

METEOROLOGY FOR FEBRUARY 1877.
PRIVATE OBSERVATORY, HOBART TOWN.
 Latitude 42° 25' 13" S.; Longitude 9h. 49m. 29.2s. E.
 (Registered for the Royal Society of Tasmania.)

Day of Month.	Bar. corrected for instrumental error and to mean sea level.		Thermometers (Reading.)		Thermometer (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.	7 30 a.m.	7 30 a.m.	7 30 a.m.
1	29.680	29.651	12.0	54.0	65.0	98.0	76.0	41.0	70	51	K	6.0	K	8.5	W	.26	W	.52	.15		5.0
2	29.934	30.165	10.0	50.0	60.0	78.5	68.0	39.0	74	62	K	4.0	KN	7.0	SW	.52	S	.52		.01	6.5
3	30.320	30.326	11.0	52.0	60.5	78.0	66.0	40.0	69	76	K	10.0	K	7.5	W	.0	S	.26			4.0
4	30.289	30.202	13.0	56.0	62.5	94.5	68.0	42.5	75	67	K	8.5	K	4.0	S	.26	SE	.52			3.5
5	30.239	30.202	12.0	54.0	63.0	95.0	72.0	41.0	81	60	KN	10.0	K	0	S	.0	E	.52			4.0
6	30.233	30.144	12.0	54.0	63.0	98.0	76.5	41.5	82	73	K	10.0	K	7.5	S	.52	SE	.52			4.5
7	30.214	30.147	16.0	61.0	68.0	97.5	75.0	45.0	71	83	0	0	0	N	.26	E	.52				3.0
8	30.068	29.917	15.0	59.0	80.0	110.5	80.0	42.0	82	50	K	10.0	K	8.0	N	.52	N	.26			4.0
9	29.857	29.878	17.0	63.0	82.0	112.0	82.0	45.0	63	41	K	10.0	K	6.0	SE	.0	S	.0		1.71	4.5
10	29.979	29.978	15.5	60.0	76.0	114.5	83.0	42.0	82	53	KN	10.0	KS	10.0	NW	.0	W	.0	.02		6.0
11	29.919	29.820	19.0	67.0	79.0	90.0	85.0	45.5	78	53	KN	10.0	KS	10.0	SE	.52	SE	.26			6.0
12	29.902	29.963	16.0	62.0	59.5	85.0	83.0	43.0	94	71	N	10.0	K	3.0	W	.0	SE	.52		.01	3.5
13	29.974	29.824	13.5	57.0	72.0	105.0	77.0	42.5	76	57	K	0	0	5.0	W	.0	SE	.52			5.0
14	29.939	29.939	11.5	53.0	70.0	105.0	81.5	40.0	70	60	0	0	0	0	0	0	0	.52			5.0
15	29.816	29.507	17.0	63.0	85.0	116.5	90.0	46.5	67	45	K	6.0	KS	7.5	NW	.26	N	2.26			3.5
16	29.702	29.514	17.5	63.5	81.0	120.0	89.0	46.0	63	37	K	10.0	K	9.0	NW	.0	W	2.60		.04	4.0
17	29.878	29.791	11.5	53.0	70.0	112.5	82.0	40.0	70	47	K	9.0	K	6.5	NW	2.60	W	2.60			4.0
18	29.572	29.585	17.0	63.0	73.0	107.0	77.0	45.5	63	45	K	5.0	K	5.5	W	5.21	W	2.60	.03	2.07	5.0
19	29.356	29.612	18.0	65.0	68.0	95.5	75.5	47.0	64	52	KN	10.0	KN	10.0	N	.26	W	.52			4.0
20	29.876	29.824	12.5	54.5	67.0	96.0	70.0	40.0	60	59	K	6.0	K	2.5	W	.0	SE	.52		.02	5.0
21	29.956	30.036	12.5	54.5	64.0	98.5	72.0	40.0	65	54	KN	6.0	K	4.0	SW	.0	NW	.52			4.5
22	29.732	29.543	10.0	50.0	69.0	96.5	73.0	38.5	80	44	KS	9.0	K	5.0	W	2.60	W	2.60	.01		4.0
23	29.597	29.735	9.0	48.0	50.0	90.0	71.0	37.0	67	86	K	4.0	KN	5.0	W	.0	W	.52			5.5
24	29.918	29.890	10.0	50.0	52.0	88.5	63.5	40.0	68	62	KN	8.0	KN	8.0	NW	.0	NW	5.21	.52	.01	5.0
25	29.868	29.836	14.0	50.0	74.0	105.0	75.0	42.5	66	48	K	2.0	0	N	N	.26	SE	.26			3.5
26	29.788	29.711	15.0	59.5	68.0	103.5	82.0	44.0	66	64	0	0	0	0	0	0	0	.27			4.0
27	29.919	29.957	12.5	55.0	62.0	91.0	72.5	40.0	93	77	N	10.0	KN	10.0	SE	.0	SE	.0			4.0
28	29.771	29.634	14.0	58.0	61.0	70.5	63.0	41.5	87	88	N	10.0	N	10.0	N	.0	N	.26	.01	0.65	5.5

Mean Press.	Mean M'n. Tem.	Mean.	Mean.	Mean.	Mean.	Mean for Month.	Mean Force ...	83 lbs.	Tl.	Tl.	Tl.
29.889	13.71	62.70	98.30	76.03	42.11	6.79	5.21	"	.83	4.43	125.50
Greatest do.	Max.	...	Max.	Max.	Max.	...	Least Force...	0	"	..	Mean
30.328	19.00		120.00	99.00	47.00	...	Prevailing Direction.			..	4.50
Least do.	Min.	...	Min.	Min.	Min.	...	W. and S.E.		
29.356	9.00		70.50	63.00	37.00

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 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 February, 1877.

- 5th. Kerry Pippin Apple commencing to ripen.
- 7th. Windsor Pear ditto.
- 9th. Bon Chretien Pear ditto.
- 12th. Greengage ditto.
- 16th. Poplar leaves turning yellow.

24th. Common Ash commencing to shed seed.
 27th. Common Sycamore ditto ditto.
 F. ABBOTT, JUN., Superintendent.

Results of observations taken at New Norfolk for February, 1877, 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, 30.111in.
 - Thermometer, mean of 2 ditto, 62.55deg.
 - Ditto, mean of maximum and minimum in shade, 63.10deg.; highest, 91deg. on 10th; lowest, 40deg. on 22nd.
 - Dew point, mean of 2 daily readings, 51.30deg.
 - Elastic force of vapour, mean of 2 ditto, .378.
 - Humidity, mean of 2 ditto, .67.
 - Solar intensity, mean of maximum temperature, 128.03deg.; highest, 143deg. on 15th.
 - Terrestrial radiation, mean of minimum temperature, 43.75deg.; lowest, 31deg. on 22nd.
 - Rainfall, 1.71in.
 - Evaporation, 6.71in. : in excess of rainfall, 5.00in.
 - Clouds, mean amount of 2 daily registers, 5.75.
 - Ozone, mean of 2 daily observations, 7.26.
 - Wind, force in lbs. per square foot, total of 2 daily observations, 63.55lbs.
 - Horizontal movement, 3,855 miles.
 - Electricity, 56 observations, 24 negative, 15 positive, 17 nil.
- W. E. SHOBRIDGE, Valleyfield.