

METEOROLOGICAL FOR OCTOBER, 1876.
PRIVATE OBSERVATORY, HOBART TOWN.
 Latitude 42° 52' 13" S. Longitude 147° 40m. 22.2s E.
 (Registered for the Royal Society of Tasmania.)

Day of Month.	Bar. corrected mercurial error and to mean sea level.		Thermometers (Reading.)		Thermometers (Self-Registering.)		Relative Humidity. Percent	Clouds				Wind.		Rainfall inches.	Spec. Evap. 7.30 a.m.	Obs. Chrom. Scale. 7.30 a.m.				
	7.30 a.m.	4.30 p.m.	Centigrads, 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.	7.30 a.m.	4.30 p.m.				Force in lbs. per square foot.	Direction from.	Force in lbs. per square foot.	Direction from.
	Character.	Amount.	Character.	Amount.	Character.	Amount.		Character.	Amount.	Direction from.	Force in lbs. per square foot.	Direction from.	Force in lbs. per square foot.				Direction from.	Force in lbs. per square foot.	Direction from.	
1 30 043 30 074	5.5	5.5	48.0	54.5	90.0	62.0	36.0	79	75	K	9.0	KN	7.0	NW	.26	SE	.20	.05	4.0	
2 30 118 29 047	7.0	7.0	49.0	57.0	90.5	69.0	33.5	79	52	K	4.0	KS	7.0	NW	.52	W	.26	.17	6.5	
3 30 83 29 805	12.0	12.0	54.0	63.5	94.0	75.0	38.5	81	82	K	7.0	K	6.0	W	1.0	SE	.60	.62	8.0	
4 30 79 29 588	11.0	5.5	49.5	70.5	100.7	79.5	34.5	89	41	K	4.0	K	4.0	NW	.76	SW	.20	.83	3.0	
5 30 94 29 025	9.5	4.0	45.0	55.5	88.0	72.0	33.0	68	75	KS	10.0	KS	9.0	NW	.26	SE	.26	.26	3.0	
6 30 98 29 009	11.0	5.0	49.0	62.0	90.0	63.0	38.5	80	82	K	10.0	K	8.5	W	.40	SE	.26	.26	6.0	
7 30 807 29 069	9.5	4.0	45.0	56.0	89.0	64.0	39.0	74	84	K	4.0	N	10.0	W	.26	SE	.26	.34	6.0	
8 30 145 29 193	9.5	4.0	45.0	56.5	92.5	61.5	34.0	74	70	K	5.0	0	S	.50	S	.50	S	.52	3.5	
9 30 194 30 082	5.5	4.5	45.5	53.5	73.0	68.0	32.5	84	80	K	10.0	K	10.0	W	.26	NE	.26	.01	4.5	
10 30 97 29 970	10.5	5.0	51.0	50.5	61.5	69.0	37.0	93	83	KN	10.0	KN	10.0	W	.40	W	.40	1.33	6.0	
11 30 92 29 925	11.0	5.0	49.0	64.5	91.0	68.0	38.5	83	78	KN	10.0	K	10.0	W	.26	SE	.26	.11	6.0	
12 30 92 29 963	12.0	5.0	54.0	63.0	69.5	65.0	37.0	93	93	KN	10.0	N	10.0	W	.40	S	.62	.02	6.0	
13 30 99 29 062	10.5	5.0	51.0	51.0	62.0	69.0	34.5	100	100	KN	10.0	KN	10.0	S	.52	S	.26	.90	9.5	
14 30 104 29 132	9.0	4.0	49.0	52.0	58.5	63.0	33.0	85	80	KN	10.0	KN	10.0	S	.52	S	.26	.40	9.5	
15 30 142 30 092	10.5	5.0	51.0	62.0	67.0	65.5	30.5	86	93	KN	10.0	KN	10.0	S	.26	S	.26	.80	8.0	
16 30 904 29 771	12.0	5.0	51.0	50.0	72.5	63.0	43.5	93	94	KN	10.0	KN	10.0	S	.26	SE	.26	.09	6.5	
17 30 98 29 563	12.5	5.0	54.5	64.5	90.0	75.0	44.0	87	79	K	4.0	K	8.5	W	.26	E	.45	.55	5.5	
18 30 704 29 742	11.0	5.0	52.0	60.5	90.0	69.0	37.0	74	69	K	7.0	W	10.0	W	.52	W	.52	.01	6.0	
19 30 829 29 756	7.5	4.0	46.0	69.5	104.5	73.0	33.5	70	50	K	4.5	S	5.5	W	2.60	N	.52	.60	5.5	
20 30 439 29 448	12.0	5.0	54.0	59.0	76.0	68.0	36.0	81	60	KS	10.0	K	4.5	NW	.26	S	.26	.01	7.5	
21 30 548 29 369	8.0	4.0	47.0	61.0	78.5	63.0	34.0	70	94	KS	7.0	K	7.0	NW	.26	NW	.26	.60	6.0	
22 30 445 29 444	11.5	4.5	48.5	57.5	79.0	68.0	38.5	80	67	KN	10.0	KN	10.0	W	.26	W	.26	.17	6.0	
23 30 383 29 339	9.5	4.5	46.5	63.0	90.0	64.5	36.5	80	47	K	3.0	K	2.0	N	2.00	W	2.00	.18	7.0	
24 30 498 29 028	8.0	4.0	47.0	59.0	83.5	62.0	36.0	67	66	K	3.0	K	4.5	NW	.52	W	2.60	.07	6.0	
25 30 738 29 752	9.0	4.0	48.0	65.0	96.0	68.0	37.5	74	55	KN	7.0	N	3.0	N	2.00	W	2.60	.02	6.0	
26 30 807 29 198	9.5	4.0	48.5	54.5	73.5	64.0	38.5	83	75	KN	10.0	K	9.5	SE	.26	SE	.26	.17	6.5	
27 30 982 29 087	12.5	5.0	60.0	69.0	93.5	76.0	42.0	73	64	KS	0.0	K	1.0	N	.52	S	.52	.60	6.0	
28 30 929 29 786	13.0	5.0	56.0	72.0	94.0	75.0	43.0	70	48	K	10.0	K	10.0	NW	.52	NW	2.00	.65	6.5	
29 30 675 29 569	12.5	5.0	61.5	62.5	73.5	60.0	37.0	87	82	K	7.5	K	9.0	NW	.26	N	.26	.55	7.0	
30 30 446 29 537	7.5	6.0	46.0	57.5	72.5	67.0	42.5	70	61	KN	8.0	KN	9.0	N	6.21	S	5.21	.26	6.0	
31 29 685 29 526	13.0	5.0	60.0	60.5	78.0	67.0	43.0	79	66	K	7.0	KN	8.5	NW	.52	W	.52	.03	1.33	4.6

Mean Press	Mean M's	Temp.	Mean	Mean	Mean	Mean	Mean for Month.	Mean Force.	TL	TL	TL
29.829	10.50	65.50	85.00	66.74	37.71	77	7.91	1.15	3.54	9.7	18200
Greatest do.	Max.		Max.	Max.	Max.		Prevailing Character.	Greatest Force,			Mean
30.108	13.00		104.50	79.50	50.00		K & KN	20.53.			5.90
Least do.	Min.		Min.	Min	Min			Least Force,			
29.336	5.50		61.50	68.00	82.50			0			

The Meteorological form brought into use at the beginning of 1875 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, &c. in order to co-operate in a system of International Meteorology. Readings are added from the central grade 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., &c.

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

19. *Carpinus betulus* commencing to leaf.

20th. *Alnus glandulosa* ditto.

21st. *Ulex Euro.* ditto.

22th. Black Mulberry ditto.

23th. Elm seeds commencing to shed.

24th. *Melia azadirach* commencing to leaf.

F. ABBOTT, Junr., Superintendent.

Results of observations taken at New Norfolk for October, 1876, 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 20.847in.

Thermometer, mean of 2 ditto, 54.78deg; mean of max. and min. in shade, 56.96deg.

Dew point, mean position of 2 daily readings, 47.89deg.

Elastic force of vapour mean of 2 ditto, .341.

Humidity of air, mean of 2 ditto, .78.

Solar intensity, mean of maximum temperature, 120.00deg; Terrestrial radiation, mean of minimum temperature, 50.83deg.

Rainfall, 2.16in.

Evaporation, 5.45in; in excess of rainfall, 3.29in.

Clouds, mean of 2 daily registers, 6.03

Ozone, mean of 9 daily observations, 6.54.

Wind, force in lbs. per square foot, total of 2 daily observations, 60.99lbs.

Horizontal movement, 2,670 miles.

Electricity, 47 observations, 22 negative, 11 positive, 14 nil.

W. E. SHOEBRIDGE, Valleyfield.

Rainfall at Hill Station 1550ft. above sea level, 3.76in.