### Private Observatory, Hobart Town.

<table>
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<th>Day of Month</th>
<th>Bar. 37 feet abv. sea level corrected &amp; reduced.</th>
<th>Self-Registering Thermometers</th>
<th>Wind.</th>
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Mean monthly 30.41 80 28 37 67 Total Force 25.48 0.55

**Lenfing, Flowering, and Fruitting of a few Standard Plants in the Royal Society’s Gardens during the month of April, 1871.**

16th.—Maclura aurantiana leaves all shed.

17th.—Common privet ditto.

28th.—Black mulberry ditto.

Note.—The early narcissus, snow-flake, and pyrus japonica, which were in flower last year, on the 15th, 20th, and 24th respectively, have not yet flowered this year, being retarded, probably, by the unusually dry state of the ground.

Barometer mean, 29 925 in., being 0.04 in. above the average.

Temperature mean, 50°41, being 3°66 above the ditto.

Solar intensity mean, 80°28', being 5°31' above the ditto.

Dew point mean, 41°8', being 0°56' above the ditto.

Humidity of air mean, 77, being 7 per cent. below the ditto.

Elastic force of vapour mean, 270, being 0°10 per cent. above the ditto.

Total amount of rain, 0°55 in., being 1°25 in. below the ditto.

Increase of spontaneous evaporation on rainfall, 0°86 in.

Mean amount of ozone, 0°13, being 3°37 of chromatic scales below ditto.

Electricity feele all through the month.

The apex of Mount Wellington covered with snow on the 10th and 28th.

Strong Aurora Australis on 11th.

FRANCIS ABBOTT.
NOTES ON THE METEOROLOGY AND MORTALITY OF
THE MONTH OF JUNE, 1871.

By Dr. E. Swarbreck Hall.

This month has been more than usually fatal to persons above 15 years old,
and the mortality very small indeed to all under that age. The weather was
altogether abnormal, though very pleasant. This is the first month in 1871
in which the death-rate has exceeded the average of the previous 14 years.

Atmospheric-pressure mean, 29.925 was + 41 above the 25 years' average.
The extremes were, maximum, 30.363, on the 6th; minimum, 29.311, on
the 27th, being an extreme range for the whole month of 1°02 inches. This
was considerably exceeded in June, 1870, though the average height of the
barometer was less. On ten days the range exceeded one-fifth of an inch, the
24th having a fall of more than half an inch, i.e.—580.

Wind-force total, 25.48 lbs., was only + 98 above the average, but north-
west winds, the least favorable to health, had 61 out of the 90 observations,
with 20-54 lbs. of the strength. All the winds from the other seven points of
the compass were much below their average both in frequency and force.
The strongest wind, a north-west on the 24th, had only a pressure of 2-60
lbs. to the square foot.

Temperature mean, 50.41 degrees, was + 3.66 above the 25 years' average,
and nearly two degrees warmer than June 1870 was. Only two Junes in the
previous 30 years had a higher mean, i.e.: 1861 being 50.92, and 1867 51.64.
The extremes were 71 on the 2nd about noon, and 33 in the night of the
8th. The maximum was twice exceeded in the previous 30 years, the
minimum was less in thirteen out of the 50 years. The wet-bulb thermometer
mean was 46.53 degrees, being + 2.08 above the 20 years' average.

The daily range of temperature was the most abnormal meteorological
phenomenon of this month, the mean being 19.83 degrees, which is + 4.79
above the 25 years' average. Only four out of the previous 30 years' Junes
had a higher mean. Last year's daily range mean was nearly six degrees
less. The greatest range in any twenty-four hours was 33 degrees on the 1st,
but on 14 other days the range exceeded 20 degrees between the extreme heat
of the day by the self-registering shade maximum thermometer, and the
self-registering minimum thermometer in the night. To these extreme vari-
atations of temperature was no doubt owing the excessive death-rate in feeble,
diseased, and aged persons, and the great prevalence of diseases of the re-
spiratory organs, catarrh, bronchitis, and pneumonia. No doubt, however,
the dry state of the air, and the great elastic force of vapour, tended also to
the same result. External warmth by fires and good bedding (not from
over crowding) is essential at such times to preserve life in aged, diseased,
and feeble people, together with warm nutriment in the long and trying
interval between the evening and morning meals. The Registrar-General of
England emphatically notices in his reports the greatly augmented death-rate
in old and ailing persons that accompanies a sudden and extensive fall of
temperature.

Solar Intensity mean, 80.28 degrees, was + 5.34 above the average, and
more than four degrees higher than in June 1870. Only June 1856 exceeded
the present month. The maximum was 98 degrees on the 15th, being the
highest in our records. This extreme warmth of sunshine is the more remark-
able, because the cloudy days were above the average.

Terrestrial-radiation mean, 37.67 degrees, was only + 1.04 above the average.
The minimum, 32 degrees (freezing point), was noted for the nights of the
2nd, 8th, 10th, 15th, 23rd, 26th. To be exposed, as many persons are,
to the extremes of the sun's heat by day, and this cold by night, a varia-
tion of 66 degrees, must be trying to the strongest constitutions, and lethal
to very weak ones.

Elastic force of vapour mean, 27.9, was + 10 above the average. It ranged
from minimum 175 on the morning of the 8th, to maximum 456 at noon
on the 29th.

Humidity mean, 77, was — 7 below the June average.

Rain fell on 14 days, which is + 2.36 above the average, but the quantity
was too trifling on any day but the 27th to make the channels run. The
total was only 35 of an inch, being — 1.28 inches below the average. The three Junes, 1852-3-4, were the only ones in the previous 30 years with less rain-fall than the present month. But every month now for the last seven months has had less than the average rain-fall; altogether for the first half of this year the deficit of rain amounts to 4.14 inches. Snow remained on Mount Wellington on the 1st of the month, and received a slight addition on the 11th, and a copious addition on the 28th.

Spontaneous Evaporation amounted to 1.11 inches.

Cloud mean, 6.10, was + .59 above the average.

Ozone mean, 6.13, was — .37 below the average. Saturation (10) was recorded twice.

Electricity was feeble, only 3 positive with tension from 3.5 to 5. Negative 50 tension 1 to 5. "Nil." 7.

The Deaths were 51, being + 5 2.14ths above the average of the previous 14 years. Only four out of the fourteen had a greater number of deaths, the highest being 1861 with 59. 36 were males, only 15 females. Under one year there were 4 deaths; from 1 to 5 there was only one death; from 5 to 10 no deaths; from 10 to 15 one death; from 15 to 20 there were 4. Ten deaths only under 20 years old out of 51 at all ages, is a very small proportion indeed. From 20 to 60 there were 20 deaths; and at 60 and all ages above, the oldest being 94, there were 21 deaths. The Zymotic class of diseases had only 3 deaths, two from Diarrhoea, one "English Cholera." There were 4 deaths from Pneumonia, being an unusually large number. Consumption caused 6 deaths, four of them Tasmanians by birth, one Englishman, and the 6th a native of New South Wales on a visit for change of climate. The deaths in Hospital, including inquest cases, were unusually large, 17. At the Brickfields Male Invalid Asylum, there were 2 deaths, aged 68 and 94; at the Cascades there were 4 deaths, three males, one female, respectively aged 58, 68, 70, 73. The Inquests were 5, four of them in connection with the gaol for males, one having died there, and three in Hospital shortly after being removed from the gaol.