METEOROLOGY.

JANUARY, 1874.

PRIVATE OBSERVATORY, HOBART TOWN.

	Teduced. Teduced.		Self			Wind.			maximum
Day of Month.	Highest.	Lowest.	Highest in Shade. Lowest in Shade.	Highest in Sun.	Lowest on Grass.	Direction from three daily registers.	Force in lbs. per square foot.	Rain in Inches.	rs, and not from the
2 3 4 5 6 7 8 9	30·133 30·017 29·952 29·915 29·857 29·956 29·965 29·971	30 029 29 961 29 940 29 885 29 776 29 924 29 806 29 941 29 931	70 54 75 59 69 56 63 55 72 50 77 56 77 56 75 48	115.5 113.0 95.0 109.0 96.0 112.0 116.0 110.5	40·0 40·5 37·0 35·5 33·5 36·0 36·5 37·0 36·5	SE NW SE SE SE SE SE NW SE NW SE NW SE	1.04 1.04 1.30 1.04 .78 1.04 1.04 3.64 3.64	0.43	the three daily register
11 12 13 14 15 16 17 18 19 20 21 22	30·167 30·015 29·894 30·131 29·958 29·865 29·559 29·647 30·046 29·948 29·891 29·726	30 089 29 855 29 824 30 090 29 889 29 761 29 367 29 585 29 918 29 695 29 752 29 669	77 49 80 54 78 61 76 54 79 52 78 60 71 59 69 47 76 59 85 52 80 59 73 51	110·5 104·0 115·0 110·0 114·5 115·0 78·0 110·0 116·5 119·0 114·0 103·5	40 0 43 5 42 5 40 0 39 5 42 0 40 0 38 5 40 0 38 5 42 0 39 5	NW SE NW SE NE SE SE SE SE SE NW NW SE NW SE SE NW NW SE	1:04 1:04 3:42 1:04 3:38 1:30 -52 3:72 1:56 1:04 3:64 8:33	0·62 0·07	is taken from the sums of
23 24 25 26 27 28 29 30	30.082 30.021 29.702 29.925 30.111 30.021 29.960 29.318	29.965 29.897 29.607 29.860 30.078 30.097 29.889 29.583	78 52 73 53 75 54 68 51 63 55 74 54 82 58 83 53	111.5 109.0 109.0 105.0 119.5 110.0 114.0 115.0 107.0	39·5 40·0 47·0 43·0 40·0 48·0 45·0 47·0 36·0	SE NW SE NW SE NW NW SE NW SE NW SE NE SE NW NW SW	1:30 1:30 1:30 3:72 1:04 -78 1:04 1:30 13:02	0.01	mean in
M		Relevel, core- Creded and reduced. Crede and							

The direction of the wind is registered from currents moving at a height of 192 feet and the force cording to Lind's Wind Gauge. The supposition, however, of a uniform velocity during the month s a very arbitrary one, and the results can be considered only approximately correct. according to Lind's Wind Gauge. and minimum.

under the different winds are registered each The relations of the quantities of rain which fell evening at sundown.

The 30 years' standard tables are used for obtaining the difference from the average

Barometer mean, 29 900in., being 0 156in. above the average. Temperature, mean, 66 77°, being 4 08° above the ditto. Solar intensity, mean, 109 60, being 1 58 above the ditto.

Solar intensity, mean, 109-60, being 1-58 above the ditto.

Dew point mean, 52-6°, being 2-19° above the ditto.

Humidity of air mean, '58-54, being '8-41 per cent. below the ditto.

Elastic force of vapour mean, '38-4, being '011 per cent. above the ditto.

Total amount of rain, 1-15in, being 0-42in, below the ditto.

Increase of spontaneous evaporation on rain-fall, 2-98in.

Mean amount of ozone, 5-50, being 1-43 of chromatic scale below ditto.

Electricity active all through the month, except on the 4th and 7th.

A fall of snow on Mount Wellington on the 25th, and again on the 31st.

Rain, with thunder, on the 17th.

Mean daily amount of sunlight for December, 1872 and 1873, taken hourly for anticipating clear weather at the transit of Venus in December of the present year, 75 per cent.

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

8th.—Apricots (Royal) ripening.
10th.—Veronica augustifolia in full flower.
10th.—Jargonelle pear ripening.
13th.—Grevillea robusta in full flower.
16th.—Catalpa syringefolia ditto.
18th.—Black mulberries commencing to ripen.

FRANCIS ABBOTT.

The following are the results of the observations made at New Norfolk during the month :-

Barometer mean, 29 946 inches. Barometer mean, 29 946 inches. Temperature mean, 64 75° (in shade). Solar intensity mean, 99 93°. Elastic force of vapour, 406in. Humidity of air, 64. Dew point, mean position, 533. Cloud (0-10) mean, 3°31. Cloud (0-10) mean, 3°31. Cloud (1) mean, 3°31. Espansation, 7°66. Rainfall, 1°25in. Evaporation, 7.51in. Ditto in excess, 6.26in.

Valleyfield, January, 1874.

W. E. SHOOBRIDGE.

FEBRUARY, 1874.

PRIVATE OBSERVATORY, HOBART TOWN.

	Bar. 3 abv.se correc redu	a level ted &			egister nomet		Wind.		the maxi-	
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 lb. per square foot.	Rain in inches.	gisters, and not from t
12 13 14 15 16 17 18 19 20 21 22	29·632 29·530 29·537 29·538 29·715 30·015 30·028 30·248 30·230 30·053 29·839 29·805 30·146 30·137 30·134 30·218 30·232 30·053 30	30 · 034 29 · 419 30 · 073 29 · 891 29 · 735 29 · 735 29 · 986 30 · 009 30 · 004 30 · 128 30 · 154 30 · 193 30 · 141 30 · 017 30 · 081 30 · 229 30 · 271	84 74 75 70 80 91 83 77 77 68 65 62 67 73 77 70 66 69 81	50 50 53 50 55 47	111 0 107 0 116 0 116 0 116 0 119 0 119 0 119 0 111 0 112 5 105 0 79 0 104 5 105 0 76 0 102 0 109 0 109 0 109 0 109 0 102 0 116 0 109 0 10	42.0 42.0 39.0 39.5 41.0 48.0 44.5	NW NW SW NW SE NW NW NW NW NW NW SW SE SE NW NE SE SE NW NW SE SE NW NW SE SE SE NW NW SE SE SE NW SE NW SE SE NW NW SE SE NW NW SE SE SW NW SW NW SW NW SW NW SW NW SW	1·04 20·84 1·30 3·38 15·46 1·04 1·04 1·04 1·04 1·04 1·04 1·04 1·04	0.08	The mean in all cases is taken from the sums of the three daily registers, and not from the maximum and minimum
<u>M</u>	onthly		_		106.0	44.60	Total Force	97.59	2.26	The me

The direction of the wind is registered from currents moving at a height of 192 feet and the force according to Lind's Wind Gaage. 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 evening at sundown.

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

Barometer mean, 29 933in., being 0 091 above the average.
Temperature mean, 63 17°, being 1 06° above the average.
Solar intensity mean, 100°, being 1 00° below the average.
Dew point mean, 48 2°, being 2 31° below the average.
Humidity of air mean, 61 22, being 8 78 per cent. below the average.
Humidity of air mean, 61 29, being 8 78 per cent. below the average.
Elastic force of vapour mean, 361, being 0 14 per cent. below the average.
Total amount of rain, 2 26 in , being 0 73 in. above the average.
Increase of spontaneous evaporation on rainfall, 1 95 in.
Mean amount of ozone, 5 5, being 1 67 of chromatic scale below the average.
Electricity active all through the month.
Mean amount of sun-light for the month of December, taken hourly in the

Mean amount of sun-light for the month of December, taken hourly in the years 1872 and 1873-75 per cent. FRANCIS ABBOTT.

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

8th.—Kerry Pippin commencing to ripen. 10th.—Windsor Pear ditto ditto. 16th.—Bon Chretien ditto ditto.

18th.—Greengage Plum ditto ditto.
25th.—Common Ash commencing to shed seed.
28th.—Common Sycamore ditto ditto.

The following are the results of observations made at New Norfolk during the month:

Barometer mean, 29:995 inches. Temperature mean (in shade), 62:32:

Elastic force of vapour, '372in. Humidity of air, '67. Dew point, mean position, 50.05.

Cloud (0-10), 5.16.

Ozone, mean daily amount, 7 78. Rainfall, 1.67in.

Evaporation, 4.99in.

Ditto in excess of rainfall, 3.32in. Valleyfield, Feb., 1874.

W. E. SHOOBRIDGE.

MARCH, 1874. PRIVATE OBSERVATORY, HOBART TOWN.

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	Bar. 3 abv.se	7 feet	S	elf-l	Registe	ring		m u	The mean in all cases is taken from the sums of the three daily registors, and not from the maximum of minimum.	
	reduced. The			her	momet	ers.	Wind.		axi	
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ä			Highest in shade	Lowest in shade.	g g	grass.		lb. per foot.	les.	th
ont			nsl	Sh	Highest in sun		Direction from		Rain in inches	omo
×	نب	نب	sti	t in	St i	0 0	three daily re- gisters.	orce in square	n.i.	1,1
o.	hes	Lowest.	zhe	ves	he	ves	gisters.	oc Jua	i.e	no
Day of Month.	Highest.	Fo	Hig	20	l iii	Lowest on		Force	Raj	ng
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2	30.081	30.041	76	51	105.0	47.0	WNW	3.64		sis
3	30.159	30.117	75	45	106.0	42.5	NW SE	1.04		re
4 5	30·144 30·174	30.130	67	55 55	89'5 74'0	40.0	NW SE SW E SE	·78 ·52		ily
6	29.974	29.971	64	53	71.5	43.0	SE	.52	0.40	da
7	30.265	30.176	67	50	97-0	38.5	SE	.78		ee
	30 282 30 246	30.253	78	52	102·5 116·0	33·5 33·6	NW SW SE NW N	·52 ·78		l d
10	30.240	29.878	80	57	109.5	39.5	NENWNE	.52		e l
11	29.902	29.770	89	62	117.0	48.0	NW	.78	0.02	(=
	29.675	29.641	80	60	117.0	47.0	NWSE	1.04		0
13	29.718 29.654	29.638	74	55	95·0	41 0	NW SE NE SE	·78 ·26		ű
15	29 054	29 769	70	52	98.0	38.5	NW SE	.78		sa
16	30.032	30.052	75	45	106.0	30.5	NW SE	.78		he
17	29.929	29.752	78	52	111.0	36.0	$_{ m NW}^{ m NW}$	1.04 5.20	0.01	l H
18 19	29.686 29.791	29.580	69	46	94.0	37·0 37·5	$\frac{NW}{NW}$	1.30	0.10	roi
20	29.888	29.736	77	54	102.0	30.5	NW	1.56		n f
21	29.741	29.697	78	55	107.0	40.0	NW	.52	0.41	ke
22 23	29·982 30·014	29.949	78	50	80·5 78·0	40.5 38.0	SE SE	1.30	0.47 0.04	ta
24	30.014		73	42	99.0	37.5	NW W SE	•26	0 (4	· · · · · · · · · · · · · · · · · · ·
25	30.475	30.439	69	42	100.0	38.0	NW SE	1.19		ase.
26	30.437			45	98.5	41.0	NW NE NW SE	·52 ·26	0.02] C
27 28	29°915 30°165	29.877	65	55 51	70·0 93·0	54·0 50·0	NW SE SE	1.04		al
	30.295	30.159	76	48	105.0	44.5	NW SE	1.04	0.06	ii ii
30	30.753	30.683	68	50	71.0	47.0	SE E NE	.78		an
31	30.550	30.406	69	51	100.5	50.0	NW	*52		The mean ir and minimum
M	onthly	mean	62	.48	97.60	41.10	Total Force	34.21	1.46	he
	30.0	25	1		1	İ			/	, Hu
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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 runiform 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 evening at sundown.

The 30 years' standard tables are used for obtaining the difference from the average.

Barometer mean, 30 025in., being 0 148in. above the average.
Temperature mean, 62 48°, being 2 56° above the ditto.
Solar intensity mean, 97 60°, being 5 90° below the ditto.
Dew point mean, 50 08°, being 0 86° above the Increase of spontaneous evaporation on rain-fall, 134in.

Mean amount of ozone, 600, being 111 of chromatic scale below the ditto.

Electricity active all through the month.

FRANCIS ABE

FRANCIS ABBOTT.

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

9th.—Tips of Hornbeam commencing to turn brown. 17th.—Coe's Golden-drop Plum ripe

18th.—Seckle Pear commencing to ripen.

20th.-Tips of Elm commencing to turn yellow.

22nd.—Horsechestnut leaves turning brown.

25th.—Ash leaves commencing to fall.

28th .- Oak leaves ditto. Acorns ripe.

The following are the results of observations made at New Norfolk during the month: Barometer mean, 30.060 inches

Thermometer mean of three daily readings, 61 96deg.; max. and min. in shade, mean,

61 19; max., 84; min., 41.

Dew point mean temperature, 54 8.

Elastic force of vapour, 423 inches.

Humidity of air, '77.
Rainfall in inches, '99.
Evaporation, 4:48: in excess, 3:49.
Clouds, 6:41; scale, 0-10.

Mean daily amount of ozone, 7:51.

W. E. SHOOBRIDGE.

APRIL, 1874. PRIVATE OBSERVATORY, HOBART TOWN.

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	Bar. 3 abv. se correc redu	alevel eted &	S	elf-l Ther	Register momet	ring ers.	Wind.		
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 1b. per square foot.	Rain in Inches.
7 8 9 100 111 122 133 144 155 166 177 188 199 200 212 223 224 225 226 227 288 299 299 299 299 299 299 299 299 299	30·276 30·244 30·228 30·184 30·049 29·747 30·186 30·153 30·058 29·977 30·092 29·945 30·138 30·106 29·662 30·044 30·267 30·452 30·438 30·338	29 947 29 622 29 912 30 142 30 145 29 921 29 946 30 033 29 703 30 092 29 855 29 856 30 200 30 430 30 402 30 30 200 30 130 30 100 30 br>30 100 30	68 69 68 66 71 68 78 82 74 75 77 68 63 60 70 67 71 67 67 67 68 65 71 66 65 71 66 65 71 67 68 65 71 67 68 68 66 66 71 71 67 67 67 67 67 67 67 67 67 67 67 67 67	42 43 44 50 50	85.5 1 79.0 99.5 104.0 99.5 100.0 99.5 57.2 0 95.5 72.0 95.0 85.0 102.5 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95	52.0 55.0 55.0 55.0 44.5 47.5 48.0 41.0 44.0 44.0 44.0 44.0 44.0 42.0 42.0 42	SE NW NW W W NW SE NW NE NW NE NW	0· ·52 0· ·18·71 18·02 31·26 52 26 62 25 26 66 22 26 66 28 104 26 578 104 104 26 572 28 6 552 20 6 0 0 0 26	0.65 0.59 0.11 0.05 0.04 0.03 0.21 0.01
N	lonthly 29.9	mean	59	-00	89.18	43.77	Total force	69.01	1.95

The mean in all cases is taken from the sums of the three daily registers, and not from the maximum and minimum

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 a uniform velocity during the month is a very arbitrary one, and the results can be considered only approximately correct. each fell under the different winds are registered The relations of the quantities of rain which evening at sundown.

30 years' standard tables are used for obtaining the difference from the average.

Barometer mean, 29 '996in., being 0'115in. above the average.
Temperature mean, 59 '00', being 3'67' above the ditto.
Solar intensity mean, 89 '18', being 2'56' below the ditto.
Dew point mean, 49 5', being 2'33' above the ditto.
Humidity of air mean, '71, being '05 per cent. below the ditto.
Elastic force of vapour mean, '355, being '026 per cent. above the ditto.
Total amount of rain, 1'95in., being 0'18in. above the ditto. Increase of spontaneous evaporation on rainfall, 0.48in.

Mean amount of ozone, 5.0, being 1.85 of chromatic scale below ditto.

Electricity active on 23 days, feeble on 6 days, and nil on 2 days. A strong force of N.W. wind on the 4th, 5th, and 6th, varying from 2.60h. to 15 62lb. to the square foot; or with an approximate speed of 4½ feet to 24 feet per second. On the 8th, a strong blush-coloured Aurora from S.W. to S.E., with an altitude of 70.

FRANCIS ABBOTT.

Leafing, Flowering, and Frniting of a few Standard Plants in the Royal Society's Gardens, dvring the Month.

10th.-Coe's late Plum ripe

16th.-Elm leaves commencing to fall.

18th.—Chinese Chrysanthemum commencing to flower.

27th.-Mountain Ash leaves commencing to fall 28th.—Black Mulberry leaves commencing to fall.

30th.—Seeds of Hornbeam ripe.

The following are the results of observations made at New Norfolk during the month:

Barometer mean, 30.019in.

Temperature, mean of three daily readings, 57 15° Maximum and Minimum Thermometers (in shade) mean, 56 3°.

Maximum Temperature in shade, 74.0°. Minimum Temperature in shade, 39.0°.

Dew point mean temperature, 53.05°. Elastic force of vapour, '403in. Humidity of Air, '86.
Total amount of Rain, 1.41in.

Evaporation, 2.18in., being '77in. in excess of rainfall. Extent of cloudy sky, 5.75 (Scale 0-10).

Ozone, mean daily amount, 7.0.

Valleyfield.

W. E. SHOOBRIDGE.