MONTHLY METEOROLOGICAL REGISTER, AT H. M. MAGNETICAL OBSERVATORY, TORONTO, C. W.—MARCH, 1851.

Latitude 43°. 39'.4 N. Longitude, 79°. 21'.5 W. Elevation above Lake Ontario, 108 feet.—For the British American Medical and Physical Journal.

Day.	Barometer at Temp. of 32° 6 A. M.	2 P. M.	10 P. M.	MEAN.	Temperature of the Air. 6 A. M.	2 P. M.	10 P. M.	MEAN.	Tension of Vapour. 6 A. M.	2 P. M.	10 P. M.	MEAN.	Humidity of the Air. 6 A. M.	2 P. M.	10 P. M.	MEAN.	Wind. 6 A. M.	2 P. M.	10 P. M.	Ins. of Rain.	Weather.
1	29.674	29.498	29.408	29.553	20.8	31.8	33.2	26.2	0.095	0.128	0.174	0.122	.82	71	93	84	W S W	S S W	S S W	0.4	Genr'y overc't; snow'g fr 4 to 7.
2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NWb W	SW bW	W by S	·0.5	Densely overc't; slight snow pm.
3	29.683	29.682	29.702	29.704	13.1	21.7	23.9	22.2	.069	.085	.087	.087	.82	68	66	69	W N W	SW b W	S W	inappl	Day lightly clouded; night clear.
4	29.683	29.528	29.542	29.597	28.3	35.2	32.8	31.2	.149	.160	.175	.159	.96	78	95	91	SW bW	calm.	N N E	2.0	Overcast all day; slight snow.
5	29.708	29.544	29.340	29.511	25.4	28.2	33.4	29.6	.123	.150	.184	.155	.88	96	97	93	N N E	E S E	E b S	3.0	Sn'g till 4 a.m.; raining fr 7 p m.
6	29.584	29.695	29.881	29.776	27.6	31.8	23.8	26.3	.135	.116	.110	.114	.88	65	84	79	NWb W	W by N	W	0.120	Mostly clouded till 6 p.m; clear.
7	29.982	29.965	29.804	29.894	14.8	30.8	24.2	24.6	.076	.132	.117	.112	.84	77	88	82	W N W	S E by E	E		Light clouds a.m.; clear p.m.
8	29.668	29.486	29.644	29.572	22.0	27.2	24.0	26.6	.089	.148	.119	.135	.74	99	90	91	N E b E	N E b E	N N W	2.0	Clo'd all day; sn'wing fr 10 to 4.
9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NW bW	S S W	S W	0.4	Generally overcast.
10	29.695	29.784	29.722	29.713	29.4	35.4	30.8	31.9	.152	.144	.144	.144	.94	70	83	80	NW bN	W S W	S W b S	—	A few light detached clouds; fine
11	29.393	29.447	29.726	29.580	35.1	40.3	34.2	35.3	.154	.156	.180	.161	.75	62	92	73	SW b S	W	W N W	—	Over't light cl'ds till 2 p m; clear.
12	29.903	29.980	29.820	29.903	18.2	24.2	26.2	24.1	.073	.114	.129	.114	.70	87	82	84	N by E	S E	S E by E	02	Light cl'ds a.m; Cl'd & snowing.
13	29.639	29.717	29.811	29.752	29.6	37.4	30.5	32.2	.137	.155	.155	.153	.83	70	90	84	S S W	N by W	N E by E	0.2	Cl'ded all day · slight sn fr 4 to 8.
14	29.845	29.768	29.619	29.712	28.2	30.4	28.0	29.0	.129	.133	.152	.143	.82	79	99	89	E by S	E by S	calm	—	Light cl'ds till noon; cl'r and fine.
15	29.566	29.498	29.501	29.489	30.9	47.6	36.8	39.7	.159	.263	.213	.221	.93	80	94	90	Calm.	S E b E	calm	—	Mostly clear; light haze; fine.
16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	E by N	E by N	E by N	0.010	Overcast light haze, but fine.
17	29.328	29.279	29.415	29.354	33.5	33.6	33.0	33.8	.180	.181	.171	.177	.95	95	91	92	E N E	E N E	E by N	0.1	Slight rain a. m, day cl'd; snow.
18	29.471	29.480	29.522	29.502	33.4	39.0	31.6	33.4	.167	.170	.159	.159	.87	72	90	81	N N E	N	N by W	—	Overcast all day.
19	29.486	29.496	29.538	29.598	26.8	31.6	29.4	28.7	.132	.130	.141	.127	.89	73	87	80	N N W	N by W	N by W	—	Overcast all day.
20	29.609	29.453	29.550	29.522	27.6	40.0	35.2	33.8	.118	.126	.147	.134	.77	51	72	69	N N W	N	N	—	Gener'y overc't, a few cl'r spaces.
21	29.629	29.671	29.740	29.701	28.2	39.7	34.3	34.2	.138	.126	.163	.140	.89	51	82	74	N by E	N by W	N by W	—	Gener'y overc't; li't cl'ds & haze.
22	29.752	29.714	29.714	29.662	30.8	41.8	33.6	37.1	.139	.142	.139	.153	.80	54	72	70	N	E S E	E by N	—	Clear and uncl'ded; beauti'l day.
23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	N E b E	E S E	E by S	—	A. M clear; P. M overc't; fine.
24	29.407	29.421	29.611	29.529	30.9	51.0	36.4	39.9	.143	.172	.177	.169	.82	46	83	71	W	NW b N	N by W	—	Clear, and vey fine day.
25	29.816	29.922	29.890	29.887	27.5	35.2	27.8	30.9	.123	.151	.130	.131	.81	73	85	76	N by E	S E	E S E	—	Clear, and very fine day.
26	29.822	29.617	29.588	29.640	30.2	47.0	41.4	42.8	.145	.184	.209	.199	.86	58	81	73	E by N	S E by E	Calm	—	Zenight cl'r; haze round horizon
27	29.579	29.411	29.345	29.440	40.0	57.7	54.5	52.3	.224	.297	.320	.295	.92	61	77	77	Calm.	S W	SW bW	—	Overcast; dense haze; gloomy.
28	29.595	29.895	29.984	29.886	39.2	41.8	28.6	34.2	.216	.142	.140	.157	.91	54	89	80	W N W	N N W	E N E	—	Light clouds till 10 a.m.; fine.
29	29.964	29.840	29.737	29.785	29.4	46.4	42.6	43.5	.140	.201	.174	.221	.85	65	65	75	N E b E	S E by E	E	—	Clear and fine day.
30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	N E b E	S W b S	S W	—	Unclouded; very fine day.
31	29.651	29.912	29.988	29.904	46.8	42.6	33.0	38.0	.314	.231	.177	.208	.99	87	90	90	W N W	N by W	NW b N	—	Light clouds till noon; fine.
—	29.668	29.642	29.659	29.6567	28.8	37.3	32.5	33.14	0.143	0.159	0.161	0.157	.86	71	85	81	8.38	10.33	6.42	8.8	

Highest Barometer,.....30.078 at 10 a.m. on 12th
Lowest do. .....29.279 at noon on 17th } Monthly Range 0.799
Highest obs. Temperature.... 59 3 at 4 p.m on the 27th
Lowest do. do .... 1.20 at 10 a. m. on 3rd } Monthly Range 47.3
Mean Max. Therm, 39.15
Mean Min. do. 26.18 } Mean Daily Range..12.98
Greatest Daily range.....25.7 from noon to 8 a.m. of 12th
Warmest Day, 27th.—Mean Temperature, 52.26
Coldest Day, 3rd.—Do do 22.16 } Difference 30.10
Warmest hour, 2 p m.—Mean temperature, 37.32
Coldest hour, 6 a.m.— do do 28.76
Mean Diurnal Variation..... 8 56

Sum of the Atmospheric Currents in miles resolved into the fo r Cardinal directions.

North,	West	South	East
2438.2	2099.4	1099.9	1584 8

Mean velocity of the wind, 7.65 miles per hour.
Greatest velocity, 23.3 miles from 1 to 2, P.M. on the 18th
Most Windy day, 18th: mean velocity per hour, 15.31 miles
Least do. 26th, do. do. 2.26 miles
Most Windy hour, 2 p.m. mean velocity, 10.33 miles per do.
Least do. midnight do. 5.58 do.
Mean diurnal variation, 4.75 miles per hour.
Ice totally gone from Toronto Bay on the 24th; frogs heard 26th

Year	Temperature. Mean	Max.	Min.	Range.	Rain. No of days	Inches	Snow. Days.	Inches.
1841..	28.20	54 6	6.7	61 3	5	1.170	7	--
1842..	36.39	70.3	15.1	55.2	4	3.150	8	--
1843..	22.36	37.9	2.5	42.4	2	0.625	18	25.7
1844..	31.83	50.8	9.6	41.2	8	2.470	8	14 0
1845..	55 63	59.8	6.6	53.2	5	imprl't	8	2.8
1846..	33.43	49.6	7.8	41.8	9	1.965	5	2.3
1847..	26 25	43.9	5.4	38.5	5	0.850	6	4.1
1848..	28.63	61 6	0.0	61.6	5	1.220	6	9.7
1849..	33.24	53.0	15.1	37.9	7	15.25	2	2.3
1850..	29.73	46.5	7.2	39 3	2	0.745	7	1.1
1851..	33.14	59.3	12.9	47.3	3	0.770	9	8