

METEOROLOGY FOR DECEMBER, 1876.

PRIVATE OBSERVATORY, HOBART TOWN.

Latitude 42° 25' 13" S.; Longitude 147° 40m. 20. 2a. E.

(Registered for the Royal Society of Tasmania.)

Day of Month.	Bar corrected for instrumental error and to mean sea level.		Thermometers		Thermometer		Relative Humidity.		Clouds.		Wind.		Rain in Inches	Spon. Evap.	Ozone.	Scale.				
	Reading.		Self Registering.		Percent		7 30 a.m. 4 30 p.m.		7 30 a.m. 4 30 p.m.		Force in lbs. per square foot.	Direction from.								
	7 30 a.m.	4 30 p.m.	Centigrade, 7 30 a.m.	Fahrenheit, 7 30 a.m.	Centigrade, 4 30 p.m.	Fahrenheit, 4 30 p.m.	Highest in Shade, 4 30 p.m.	Lowest on Grass, 7 30 a.m.	Character.	Amount.							Character.	Amount.	Direction from.	
1	30.067	29.811	11.5	53.0	71.0	98.5	78.5	40.0	71	65	K	5.0	KS	0.0	NW	.52	8W	2.60		8.0
2	30.762	29.417	11.1	52.0	53.5	100.0	62.0	40.5	69	67	K	8.0	K	0.0	S	1.21	SE	.52	.01	4.0
3	30.892	29.702	11.0	52.0	63.0	83.0	65.0	40.0	64	66	KN	7.5	K	9.5	N	.52	W	.52		4.0
4	30.784	29.832	13.0	56.0	64.0	84.0	67.0	41.0	75	70	K	9.0	W	9.0	W	.50	W	.52	.01	5.0
5	30.951	29.639	14.0	58.0	64.0	98.0	76.0	45.0	71	77	K	7.5	K	7.0	E	.0	SE	.52	.01	4.0
6	31.21	29.491	14.5	58.5	63.0	98.5	79.0	48.0	88	84	KS	7.0	K	7.0	NW	.20	SE	.0		4.0
7	31.774	29.735	13.0	56.0	69.0	100.0	79.5	43.5	85	83	KS	6.0	K	6.5	NW	.20	SE	.0		4.5
8	31.529	29.488	16.0	59.5	67.6	93.5	78.0	44.5	67	68	K	7.5	0	0	W	2.00	W	5.21		3.0
9	31.653	29.862	11.6	53.0	67.5	90.0	72.0	39.0	64	52	K	7.0	KS	7.5	W	2.00	N	2.60	.03	4.0
10	31.997	29.855	17.6	64.0	77.0	100.5	84.0	45.5	73	68	K	4.5	K	1.5	W	2.00	S	.52		3.5
11	31.612	29.415	19.5	63.5	72.0	110.0	86.0	44.0	77	73	KS	6.0	K	5.0	W	2.00	SE	.52		4.0
12	31.874	29.852	14.0	58.0	63.5	98.5	72.5	41.5	97	97	K	6.0	K	10.0	N	.20	SE	.52		3.5
13	31.879	29.816	15.0	59.0	67.5	100.5	79.0	43.0	82	64	K	3.0	K	4.0	W	.20	S	.52		3.5
14	31.945	29.444	15.5	60.0	67.5	100.5	72.5	45.0	77	64	K	10.0	K	4.0	E	.52	SE	.52		3.5
15	31.915	29.228	15.6	60.0	74.0	112.5	79.0	50.0	81	63	KS	8.0	K	8.0	W	.20	SE	.52		3.0
16	31.973	29.881	15.6	60.0	69.0	113.0	79.0	50.0	58	52	K	3.0	K	3.5	N	.52	W	5.21		4.5
17	31.972	30.049	14.0	57.5	67.0	104.0	72.0	48.5	66	62	K	6.0	K	5.5	W	.20	SE	.52		3.5
18	31.961	29.852	13.0	56.0	66.5	99.0	77.0	48.0	71	75	K	2.0	K	0.0	NW	.20	S	2.60	.01	3.0
19	31.968	29.795	15.5	60.0	77.0	113.0	81.0	46.0	71	49	K	2.0	K	6.0	W	2.60	W	5.21		4.5
20	31.763	29.641	15.0	59.5	69.0	100.5	78.0	45.0	62	49	K	4.0	K	7.0	W	2.60	SW	2.60		4.0
21	31.982	29.798	11.6	53.0	67.6	98.5	78.0	46.0	69	75	K	8.5	K	8.5	W	2.60	SW	5.21		3.5
22	31.882	29.819	12.6	65.0	65.0	100.0	70.0	42.5	63	66	K	8.0	KS	9.0	N	.0	W	.52	.01	3.5
23	31.860	29.742	17.5	64.5	81.0	123.0	89.5	46.0	67	50	S	0.0	K	5.0	NW	2.60	SE	.52		4.0
24	31.908	29.541	18.5	63.5	65.0	121.5	89.0	47.5	60	78	K	5.0	K	4.5	N	.20	SE	.52		4.0
25	31.964	29.110	16.5	62.5	66.0	110.0	77.5	43.0	82	109	K	10.0	N	10.0	NE	.0	E	.0	.02	3.5
26	31.963	29.257	10.0	50.0	61.0	73.5	63.0	38.0	69	62	K	8.0	K	8.0	N	.52	W	32	1.31	8.0
27	31.941	29.622	0.5	49.5	59.0	96.0	60.0	36.5	80	67	KN	8.5	K	4.5	N	.0	SW	2.60	.07	6.0
28	31.942	29.115	11.0	52.0	59.0	89.5	65.5	38.0	64	66	K	5.0	K	0.5	W	.52	S	.52	.08	4.5
29	31.194	29.127	14.2	62.5	65.0	104.0	72.0	48.0	80	72	KS	7.0	0	0	NW	.0	S	2.60		4.5
30	31.976	29.932	14.5	59.0	78.0	110.5	79.0	40.5	71	60	S	0.0	0	0	NW	.20	S	.20	.71	3.0
Mean Press		Mean	Min	Temp.	Mean	Mean	Mean	Mean	Mean	Mean	Mean for Month.		Mean Force.		11.	11.	11.			
29.773		13.89	02.26	101.00	75.00	43.70	65.07	6.97	6.97	6.97	1.22 lbs.		1.64 & 03 126.50							
Greatest		0. Max.	Max.		Max.	Max.	Max.	Prevailing		Greatest Force.		Mean								
30.138		16.50	123.00		89.50	50.00	6.97	Character, K		5.21 lbs		4.93								
Least		0. Min	Min.		Min.	Min.	Least Force.		0											
29.110		0.58	78.50		60.00	36.50														

The Meteorological form brought into use at the beginning of 1876 differs in some respects from the former one. It has been adapted with the view of assimilating the Hobart Town records more closely with those of stations in Europe, America, etc., in order to co-operate in a system of International Meteorology. Readings are added from the centigrade thermometer, that being the instrument generally used on the continent of Europe.

The mean is in all cases taken from the sums of the two daily registers, not from the maximum and minimum.

The direction of the wind is registered from currents at a height of 10 feet above sea level, and its force in the per square foot.

The relative quantity of rain that fell under the different winds is registered each morning at 7 30 a.m.

The 35 years' standard tables are used for obtaining the difference from average.

FRANCIS ABBOTT, F.R.A.S., etc.

Time of leafing, flowering and fruiting of a few standard plants in the Royal Society's Gardens during the month of December, 1876.

18th. First bunch net Currants ripe.

20th. First bunch black Currants ripe.

21st. Common Privet commencing to flower.

21. Juneating Apple commencing to ripen.

25th. Doyenne d'Ete Pear commencing to ripen. *Mela acerata* commencing to flower.

H. ABBOTT, JUN., Superintendent.

Results of observations taken at New Norfolk for December, 1876, in accordance with new forms, at 7 30 a.m., and 4 30 p.m.

Barometer, mean of two daily readings, corrected and reduced, 29.617 inches.

Thermometer, mean of two ditto, 62.61 deg.

Ditto, mean of maximum in shade, 64.17 deg.

Dew point, mean position of two daily readings, 50.00 deg.

Elastic force of vapour, mean of two ditto, 375.

Humidity, mean of two ditto, 68.

Terrestrial radiation, mean of minimum temperature, 43.03 deg.

Rain intensity, mean of maximum temperature, 131.06 deg.

Solar radiation, 2.05 inches.

Evaporation, 5.13 inches: in excess of rainfall, 0.08 inches.

Clouds, mean amount of two daily registers, 4.88.

Ozone, mean of two ditto, 6.46.

Wind, force in lbs. per square foot, total of two ditto, 102.33 lbs.

Ditto, horizontal movement, 3.625 miles.

Electricity, 52 observations, 29 negative, 23 positive, 7 nil.

W. E. SHOEBRIDGE, Vallety, etc.