Common Privet ditto ditto.
 24th.—*Calycanthus præcox* in full flower.
 25th.—Early *Narcissus* commencing to flower.
 25th.—Snowflake, ditto ditto.
 30th.—Black Mulberry leaves all shed.
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Results of Meteorological Observations made at New Norfolk during June, 1874 :—

- Barometer mean of three daily readings, 30·054 inches.
 Thermometer mean of ditto, 44·92, ditto mean of maximum and minimum in shade,
 44·63.
 Solar intensity mean, 65·2°.
 Terrestrial radiation mean, 34·1.
 Mean temperature of dew point, 42·80.
 Elastic force of vapour, mean, ·292in.
 Humidity of air, ·96.
 Mean amount of cloud, 7·68.
 Ditto ozone, ·746, scale 0·10.
 Prevailing wind, W.
 Damp and foggy weather.

W. E. SHOOBRIDGE, Valleyfield.