

JULY, 1875.

## PRIVATE OBSERVATORY, HOBART TOWN.

Day of Month.	Bar. 37ft abv sea level, corrected and reduced.		Self-registering Thermometers.				Wind.		Rain in Inches.
	Highest.	Lowest.	Highest in Shade.		Lowest in Shade.		Direction from three daily registers.	Force in lbs. per square foot.	
			°	°	°	°			
1	30°25'	30°19'	56	35	78°0	31°0	NW	1·30	
2	30°21'	30°18'	55	37	77°5	33°0	NW	1·04	
3	30°21'	29°98'	58	37	81°0	28°0	NW	·52	'01
4	29°94'	29°94'	53	35	59°0	29°5	NW NS	·78	
5	30°06'	30°05'	52	40	64°0	35°0	S	·52	'83
6	30°26'	30°22'	58	36	79°0	30°0	NW	·52	'92
7	30°39'	30°36'	55	32	76°5	28°0	NW	·52	
8	30°32'	30°31'	59	35	81°0	28°5	W NW	1·30	
9	30°37'	30°29'	61	37	75°0	28°0	NW	·26	
10	30°34'	30°31'	64	45	85°5	41°0	NW SW	·78	'01
11	30°35'	30°34'	61	51	74°0	45°0	NW	1·56	
12	30°34'	30°18'	57	44	64°0	40°5	NW	1·04	
13	30°18'	30°13'	60	45	69°5	39°0	NW	·78	
14	29°95'	29°84'	58	41	60°0	35°0	NW	0	'31
15	29°65'	29°54'	57	46	75°0	43°0	NW	1·30	'02
16	29°75'	29°69'	62	42	84°0	40°0	NW	3·38	'08
17	29°56'	29°43'	63	39	89°0	36°5	W NW	·26	'09
18	29°56'	29°51'	59	41	65°5	35°0	NW W SE	0	
19	29°75'	29°72'	59	38	79°0	31°0	NW SW	1·04	
20	30°18'	30°09'	59	42	78°0	37°5	NW	1·56	
21	30°25'	30°22'	62	41	85°0	36°0	NW W	·26	
22	30°27'	30°22'	62	38	81°5	33°0	SW NW	·52	
23	30°27'	30°18'	60	36	79°0	32°0	NW	1·56	
24	30°21'	30°12'	59	36	85°5	32°0	W NW	·78	
25	30°21'	30°06'	56	33	80°5	30°5	NW	·78	'36
26	29°81'	29°74'	60	40	81°0	33°0	SW NW	·78	'04
27	30°10'	30°06'	55	41	75°0	35°0	S	·26	'18
28	30°26'	30°21'	53	40	55°5	34°5	SE S	·26	'01
29	29°85'	29°70'	55	42	75°5	36°0	S SE	3·38	
30	29°84'	29°81'	65	41	87°5	37°0	SE S W	0	
31	29°87'	29°82'	62	45	86°5	39°0	NW	5·46	
Monthly mean			50°25'	76°36'	34°65'	Total Force...	31°90'	1·94	
	30°53'								

The mean in all cases is taken from the sums of the three daily registers, and not from the maximum and minimum.

The direction of the wind is registered from currents moving at a height of 192 feet and the force according to Lind's Wind Gauge. The supposition, however, of a uniform velocity during the month is a very arbitrary one, and the results can be considered only approximately correct.

The relations of the quantities of rain which fell under the different winds are registered each evening at sundown.

The 30 years' standard tables are used for obtaining the difference from the average.

Barometer mean, 30°053in., being above the average, 0°206in.

Temperature mean, 50°25', being 4°18' above the average.

Solar intensity mean, 76°36', being 0°28' above the ditto.

Dew point mean, 41°8', being 1°0' above the ditto.

Humidity of air mean, '73, being '09 per cent. below the ditto.

Elastic force of vapour mean, '266, being '008 per cent. above the ditto.

Total amount of rain, 1·94in., being 0°26in. below the ditto.

Increase of rainfall, on spontaneous evaporation 0°2in.

Mean amount of ozone, 4·35 being 2·75 of chromatic scale, below ditto.

Electricity more or less all through the month,—16 positive, 34 negative, 5 nil, on the 4th, 10th, and 14th.

Fresh snow on Mount Wellington on the 3rd, 20th, and 26th.

*Leafing, Flowering, and Fruiting of a few Standard Plants in the Royal Society's Gardens, during the month.*

13th.—Arbutus unedo commencing to flower.

16th.—Garrya elliptica ditto

28th.—Almond in full flower.

31st.—White Mulberry commencing to start.

„ —Yellow Crocus in flower.

FRANCIS ABBOTT.

Results of Observations made at New Norfolk during the month  
 Barometer, mean of three daily readings, corrected and reduced, 30·048in.  
 Thermometer, mean of 3 daily readings, 45·27°  
 Dew Point, mean of ditto, 41·01°.  
 Humidity mean of ditto, 87.  
 Elastic force of vapour, mean of ditto, 261.  
 Solar intensity, mean of maximum temperature, 101·48°.  
 Terrestrial Radiation, mean of minimum temperature, 29·29°.  
 Rainfall, 1·48in.  
 Evaporation, 1·41in.  
 Clouds, mean amount of three daily registers, 5·7.  
 Ozone, mean amount of two daily ditto, 7·4.

W. E. SHOORIDGE, Valleyfield.

AUGUST, 1874.  
 PRIVATE OBSERVATORY, HOBART TOWN.

Day of month.	Bar. 37 feet abv. sea level corrected & reduced.		Self-Registering Thermometers.				Wind.		
	Highest.	Lowest.	Highest in shade.	Lowest in shade.	Highest in sun.	Lowest on grass.	Direction from three daily re- gisters.	Force in lbs. per square foot.	Rain in Inches.
	In.	In.	°	°	°	°			
1	30·258	30·224	58·35	73·0	31·5	W NW NE	·26	0·21	
2	30·077	29·895	52·34	58·5	26·5	NW	·78		
3	29·712	29·656	67·43	90·0	36·0	NW	·52		
4	29·853	29·729	63·44	74·0	35·5	NW	0·		
5	29·509	29·493	59·42	71·0	36·0	NW W	0·	0·04	
6	29·786	29·770	65·37	87·5	33·0	NW SE	·52		
7	29·760	29·680	61·32	86·5	27·0	NE SE	1·04		
8	29·806	29·733	59·44	89·0	36·0	WS	·52	0·01	
9	29·830	29·794	61·36	75·0	23·5	W NW	·52	0·07	
10	30·020	30·000	58·33	81·0	30·0	S	·26	0·3	
11	30·130	30·082	59·32	85·5	28·0	NW E	·26		
12	29·980	29·792	53·32	83·0	26·5	W NW	·78		
13	29·739	29·704	65·36	88·0	23·0	W NW	·52		
14	29·656	29·567	65·45	91·0	33·5	NW	16·15		
15	29·425	29·335	66·53	89·0	42·0	NW	10·94	0·20	
16	29·680	29·612	60·40	89·5	36·5	NW N	·73	0·01	
17	29·884	29·753	64·41	89·5	37·0	S SE	·52	0·09	
18	29·688	29·644	58·44	77·0	36·5	W SW	10·41	0·21	
19	29·853	29·734	61·44	83·0	40·0	NW	1·30		
20	29·626	29·600	59·41	77·5	34·0	SW NW	1·56	0·41	
21	29·722	29·694	55·33	78·0	32·0	SE SW	7·80	0·01	
22	29·742	29·624	61·33	85·0	32·0	NW	1·04		
23	29·493	29·448	58·42	67·5	35·5	NW SW	3·12	0·03	
24	29·632	29·600	72·33	76·0	33·0	SE S	1·04	0·21	
25	29·872	29·849	63·35	91·0	30·0	NW	·52		
26	30·124	30·006	61·42	86·0	33·5	W NW SE	·26		
27	30·114	30·071	71·43	91·5	35·5	NW W	1·04		
28	30·203	30·110	70·40	94·5	40·0	NW	·52		
29	29·956	29·669	69·42	95·0	40·0	NW	6·25	0·08	
30	29·435	29·330	62·50	68·0	40·0	NW	·52	0·08	
31	29·506	29·441	59·42	61·5	37·5	NW SE	0·		
Mean monthly			52·37	81·69	34·30	Total Force....	70·05	1·69	
			29·782						

The mean in all cases is taken from the sums of the three daily registers, and not from the maximum and minimum.  
 The direction of the wind is registered from currents moving at a height of 192 feet and the force according to Lind's Wind Gauge. The supposition, however, of a uniform velocity during the month is a very arbitrary one, and the results can be considered only approximately correct.  
 The relations of the quantities of rain which fell under the different winds are registered each evening at sundown.  
 The 30 years' standard tables are used for obtaining the difference from the average.

Leafing, Flowering, and Fruiting of a few Standard Plants in the Royal Society's Gardens during the Month.

- 12th.—Sambucus niger commencing to break.
- 16th.—Horse Chestnut ditto.
- 17th.—Gooseberry ditto.
- 28th.—Elm commencing to flower.
- 29th.—Lombardy Poplar commencing to break.
- 30th.—Royal Apricot commencing to flower

Barometer mean, 29.782in., being 0.035in. below the average.  
 Temperature, mean, 52.37° being 3.90° above the ditto.  
 Solar intensity, mean, 81.69°, being 1.13° below the ditto  
 Dew point mean, 39.9°, being 00.90° below the ditto.  
 Humidity of air mean, .69, being .10 per cent. below the ditto.  
 Elastic force of vapour mean, .270, being .001 per cent. above the ditto.  
 Total amount of rain, 1.69in., being 0.03in. below the ditto.  
 Increase of spontaneous evaporation on rainfall 1.07in.  
 Mean amount of ozone 3.75, being 3.81 of chromatic scale below ditto.  
 Electricity active through the month, positive 30, negative 27, and nil 5, on the 5th,  
 18th, and 24th. A fall of snow on Mount Wellington on the 1st—a fresh deposit on the  
 21st—an aurora on the eve of the 28th.

FRANCIS ABBOTT.

Results of Observations made at New Norfolk during the month :

Barometer mean of three daily readings, corrected and reduced, 29.771in.  
 Thermometer mean of ditto, 47.75.  
 Dew point mean position of 3 ditto, 38.50.  
 Elastic force of vapor, mean of 3 ditto .233in.  
 Humidity mean of 3 ditto, .73.  
 Solar intensity, mean of maximum temperature, 105°.  
 Terrestrial radiation, mean of minimum temperature, 32.12.  
 Rainfall, 1.93 inches.  
 Evaporation, 2.73in. in excess of rainfall, .80in.  
 Ozone, mean of two daily observations, 7.46.  
 Clouds, mean of 3 daily observations, 5.87.  
 Wind, total force, 70.80lbs. per square foot.  
 Wind, horizontal movement, 2454 miles.  
 Electricity active on 8th, 10th, 12th, 14th, 23rd, 25th, and 26th.

W. E. SHOEBRIDGE, Valleyfield.