

RESULTS of METEOROLOGICAL OBSERVATIONS taken at HOBART TOWN during the Year 1877.

PRIVATE OBSERVATORY.

Latitude, 42° 52' 13" S.

Height above sea level, 67 feet.

Longitude 9h. 49m. 29.2s. E.

Months.	Baromet.		Thermometers (Reading.)		Thermometers (Self-registering.)			Clouds (Scale, 0-10). Two daily observations.		Wind (lbs. per square foot.) Two daily observations.			Total Amount.	Spontaneous evaporation. Total amount.	Ozone. Mean. One daily observation (7-30 a.m.)
	Mean of two daily readings.	Centigrade Mean of one daily reading.	Fahrenheit Mean of two daily readings.	Mean of highest in Sun.	Mean of highest in Shade.	Mean of lowest on Grass.	Relative humidity per cent. of Mean of two daily observations.	Mean amount for two months.	Prevaling Character.	Prevaling Direction.	Mean force for Month.	Maximum force.			
January	29.747	13.37	61.03	91.83	73.82	41.00	.64	6.00	K	W	1.33	5.21	1.05	6.00	4.16
February	29.889	13.71	62.70	98.30	76.03	42.11	.67	6.79	K & KN	W, SE	.83	5.21	.83	4.43	4.50
March	30.049	11.63	59.23	90.71	73.60	41.23	.75	5.69	K, K S, KN	SE, S, W, NW	.36	2.60	.65	4.70	4.34
April	30.035	9.88	54.38	84.62	66.85	36.72	.77	6.10	K, KN	NW, W	.63	5.21	2.45	2.92	4.73
May	29.831	7.90	49.54	72.90	63.20	35.58	.84	5.55	K, KN	NW, N, S	.41	5.21	1.45	1.33	4.50
June	29.931	8.00	49.34	71.22	65.13	32.88	.83	7.32	K, K S	NW, W	.44	5.21	3.37	1.51	4.32
July	30.132	5.28	47.63	77.72	59.70	31.70	.82	6.00	K, K S	NW, N	.13	.52	1.96	2.11	4.43
August	29.841	7.16	48.95	73.15	59.00	33.71	.73	6.83	K, KN	NW	1.00	15.62	3.14	3.59	4.45
September	30.123	9.88	53.62	73.00	64.22	35.00	.73	5.50	K, KN	NW, S	.82	10.42	.84	3.61	7.40
October	29.940	9.37	53.44	92.07	64.68	36.00	.72	7.00	K, KN	NW	1.20	5.21	1.70	5.23	5.80
November	29.699	10.70	50.60	93.72	67.55	36.13	.71	7.00	K, KN	NW	1.44	10.42	2.03	4.92	5.80
December	29.719	13.10	60.94	99.90	72.30	36.30	.67	6.40	K	NW, NW	1.13	5.21	1.85	5.10	4.05
Sum	358.986	119.98	651.40	1019.14	794.08	433.36	8.93	76.18	K	NW, W	9.72	76.05	20.82	45.50	58.98
Mean for Year...	29.915	10.00	54.28	84.93	66.17	36.53	.74	6.35	K	NW, W	.81	6.34	1.73	3.80	4.91

Heavy gale on 6th August ; force of wind from 16 to 20lbs. per square foot ; velocity from 56.508 to 63.245 miles per hour.

The Meteorological form brought into use at the beginning of 1876 differs in some respects from the former one. It has been adopted with the view of assimilating the Hobart Town records more closely with those of stations in Europe, America, etc., in order to co-operate in a system of International Meteorology. Readings are added from the centigrade thermometer, that being the instrument generally used on the continent of Europe.

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

The direction of the wind is registered from currents at a height of 92 feet above sea level, and its force in lbs. per square foot.

The relative quantity of rain that fell under the different winds is registered each morning at 7.30 a.m.

MONTHLY MEANS OF OBSERVATIONS TAKEN AT NEW NORFOLK, 1877.

Latitude 42° 46' 43" South.

Longitude 147° 4' 45" East.

Months.	Baro-meter.		Thermometer.				Humidity of Air.			Condensation.		Evapo-ration.		Ozone.		Clouds.		Winds.	
	At Temperature 32°.	Mean Temperature of two Daily Registers	Mean Temperature of max. & min. in shade	Mean Diurnal Range.	Mean Solar Intensity.	Mean Terrestrial Radiation.	Dew Point Mean position.	Humidity of Air per 100.	Elastic Force of Vapor per 1000.	Rain in Inches.	No. of Days on which Rain fell.	Spontaneous Evapo-ration in Inches.	Mean Daily Amount.	Scale	Prevaling Direction.	Force in lbs. per sq. foot.	Horizontal Movement in Miles.		
January.....	29.758	60.87	60.64	23.83	129.83	4.39	43.60	.67	.346	1.01	9	8.52	0-10	W.S.E	119.71	5.95			
February.....	30.111	62.55	63.10	24.42	128.03	4.75	51.39	.67	.378	1.71	13	6.71	0-10	W.S.E	63.55	8.55			
March.....	30.102	60.60	61.01	26.25	130.74	40.87	51.25	.72	.378	.34	6	5.86	0-10	S.E.W	43.42	30.30			
April.....	30.082	51.78	53.91	26.16	115.86	37.50	45.75	.80	.315	2.22	11	3.30	0-10	W	40.45	25.50			
May.....	29.850	45.62	46.80	17.41	104.41	31.19	42.20	.83	.270	1.60	13	1.44	0-10	W.S.W	38.29	23.50			
June.....	30.026	48.38	46.16	15.36	99.23	32.86	42.46	.90	.278	2.46	15	1.74	0-10	W	45.33	20.10			
July.....	30.160	43.53	44.46	19.93	100.61	29.42	39.15	.84	.240	1.27	6	1.44	0-10	N.W.W	21.91				
August.....	30.007	44.46	46.45	19.33	110.50	31.72	39.0	.85	.246	4.36	20	1.86	0-10	W.N.W	62.75				
September.....	30.144	50.45	50.40	22.56	118.33	24.43	42.30	.74	.270	.50	9	3.96	0-10	S.E.W	48.00				
October.....	30.231	52.58	50.87	21.65	120.00	34.85	40.45	.64	.251	2.75	9	4.58	0-10	S.E.W	82.86				
November.....	29.709	54.32	53.24	22.65	130.58	35.83	42.60	.63	.270	2.92	17	4.72	0-10	N.W.W	81.85				
December.....	29.849	60.32	59.37	24.19	131.89	41.96	46.79	.62	.322	1.49	12	7.23	0-10	N.W.S.E	76.60				
Sums.....	500.069	632.55	635.82	204.37	1420.25	432.29	532.55	9.00	3.564	22.63	140	51.36	0-10	W.S.E.N.W	727.72	179.99			
Mean for 1877.	30.005	52.71	52.98	22.63	118.35	33.02	44.37	.75	.297	1.38	11.6	4.28	0-10	W.S.E	60.64	24.69			
Mean for 1876.	29.887	52.92	54.13	21.61	116.37	27.12	45.22	.76	.308	1.93	11.41	4.10	0-10	W	67.15	24.80			
Mean for 1875.	29.863	54.62	53.65	21.33	116.84	27.69	45.99	.75	.329	2.34	14.41	4.03	0-10	W.S.E	73.56				
Mean for 1874.	29.912	54.90	54.33	18.47*	115.59	40.67	49.31	.83	.332	1.92	11.39	3.55	0-10	W.S.E†	83.80				

* Mean of 3 months.

† Mean of 6 months.

‡ Total Rainfall for 1876, 23.54in. ; for 1875, 28.17in. ; for 1874, 23.04in.

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