

METEOROLOGY FOR SEPTEMBER, 1878.

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.		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.	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.				
1	29.843	29.765	12.5	55.	50.	96.	63.	40.	66	66	K	7	K	6	NW	.52	SW	5.21		2.	
2	29.820	29.719	12.5	55.	50.	95.	62.	39.	70	70	K	4	K	7	NW	.52	W	.52		4.	
3	29.892	29.386	10.	50.	52.	82.	60.	35.	86	74	K	10	KN	9	W	.26	W	2.60	.05	4.	
4	29.875	29.965	7.	45.	54.	78.	61.	34.	67	65	K	7	K	7	NW	5.21	NW	.62	.36	9.	
5	29.174	30.072	3.	38.	56.	88.	62.	32.	84	76	K	3	KS	4	NW	0	S	.26	.01	3.	
6	30.104	30.015	7.5	46.	51.	95.	65.	36.	86	76	K	6	K	6	NW	.26	N	.26		7.	
7	29.039	29.884	11.	55.	52.	100.	66.	39.	66	63	K	4	K	5	NW	.26	SE	.26		3.	
8	29.022	29.804	11.	61.	62.	107.	70.	39.	67	78	K	4	K	4	NW	.52	N	.52		9.	
9	29.671	29.801	17.	63.	66	105.	71.	40.	63	64	K	7	K	7	NE	.52	N	.26		6.	
10	29.057	29.831	10.5	51.	53.	72.	64.	30.	93	93	N	10	N	10	E	0	SE	0		9.	
11	29.941	29.839	7.5	46.	54.	87.	68.	33.	86	70	K	4	K	8	NW	0	S	0	.02	57	3.
12	29.803	29.637	9.5	49.	60.	75.	62.	35.	80	82	K	7	K	10	NW	.26	SE	.52	.01	3.	
13	29.691	29.765	11.5	52.	57.	74.	59.	40.	59	71	K	5	K	6	N	.52	NW	.52		3.	
14	29.035	29.474	13.	53.	57.	69.	59.	40.	79	76	K	10	K	10	NW	0	NW	0		2.	
15	29.399	29.359	10.	50.	61.	105.	64.	38.	74	72	K	7	K	3	N	0	SE	.26		7.	
16	29.785	29.874	10.5	51.	54.	72.	62.	38.	86	81	KN	10	K	9	SE	0	S	0		8.	
17	29.955	29.894	11.	52.	64.	106.	68.	40.	81	68	K	4	KS	3	NW	.52	S	0	.01	10.	
18	29.920	29.701	12.	54.	65.	105.	69.	41.	74	78	K	3	K	3	S	.26	S	0		7.	
19	29.856	29.626	11.5	53.	67.	92.	68.	41.	75	52	K	3	K	3	NW	.52	NW	.52	.04	3.	
20	29.045	29.391	12.	55.	70.	109.	75.	41.	57	44	K	5	K	8	N	.26	N	5.21		7.	
21	29.303	29.345	11.	52.	51.	69.	57.	39.	86	88	K	7	KN	10	NW	2.60	W	2.60	.13	6.	
22	29.746	29.659	9.	54.	59.	75.	66.	34.	63	63	KN	8	K	10	NW	2.60	N	2.60	.83	9.	
23	29.281	29.105	15.	50.	53.	69.	54.	36.	74	68	KN	10	KN	10	NW	2.60	N	.52	.02	5.	
24	29.165	29.145	10.	50.	55.	75.	69.	34.	63	75	K	8	K	9	NW	.52	NW	.26	.43	10.	
25	29.087	29.093	11.	52.	51.	67.	57.	36.	81	93	K	7	K	10	NW	.26	SE	0	.01	6.	
26	29.196	29.272	11.	47.	49.	72.	61.	36.	70	75	K	5	K	10	NW	.26	N	0	.40	9.	
27	29.506	29.553	8.	50.	56.	80.	60.	36.	63	75	K	5	K	7	SW	2.60	SW	2.60	.03	6.	
28	29.655	29.913	10.	51.	59.	106.	62.	36.	86	61	K	6	K	4	NW	2.60	N	.26	.01	6.	
29	29.093	29.647	10.5	51.	57.	76.	60.	34.	86	70	K	10	K	4	NW	0	W	2.60		5.	
30	29.093	29.743	10.	50.	57.	76.	60.	34.	86	70	K	7	K	7	NW	2.60	NW	2.60	.06	.65	6.

Mean Press.	Mean M'n. Tem.	Mean S2-33	Mean 63-00	Mean 37-00	Mean 74
29.810	10.22	54.82	82.33	63.00	37.00
Greatest do.	Max.	Max.	Max.	Max.	Max.
30.174	17.00	109.00	75.00	41.00	
Least do.	Min.	Min.	Min.	Min.	Min.
29.087	3.00	67.00	54.00	32.00	

Mean for Month.	Mean Force	TL	TL	TL
6.78	81 lb.	2.89	1.97	136.5
Prev. Character,	Greatest Force			Mean
K	5.21 lb.			6.22
Least Force.				
0				
Prevailing Direction				
NW				

The Meteorological form brought into use at the beginning of 1870 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 September, 1878:—

12th. *Quercus pedunculata* commencing to bloom.

14th. *Horchestnut* commencing to flower.

16th. *Grape Vines* commencing to break.

18th. *Moutan Peony* commencing to flower.

22nd. Common Ash commencing to break.
24th. Common Sycamore commencing to break.
27th. *Robinia pseudo Acacia* commencing to break.

F. ABBOTT, JUN., Superintendent.

Results of observations taken at New Norfolk for September, 1878, in accordance with new forms, at 7.30 a.m., and 4.30 p.m.

Barometer.—Mean of 2 daily readings corrected and reduced, 29.796 inches.

Thermometer.—Mean of 2 do., 49.61 degrees.

Thermometer.—Mean of max. and min. in shade, 50.62 degrees.

Dew Point.—Mean position of, 2 do., 40.56 degrees.

Elastic Force of Vapour.—Mean of 2 do., .253.

Humidity of Air.—Mean of 2 do., .73.

Solar intensity, mean of maximum temperature, 119.44 deg.

Terrestrial radiation, mean of minimum temperature, 33.33 degrees.

Rainfall, 3.16 inches: from beginning of year 18.39 inches; ditto to September, 1877, 15.47 inches; ditto in 1876, 14.81 inches; ditto in 1875, 15.83 inches; ditto in 1874, 14.91 inches.

Evaporation, 3.21; in excess of rainfall .08.

Clouds.—Mean of 2 daily registers, 5.65.

Ozone.—Mean of 2 do., 6.93.

W. E. SHOBRIDGE, Bushy Park.