## METEOROLOGY FOR MAY, 1870.

## PRIVATE OBSERVATORY, HOBART TOWN.

	Bar. 37 feet abv. sea level corrected & reduced.				Regist	ering ters.	Wind.			the maxi d the force during the ect.
Day of Month.	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.	ters, and not from ght of 192 feet an uniform velocity approximately corr inds are registered m the average.
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	29.855 29.792 29.810 30.015 30.107 30.161 30.266 30.255 30.053 29.651 29.559 29.655 30.070	30·029 29·779 29·715 29·948 30·089 30·150 30·230 30·180 29·890 29·548 29·543 30·311 30·311 30·261 30·261 30·263 30·263 30·263 30·264 30·264 30·310 30	62 63 60 58 58 67 62 64 71 68 67 53 59 64 60 54 57 57 64 67 66 63 63 67 65	45 40 45 37 40 41 42 46 46 43 43 44 45 44 45 44 44 45 44 47 44 42 43 44 44 44 45 46 46 47 48 48 48 48 48 48 48 48 48 48 48 48 48	85.5 96.0 96.0 81.0 81.0 88.5 98.0 92.5 93.0 92.5 93.0 94.0 94.5 53.5 86.0 62.5 54.0 89.0 89.0 89.0 89.0 89.0 89.0 89.0 89	34:55 33:00 34:00 34:00 34:00 34:00 34:55 43:00 44:00 33:00 40:53 36:00 37:05 38:00 38:05 48:00	NW E NW NW SW SW NW NW	522 *78 *522 *78 *522 *78 *522 *78 *104 *1300 *104 *126 *1300 *130	0·05 0·03 0·03 0·03 0·02 0·02	The mean in all cases is taken from the sums of the three daily registers, and not from the maximum and unhimum.  The direction of the wind is registered from currents moving at a height of 192 feet and the force according to Lind's Wind Guage. The supposition, however, of an 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 even fing at sundown.  The 25 years's standard tables are used for obtaining the difference from the account.
Monthly mean 51.63 83.95 88.74 Total Force 27.05 0.59 H H H H H H H H H H H H H H H H H H H										

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

10th-First Medlar ripe.

21st—Coronilla Glauca commencing to flower. 25th—Photinia serrulata ditto ditto.

28th-Diosma alba ditto ditto

30th—Spirœa prunifolia ditto ditto; Alianthus sericeus ditto ditto.

Barometer mean, 30 054 in., being 00 207 in. above the average. Temperature mean, 51 63°, being 1 35° above the ditto. Solar intensity mean, 83 95°, being 2 08° above the ditto. Dew point mean, 42 08°, being 1 76° below the ditto. Humidity of air mean, 74, being '02 per cent. below the ditto. Elastic force of vapour mean, 291, being '011 per cent. below the ditto. Total amount of rain, 0 59in., being 1 22in. below the ditto. Total amount of rain, 0 59in., being 1 22in. below the ditto.

Increase of spontaneous evaporation on rain fall, 1º22in. below the ditto.

Increase of spontaneous evaporation on rain fall, 1º22in.

Mean amount of ozone, 6º08, being 0º72 of chromatic scale below the ditto.

Electricity active on the 8th, 9th, 10th, 17th, 27th, 28th, and 29th.

A light fall of snow on Mount Wellington on the 8th, the apex covered with ditto on 17th, which was not totally absent till the end of the month.

FRANCIS ABBOTT

ANALYSIS OF OBSERVATORY RECORDS, AND HEALTH REPORT FOR MAY, WITH NOTE ON CENSUS OF 1870. BY DR. E. SWARBRECK HALL.

Most of the meteorological phenomena of this month deviate from the 25 years adopted standard, and though diseases of the respiratory organs prevailed extensively, the effect on the mortuary returns was but slight, the total mortality of the month being somewhat below the average of the previous 13 years, and no May of the previous six years having so small a number of deaths as the present month.

Atmospheric pressure mean, 30.054, was considerably (+ 207) above the average, and had a wide range, with some very sudden and extensive rises and falls, within 24 hours, which told heavily on aged and enfeebled persons.

Wind-force 27:05 lbs., was - 10:80 lbs. below the May average, and northwest winds constituted nearly two-thirds of the numerical records, and more than two-thirds of the total strength.

Temperature mean. 51.63 degrees, was + 1.35 above the average, the ex-

tremes being 71 and 36.

Daily range of Temperature 18:45 degrees, was + 3:29 above the average. Solar-intensity mean, 83.95 degrees, was + 2.08 above the average, the maximum being 99 degrees.

Terrestrial-radiation mean, 38.74 degrees, was 0.57 below the average, the

minimum being 33 degrees.

Elastic force of Vapour mean, 291, was — 11 below the average.

Humidity mean, 74, was only -2 below the average, though the rainfall was so small.

Rainfall, '59 of an inch, was - 1.22 below the average, or about two-thirds less than the May mean, and the number of days on which it fell, was little more than one-half the usual rate.

Spontaneous-evaporation, 1.81 inches, was only equal to the usual rainfall for

May, which of course resulted from the slight wind-force.

Cloud mean, 5.99, was + 49 above the average. Ozone mean, 6:08, was '72 below the average, the natural result of the small rainfall and small force of the winds, and their predominance from the northwest quarter.

Electricity was noted "nil" only at three records. Negative greatly pre-

ponderated in frequency and strength.

Snow appeared on Mount Wellington several times during the month, but

soon disappeared.

The Deaths amounted to 37, being - 3 7-13ths below the average of the previous 13 Mays. At and under one year old the deaths were six. From one to five there were three deaths. One of these, a child aged 4½ years, died from traumatic tetanus, resulting from a wound in the hand. From five to twenty there were only two deaths. From twenty to sixty the deaths were ten. At sixty and above, to ninety, there were sixteen deaths, a very large proportion indeed of the total mortality. No one disease influenced the mortality unduly, the cases being principally of a long standing chronic character.

The Population of the Hobarton Registration District, which includes, with the city, the Electoral Districts of Queenborough and Glenorchy, has undergone little numerical alteration on the totals between the census of 1861 and 1870. In the former the total was 24,773, in the latter 25,004. But in the constituent elements of age there has been a striking change. In 1861 all under 20 years of age amounted to 10,960; in 1870 the amount is 13,025. From 20 to 60 in 1861 there were 12,592 in the present year only 10,154. At 60 and all ages above there were in 1861 only 1221; in 1870 there were 1825. From 15 to 30, too, there has been a large increase of females, and a large decrease of males.