METEOROLOGY FOR JANUARY, 1878.

PRIVATE OBSERVATORY, HOBART TOWN.

Latitude 42° 52′ 13″ S.; Longitude 9h, 49m. 29.2s, E. (Registered for the Royal Society of Tasmania.)

(Acquired to the Acquired of Tashania,)																					
	Bar. corrected for temperature	error, and to mean sea level.	Thermometers (Reading.)			Thermometers (Self-Registering.)			Lead Relative		7 50 a.m. 4 30 p.m.			Wind. 7:30 a.m. 4:30 p.m.				Rain in Inches	Spon. Evap.	Ozone. Chrom. Scale.	
Day of Month.	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.
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_												Prevailing Direction. NW, SE. S									

The Meteorological form brought into use at the beginning a list 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 norming 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 January, 1878. 10th.—Veronica angustifolia in full flower.

12th.—First Royal Apricot ripe.

16th.—Grevillea Robusta in full flower. 20th.—Jargonelle Pear ripe.

25th. —Black Mulberry commencing to ripen. F. ABBOTT, Jun., Superintendent.

Results of observations taken at New Norfolk, in accordance with new forms, at 7:30 a.m. and 4:30 p.m.:—
Barometer, mean of two daily readings, corrected and reduced, 30 102in.

Thermometer, mean of 2 ditto, 64.72deg. Ditto mean of maximum and minimum in shade, 63.96deg. Dew point, mean position of 2 ditto, 50 20 deg. Elastic force of vapour mean, of 2 ditto 364. Humidity of air mean of 2 ditto, 60.

Solar intensity, mean of maximum temperature, 137 67deg. Terrestrial radiation, mean of minimum temperature, 41.35deg

Rainfall, '2iin.

Rainfalt, 2111. Evaporation, 9 49in., in excess of rainfall, 9 28. Clouds, mean amount of 2 ditto, 5 01. (Scale, 0—10.) Ozone, mean ditto, 2 ditto, 7 21. Scale, 0—10.) W. E. SHOOBRIDGE, Bushy Park.

JANUARY WEATHER, 1878, AT NEW NORFOLK, TASMANIA.

The year commenced with thick easterly weather and soft rain, '11 inch, falling on the morning of the 1st, but the prospect of moist weather was soon dispelled, and before the first week was over it had set in dry and hot, the humidity of the air on 6th being down to '30 per cent, with a mild hot wind and high barometer; and there were extensive bush fires on the hills around that continued burning during the whole month. On the 9th the temperature in shade was 95°, and the humidity at 4°30 p.m. was again down to '30 per cent

On the 13th, cool S.W. set in, and on 15th there were slight stormy showers that cooled the air, and cleared the smoke away, although only 0.2 inch of rain fell. Owing to the dry clearness of the air and S.W. wind, it was quite cold for a day or two, till, on morning of 17th, there was a white frost, the self-registering thermometers showing 25 on the grass,

and 35° in the shade.

and 35 in the snade.
On 19th it was again stormy, cold, and threatening, and although only '08 inch of rain fell here, yet there must have been more on the hills to the W., as the River Styx rose over 2ft. on night of 20th. Sea breezes set in again on 21st, and brought up on 22nd thick clouds and cool weather, but no rain, only hot smoky haze from the bush fires. A clear W. wind set it at 3 p.m. on the 23rd, and next morning there was a slight frost, the thermometer on grass being down to 31.
Sea breezes and hot smoky haze prevailed till 26th, when, Sea breezes and hot smoky haze prevailed till 26th, when, after a threatened thunderstorm that did not come here, the wind changed on 27th to W. and S.W., but it only seemed to give the fires a fresh start, and there was hot hazy weather till 30th, when N.W. clouds threatened rain, but it still kept hot and dry, till 31st closed the hottest and driest month registered here for the last five years, there being only '21 inch of rain for the month to 1'01 inches in January, 1877; 1'66 inches in 1876; 1'57 inches in 1875; and 1'25 inches in 1874. The separtnesses graphers are 1874. 1760 inches in 1876; 1757 inches in 1875; 3nd 1725 inches in 1874. The spontaneous evaporation was 9.49 inches, and the mean humidity of air 60 per cent. The mean of max. and min. in shade was 63.96 to 60.04 last January, and solar intensity 137.67 to 129.83.

W. E. SHOOBRIDGE, Bushy Park.

4th February, 1878.