

# METEOROLOGY FOR MAY, 1877.

PRIVATE OBSERVATORY, HOBART TOWN.

Latitude 42° 52' 13" S.; Longitude 9h. 49m. 29.2s. E.  
(Registered for the Royal Society of Tasmania.)

Day of Month.	Bar. corrected for instrumental error and sea level.		Thermometers (Reading.)		Thermometers (Self-Registering.)		Relative Humidity.		Clouds.		Wind.		Rain in Inches.		Spon. Evap.		Ozone.					
	7-30 a.m.	4-30 p.m.	Centigrade, 7-30 a.m.	Fahrenheit, 7-30 a.m.	Fahrenheit, 4-30 p.m.	Highest in Sun, 4-30 p.m.	Highest in Shade, 4-30 p.m.	Lowest on Grass, 7-30 a.m.	7-30 a.m.	4-30 p.m.	Character.	Amount.	Character.	Amount.	Direction from.	Force in lbs. per square foot.	Direction from.	Force in lbs. per square foot.	7-30 a.m.	7-30 a.m.	7-30 a.m.	
	Per cent		7-30 a.m.		4-30 p.m.		7-30 a.m.		4-30 p.m.		7-30 a.m.		4-30 p.m.		7-30 a.m.		4-30 p.m.		7-30 a.m.		7-30 a.m.	
1	30	321	30	380	9.5	49.0	52.0	60.0	56.0	40.0	93	93	KN	9.0	K	8.5	S	0	S	0	.05	7.0
2	30	341	30	308	9.5	49.0	55.0	61.0	56.0	40.0	86	81	K	10.0	K	10.0	0	SE	.26	.01	6.0	6.0
3	30	240	30	179	10.5	51.0	55.0	65.5	58.5	45.5	86	87	K	10.0	KN	10.0	S	0	SE	0	5.0	5.0
4	30	191	30	106	10.0	50.0	54.0	62.0	56.0	44.0	86	98	K	10.0	KN	10.0	S	0	E	0	4.5	4.5
5	30	013	29	834	7.5	46.0	53.0	62.0	56.0	38.5	93	86	K	7.5	N	10.0	N	0	N	0	4.0	4.0
6	29	718	29	543	6.5	44.5	53.0	62.5	56.0	36.0	86	80	N	10.0	KN	10.0	N	0	NW	0	.29	6.0
7	29	454	29	548	6.0	43.0	43.0	64.5	54.5	34.0	92	67	N	10.0	KN	7.0	SW	0	W	2.60	.2	5.0
8	29	708	29	726	7.0	45.0	57.0	74.0	60.0	35.5	78	65	K	7.0	K	7.0	SW	0	N	0	.05	4.0
9	29	795	29	776	9.0	49.0	55.0	90.0	68.0	37.0	86	75	K	7.0	K	8.5	NW	.26	NW	.52	4.5	4.5
10	30	085	30	066	5.5	42.0	47.0	74.0	59.0	35.5	92	79	K	8.5	K	10.0	SW	0	S	.26	.04	5.0
11	30	080	30	042	2.0	36.0	49.0	87.5	59.0	32.0	91	86	0	0	0	W	.26	S	0	5.0	5.0	
12	30	084	30	048	2.5	36.5	50.0	81.0	58.0	32.0	69	93	0	0	0	NW	0	SE	0	4.0	4.0	
13	30	008	29	4.5	7.0	45.0	52.0	67.5	56.0	35.5	93	74	K	10.0	K	4.5	NW	0	NE	.52	4.5	4.5
14	29	818	29	935	7.0	45.5	55.0	59.5	57.0	35.5	93	100	K	10.0	KN	10.0	NW	0	N	0	3.0	3.0
15	29	792	29	733	10.5	51.0	63.0	90.0	68.0	38.0	80	72	0	0	K	2.0	N	0	N	.52	4.0	4.0
16	29	753	29	657	11.0	62.0	64.0	92.5	70.0	38.5	74	51	0	0	KS	4.0	N	.26	N	2.60	3.5	3.5
17	29	656	29	565	9.0	46.0	57.0	77.5	65.0	36.0	100	87	KN	9.0	K	2.0	NW	.26	N	0	.30	6.5
18	29	479	29	403	5.5	42.0	57.0	78.0	62.0	32.5	93	66	K	4.5	K	5.0	NW	0	N	0	.01	4.0
19	29	293	29	165	12.5	55.5	52.0	90.0	64.0	40.0	70	86	K	7.0	KN	10.0	N	0	NW	0	3.0	3.0
20	29	403	29	433	8.5	48.0	50.0	87.0	59.0	36.0	86	74	K	7.0	K	5.5	NW	5.21	N	0	.08	4.0
21	29	450	29	333	5.5	42.0	52.0	69.5	57.5	33.0	84	86	KS	10.0	KN	10.0	NW	0	NW	.26	.46	4.5
22	29	296	29	463	10.0	50.0	49.0	66.0	55.0	39.5	74	86	K	4.0	K	4.0	W	5.21	W	0	.03	3.5
23	29	583	29	556	4.5	40.0	42.0	68.0	54.0	31.0	78	92	K	6.0	KN	9.0	NW	0	S	.26	5.0	5.0
24	29	715	29	778	3.0	38.0	41.0	66.5	51.0	30.0	92	84	KN	9.0	KN	5.0	S	0	SW	0	.17	6.0
25	29	778	29	870	2.0	35.5	41.0	65.5	51.5	28.5	91	93	KN	10.0	KN	7.0	W	0	SW	.52	.05	6.0
26	29	830	29	710	3.5	35.0	54.0	67.0	52.0	30.0	91	86	K	6.5	K	7.5	NW	.52	SW	.26	.01	4.5
27	29	530	29	510	11.0	52.0	55.0	68.0	56.5	33.0	86	93	K	7.5	KS	10.0	W	0	S	.52	3.0	3.0
28	29	910	30	025	10.0	50.0	52.0	66.5	54.5	32.0	93	86	N	10.0	N	10.0	S	2.60	SW	.52	.22	6.5
29	30	140	30	220	12.0	54.0	59.0	76.5	58.0	34.5	92	81	K	8.0	K	9.0	N	.26	S	0	.02	4.0
30	30	325	30	320	13.5	56.5	61.0	82.0	60.0	34.5	87	87	K	5.0	KS	7.0	S	.26	S	.26	3.5	3.5
31	30	310	30	140	13.5	56.5	59.5	78.5	61.0	34.0	87	87	KS	9.0	KS	10.0	W	0	NW	.52	.35	3.0
Mean Press.	29.831	7.90	49.45	72.90	58.20	35.58	Mean.	84	Mean for Month.	5.55	Mean Force	...	.41	lbs.	Tl.	Tl.	Tl.	1.45	1.38	1390		
Greatest do.	30.350	13.50	...	Max.	Max.	Max.	...	Prev. Character,	K & KN.	Greatest Force	5.21	"	...	...	Mean	4.50						
Least do.	29.165	2.00	...	Min.	Min.	Min.	...	Prevailing Direction.	N.W., S., N.													

The Meteorological form brought into use at the beginning of 1876 differs in some respects from the former one. It has been adopted 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 92 feet above sea level, and its force in lbs. 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 May, 1877.

- 8th. First Medlar ripe.
- 20th. *Achenalia rosea* commencing to flower.
- 21st. *Photinia serrulata* commencing to flower.
- 25th. *Hardenbergia Lindlyana* in flower.
- 28th. *Ailanthus* leaves all fallen.

F. ABBOTT, JUN., Superintendent.

### METEOROLOGICAL.

Results of observations taken at New Norfolk for May, 1877, in accordance with new forms, and registered at 7.30 a.m., and 4.30 p.m. :—

Barometer mean of 2 daily readings, corrected and reduced, 29.850in.

Thermometer, mean of 2 ditto, 45.62deg.

Ditto, mean of maximum and minimum in shade, 46.80deg.

Dew point, mean position of 2 daily readings, 42.20deg.

Elastic force of vapour, mean of 2 ditto, .270.

Humidity, mean of 2 ditto, .89.

Solar intensity, mean of maximum temperature, 104.41deg.

Terrestrial radiation, mean of minimum temperature, 31.19deg.

Rainfall, 1.60ins. : in excess of evaporation, .16in.

Evaporation, 1.44in.

Clouds, mean amount of 2 daily observations, 6.75.

Ozone, mean of 2 daily observations, 8.32.

Wind, force in lbs. per square foot, total of 2 daily observations, 38.29lbs.

Ditto Horizontal movement, 2,350 miles.

W. E. SHOEBRIDGE, Valleyfield

Rainfall at Hill Station, 1,550ft. above sea level, 1.97in.