MONTHLY METEOROLOGICAL REGISTER AT H. M. MAGNETICAL OBSERVATORY, TORONTO, C. W.—MARCH, 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.			Rain inch on surf.	Weather.
	7 A.M.	3 P.M.	10 P.M.	Mean.	7 A.M.	3 P.M.	10 P.M.	Mean	7 A.M.	3 P.M.	10 P.M.	Mean	7 A.M.	3 P.M.	10 P.M.	Mean	7 A.M.	3 P.M.	10 P.M.		
1,	29.965	29.965	—	—	.081	.100	—	—	13.3°	19.6°	—	—	.94	.91	—	—	N.E.	E.	—	—	Generally clear. Detached clouds.
2,	29.972	30.000	30.053	30.027	.076	.115	.069	.085	14.6	26.6	12.8°	17.1°	.86	.79	.80	.83	N.E.by W.	E. by S.	Calm.	—	Generally clear. Somewhat hazy. Fine
3,	30.090	29.986	29.882	29.956	.059	.133	.095	.100	10.6	29.9	17.4	22.1	.78	.80	.94	.80	Calm.	S.S.E.	Calm.	—	Hazy. Very fine. Halo round m. 7 p.m.
4,	29.740	29.505	29.450	29.540	.081	.172	.152	.148	20.0	37.1	36.8	33.8	.73	.79	.70	.77	Calm.	S. by W.	Calm.	—	Mostly clear. Detached clouds. Fair.
5,	29.573	29.531	29.563	29.564	.139	.143	.101	.138	30 8	43.3	32.2	34.5	.80	.51	.56	.69	W.	S.W.by W.	N. W.	—	Mostly clear. Detached clouds. Fine.
6,	29.496	29.532	29.704	29.600	.148	.129	.071	.107	28.2	29.4	13.3	21.4	.95	.79	.83	.87	Calm.	Calm.	Calm.	—	Snowing sl'tly a.m. cloudy till 4 p.m.
7,	29.672	29.492	29.459	29.607	.075	.165	.161	.141	13.9	30.2	30.0	28.5	.85	.98	.96	.88	Calm.	E.S.E.	Calm.	—	Cl'ded all day. Sl't sn. fr 11 am. to 3pm
8,	29.384	29.485	—	—	.144	.147	—	—	35.2	42.3	—	—	.70	.55	—	—	Calm.	W.N.W.	—	—	Clear a.m. Partially clouded p.m.
9,	29.865	29.869	29.842	29.858	.140	.162	.151	.153	33.4	35.7	32.1	34.0	.73	.78	.83	.78	Calm.	S.S.W.	Calm.	—	Clear during day. Light clouds fr 9 pm.
10,	29.878	29.889	29.902	29.889	.136	.152	.130	.141	30.2	40 2	27.0	32.5	.81	.62	.87	.77	N. by W.	E.	Calm.	—	Clouded to 6 a.m. rem'r clear, very fine
11,	29.850	29.752	29.719	29.762	.131	.169	.159	.156	24.8	39.5	33.2	34.6	.96	.70	.84	.79	Calm.	E. by S.	Calm.	—	Mostly clear, hazy. halo rd. m. 9 p.m.
12,	29.682	29.591	29.514	29.548	.174	.229	.240	.218	36.2	39.8	40.2	39.8	.82	.94	.97	.90	Calm.	Calm.	E.	—	Halo fr 0 to 4 a.m. sl't rain most of day.
13,	29.385	29.179	29.117	29.188	.225	.281	.216	.235	39.1	43.7	36.7	39.2	.95	1.00	1.00	.98	Calm.	Calm.	Calm.	0.230	Constant sl't rain to 5 p.m. Dense fog.
14,	29.092	29.042	29.115	29.133	.200	.183	.141	.171	36.1	37.6	30.4	34.3	.95	.81	.82	.85	S.W.	S.W. by S.	S. W.	0.710	Clouded day. Sl't rain a.m. Snow pm.
15,	29.137	29.169	—	—	.157	.164	—	—	33.9	37.1	—	—	.79	.74	—	—	S. W.	W.	—	—	Densely clouded. Sl't snow occ'nally.
16,	29.381	29.539	29.660	29.567	.128	.151	.118	.126	29.4	31.4	24.8	28.0	.79	.85	.86	.81	W. by N.	N.N.W.	Calm.	—	Clouded to 4 p.m. Rem'r clear.
17,	29.778	29.795	29.816	29.800	.113	.131	.118	.117	26.1	35.6	24.4	27.3	.79	.63	.88	.78	N.W.	N. W.	Calm.	—	Mostly clear. Auroral light at 9 p.m.
18,	29.861	29.751	29.715	29.766	.116	.147	.135	.141	24.8	39.3	33.4	33.8	.85	.61	.70	.73	Calm.	Calm.	N.E.	—	Clear to 6 a.m. rem'r mostly clouded.
19,	29.691	29.606	29.646	29.636	.157	.177	.149	.153	36.6	45.2	30.8	37.3	.73	.59	.86	.71	N. E.	Calm.	Calm.	—	Haze. Halo rd sun 1 p.m. Clear fr8 p.m.
20,	29.702	29.540	29.634	29.649	.159	.219	.191	.176	30.0	46.7	38.0	39.1	.95	.70	.84	.74	Calm.	Calm.	W.N.W.	—	Hazy, halo rd sun noon, rain 7&8 p.m.
21,	29.832	29.911	30.004	29.896	.124	.128	.120	.131	32.8	37.7	26.8	33.7	.67	.56	.80	.68	NW.by W.	N.W.	Calm.	not ap	Cl'ded to noon. p.m. clear & uncl'ded.
22,	30.124	30.010	—	—	.156	.151	—	—	33.2	39.7	—	—	.82	.61	—	—	Calm.	E.S.E.	—	—	Partially clouded. Fair.
23,	29.738	29.592	29.492	29.559	.160	.170	.202	.184	35.3	40.6	38.2	39.2	.78	.67	.88	.77	E.N.E.	Calm.	Calm.	—	Hazy, halo rd sun 11 a.m, rain fr 5 to 0.
24,	29.453	29.362	29.210	29.293	.223	.226	.230	.222	38 8	41.0	41.3	39.5	.95	.89	.89	.92	Calm.	E. brisk.	E. h. & sq.	0.075	Sl't rain most of day, scud passing fr E.
25,	29.003	28.944	29.101	29.024	.222	.246	.194	.218	38.8	40.7	38 2	38.6	.95	.98	.85	.93	E.N.E. br.	Calm.	S.S.W.	0.700	Sl't rain most of day. Ceased 7 p.m.
26,	29.114	29.070	29.142	29.121	.183	.210	.192	.201	35.6	43.7	36.0	38.6	.88	.74	.91	.87	Calm.	E. by S.	Calm.	0.190	Mostly clouded. Passing showers p.m.
27,	29.178	29.265	29.373	29.298	.196	.203	.189	.199	36.7	41.4	36.8	38.2	.91	.79	.87	.86	S.	S. S. W.	S W.by W.	not ap	Cl'ded, spit rain 1 a.m, sho'rs 3 to 7 pm
28,	29.395	29.407	29.495	29.519	.174	.179	.161	.167	34.3	37.8	34.2	34.9	.89	.79	.81	.83	S.W.by W	S. W. by S	W.S.W.	0.060	Cl'ded, particles of snow falling all day.
29,	29.603	29.601	—	—	.156	.169	—	—	35.7	37.9	—	—	.75	.74	—	—	W. by S.	S.W. by S	—	—	Clouded.
30,	29.845	29.829	29.885	29.870	.158	.160	.143	.154	33.2	38.8	29.4	34.2	.83	.68	.88	.79	Calm.	S. W.	Calm.	—	Clouded. Snowing sl'tly fr. 3 to 5 p.m.
31,	29.950	29.960	30.059	30.011	.154	.175	.139	.154	32 4	42.1	31.5	34.8	.84	.66	.79	.76	Calm.	S.S.E.	Calm.	—	Cl'ded, brill'nt meteor NW, 8h 30m pm.
Mean	29.6237	29.5746	29.5974	29.6026	.148	.175	.153	.159	30.1	38.3	31.0	33.4	.85	.76	.84	.81				1.965*	

* Snow 2,3 inches.

Highest Barometer, ... 30.103 at 9 a.m. on 3rd.
Lowest do. .. .. .. 28.927 at noon on 25th. } Range 1.176
Highest Temperature, ... 49°.6 on 19th, p.m.
Lowest do. .. .. .. 7°.8 on 3rd, a.m. } Range 41.8
Mean Daily Range, ... 14°.93
Extreme Daily Range, ... 24°.3 on 4th, from a.m. to p.m.

Proportion of Wind from each Quarter—

N.W.	91	Winds,	338
S.W.	99	Calms,	286
S.E.	77		
N.E.	71	Total,	624
Proportion of Calm, ...	286		

Temperature for March.

Year.	Mean.	Max.	Min.	Range.
1840, ...	33.4°	58.6°	9.2°	49.4°
1841, ...	28.2	54.6	—6.7	61.3
1842, ...	36.30	70.3	15 1	55.2
1843, ...	22.36	39.9	—2.5	42.4
1844, ...	31.83	50.8	9.6	41.2
1845, ...	35.68	59.8	6.6	53.2
1846, ...	33.43	49.6	7.8	41.8

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 sustaining 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 Observation entered in the column for 7, a.m., or Sundays, is actually taken at 9, a.m. The two Observations taken on Sunday are not included in any of the means.
Note.—The mean temperature for January and February 1840, are the means by four daily observations only, viz., at 3 a. m., and 9 a. m., and 3 p. m., and 9 p. m.