MONTHLY METEOROLOGICAL REGISTER AT H.M. MAGNETICAL OBSERVATORY, TORONTO, C. W.—MARCH, 1847.

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

Day.	Barometer at Temp. of 32°. 7 A.M.	3 P.M.	10 P.M.	Mean.	Temperature of the Air. 7 A.M.	3 P.M.	10 P.M.	Mean	Tension of Vapour. 7 A.M.	3 P.M.	10 P.M.	Mean	Humidity of the Air. 7 A.M.	3 P.M.	10 P.M.	Mean	Wind. 7 A.M.	3 P.M.	10 P.M.	Rain in. on surf.	Weather.
1,	29.329	29.501	29.579	29.540	20.2°	29.0°	24.9°	24.6	.092	.112	.104	.104	.81	.69	.76	.76	W. N. W.	W by N 2.5	W.	*	Gen. overcast. Slight snow 3 am.
2,	29.787	29.758	29.788	29.776	18.3	29.6	23.2	23.8	.088	.114	.107	.100	.85	.70	.82	.76	Calm.	S. W.	Calm.	—	Dens. cl'd to 7 am. Rem. part. cl'd
3,	29.731	29.609	29.591	29.641	26.6	35.2	23.9	27.9	.125	.138	.122	.132	.85	.68	.93	.85	S. by E.	E. by S.	Calm.	†	Gen. clouded. Slight snow 6 to 9 am
4,	29.738	29.804	29.888	29.837	14.4	32.5	21.8	23.5	.076	.131	.102	.105	.86	.71	.84	.80	Calm.	W. N. W.	Calm.	—	Clear to 6 am. A few pass. cl'ds dur. day
5,	30.008	30.002	30.010	30.014	10.2	29.9	25.8	24.9	.071	.133	.128	.120	.96	.80	.89	.87	N E by N.	S.	Calm.	—	Gen. cl'r to 1 pm. Det. cl'ds all aftern.
6,	30.062	29.976	29.763	29.857	28.9	34.3	31.8	32.8	.143	.142	.151	.152	.89	.72	.84	.81	Calm.	E.	E., 2.0	—	O'cast with l't haze. Halo & parhelia*
7,	29.522	29.386	—	—	36.1	37.7	—	—	.197	.213	—	—	.93	.95	—	—	E.	Calm.	——	—	Overcast all day. Slight rain all aftern.
8,	29.716	29.839	29.964	29.868	25.9	31.3	19 9	25.5	.100	.129	.092	.109	.70	.73	.82	.77	Calm.	N.	N.	0.100	Lunar halo & parhelia 1 am. Clear from 5 am. Very fine.
9,	29.982	29.873	29.672	29.805	19.0	21.2	24.9	21.8	.075	.097	.127	.104	.70	.82	.93	.86	N. E.	E.	E by S, 2.0	—	Overcast all day. Slight rain from 9 pm
10,	29.693	29.658	29.830	29.756	23.1	36.3	21.4	27.1	.119	.139	.098	.118	.92	.65	.83	.78	N W by N	W. 3.5	N. by W.	not ap	Clouded to 9 am. Remainder clear.
11,	29.923	29.804	29.756	29.803	15.3	22.3	11.9	15.4	.081	.089	.063	.074	.88	.72	.79	.79	Calm.	N. N. E.	N. by W.	—	Cl'd to 6 pm. Cl'r and uncl'd from 7 pm
12,	29.734	29.707	29.601	29.670	7.3	23.1	14.3	16.0	.057	.086	.068	.068	.87	.67	.76	.72	N. by W.	S. S. W.	N. by W.	—	Cl'r to 4 pm. L'tly o'rc't fr. 5 pm. Fine
13,	29.714	29.668	29.704	29.697	10.3	26.1	18.2	20.0	.057	.096	.073	.075	.77	.67	.70	.67	N.	S. S. W.	Calm.	—	Generally clear. Very fine day.
14,	29.736	29.707	—	—	18.1	30.3	—	—	.088	.101	—	—	.85	.62	—	—	Calm.	S. E.	——	—	Light haze foren.
15,	29.755	29.718	29.731	29.725	15.3	22.1	13.3	17.1	.067	.090	.068	.075	.73	.74	.80	.75	S W by W	W. S. W.	Calm.	—	Light passing clouds. Fine day.
16,	29.714	29.788	29.907	29.836	10.6	22.5	15.8	17.1	.061	.102	.069	.075	.80	.82	.73	.75	W. N. W.	W. N. W.	W. by N.	—	Cl'r to 4 am. Rem gen cl'd. Sl't sn. pm
17,	30.002	29.895	29.865	29.893	16.6	33.8	29.3	28.6	.080	.119	.113	.117	.82	.60	.70	.73	W.	S. S. W.	W. S. W.	†	Cl'r to 3 pm. Halo r'nd sun 3 to 4 pm
18,	29.757	29.682	29.831	29.784	29.6	39.5	29.3	32.7	.137	.158	.116	.133	.83	.66	.71	.71	Calm.	S. by E.	N. N. W.	—	O'rc't to 10 am. Uncloaded. Hazy pm. Auroral light 11 pm.
19,	29.950	29.921	29.813	29.838	25.9	36.2	28.1	31.2	.106	.136	.133	.129	.74	.65	.85	.74	Calm.	Calm.	E. by N.	—	Aur. l't to 4 am. Gen. clr. Aur. fr 8 pm
20,	29.563	29.182	29.272	29.375	32.3	37.8	35.3	33.0	.156	.178	.158	.161	.86	.79	.78	.85	E. N. E.	N.E.by N.	N. by W.	0.155	Aur. to 2 am. L'ting 3 am. R'ng fr. 6 am
21,	29.655	29.650	—	—	22.9	30.7	—	—	.085	.102	—	—	.67	.59	—	—	N. E.	N. E.	——	0.395	Overcast all day. Halo round sun 9 am
22,	29.531	29.485	29.480	29.475	26.9	31.1	31.6	31.1	.134	.153	.160	.113	.90	.88	.90	.89	N. E.	E.	Calm.	not ap	Overcast all day. Slight rain to 8 pm
23,	29.341	29.297	29.394	29.356	33.9	40.9	33.8	35.2	.172	.155	.145	.155	.89	.60	.74	.70	S. E. by S.	W. by N.	W. by N.	0.200	Densely overcast all day. Slight rain 1 to 4 am. Particles of snow 7 to 11 pm
24,	29.553	29.604	29.520	29.517	28.7	37.9	31.9	32.8	.130	.120	.138	.136	.80	.53	.76	.73	W. N. W.	S W by W	S. S. W.	†	Part. cl'd. L't det. cl'ds. Halo round moon 9 pm.
25,	29.331	29.481	29.578	29.485	32.7	41.8	35.2	37.1	.142	.133	.192	.158	.77	.51	.94	.72	W. N. W	W. by N.	Calm.	—	Gen. cl'd. Faint aur. light 0 & 1 am.
26,	29.593	29.518	29.498	29.511	30.8	35.9	29 5	30.4	.124	.143	.120	.128	.72	.68	.72	.74	N. N. W.	NW by N*	WNW 4 0	—	O'rc't all day with l't haze. Halo at no.
27,	29.472	29.469	29.593	29.452	17.9	25.1	21 8	24.9	.071	.097	.079	.096	.70	.69	.66	.68	NNW. 4.0	N NW 4.0	W. N. W.	†	Part. cloud. to 4 pm. Clear from 5 pm
28,	29.690	29.649	—	—	30.2	35.4	—	—	.129	.185	—	—	.77	.90	—	—	S W by W	S. by W.	——	—	Gen. cl'r. A few l't cl'ds. Very fine day
29,	29.138	29.332	29.591	29.398	33.2	37.7	26.5	32.6	.145	.123	.106	.125	.76	.54	.72	.67	E. N. E.	N., 2.5.	N. E.	—	O'rcast to 6 am. Hazy but fine to 4 pm. Remainder clouded.
30,	29.631	29.512	29.422	29.526	23.5	25.3	21.1	23.0	.096	.105	.097	.098	.74	.75	.82	.77	N. E.	E by N.	N. E.	—	Cl'd. Thunderstorm, with vivid lightning and heavy snow, 5 to 6 pm.
31,	29.639	29.760	29.855	29.789	16 3	26.6	14.5	18.5	.073	.080	.058	.067	.76	.54	.66	.63	N.	N. by W.	Calm.	*	Ceased snow. 1 am. Light cl'ds & haze.
Mean	29.681	29.661	29.685	29.675	21.99	31.30	24.40	26.25	.103	.122	.111	.112	.81	.69	.79	.76		* 2 0 lb.		0.850	* 6th, 4 pm, very perfect halo & parhelia from 3h 50m to 4h 20m pm.

* Snow, in inches, on 1st, 0.2; on 31st, 4.0; total, 4.2.—† Snow not appreciable on 3d, 17th, 21th, and 27th.

Highest Barometer, 30.061 at 8 a.m. on 6th.
Lowest do. 29.109 at 8 a.m. on 29th. } Range 0.955
Highest Temperature, 43°.9 on 29th, noon
Lowest do. .. 5°.4 on 11th, 3 a.m. } Range 38.5
Mean Daily Range, .. 13°.24
Extreme Daily Range, 23°.1 on 14th, from am. to pm.
Greatest Day's Wind, 27th, Mean Pressure, 3.03 lbs.

Proportion of Wind from each Quarter—

N.W.	220	Total,	
S.W.	111	Winds,	522
S.E.	71	Calms,	126
N.E.	117		
		Obser.,	648

Mean force, 0.71 lbs; Max. force, on 27th, at am, 8.5; and at noon, 8.0 lbs.

Temperature for March.

Year.	Mean.	Max.	Min.	Range.
1840, ...	33.4°	58.6°	9.2°	49.4°
1841, ...	23.2	54.6	—6.7	61.3
1842, ...	36.3	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
1847, ...	26.25	43.9	5.4	38.5

Rain. No. Days.	Inches.	Wind. Winds.	Calms	Mean force.	Days Snow.
8	1.610				8
5	1.170	255	69	0.51	7
4	3.150	199	113	0.70	8
2	0.625	485	163	1.18	18
8	2.470	364	260	.57	8
5	imper	444	154	.66	8
9	1.965	338	286	.30	5
5	0.850	522	126	.71	6

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 is 27 f et 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 received for the last 24 hours, is noted at 9, a.m.
The Observations entered at 7 a.m., on Sundays, are actually taken at 9 a.m. The two Observations taken on Sundays are not included in any of the means.