

METEOROLOGY FOR SEPT., 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 temperature instrumental error, and to mean sea level.		Thermometers (Reading.)		Thermometers (Self-Registering.)			Relative Humidity. Per cent		Clouds.		Wind.		Rain in Inches.	Spoon. Evap.	Ozone. 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.	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.	7 30 a.m.								
1	29.720	29.610	8.0	47.0	60.0	99.0	65.0	36.0	86	67	K	7.5 K	4.0 NW	0	NW	.52	—	7.0	
2	29.548	29.567	11.0	52.0	56.0	96.0	65.0	38.5	69	61	K	7.0 K	10.0 N	.26	NW	.26	—	8.0	
3	29.858	29.834	9.5	48.0	52.0	90.0	59.5	34.0	68	69	K	4.5 K	7.5 S	0	NW	.52	—	7.5	
4	29.746	29.802	11.5	53.0	61.0	98.5	67.0	37.5	65	67	K	5.0 K	6.5 W	2.60	NW	.52	.01	8.0	
5	29.788	29.767	12.0	55.0	57.0	95.0	69.0	38.0	65	87	KN	5.5 K	4.0 NW	2.60	NW	2.60	—	9.0	
6	29.793	29.765	10.5	51.0	59.0	90.0	61.5	36.5	64	82	K	8.0 K	7.5 N	2.60	NW	.52	.04	9.0	
7	29.032	29.050	12.5	55.0	59.0	90.0	62.0	37.5	65	61	KS	3.0 K	9.0 N	.52	W	.52	—	7.0	
8	30.175	29.950	11.0	52.0	63.0	105.0	66.0	36.0	69	50	KN	9.0 K	7.5 NW	.26	NW	2.60	—	10.0	
9	30.441	30.445	10.5	51.0	49.0	89.0	62.0	35.5	64	63	K	6.5 KN	5.0 S	2.60	S	.26	.04	10.0	
10	30.497	30.437	7.0	45.0	54.0	88.5	58.5	32.5	67	65	0	0 0	0 N	.26	SE	.52	.05	1.87	8.0
11	30.341	30.371	6.5	43.8	60.0	95.0	62.0	31.5	67	66	0	0 0	0 N	.26	S	—	—	7.5	
12	30.316	30.033	5.5	42.0	57.0	90.0	64.0	30.5	77	71	KN	10.0 KS	7.5 NW	.26	S	.26	—	6.5	
13	29.764	29.930	10.0	50.0	41.0	78.0	58.5	32.5	74	85	K	8.5 N	10.0 NW	0	S	10.42	—	7.5	
14	30.061	30.091	10.0	47.0	51.0	79.5	58.0	32.0	73	73	K	0 K	6.5 NW	2.60	S	.52	.20	10.0	
15	30.220	30.155	6.5	44.0	60.0	98.0	65.0	30.0	73	58	K	3.0 K	2.0 S	0	NW	.52	.01	7.0	
16	30.301	30.275	10.0	56.0	56.0	100.0	65.0	36.0	61	75	0	0 K	9.0 NW	.26	E	.52	—	6.0	
17	30.218	30.155	6.0	43.0	59.0	95.0	66.0	34.0	85	66	0	0 K	5.5 NW	.26	S	.52	—	6.5	
18	29.940	29.850	8.0	47.0	65.0	90.0	68.0	35.5	73	63	K	5.5 KS	.6 N	.26	S	—	—	6.0	
19	29.910	29.860	9.0	49.0	68.0	1 0	74.0	36.0	74	60	0	0 KS	5.5 NW	.26	SE	0	—	7.5	
20	29.920	29.730	10.0	50.0	67.0	106.0	72.0	36.5	74	68	K	9.0 K	3.5 NW	.52	S	.26	—	1.34	5.0
21	29.790	29.833	11.0	52.0	58.5	98.0	68.0	37.0	86	82	N	10.0 N	10.0 S	0	E	.26	.25	6.0	
22	30.172	30.172	10.0	51.0	50.0	—	62.0	35.0	93	100	N	10.0 N	10.0 S	2.60	S	2.60	—	9.0	
23	30.275	30.236	10.0	50.0	52.0	—	58.0	35.5	86	93	K	8.0 N	10.0 S	.26	S	.26	—	10.0	
24	30.292	30.290	10.0	50.0	56.0	—	58.5	35.0	87	93	K	9.0 KN	8.0 SE	.52	SE	0	.04	7.0	
25	30.291	30.274	10.0	50.0	58.0	100.0	61.0	35.5	74	76	0	0 K	7.5 NW	.26	SE	.52	.01	10.0	
26	30.451	30.356	12.0	54.0	62.0	102.0	65.0	37.0	74	67	K	2.0 0	0 N	.26	S	.26	—	7.0	
27	30.360	30.212	11.0	52.0	60.0	107.0	65.0	35.5	71	67	K	.5 K	4.5 NW	.26	SE	.52	—	7.5	
28	30.140	30.042	12.0	56.0	49.0	110.0	63.0	35.0	60	68	K	7.0 K	5.0 N	.52	SE	.52	—	5.0	
29	30.049	29.951	9.5	49.0	65.0	109.0	73.0	33.5	74	68	K	0 KS	4.5 NW	.26	S	.26	—	4.5	
30	29.909	29.870	12.0	54.0	55.0	—	65.0	33.5	81	81	0	10.0 KN	10.0 SE	.26	S	.52	—	.40	5.5

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.

Results of observations taken at New Norfolk for September, 1877, in accordance with new forms, and registered at 7 30 a.m. and 4 30 p.m. :-

Barometer, mean of two daily readings, corrected and reduced, 29.973 in.

Thermometer, mean of 2 ditto, 50.45deg.

Ditto, mean of maximum and minimum in shade, 50.40deg.

Dew point, mean of 2 ditto, 42.30deg.

Elastic force of vapour, .270.

Humidity, mean of 2 ditto, .74.

Solar intensity, mean of maximum temperature, 118.83deg.

Terrestrial radiation, mean of minimum temperature, 31.43deg.

Rainfall, .50in.

Evaporation, 3.96in., in excess of evaporation 3.46in.

Clouds, mean of 2 daily registers, 4.96.

Ozone, mean of 2 daily ditto, 8.00.

W. E. SHOORIDGE, Bushy Park.

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

Time of leafing, flowering and fruiting of a few standard plants in the Royal Society's Gardens during the month of September, 1877.

6th. *Quercus pedunculata*, the common oak, commencing to break into leaf.

10th. Mountain peony commencing to flower.

11th. Horsechestnut commencing to flower.

14th. Grape vine commencing to break into leaf.

15th. Common sycamore, *Acer pseudo-platanus* commencing to break into leaf.

25th. *Robinia pseudo-acacia* commencing to leaf.

F. ABBOTT, JUN., Superintendent.