

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. Chron. Scale.				
	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.	Per cent		7-30 a.m.	4-30 p.m.	7-30 a.m.	4-30 p.m.			7-30 a.m.	7-30 a.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.
1 20-321 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	0	SE	.26	.01	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	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	0	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	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	0	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	0	3.0			
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	0	4.0			
13 30-008 29-945	7.0	45.0	52.0	67.5	56.0	35.5	93	74	K	10.0	K	4.5	NW	0	NE	.52	0	4.5		
14 29-818 29-985	7.0	45.0	55.0	59.5	57.0	35.5	93	100	K	10.0	KN	10.0	NW	0	N	0	0	3.0		
15 29-792 29-783	10.5	51.0	63.0	90.0	68.0	38.0	80	72	0	0	K	2.0	N	0	N	.52	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	0	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	0	3.0		
20 29-403 29-483	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 29-388	5.5	42.0	52.0	69.5	57.5	33.0	84	86	KS	10.0	KN	10.0	NW	0	NW	.26	0	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	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	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	0	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	0	3.0		
Mean Press.	29.831	7.90	49.45	72.90	58.20	35.58	Mean.	84	Mean for Month.	5.55	Mean Force41	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.	Least Force	0	"

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.