

METEOROLOGY FOR JULY, 1876.  
 PRIVATE OBSERVATORY, HOBART TOWN.  
 Latitude 42° 52' 13" S.; Longitude 149° 40m. 20.2a. E.  
 (Registered for the Royal Society of Tasmania.)

Day of Month.	Bar. corrected for natural altitude and to mean sea level.		Thermometers (Reading.)				Thermometers (Self-Registering)		Relative Humidity.		Clouds			Wind.			Rain in Inches.	Spoon Evap.	Ozone.	Chron. Scale.	
	7 30 a.m.	4 30 p.m.	Centigrads.	Fahrenheit.	Fahrenheit.	Fahrenheit.	7 30 a.m.	4 30 p.m.	Per cent.	7 30 a.m.	4 30 p.m.	Character.	Amount.	Direction from.	Force in lbs. per square foot.	7 30 a.m.					4 30 p.m.
	7 30 a.m.	4 30 p.m.	7 30 a.m.	7 30 a.m.	4 30 p.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.					
1 23 716 29 738	5 5	47 5	49 5	70 0	55 0	42 0	73	75	K	4 0	K N	4 0	SW	52	S	2 00			4 0		
2 51 123 50 62 6	5 5	47 5	49 5	70 0	55 0	42 0	73	75	K	4 0	K N	4 0	SW	52	S	2 00			4 0		
3 39 024 2 33 39	5 5	38 5	50 0	63 0	59 5	32 0	75	75	KS	3 0	K S	3 0	W	50	NW	0 0			5 5		
4 4 009 2 06 2	5 0	41 0	41 5	70 0	59 0	33 5	85	80	K	3 0	K	3 0	W	50	NW	0 0			4 0		
5 20 65 2 14 4	1 5	34 5	48 0	74 5	64 0	30 0	79	79	KS	0 0	SW	0 0	W	50	N	0 0			1 0		
6 30 07 30 0 2	0 0	38 5	49 0	68 0	55 0	30 5	91	74	KS	4 5	K	4 5	W	50	N	0 0			5 5		
7 30 01 20 5 6	5 0	41 0	54 5	70 5	57 0	35 5	85	89	K	6 0	K S	6 0	NW	0 0	W	26			5 5		
8 30 04 30 0 3	9 5	49 5	51 5	67 0	55 0	40 0	85	89	K	10 0	K S	10 0	NW	2 0	NW	2 0			5 0		
9 49 0 13 0 12	5 0	37 0	50 5	72 0	65 5	31 5	84	88	K	8 5	K S	8 5	NW	2 0	NW	0 0			5 0		
10 49 0 27 23 5 7	1 0	30 0	51 5	70 5	55 0	35 0	82	83	K	7 0	K S	7 0	NW	2 0	NW	0 0			5 5		
11 12 0 2 30 0 12	2 0	31 5	45 0	52 5	52 0	31 5	91	109	K	7 5	N	10 0	NW	2 0	S	1 10			3 5		
12 1 17 2 10 2 0	3 0	38 0	43 0	62 0	50 0	32 5	84	84	K N	6 5	K N	6 5	NW	2 0	S	1 10			3 5		
13 20 2 7 13 24	5 0	37 0	49 0	65 5	52 0	30 0	95	103	K	8 5	K	8 5	NW	2 0	S	1 10			3 5		
14 30 15 2 44 1 1	1 5	41 5	47 5	74 0	62 0	35 5	93	93	K	0 0	N	0 0	NW	2 0	NW	0 0			7 0		
15 30 18 1 30 4 0	1 0	31 5	45 5	71 0	52 0	27 0	84	70	0	0	0	0	NW	2 0	NW	0 0			7 0		
16 30 3 2 30 2 0	3 0	37 0	44 5	60 0	50 0	30 0	70	85	KS	5 0	K	5 0	NW	2 0	NW	0 0			5 5		
17 30 0 16 2 18 5	5 0	41 0	55 0	74 5	64 5	31 0	83	70	K	8 0	K	8 0	NW	2 0	NW	0 0			4 5		
18 14 1 19 2 14 1 4	3 0	39 0	55 0	83 5	59 0	34 0	76	74	KS	5 0	0	5 0	NW	2 0	N	0 0			3 5		
19 30 2 2 3 1 17 5 6	5 5	41 5	50 0	60 5	58 0	32 5	78	69	K	7 0	KS	7 0	NW	2 0	NW	0 0			1 1		
20 2 17 5 2 10 0 4	8 0	47 0	43 5	61 0	52 5	34 0	80	71	K	8 5	N	10 0	NW	2 0	SW	5 21			1 5		
21 30 2 1 30 3 47 5 0	1 0	41 0	48 0	74 0	63 0	30 5	71	70	K N	7 0	K N	7 0	NW	2 0	S	3 30			5 5		
22 30 2 2 3 30 3 0	4 0	39 5	50 0	70 5	64 5	34 0	75	74	K	4 5	KS	4 5	NW	2 0	NW	0 0			1 0		
23 30 2 7 2 30 1 0 3	6 5	43 5	54 5	84 0	68 0	34 5	73	76	0	0	0	0	NW	2 0	NW	0 0			3 5		
24 30 4 1 2 3 18 5	3 5	38 5	58 0	83 0	65 0	34 0	92	50	K	4 5	K S	4 5	NW	2 0	NW	0 0			5 5		
25 30 7 2 2 30 1 1	6 0	43 0	50 0	70 0	67 0	32 0	73	87	K	1 0	K N	1 0	W	52	NW	0 0			1 0		
26 30 1 4 2 3 10 0 6	4 0	42 0	50 0	70 5	59 0	33 5	84	80	KS	10 0	K	10 0	NW	2 0	NW	0 0			5 5		
27 2 10 1 5 2 10 3 1 0	1 4 0	53 0	57 5	66 0	50 0	31 0	83	81	N	10 0	N	10 0	N	52	S	5 21	0 2		5 5		
28 2 15 1 20 10 0 1 3 0	1 3 0	55 0	57 0	67 5	61 5	33 5	83	80	N	10 0	K N	7 0	N	52	S	2 0	0 1		5 0		
29 2 10 1 5 2 10 1 1 0	1 2 0	55 5	58 5	72 0	65 0	32 5	89	87	N	10 0	K N	10 0	NW	2 0	NW	0 0			5 5		
30 30 1 10 2 10 1 1 0	1 1 0	54 0	57 0	78 5	56 5	31 0	83	83	K	7 0	KS	7 0	SW	5 2	NW	2 0	1 0		6 5		
31 2 14 5 20 1 10	1 2 5	54 5	54 0	65 0	58 0	32 5	80	85	N	10 0	N	10 0	N	5 2	SW	2 0	1 5		25 3 5		
Mean Pres.	Mean	M'n	Tem.	Mean	Mean	Mean	Mean	Mean	Mean	Mean for Month.	Mean Force.	TL	TL	TL	TL	TL	TL	TL	TL		
30 0 2	5 10	46 35	70 6	56 42	32 50					6 29	70.	2 53	91	154 0							
Greatest d.	Max	Max	Max	Max	Max	Max	Max	Max	Max	Prevailing Character.	Greatest Force.									Mean	
31 12	14 00		84 00	67 00	43 00					K & KS	5 21									5 00	
Least d.	Min.	Min	Min	Min	Min	Min	Min	Min	Min		Least Force.										
2 5 0 5	0 1		52 50	50 00	27 00						0										

The Meteorological form brought into use at the beginning of 1876 differs in some respects from the former one. It has been adapted 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 thirty-five 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 Botanical Gardens during the month of July, 1876:—

- 20th.—*Arbutus unedo* commencing to flower.
- 24th.—*Garrya elliptica*, ditto.
- 31st.—*Almond*, ditto; *Yellow Crocus*, ditto.

F. ABBOTT, Jns., Superintendent.

Results of observations taken at New Norfolk for July, 1876, in accordance with new forms, and registered at 7 30 a.m. and 4 35 p.m.:

Barometer, mean of 2 daily readings, corrected and reduced, 30 09 in.

Thermometer, mean of 2 ditto, 89° 33 deg. mean of max. and min. in shade, 41 53 deg.

Dew point, mean of 2 daily readings, 30 04 deg.

Elastic force of vapour mean, of 2 ditto, 217.

Humidity mean of 2 ditto, 88.

Solar intensity, mean of maximum temperature, 94 96 deg.

Terrestrial radiation, mean of minimum temperature, 20 90 deg.

Ozone, mean of 3 daily observations, 7 82.

Clouds, mean of 2 ditto, 5 37.

Rainfall, 1 04 in.: in excess of evaporation, 0 0 in.

Evaporation, 95 in.

Wind, force in lbs. per square foot, total of 2 daily observations, 15 04 lbs.

Horizontal movement, 1 160 miles.

Of 62 observations, 25 were calms, 8 rainy days.

On 12th the terrestrial radiation was 13 deg.

The aereal movement was less by 620 miles than during any month in the last twelve.

W. E. SHOEBRIDGE, Valleyfield.