

METEOROLOGY FOR AUGUST, 1876.

PRIVATE OBSERVATORY, HOBART TOWN.
Latitude 42° 52' 13" S ; Longitude 149° 29'-23" E.
Registered for the Royal Society of Tasmania.

Day of Month.	Bar. corrected for instr. mental error in mean sea level.		Thermometers (Reading)		Thermometers (Self Registering)		Relative Humidity.		Clouds		Wind.		Rain in Inches.	Spec. Evap.	Ozone. Galv. Chan. Scale.										
	7.30 a.m.		7.30 p.m.		7.30 a.m.		Percent		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.	7.30 a.m.	4.30 p.m.	7.30 a.m.	4.30 p.m.	Character.	Amount.	Direction from.	Force in lbs. per square foot.				Direction from.	Force in lbs. per square foot.								
1	30	245	30	220	12.5	55.0	56.5	82.5	65.0	35.0	80	87	K	7.5	K	2.0	NW	20	NW	52	92			4.5	
2	30	240	30	230	13.0	56.0	59.0	87.0	66.5	30.5	93	93	K	0.0	KS	0.0	NW	20	SE	0	0			4.0	
3	30	255	30	255	13.0	55.0	59.5	85.0	71.0	40.0	80	87	K	3.0	KS	3.5	W	20	SE	0	0			4.0	
4	30	240	30	190	13.0	55.0	56.0	80.5	58.0	32.5	93	87	K	8.0	KN	10.0	NW	20	NW	0	0			4.0	
5	30	150	30	30	4.0	74.0	54.0	77.0	57.5	33.0	93	83	KN	9	K	8.5	W	26	N	0	0			5.0	
6	29	8.8	27	7.0	6.0	44.0	56.0	79.0	59.0	37.0	92	86	K	10.0	KN	10.0	NW	0	SE	0	0			4.0	
7	29	23.4	29	54.3	8.0	41.5	48.0	54.0	55.0	39.0	82	80	K	15.0	N	10.0	W	20	NW	0	0			5.5	
8	20	77.4	29	39.7	6.0	43.0	52.0	87.5	59.0	33.0	78	74	K	4.5	K	3.0	N	0	W	20	0			7.5	
9	30	69.8	29	89.2	4.0	40.0	55.5	85.5	60.0	29.0	78	65	K	7.0	K	7.0	N	0	W	20	0			4.0	
10	30	145.3	30	136.7	7.0	40.0	58.5	84.0	60.0	34.0	85	80	KN	9.0	KS	8.0	S	0	NW	0	0			32	
11	30	219	30	172	4.0	40.0	61.5	75.0	50.0	34.0	82	86	KN	3.5	K	4.5	NW	20	NW	0	0			4.0	
12	30	158.3	30	118	6.5	44.0	68.5	89.5	62.0	35.5	85	82	K	7.0	K	7.5	W	20	N	0	0			0.5	
13	30	110	30	65.4	6.0	42.0	53.0	75.0	59.0	34.0	84	80	K	3.0	KN	10.0	W	20	S	52	52			3.5	
14	30	257	30	161	3.0	38.0	53.0	85.0	58.0	31.5	84	74	K	0.0	0	0	W	20	NW	52	52			4.0	
15	29	204	29	169.0	2.5	37.0	53.0	87.0	54.0	31.0	83	64	K	2.0	K	3.0	NW	20	W	52	52			4.0	
16	29	460	29	448	5.0	41.0	45.0	61.5	53.5	32.0	78	73	N	10.0	KN	0.0	W	20	N	52	52			0.5	
17	29	92.9	29	96.6	3.5	38.5	43.0	60.0	37.0	30.5	84	78	KN	7.5	N	0	S	2.0	S	2.0	4.0			5.5	
18	29	98.9	29	92.9	2.6	36.5	46.5	51.0	40.0	28.5	100	80	N	10.0	KN	0.5	W	20	W	26	61			7.0	
19	30	132	30	134	1.5	39.5	52.5	76.0	61.0	27.5	90	80	K	1.0	S	5.0	S	26	SE	0	0			4.0	
20	30	174	30	172	0.0	48.0	57.0	67.0	58.0	32.0	77	70	KS	5.5	KS	7.5	N	26	NW	26	26			7.0	
21	30	94	29	84.5	3.0	40.0	62.0	86.0	63.0	30.0	84	84	KS	4.0	KS	4.0	W	26	NW	52	52			4.0	
22	29	83.3	29	74.0	8.0	47.5	63.5	100.0	68.0	34.0	80	87	K	8.0	KS	5.0	NW	26	NW	52	52			4.0	
23	29	81.1	29	68.2	8.0	43.0	63.0	82.0	70.0	30.5	84	51	0	K	2.0	N	0	W	20	N	2.0	4.0			3.5
24	29	51.2	29	87.7	6.0	43.0	48.5	75.5	67.0	31.0	84	85	KN	3.0	N	10.0	NW	52	N	52	2.0			4.0	
25	29	51.7	29	59.8	5.0	43.0	47.5	84.0	61.0	32.0	85	67	K	7.0	KN	7.0	W	26	N	2.0	6.0			4.0	
26	21	7.30	29	73.9	0.5	44.0	65.5	90.0	62.5	31.5	60	75	K	7.5	KS	9.0	NW	52	SW	52	0			4.0	
27	30	69.4	30	69.1	0.5	44.5	54.0	79.0	58.0	31.5	78	70	K	8.0	K	0.0	NW	52	S	2.0	32			4.0	
28	30	60.0	29	62.0	4.0	40.0	60.0	65.5	59.0	31.5	84	70	K	10.0	KN	0.0	W	52	SW	52	0			4.0	
29	30	63.0	29	66.7	7.5	45.5	54.0	90.0	83.0	34.0	80	70	K	7.0	K	4.0	NW	0	W	52	0			4.0	
30	29	75.3	29	77.1	10.0	50.0	58.5	72.5	60.0	35.5	68	66	K	10.0	K	7.5	W	5.21	W	2.0	0.0			3.5	
31	29	74.2	29	80.1	12.5	55.0	65.0	90.5	68.0	37.0	65	45	KS	7.6	K	7.0	NE	5.21	W	6.21	0			1.31	
Mean Press		Mean M'a		Mean Mean		Mean		Mean		Mean for Month.		Mean Force,		Tl. Tl.		Tl. Tl.									
29.930		0.76		40.46		78.79		09.24		32.60		.99		1.94		2.42									
Greatest do.		Max		Max.		Max.		Max.		Prevailing Character.		Greatest Force,		Mean											
30.350		13.60		100.0°		77.00		42.50		K, KN & KS		5.31.		4.76											
Least d.		Min.		Min		Min		Min		Least Force,															
29.377		1.59		61.00		49.00		27.50		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 centrifugal 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 thirty-five years' standard tables are used for obtaining the differences from average.

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

- Time of leafing, flowering and fruiting of a few standard plants in the Royal Society's Gardens during August, 1876.—
- 15th Sambucus nigra commencing to break into leaf.
 - 23rd. Horse chestnut ditto ditto.
 - 24th. Gooseberry commencing to start.
 - 29th. Common Elm commencing to flower.
 - 31st. Lombardy Poplar commencing to break into leaf.

F. ABBOTT, JUN., Superintendent.

Results of observations taken at New Norfolk for August, 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, 29.926in.
- Thermometer, mean of 3 ditto, 44.24deg; mean of max. and min. in shade, 40.00deg.
- Dew point, mean position of 2 daily readings, 30.93deg.
- Humidity mean of 2 ditto, .83.
- Elastic force of vapour mean, of 2 ditto, .742.
- Solar intensity, mean of maximum temperatures, 103.38deg.
- Terrestrial radiation, mean of minimum temperature, 30.83deg.
- Rainfall, 2.17in.
- Evaporation, 2.45in. : in excess of rainfall, .28in.
- Clouds, mean of 3 ditto, 9.17.
- Ozone, mean of 2 daily observations, 7.33.
- Wind, force in lbs. per square foot, total of 2 daily observations, 37.25lbs.
- Horizontal movement, 2.610 miles.
- Electricity, 55 observations, 10 negative, 12 positive, 24 nil.

W. F. SHOOBIDGE, Valler6611.