

METEOROLOGY FOR SEPTEMBER, 1876.

PRIVATE OBSERVATORY, HOBART TOWN.

Latitude 42° 52' 18" S ; Longitude 0h. 40m. 29.3a E.

(Registered for the Royal Society of Tasmania.)

Day of Month	Bar. corrected for thermal error and to mean sea level.		Thermometers (Reading.)		Thermometers (Self-Registering.)		Relative Humidity. Percent	Clouds		Wind.		Rain in inches.	Spec. Evap.	Ozone.	Chron. State.										
	7 30 a.m.	4 30 p.m.	Centigrade.	Fahrenheit.	Fahrenheit.	Highest in Sun.		Highest in Shade.	Lowest on Grass.	7 30 a.m.	4 30 p.m.					7 30 a.m.	4 30 p.m.								
	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.														
129	40.2	29.468	5.0	41.0	45.0	71.5	68.9	34.5	85	K	10	K	N	0	SW	2.60	W	3.00	38	7.0					
130	42.7	29.773	4.0	40.0	43.0	62.0	58.5	33.0	92	K	6	N	7.5	N	0	0	0	2.90	47	5.5					
131	42.0	29.820	29.1	10.0	50.5	78.0	62.0	37.0	74	70	K	70	K	S	7.0	N	3.2	W	5.2	39	6.0				
132	40.2	29.857	11.5	52.0	58.0	72.5	64.0	37.5	71	K	4	K	N	W	0	SE	2.60	02	7.1	2.5					
133	40.7	29.874	6.5	44.0	54.0	73.5	61.0	36.0	79	74	K	35	K	8.0	N	0	SE	0	0	3.0	0				
134	40.0	29.882	8.0	7.0	45.0	69.5	84.0	68.0	56.5	79	68	K	90	K	S	7.0	N	0	W	5.2	4.0				
135	42.0	29.890	21.5	53.5	60.0	91.5	66.5	37.0	64	62	K	75	K	5.0	N	N	2.60	NW	3.2	3.5					
136	42.0	29.899	10.0	50.5	60.0	81.5	65.5	37.5	64	69	K	75	K	6.0	N	N	0	W	5.2	7.0					
137	40.7	29.902	5.5	42.5	47.0	64.0	60.0	33.0	84	79	K	10	K	N	0	SE	2.60	S	5.2	1.0					
138	40.2	29.928	20.8	7.5	46.5	51.5	90.0	58.0	34.5	67	71	K	6	0	K	3.5	8	7.8	SE	03	100	0.5			
139	40.0	29.908	4.0	29.5	55.5	75.0	64.0	37.0	74	76	0	0	0	W	0	0	5.2	8	5.2	0	0				
140	40.1	29.861	20.702	6.0	43.0	55.5	82.5	64.5	33.5	84	61	K	85	K	S	10.0	W	0	W	0	0	0			
141	40.0	29.952	29.280	8.5	47.5	53.0	75.0	38.0	35.0	88	80	K	75	K	N	10.0	N	0	N	0	0	0	0		
142	40.0	29.925	26.981	9.0	48.5	51.5	65.0	54.0	35.5	89	86	K	70	K	N	10.0	NE	0	W	2.0	14	4.5			
143	42.4	29.929	10.890	5.0	50.0	54.0	72.5	60.0	36.0	80	75	K	8	K	N	5.0	NW	2.60	0	0	0	0	0		
144	40.0	29.915	29.535	6.5	44.0	49.0	81.0	59.5	33.5	79	89	K	6	0	N	10.0	W	2.60	SE	03	0	0	0		
145	40.0	29.970	29.704	8.5	47.5	55.0	85.5	62.0	34.0	63	75	K	75	K	7.0	N	W	2.60	20	11	5.5				
146	40.0	29.815	29.754	9.5	49.5	63.0	82.0	69.0	49.0	74	55	K	9	K	S	7.5	W	0	W	2.60	0	1	4.0		
147	40.0	29.724	29.781	16.0	61.0	70.0	81.0	70.0	42.5	59	62	0	0	0	0	0	0	2.60	0	0	0	0	0		
148	40.0	29.742	29.548	11.0	52.0	68.0	89.0	70.0	37.0	74	60	K	5	K	N	10.0	W	2.60	0	0	0	0	0		
149	40.0	29.438	29.495	0.5	50.0	50.0	72.5	67.0	42.0	93	83	N	19.0	N	10.0	W	0	W	2.60	14	3.5				
150	40.0	29.854	29.511	47.5	55.0	57.0	63.0	40.0	73	65	K	49	K	N	5.0	NW	2.60	SW	6.0	43	6.5				
151	40.0	29.900	29.229	9.5	49.0	52.0	101.0	68.5	38.0	73	88	K	10	0	N	5.0	NW	5.2	NW	0.60	3.0	0			
152	40.0	29.914	30.105	8.0	47.0	41.5	84.0	68.0	39.5	73	67	K	4	0	N	3.5	NW	5.2	0	5.2	0	1	4.5		
153	40.0	29.910	29.554	8.5	47.5	61.0	88.5	68.5	37.0	79	56	K	9	K	3.5	N	W	5.2	0	5.2	4.0	0	0		
154	40.0	29.905	29.167	9.0	48.5	59.0	88.0	66.0	37.5	68	61	K	3	0	N	3.0	N	2.60	W	2.60	3.5	0	0		
155	40.0	29.900	29.229	9.5	49.0	52.0	101.0	68.5	38.0	73	88	K	10	0	N	3.5	NW	5.2	NW	0.60	3.0	0	0		
156	40.0	29.737	29.664	11.5	53.0	54.0	81.5	68.0	39.0	69	65	K	4	K	5.5	NW	2.60	SW	2.60	0	3.5	0	0		
157	40.0	29.853	29.622	8.0	46.5	58.0	80.0	61.5	39.0	73	57	K	8	0	K	4.0	N	5.2	NW	2.60	4.0	0	0		
158	40.0	29.963	30.005	8.5	47.0	61.0	85.0	64.0	37.5	67	62	K	1	0	K	7.0	NW	2.60	W	5.2	0	0	0		
159	40.0	29.900	29.860	8.0	47.0	61.5	83.5	65.0	37.0	67	68	K	7	0	N	0	NW	5.2	N	0	114	4.5			
Mean Press		Mean M'n	Tem.	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Force,	Force,	TL	TL	TL	TL	TL	TL	TL	TL	TL	TL	TL
29.751		8.55	-2.30	80	69	64	43	56	65	72	63	35	72	72	2.14	2.81	148	59	4.05	4.05	4.05	4.05	4.05	4.05	4.05
Greatest do.		Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Prevaling	Prevaling	Least Force,	Least Force,	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
39		228	10.00	101	60	70	40	42	50	62	63	35	K & K	K & K	5.21	5.21	4.05	4.05	4.05	4.05	4.05	4.05	4.05	4.05	4.05
Least do.		Min.	Min.	Min.	Min.	Min.	Min.	Min.	Min.	Min.	Min.	Min.	Least Force,	Least Force,	0	0	0	0	0	0	0	0	0	0	0
25		102	4.05	62	10	10	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 50 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.

FRANCIS ABBOTT, F.R.A.S., etc.

Results of observations taken at New Norfolk for September, 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 - 29.776in.

Thermometer, mean of 2 ditto, 49.31deg; mean of max. and min. in shade, 39.45deg.

Dew point, mean position of 2 daily readings, 41.42deg.

Humidity of air, mean of 2 ditto, 71.

Elastic force of vapour, mean of 2 ditto, .922.

Solar intensity, facts of maximum temperature, 113.86deg; Terrestrial radiation, mean of minimum temperature, 32.05deg.

Rainfall, 2.7in.

Evaporation, 5.15in in excess of rainfall, 2.30in.

Clouds, mean of 2 daily registers, 5.30.

Ozone, mean of 2 daily observations, 7.24.

Wind, force in lbs. per square foot, total of 2 daily observations, 75.7-lbs.

Horizontal movement, 3,925 miles.

Electricity, 2; ob. evolutions, 37 negative, 5 positive, 8 nil.

W. F. SHOUBRIDGE, Valleyfield.

Time of leafing, flowering and fruiting of a few standard plants in the Royal Society's gardens during September, 1876 -

9th. Oak commencing to break into leaf

21st. Mistletoe commencing to flower

27th. Ash commencing to break into leaf

28th. Grapes vine, 4th

with Horsechestnut commencing to flower. Robinia pseudo Acacia commencing to leaf

F. ABBOTT JES., Superintendent