## METEOROLOGY FOR FEBRUARY, 1870.

## PRIVATE OBSERVATORY, HOBART TOWN.

aby	Bar. 37 feet abv. sealevel corrected & reduced.			Regist Therm neters.		Wind.			from the maximum
Day of Month.	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.	registers, and not from the
1 30-2 20-3 29-3 4 30-5 30-6 29-7 30-8 30-10 30-11 29-14 30-15 29-16 29-19 20-29 20-	Tn. 121 29 93(8) 849 29 807 830 29 75; 239 30 211 197 29 906 941 29 866; 178 30 15; 142 30 05; 706 29 92; 706 29 92; 706 29 95; 706 29 95; 707 29 96; 821 29 80; 902 29 76; 902 29 76; 902 29 76; 902 29 76; 902 29 76; 902 29 76; 902 29 76; 902 29 76; 902 29 76; 902 29 76; 902 29 76; 902 29 76; 902 29 76; 902 29 77; 92 42; 903 20 30 30 30 30 30 30 30 30 30 30 30 30 30	777 273 683 824 774 770 770 770 770 770 770 77	47 54 55 54 54	121-0 118-0 112-0 118-0 110-0 110-0 110-0 110-0 120-0 108-5 110-0 120-0 113-0 113-0 113-0 113-0 113-0 113-0 108-5 114-0 113-0 108-5 110-0 108-5 108-0	54 5 55 0 55 0 6 43 5 5 5 0 6 43 5 5 5 0 6 5 5 5 0 6 5 5 5 0 6 5 5 5 5 0 6 5 5 5 5	NW SW SE NW SE SW SE SW SE NW NE SE SE NW SE NW SE	78 625 104 104 104 136 168 178 178 178 178 178 178 178 178 178 17	0·03 0·03 0·03 0·04	The mean in all cases is taken from the sums of the three daily reg
Monthly mean 63 45 107 36 45 46 Total Force 60 8						60.88	0.35	Ē	

The direction of the wind is registered from currents moving at a height of 192 feet, and the force accord ing to Lind's Wind Guage. The supposition, however, of an uniform velocity during the month is 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 sundown. The 25 years' standard tables are used for obtaining the difference from the average and minimum.

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

1st—Kerry pippin apple commencing to ripen. 2nd—Windsor pear ditto ditto.

4th-Bon chretien pear ditto ditto.

6th-Greengage plum ditto ditto.

15th-Common ash commencing to shed seed.

18th-Common Sycamore ditto ditto.

Barometer mean, 29 928 in., being 0 097 in. above the average.

Temperature mean, 63 45°, being 1 57° above the ditto.

Solar intensity mean, 107 36°, being 0 51° below the ditto.

Dew point mean, 48°, being 2 35° below the ditto.

Humidity of air mean, 62, being '08 per cent. below the ditto.

Elastic force of vapour mean, 355, being '019 per cent. below the ditto.

Total amount of rain, 0 35in., being 1 34in. above the ditto.

Increase of spontaneous evaporation on rain fall, 4 37in.

Mean amount of 200e, 6 '37, being 0 64 of chromatic scale below ditto.

Electricity active on the 4th, 8th, 11th, 12th, 13th, 14th, 16th, 17th, 18th, 20th, 21st, 374, 25th, and 28th.

23rd, 25th, and 28th.

Strong Aurora Australis with frequent erratic meteors on the 1st. Wind strong from FRANCIS ABBOTT. N.W. and S.E. during the month.

REMARKS ON OBSERVATORY RECORDS, WITH HEALTH REPORT FOR JANUARY AND FEBRUARY, 1870, AND A COMPARISON OF THE VITAL STATISTICS OF 1869, WITH THOSE OF PREVIOUS YEARS. BY DR. E. SWARBRECK HALL.

The only striking variations from the usual January weather to be seen in the table are-First, the deficiency of ozone, the amount being much below the January average, and less than for any of the previous twelve years recorded; second: Windforce was much above the average with a great predominance from that point of the compass, N.W., most adverse to health; third: though the temperature mean was not in excess, the extreme range in the month was greatly so; fourth: Rainfall was most advantageously above the average, only one January in the twenty-nine years recorded having a greater fall, i.e., 1849, with the small superiority of four-hundreths of an inch. On the other hand humidity mean was considerably below the average. The electrical condition of the atmosphere recorded shows nothing inimical to health, the positive indications as well as the tension, being an usually fair proportion of the whole. The Hobarton district deaths this month, so far recorded, 64, are 15 above the average of the previous 13 years, 23 more than 1869 had, and considerably higher than any year since 1860, when 72 deaths occurred. 1858, the highest of the 13, having had the maximum 74, and 1864 occurred. 1858, the highest of the 13, having had the maximum 74, and 1864 the minimum 24. This excessive mortality was not owing to the prevalence of any epidemic disease, and it fell heaviest on adults and very aged persons. Of the 64 deaths, 19 only were under one year old, while 1860 had 28, and 1858 had 32. From 1 to 5 years old the present January had only 3 deaths, while 1860 had 7, but 1858 had 10. From 5 to 20 years old the deaths were 3, while 1860 had 7, but 1858 3 only also. From 20 and all ages above the deaths were 33, while 1860 had only 30, and 1858 only 29. Above 60 years old January, 1870, had 17 deaths, 1860 only 9, 1858 only 8. December, 1869, however, had 6 deaths less than the December average, while December 1859. however, had 6 deaths less than the December average, while December, 1859, had 17 more than the average, and December, 1857, 3 more.

The Hobarton Registration District had the smallest number of deaths, for the whole year of 1869, than any of the previous twelve, the number being only 472, while the average of the previous 12 is 568, and the least in the number, 492 in 1865. This is without reference to the increase annually of the population by excess of births over deaths. For the whole of Tasmania, too, the registered deaths, 1335, were the fewest in proportion to population, belng 129 less than 1868 had, and 107 less than the average of the previous twelve years. 1869 was entirely free from epidemic diseases. Estimating the population of all Tasmania at 100,000, the death rate would be about 13½ per 1000 per annum. The death rate of England and Wales is about 22 per 1000, and the Registrar-General of England considers 17 per 1000 a nominal death rate. So favourable a condition of health cannot be expected to continue long in Tasmania, seeing how wide-spread is the neglect of vaccination and other hygienic measures, which most civilised communities elsewhere are so energetically enforcing. The homely adage, "a stitch in time may save nine," is particularly applicable to Tasmania. for the whole year of 1869, than any of the previous twelve, the number

plicable to Tasmania.

The deaths in February, registered up to the 6th March inclusive, were 48, being 6 6-13ths below the February average of the previous thirteen years.