

METEOROLOGY FOR APRIL, 1877.

PRIVATE OBSERVATORY, HOBART TOWN.

Latitude 42° 52' 13" S. ; Longitude 9h. 49m. 22.2s. E.

(Registered for the Royal Society of Tasmania.)

Day of Month.	Bar. corrected for instrumental error and to mean sea level.		Thermometers (Reading.)		Thermometers (Self-Registering.)		Relative Humidity.		Clouds.		Wind.		Rain in Inches.			Spon. Evap.	Ozone. Chrom. 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.	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.
	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.		
1 30 302	29 994	7 0	45 0	71 0	92 0	72 0	35 0	79	51	KS	6 0	K	5 0	NW	.52	NW	2 60			
2 29 982	30 234	10 5	51 0	55 0	90 0	70 0	39 0	74	65	K	7 5	K	2 0	S	0	SE	.52		3 5	
3 32 203	29 903	5 5	41 5	67 0	95 0	69 0	38 0	84	56	K	4 0	K	10 0	NW	.52	N	.26		4 0	
4 29 684	29 459	12 0	54 0	62 0	82 0	68 0	42 5	75	62	K	7 5	K	8 5	NW	0	NW	5 21		2 5	
5 29 662	29 234	6 5	43 5	49 0	75 5	63 0	32 5	92	86	KN	7 5	KN	6 0	N	.52	W	5 21	.57	6 0	
6 29 933	30 055	13 0	50 0	62 0	85 0	63 0	41 0	76	59	K	7 5	K	4 0	W	0	W	0	0	5 2	
7 30 252	30 291	5 0	42 0	56 0	95 0	66 0	34 0	84	76	0	0	K	3 0	W	0	SE	0	0	3 5	
8 30 098	29 807	9 0	48 0	65 5	85 5	72 0	38 5	86	72	KS	6 0	K	7 5	NW	2 60	SE	0	0	4 5	
9 29 864	29 785	11 5	53 0	64 0	90 0	72 0	40 0	86	67	K	3 0	KS	5 0	NW	0	N	2 60		4 5	
10 29 742	29 929	8 0	47 0	50 0	90 0	63 5	35 0	79	74	K	6 0	KN	7 0	NW	.52	W	2 60	.05	1 21	
11 30 007	29 963	12 5	55 0	61 0	72 5	65 0	40 0	75	72	K	8 5	K	7 5	NW	2 60	NW	.26	.08	4 0	
12 30 029	30 085	12 0	54 0	66 0	100 5	73 0	39 5	81	64	K	5 5	K	4 0	N	0	NW	0	0	4 5	
13 30 242	30 260	10 0	50 0	60 0	103 5	74 5	37 0	93	88	KS	5 5	KS	7 5	NW	0	S	.52		3 5	
14 30 354	30 378	10 0	50 5	61 0	100 5	72 0	37 0	93	82	0	0	K	3 0	NW	.26	S	.52		4 5	
15 30 433	30 398	10 5	51 0	66 0	109 5	75 5	37 5	80	73	K	3 0	0	0	N	0	SE	.52		4 0	
16 30 389	30 327	10 5	51 0	70 0	110 0	80 0	37 0	86	73	K	3 5	0	0	NW	.52	SE	0	0	4 5	
17 30 302	30 139	13 5	65 5	71 5	108 5	78 0	37 5	80	47	0	0	0	0	NW	.52	N	0	0	4 0	
18 30 084	29 889	13 0	56 0	72 0	101 0	73 5	34 5	61	51	KS	7 0	K	6 0	NW	.26	N	.52		2 5	
19 30 010	30 057	16 5	62 0	62 0	100 0	75 5	37 5	67	77	K	10 0	K	10 0	NW	.26	N	.52		4 0	
20 30 079	29 902	12 5	55 0	65 0	105 0	77 0	35 0	70	68	KS	5 5	K	5 0	W	.52	NE	0	.26	5 5	
21 29 685	29 480	11 5	53 0	54 0	68 0	68 0	34 0	86	93	K	10 0	N	10 0	NW	0	N	0	.70	4 0	
22 29 633	29 648	12 0	54 0	49 0	75 5	62 0	35 0	83	73	K	2 0	N	10 0	NW	0	N	0	0	5 0	
23 29 953	30 048	6 5	44 0	47 0	68 0	56 5	31 5	73	79	K	4 0	KN	7 0	S	0	W	0	.16	5 5	
24 29 958	29 950	3 0	38 0	47 0	58 5	51 0	30 0	92	79	KN	7 5	K	10 0	W	0	NW	0	.04	5 0	
25 29 816	29 792	5 0	41 5	50 0	72 0	56 0	34 0	84	79	K	7 5	K	3 5	NW	.26	SE	0	0	8 5	
26 30 002	29 846	5 0	41 5	48 0	65 5	58 0	34 0	92	93	K	6 0	KN	6 0	N	0	W	0	0	6 0	
27 30 043	30 087	8 5	47 5	50 0	57 0	55 0	38 5	100	93	N	10 0	N	9 0	S	.26	SW	0	0	6 0	
28 30 255	30 250	8 5	47 5	51 0	58 0	56 0	38 5	86	86	N	10 0	KN	10 0	S	0	S	0	0	6 0	
29 30 339	30 345	12 0	54 0	54 5	64 5	53 0	40 0	87	81	N	10 0	KN	7 0	S	.26	S	2 60	.08	4 0	
30 30 369	30 330	10 5	51 0	52 5	59 0	57 5	38 0	86	93	KN	10 0	N	10 0	S	.26	S	2 60	.08	6 0	
Mean	30 035	Mean	M'n. 9 38	Tem. 54 38	Mean. 54 62	Mean. 66 85	Mean. 36 72	Mean. 77	Mean for Month. 6 10	Mean Force ...	63 lbs.	TL. 2 45	TL. 2 92	TL. 142 00						
Greatest do.	Max. 30 433	Max. 18 50	...	Max. 11 00	Max. 10 00	Max. 80 00	Max. 42 50	...	Prev. Character, K & KN.	Greatest Force	5 21 "	...	...	Mean 4 73					
Least do.	Min. 29 459	Min. 3 00	...	Min. 57 00	Min. 51 00	Min. 30 00	...	...	...	Prevailing Direction.	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 April, 1877.

1st. Coe's late Red Plum commencing to ripen.

4th. Elm leaves commencing to fall.

16th. Chinese Chrysanthemums commencing to flower.

20th. *Pyrus aucuparia* leaves commencing to fall.

25th. Leaves of Black Mulberry commencing to fall.

26th. Seeds of Hornbeam ripe.

F. ABBOTT, JUN., Superintendent.

Results of observations taken at New Norfolk for April, 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, 30 032in.

Thermometer, mean of 2 ditto, 51 78deg.

Ditto, mean of maximum and minimum in shade, 53 91deg.

Dew point, mean position of 2 daily readings, 45 75deg.

Humidity, mean of 2 ditto, .80.

Elastic force of vapour, mean of 2 ditto, .315.

Solar intensity, mean of maximum temperature, 115 80deg.

Terrestrial radiation, mean of minimum temperature, 35 50deg.

Rainfall, 2 22in.

Evaporation, 3 30in. : in excess of rainfall, 1 08in.

Clouds, mean amount of 2 daily registers, 5 23.

Ozone, mean of 2 daily registers, 7 83.

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

Ditto Horizontal movement, 2 550 miles.

W. E. SHOORBRIDGE, Valleyfield.

Rainfall at Hill Station, 1,550ft. above sea level, 2 43in.