MONTHLY METEOROLOGICAL REGISTER AT H. M. MAGNETICAL OBSERVATORY, TORONTO, C. W.,—FEBRUARY, 1849.

Latitude 43°. 39′.4. *N. Longitude* 79°. 21′.5. *W. Elevation above Lake Ontario,* 108 *Feet.*—(*For the Brit. Amer. Jour. of Med. and Phys. Science.*)

Day.	Barometer at Temp. of 32°. 7 A.M.	3 P.M.	10 P.M.	Mean of 24 h.	Temperature of the Air. 7 A.M.	3 P.M.	10 P.M.	Mean of 24h	Tension of Vapour. 7 A.M.	3 P.M.	10 P.M.	Mean of 24h	Humidity of the Air. 7 A.M.	3 P.M.	10 P.M.	Mean of 24h	Wind. 7 A.M.	3 P.M.	10 P.M.	Snow in. on surf.	Weather.
1,	29.339	29.507	29.633	29.486	26.8°	30.9°	26.4°	28.2	.132	.114	.096	.112	.89	.64	.65	.71	Calm.	W. N. W.	W.	4.2	Snowing till 7 a.m. Overcast all day
2,	29.400	29.439	29.441	29.436	29.2	32.8	30.4	30.3	.113	.155	.134	.132	.69	.83	.79	.78	W.S.W.	W.	W. by S.	0.2	Partially cl'ded. Sl't snow at 9 & 10 am
3,	29.788	29.840	29.764	29.782	19.4	23.1	16.6	20.4	.090	.066	.072	.087	.82	.52	.74	.77	N. W.	Calm.	W. S. W.	—	O'ct most of day Halo round m'n at 6 pm
4,	29.636	29.549	—	—	26.8	34.0	—	—	.120	.167	—	—	.80	.90	—	—	W. by S.	S.W.by W	——	—	Clear a.m. Partially clouded p.m
5,	29.633	29.650	29.588	29.614	16.0	19.6	14.2	16.5	.079	.079	.047	.071	.88	.72	.52	.71	N. by E.	N.	N. N. E.	—	Part'ly clo'd a.m & p.m Day cl'r & fine
6,	29.345	29.265	29.426	29.349	25.4	30.6	20.1	25.2	.104	.122	.080	.102	.74	.71	.72	.73	S.W.byW	W. S. W.	N.W.byN.	0.2	Cl'd till 6 pm. Cl'ds break'g 7 pm. Sn'g 3 to 6 pm
7,	29.785	29.946	29.907	29.881	10.8	15.5	7.0	11.8	.057	.070	.037	.051	.76	.75	.58	.63	N by W	N. by W.	Calm.	1.5	Generally clr, a few light pas. cl'ds Fine
8,	29.653	29.206	29.102	29.338	20.6	26.0	28.3	24.4	.085	.103	.092	.090	.79	.72	.58	.67	S. S. W.	S. W.	W.	—	Densely cl'ded, snow'g slig'tly 1 to 4 pm
9,	29.368	29.544	29.686	29.522	15.8	16.8	15.4	16.1	.069	.057	.060	.061	.70	.57	.64	.63	W. by N.	N. W.	W. by S.	1.5	Part'ly cl'd till 5 pm, Dens. cl'd remainder
10,	29.735	29.518	29.260	29.503	11.8	23.8	31.4	22.4	.051	.079	.123	.088	.67	.61	.70	.69	Calm.	S. by W.	S.W.by W	—	Cl'd all day, Sl'ht snow from 2 to 10 pm
11,	29.550	29.619	—	—	16.9	20.2	—	—	.061	.082	—	—	.62	.73	—	—	N. by W.	E.	——	0.5	Overcast all day.
12,	29.589	29.618	29.678	29.628	7.4	11.6	4.8	7.0	.045	.040	.034	.041	.77	.48	.58	.63	N.	N.W.byN.	Calm.	—	O'cst till 1 pm. Cl'r & uncl'd from 3 pm
13,	29.629	29.561	29.620	29.607	2.2	20.3	16.2	12 3	.021	.079	.053	.050	.69	.70	.53	.55	Calm.	Calm.	N.W.byN.	—	Partially clouded, Halo round sun 9 am. Auroral light 9 & 10 pm.
14,	29.705	29.714	29.702	29.701	8.6	8.1	8.1	3.1									W.	N. N. W.	Calm.	0.8	Gen'lly clou'd. Snowing from 1 to 6 pm
15,	29.593	29.603	29.622	29.606	1.6	6.0	1.4	2.7									W.	W. S. W.	Calm.	0.5	Partially clouded, Clear from 9 pm.
16,	29.633	29.625	29.667	29.639	6.8	11.4	6.0	3.3									Calm.	Calm.	N. by W.	—	Densely cl'd, Snow. from 3h 30m pm to midnight, Auro. arch 11½ pm to 1 am
17,	29.701	29.686	29.761	29.711	0.7	11.7	9.0	7.0									N. by W.	N. by E.	N.E.byN.	1.5	Cl'd, Snow. moderately from 1 to 9 pm
18,	29.915	29.956	—	—	5.2	13.3	—	—			—	—			—		N. by E.	Calm.	——	6.0	Passing cl'ds am, Uncl'd pm, Faint aur. light 11 and 12 pm
19,	30.256	30.284	30.187	30.236	4.6	9.6	7.9	4.2									Calm.	Calm.	Calm.	—	Gen cl'r, Pass cl'ds, Aur l't 9 to midni't
20,	30.061	30.010	30.070	30.050	11.4	19.7	20.4	16.8	.070	.106	.108	.092	.94	.96	.95	.92	Calm.	N. E.	N.E.	0.2	Cl'd all day. Snowing sli't most of day
21,	30.107	30.078	30.074	30.087	21.2	31.4	31.0	27.5	.110	.153	.160	.138	.96	.87	.93	.90	E. N. E.	E. by N.	N. E. by E	2.0	O'vercast, dense clouds, and haze all day
22,	30.046	30.018	30.041	30.030	31.4	31.4	28.6	30.3	.160	.164	.138	.154	.86	.94	.88	.91	E. N. E.	E. N. E	N. E. by E	—	Cl'd till 9 pm, Clear 10 and 11 pm
23,	30.099	30.066	30.008	30.053	29.0	34.4	32.6	32.0	.137	.164	.175	.157	.90	.82	.95	.87	Calm.	Calm.	Calm.	—	Gen o'rcast, a few cl'r spaces 1 & 2 pm
24,	29.850	29.575	29.491	29.644	31.4	34.9	33.2	33.0	.169	.181	.101	.175	.86	.90	.96	.94	Calm.	E.	Calm.	—	Cl'd all day, Snowing 2 to 3 pm, Raining 3 to 10 pm
25,	29.648	29.806	—	—	35.2	35.4	—	—	.177	.206	—	—	.87	.100	—	—	N. by W.	N.	——	0.1	Cl'd, Slight snow am, Spitting rain pm
26,	30.029	30.052	30.067	30.049	34.4	36.0	34.1	34.9	.156	.176	.171	.170	.78	.83	.88	.84	E. by N.	E.	E.	—	Cl'd till 2 pm, remdr. cl'r, Aur l't 11 pm
27,	30.136	30.158	30.135	30.133	32.5	34.5	34.8	33.9	.174	.177	.171	.172	.95	.90	.85	.89	E. N. E.	E. N. E.	E. N. E.	—	Gen cl'd, Aur l't in N. at 11 pm
28,	30.131	29.985	29.900	30.013	33.6	40.6	36.1	36.5	.177	.202	.191	.187	.93	.81	.90	.87	Calm.	E.	Calm.	—	Gen cl'd, Slight spitting rain from 3 pm
Mean	29.775	29.748	29.743	29.7540	17.1	23.4	19.9	19.99	.105	.120	0.112	0.112	.80	.75	.76	.77	5.95 miles	7.65 miles	6.14 miles.	19.2	

Highest Barometer, 30.332 on 19th, at 10 a.m } Monthly
Lowest do. 29.102 on 8th, at 10 p.m } Range 1.230
Highest Temperature, 40°.6 on 28th, at 3 p.m. } Monthly
Lowest do. .. 9°.8 on 15th, at 8 a.m. } Range 50.4
Mean Max. Therm., 23.92—Mean Min. Therm., 12.90.
Mean Daily Range, .. 11°.02
Extreme Daily Range, 24°.1 from am to 2 pm, on 13th
Mean Temperature, 6 a.m, 16°.85, } Diurnal Variation, 6°.51.
" " 3 p.m. 23°.36, }

Proportion of Wind from each Quarter--
From N. 1624.4 miles.
W. 1652.9 "
S. 923.9 "
E. 1053.7 "
Mean velocity of the Wind, 6.58 miles per hour.
Maximum velocity, 21.1 miles from 9 to 10 pm, on 8th
Most Windy Day, 8th.—Mean veloc per hour, 14. 19 miles
Least do. 23rd, " " 0.83
Mean Velocity, 2 p.m. 8.65 miles, } Diurnal Variation,
" " 7 p.m. 5.20 miles, } 3.45 miles.

Temperature for February.

Year.	Mean.	Max.	Min.	Range.	Rain. No. Days.	Rain. Inches.	Wind. Winds.	Wind. Calms	Wind. Mean force.	Snow. Days.	Snow. 1 inch.
1840, ...	28.3°	50.3°	10.5°	69.8°	S	1.475				6	
1841, ...	23.2	44.1	1.3	45.4	1	Inapplic	198	90	0.61	9	
1842, ...	27.9	50.2	2.9	47.3	8	3.625	198	90	1.03	9	
1843, ...	15.92	38.5	9.4	47.9	1	0.475	402	182	1.05	21	14.4
1844, ...	27.72	47.9	0.6	47.3	4	0.430	334	266	0.43	7	10.0
1845, ...	26.45	49.1	4.2	53.3	5	Imperf't	352	224	0.99	9	19.0
1846, ...	20.80	41.9	16.7	58.6	0	0.000	354	222	0.65	13	46.1
1847, ...	22.48	41.1	0.9	42.0	2	0.550	380	196	0.69	13	27.3
1848, ...	26.23	46.6	0.0	46.6	4	0.775	399	201	0.47	8	13.8
1849, ...	19.99	40.6	9.8	50.4	2	0.240	203	85	0.47	13	19.2

The means are deduced from six observations daily, viz: 6 a.m, and 2 and 10 p.m, and 7 a.m, and 3 and 11 p.m.
Rain in inches on surface—On 25th, 0.230; 26th, 0.010; Mean, 0.240.
Further explanatory notes will be found at the foot of all the Registers for 1845, 1846, and 1847.
No Magnetic Disturbances observed during the month of February.