

MONTHLY METEOROLOGICAL REGISTER AT H. M. MAGNETICAL OBSERVATORY, TORONTO, C. W.—FEBRUARY, 1846.

Latitude 43°. 39' 4". N. Longitude 79°. 21' 5". W. Elevation above Lake Ontario, 108 Feet.

DAY.	Barometer at Temp. of 32°.			Tension of Vapour.			Temperature of the Air.			Humidity of the Air.			Wind.			Snow.	WEATHER.
	7 A.M.	3 P.M.	10 P.M.	7 A.M.	10 P.M.	Mean.	7 A.M.	3 P.M.	10 P.M.	7 A.M.	3 P.M.	10 P.M.	7 A.M.	3 P.M.	10 P.M.		
1,	29.948	29.883	29.692	—	0.65	0.83	—	1.41	17.0	—	93	84	—	—	—	0.2	Clouded all day. Slight snow 9 a.m.
2,	29.907	29.822	29.637	—	1.06	1.30	—	21.6	29.8	—	89	78	—	—	—	—	Clouded all day. Slight snow 9 a.m.
3,	29.878	29.806	29.627	—	1.66	1.95	—	30.4	40.6	35.0	98	78	—	—	—	—	Densely overcast.
4,	29.788	29.666	29.878	—	1.06	1.40	—	28.8	35.6	39.2	66	68	—	—	—	—	Overcast. Halo round moon 7 p.m.
5,	29.411	29.615	29.761	—	1.41	1.30	—	35.8	36.9	31.2	67	70	—	—	—	—	Gently cloudy, halo 7 p.m., wind fresh p.m.
6,	29.806	29.673	29.516	—	1.21	1.64	—	24.4	38.6	33.9	90	70	—	—	—	—	Generally clouded, wind brisk p.m.
7,	29.251	29.031	29.254	—	1.35	1.76	—	24.6	37.3	30.1	90	80	—	—	—	—	Clear a.m., rem't day detached clouds
8,	29.663	29.596	29.596	—	0.50	0.95	—	18.0	—	—	68	92	—	—	—	—	Clear a.m., wind high & sq'ly fr; 9 p.m. detached clouds.
9,	29.663	29.757	29.860	—	0.64	0.49	—	13.2	15.1	8.0	76	54	—	—	—	—	Clouded a.m. Mostly clear p.m.
10,	29.885	29.621	29.514	—	0.48	1.01	—	4.4	25.8	20.1	83	75	—	—	—	—	Clear to 8 a.m., sn. 10 a.m. & 6 p.m., to 0.
11,	29.409	29.433	29.673	—	1.21	0.96	—	0.84	18.8	13.4	95	91	—	—	—	—	Clear to 8 a.m., sn. 10 a.m. & 6 p.m., to 0.
12,	29.857	29.891	29.919	—	1.01	0.90	—	5.3	22.0	18.1	88	88	—	—	—	—	Snowing constantly to 8 p.m.
13,	29.865	29.795	29.813	—	1.20	1.48	—	24.7	35.0	29.6	88	73	—	—	—	—	Generally clouded.
14,	29.729	29.592	29.376	—	1.02	1.60	—	18.6	33.3	29.6	97	84	—	—	—	—	Generally clouded.
15,	29.250	29.369	29.369	—	1.15	1.21	—	20.6	28.5	—	95	95	—	—	—	—	Halo 6 a.m., clouded all day, snow 10 p.m.
16,	29.560	29.468	29.551	—	1.08	1.30	—	25.6	25.6	21.4	92	92	—	—	—	—	Snowing constantly to 4 p.m.
17,	29.680	29.732	29.827	—	1.01	1.54	—	19.4	30.6	22.4	92	90	—	—	—	—	Overcast all day, sn. fr. noon to 11 p.m.
18,	29.923	29.965	29.964	—	0.67	1.11	—	11.6	27.2	10.6	83	74	—	—	—	—	Overcast all day, sn. fr. noon to 11 p.m.
19,	29.880	29.682	29.446	—	0.67	1.10	—	11.6	26.8	15.5	83	75	—	—	—	—	Clear to 6 a.m., clear and fine p.m.
20,	29.086	28.959	28.964	—	1.31	1.61	—	24.6	30.1	26.2	97	96	—	—	—	—	Light clouds a.m., clear and fine p.m.
21,	28.988	29.066	29.210	—	1.28	1.39	—	26.0	29.4	21.0	88	85	—	—	—	—	Clear to 6 a.m., day cloudy, sn. fr. 8 p.m.
22,	29.299	29.394	29.210	—	1.10	1.27	—	21.1	24.7	—	94	93	—	—	—	—	Snow drift to 11 a.m., slight sn., rem't
23,	29.448	29.405	29.531	—	0.82	1.10	—	15.6	24.9	17.4	88	80	—	—	—	—	Mostly cloudy, slight sn., clear fr. 7 p.m.
24,	29.607	29.732	29.891	—	0.60	0.89	—	12.0	20.0	5.0	75	80	—	—	—	—	Overcast to 4 p.m., clear from 7 p.m.
25,	29.930	29.876	29.981	—	0.45	0.86	—	10.8	16.6	6.2	89	89	—	—	—	—	Gently clear, slight snow occasionally.
26,	30.143	30.198	30.255	—	0.54	—	—	7.3	10.0	3.1	83	83	—	—	—	—	Mostly cloudy. Slight snow p.m.
27,	30.218	30.046	29.883	—	0.77	0.88	—	12.4	15.0	8.7	85	85	—	—	—	—	Mostly clear.
28,	29.727	29.694	29.781	—	0.68	0.84	—	11.6	19.2	15.9	78	79	—	—	—	—	Clear to 6 p.m., day overcast, slight sn. pm
Mean	29.678	29.634	29.652	29.662	—	—	—	15.7	26.7	20.3	—	—	—	—	—	—	Densely overcast. Occasionally slight snow.

Highest Barometer, 30.285 at 10 p.m. of 29th.
 Lowest do. 29.660 at 6 p.m. of 20th.
 Highest Temperature, 41° 9 on 3rd, p.m.
 Lowest do. 16° 7 on 27th, a.m.
 Mean Daily Range, 18° 98
 Extreme Daily Range, 24° 2.6 on 27th, a.m. to p.m.

Proportion of Wind from each Quarter—
 N.W. 110
 N.W. 105
 S.W. 22.5
 S.E. 47
 N.E. 92
 N.E. 222
 Proportion of Calm, 222

Under the head of Tension of Vapour, is given the elastic force of the Aqueous Vapour in the Atmosphere at each Observation, in decimals of an inch of Mercury, or the proportion of the Barometric pressure due to its presence.
 Under the head of Humidity of the Air, is given the proportion the Aqueous Vapour bears to the quantity the air is capable of admitting at the existing Temperature, saturation being represented by 1.00.
 The instruments are Standard Instruments. The Rain Gauge 27 feet above the soil.—The Means entered are the Means by 24 Hourly Observations, from 6, a.m., to 6, a.m.
 The quantity of Rain or Snow received each 24 hours, is noted at 9, a.m., and is marked in inches.
 The Observations entered in the column for 7, a.m., or Sunday's, is actually taken at 9, a.m. The two Observations taken on Sunday are not included in any of the means.

Mean Temp. for Feb.
 1840 29.0
 1841 22.5
 1842 27.9
 1843 15.9
 1844 27.7
 1845 28.4
 1846 20.8