METEOROLOGY.

MARCH, 1871.

PRIVATE OBSERVATORY, HOBART TOWN.

	abv.se	37 feet a level eted & ced.	Self-Registering Thermometers.				Wind.			e maximum
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 1bs. per square foot.	Rain in inches.	ers, and not from th
5 6 77 8 9 100 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30	29-665 30-001 30-252 30-264 30-225 29-897 30-010 30-024 29-815 30-134 29-684 30-167 30-339 30-167 30-339 30-167 30-339 30-168 29-987 30-042 30-288 30-291 30-083 29-679	\$0.186 30.241 30.052 29.752 29.752 29.752 29.890 30.229 29.897 29.606 30.319 30.238 30.013 30.013 30.126 29.984 30.102 30.126 29.985 30.126 29.985 30.126 29.985 30.126 29.985 30.126 29.985 29.985 30.126 29.985 30.126 29.985 29.985 29.985 30.126 29.985 29	68 64 63 66 74 72 72 74 69 59 73 76 75 68 62 58 61 72 73 74 64 64 65 65 68 66 66 74 75 75 75 75 75 75 75 75 75 75 75 75 75	42 5553 554 48 48 556 552 552 552 5552 5552 5552 5552 55	99:0 99:0 102:5 101:0 98:0 110:0 109:0 110:5 109:0 109:0 109:0 108:5 107:0 96:0 96:0 96:0 96:0 96:0 109:0 111:5 109:0 109:0 111:0 109:0 111:0 109:0 10 109:0 109:0 109:0 109:0 109:0 109:0 109:0 109:0 109:0 109:0	44:55 50:50:50:50:50:00 50:00 50:00 45:55 46:00 45:50 46:00 50:00 48:55 48:55 48:55 50:00 48:55 50:00 48:55 50:00 48:55 50:00 48:55 50:00 48:55 50:00 48:55 50:00 48:55 50:00 48:55 50:00 48:55 50:00 48:55	NW NW SENW NW SE NW E NE NE E NE SW NW SE SW NW SE NW SW SE NW SW SW SE NW SE	1:30 1:04 3:12 78 5:52 78 5:52 1:04 10:41 1:00 78 1:30 78 26 78 1:30 0 1:04 1:60 5:22 1:04 1:04 1:04 1:04 1:04 1:04 1:04 1:04	0·03 0·09 0·28 0·40 0·22 0·16	The mean in all cases is taken from the sums of the three daily registers, and not from the maximum
Monthly mean 60 00 101 90 46 53 Total Force 46 30 1 33 2										

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 and minimum.

The 25 years' standard tables are used for obtaining the difference from the average

evening at sundown. Leafing, Flowering, and Fruiting of a few standard plants in the Royal Society's Gardens during the month.

14th.—Tips of hornbean commencing to turn yellow.

16th.—Coe's golden drop plum ripe. 18th.—Tips of elm turning yellow.

20th —Seckle pear commencing to ripen.

24th.-Leaves of horse chestnut turning brown. 25th -Ash leaves commencing to fall.

26th.-Oak ditto.

Barometer mean, 29 973 in., being 0 123 in. above the average.
Temperature mean, 60 00°, being 0 24° above the ditto.
Solar intensity mean, 101 90°, being 1 39 below the ditto.
Dew point mean, 46°8, being 2 242 below the ditto.
Humidity of air mean, 66, being '05 per cent. below the ditto.
Elastic force of vapour mean, '337, being '019 per cent. below the ditto.

Total amount of rain, 1.33in., being 0.34in. below the ditto. Increase of spontaneous evaporation on rain-fall, 2 00in. Mean amount of ozone, 6:11, being 0:90 of chromatic scale below the ditto. Electricity active on the 1st, 3rd, 4th, 10th, 22nd, 27th, and 28th. Strong southern lights on the 23rd. Aurora Australis on the 24th. FRANCIS ABBOTT.

NOTES ON THE METEOROLOGY AND MORTALITY OF THE MONTH OF MARCH, 1871.

By E. SWARBRECK HALL.

High atmospheric pressure, great daily variations of temperature, cloudy weather with deficiency of sunshine, small rain-fall, and paucity of ozone, have characterised the present month, and told heavily on old and feeble people, more than two-fifths of the mortality having fallen on persons at and above sixty years old.

Atmospheric pressure mean, 29.978, was + 123 above the 25 years' average. The maximum, 30 339, was on the 16th; the minimum, 29 554, on the 1st. The extreme range of the month, therefore, was small, only 785. But the daily fluctuations were very great, 18 days having more than one-fifth

of an inch, and one of them, the 15th, a rise of + 521 in the 24 hours.

Wind-force total, 46 30 lbs., was -6.79 lbs. below the average.

North West winds were more numerous than from any other points of the compass, but were below the average in strength. North, North East, and East were both few in number and trilling in force. South East, our most propitious wind, was largely over the average both in number and force. South was below the average in both aspects. South West winds were about three times more than the average in number, and double in force. West was only recorded once, but with the strength of 5.21 lbs. pressure to the square foot. Only one other wind of the same force was recorded, and that a South West

one. Calms were 25, being — 3·22 less than the average.

Temperature mean, 60·00 degrees, only varied from the 25 years' average by + 00·24. The highest record was 88 degrees on the 28th, nine years out of the 25 having a higher maximum. The lowest temperature, 40, was on the 23rd, only five years in the 25 having lower minima. The wet bulb

mean was 53 56, being 00.39 below the average.

Daily-range of temperature exceeded the average by +1.44, being 20.84 degrees. The greatest range in 24 hours, 40 degrees, occurred on both the 27th and 28th. These fluctuations of temperature, combined with high atmospheric pressure, are very trying to diseased, feeble, and aged persons, though young and healthy people are little affected by them.

Solar-intensity mean, 101 90, was —1 39 less than the average. The maximum was 120 degrees on the 28th, which has often been exceeded.

Terrestrial-radiation mean, 46.53 degrees, was -1.62 below the average.

The minimum record was, for the night of the 23rd, the temperature being, 37.5 degrees. Only thrice before in 15 years have there been lower minima in March.

Elastic-force of vapour 337 was-19 below the average; ranging from 126 at noon on the 28th, to 522 at noon on the 14th.

Humidity mean, 66, was -5 below the average.

Rain-fall, 1.33 inches, was -34 below the average. It fell on eight days, heing —1 '09 less than the average. It was sufficient to flush water courses and drains on the 11th, 13th, 19th, 20th. During the four months past, December, January, February, March, the rain-fall has only amounted to 4'48 inches, being —1 '97 inches less than the 25 years' standard mean. Snow years was rigible from the distance March Welliams & January to the course of the state of the stat never was visible from the city, on Mount Wellington, during the month.

Spontaneous-evaporation was 3:33 inches.

Cloud mean, 6 06, was + 64 above the average.
Ozone mean, 6 11, was—'90 below the average, and the smallest on record

for the month of March.

Electricity. 14 positive with tension from 3.5 to 6 were recorded; negative 46 with tension from 2 to 6, and 2 "nils." The Aurora Australis was

seen on the nights of the 23rd and 24th. There was thunder with rain on the 29th.

The deaths during the month were 51, being—3 4.14ths less than the average of the preceding 14 years, though +4 more than March 1870 and +9 more than 1869 had. In 1861 the deaths were the same in number, but in every other year of the fourteen more; the range being from 42 in 1869 to 73 in 1864. Thirty (30) were males, 21 females. Under one year old there were 11 deaths; from 1 to 5 the deaths were 4; none between 5 and 10; one (1) from 10 to 15; one (1) from 15 to 20; from 20 to 60 there were 13; and from 60 to all ages above 21, the oldest being 92, an old Waterloo soldier who died at the Brickfields Invalid Asylum. The deaths in the General Hospital were 13, seven (7) of which were from other Registration Districts, and one a foreign sailor. At the Cascades Invalid Asylum there were 5 deaths, at the Brickfields 2. There were 3 inquests. One died one hour after admission into hospital from a tumour of the liver; another died there from compound fracture of both bones of the leg, which occurred at Brighton. The leg was amputated; the third died before he reached the hospital from inflammation of the bowels, having been brought down the long and torturing journey from the Lakes. It is high time that cottage hospitals should be established by the settlers in their respective districts to avert such sufferings as this poor man must have endured. Zymotic diseases caused 13 deaths mostly from bowel complaints, but no epidemic disease prevailed. Consumption caused 4 deaths, none of the deceased having been natives of Tasmania.