MONTHLY METEOROLOGICAL REGISTER AT H.M. MAGNETICAL OBSERVATORY, TORONTO, C.W.—NOVEMBER, 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°				Temperature of the Air.				Tension of Vapour.				Humidity of Air.				Wind.			Ins. of Snow or Rain	Weather.
	6 a.m.	2 p.m.	10 p.m.	Mean.	6 a.m.	2 p.m.	10 p.m	Mean.	6 a.m.	2 p.m.	10 p.m	Mean.	6 a.m.	2 p.m.	10 p.m	Mean.	6 a.m.	2 p.m.	10 p.m.		
1	29.595	29.459	29.216	29.399	40,4	45,0	47,2	44,42	0.221	0.270	0.300	0.263	.89	.91	.93	.90	Calm	E N N	E N E	0.415	Den o'st; lt'g&th8pm; rg fr9pm
2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	S W	W S W	W by S	Inapp	C'sed r'ng 10 am; mostly cl'd
3	.159	.254	.378	.277	36,6	37,8	33,4	35,82	.196	.173	.180	.182	.91	.77	.95	.87	W by N	NW	W N W	*	Cl'd; Snow at 10 pm & dur n't
4	422	429	482	452	30,4	34,7	31,6	31,82	152	150	162	149	90	74	92	84	N W	N W	W	—	O'rc till 2 pm; rem most cl'r
5	511	563	700	598	24,0	34,1	27,3	28,72	111	160	133	139	84	80	87	87	Calm	NWbyN	N W	—	Dense cl'ds disp; mostly cl'r
6	338	782	801	799	26,4	35,4	33,6	31,50	133	155	166	155	94	74	86	87	Calm	S by W	Calm	—	Gen clear; detach pass cl'ds
7	740	609	674	676	31,4	42,0	36,4	37,37	153	211	192	184	87	80	90	83	S W	S S W	S W	—	Cl'd till 2 pm; rem most cl'r
8	721	615	741	700	35,2	47,0	35,6	38,52	169	184	178	188	83	58	86	81	Calm	W by S	N W b W	—	Cl'd till 4 pm; even & n't fine
9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Calm	E by S	N E	*	Gen o'erc; slight snow dur n't
10	.789	.928	30.080	.955	31,2	33,8	31,0	31,73	.158	.167	.140	.160	.91	.87	.81	.85	N by E	N	N N W	—	Mostly cl'd; dense det masses
11	30.291	30.382	393	30.368	20,8	29,4	22,6	24,08	108	154	094	111	91	95	76	83	N by E	E by S	Calm	—	Clear, save a few light clouds
12	357	201	063	191	23,2	34,8	32,8	30,70	109	149	163	141	85	73	88	81	Calm	E N E	N by W	—	Densely overcast all day
13	020	29.951	29.860	29.934	32.4	31,6	31,0	31,57	161	177	105	149	90	1.00	60	84	N E	E by N	N E by E	—	Densely overcast; dull
14	29.643	398	282	431	32,4	30,2	32,6	31,98	159	158	180	165	87	94	93	92	E	E N E	N E by N	0,320	R'n & sl't 9 am, ceas 10.40 pm
15	183	209	529	333	31,9	36,6	31,2	32,73	166	189	165	171	93	83	95	93	Calm	N W	N W b W	—	Gen cl'd, ft aur light fr 8 pm
16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Calm	E	S E by E	*	Densely o'erc, snow from4 pm
17	.620	.712	.800	.720	31,6	37,3	27,9	31,88	.156	.199	.152	.161	.88	.90	.99	.91	Calm	N W b W	Calm	*	O'erc, faint aur l't 9 pm, snow
18	821	777	802	800	29,0	36,1	27,4	30,50	135	153	116	139	84	73	78	81	W	W S W	Calm	—	Am clouded, aftern most clear
19	799	819	828	817	29,0	35,6	31,9	32,05	145	164	143	151	91	79	82	84	Calm	Calm	E by N	—	Light det cl'ds gen dispersed
20	735	519	306	500	34,0	36,4	37,0	36,25	171	192	201	191	88	96	92	89	N E	E by S	E	2,770	Constant rain from 1 pm
21	098	28.965	28.991	022	39,8	40,8	35,2	38,37	219	227	199	211	90	90	97	91	E	S by W	W S W	0,030	Sl't rain till noon, o'rc all day
22	206	29.352	29.520	379	34,4	31,4	29,7	31,08	181	146	142	151	92	82	87	89	W by S	W by S	W S W	*	Overcast, slight snow fr 3 pm
23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	W N W	W by S	N W b W	*	Dens o'rc, slight snow dur n't
24	.665	.737	.762	.736	23,8	32,2	30,0	28,38	.115	.143	.146	.135	.87	.79	.87	.86	Calm	W	W S W	—	Dense det clouds dispersed
25	763	487	291	487	29,4	32,4	27,8	29,63	160	169	139	149	93	92	89	90	Calm	E S E	N E by N	*	Snowing const from 3.30 pm
26	445	671	842	669	20,8	35,7	26,2	26,62	101	140	120	117	87	68	83	78	Calm	W S W	Calm	—	Ceas snow 1 am, day most cl'r
27	879	697	504	675	29,4	37,8	35,2	34,05	165	179	194	177	1.00	79	95	91	Calm	S E b S	E by S	0,350	O'rc, dull & gloomy, r'ng 8 pm
28	264	171	295	260	37,8	36,2	32,6	35,27	199	136	145	167	83	61	73	81	Calm	W by S	S W b W	*	Dens o'rc, slight snow at 4 pm
29	531	589	691	619	34,0	37,0	33,0	34,97	161	181	149	169	82	80	79	78	W S W	W S W	W S W	—	Overcast, hazy, very dull
30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	W by N	NW	N by W	—	Clear, save a few light clouds
M	29,643	29.611	29.633	296320	31.17	35.66	32.03	32,80	0.156	0 174	0.160	0.163	.89	.82	.87	.86	2.66	7.38	4.38	3.885	14th, The Rain frose as it fell: 26th, Sleighing, first of season

Highest obs. Barometer, 30,416, at midn't on 11th } Monthly
Lowest " 28,965, at 2 p.m. on 21st } Range 1.451
Highest obs. Temperature, 50.2, at 3 p.m. on 2nd } Monthly
Lowest do. do 13.8, at 7 a.m. on 26th } Range, 36,4
Mean high. obs. Tem. 36,75 } Mean Daily
Mean Min. Ther. 27.17 } Range 9.58
Greatest Daily range 22,8 from 2 p.m. of 8th to a.m. of 9th
Warmest Day, 1st.—Mean Temperature, 44,42 } Differ. 20.34
Coldest Day, 11th.—Mean Temperature, 24,08

* Snow on 3d, 0.3; 9th, inapp.; 16th, 1.2; 17th, 0.1; 22d, 0.1: 23d, 0.3; 25th, 4.7; 28th, inapp.—Total, 6.7.

Sum of the Atmospheric Current, in Miles resolved into the four Cardinal directions.

North	West	South	East
1077.87	1687,45	503,05	991.18

Mean velocity of the wind, 4.70 miles per hour.
Max. vel. 18.2 miles per hour, 9m noon to 1 p.m. on 7th
Most windy day, 2nd, mean velocity per hour, 9.57
Least do 26th, do do 1.00
Most windy hour, 3 p.m. do do 8.11
Least do 8 a.m. do do 2.55
Mean Diurnal Variation, 5.56 miles.

Year	Temperature. Mean	Max.	Min.	Range	Rain. Days	Ins	Snow. Days	Ins
1840	36.00	66.3	19.0	37.8	5	1.220	8	—
1841	35.40	63.8	8.5	55.3	8	2.450	5	—
1842	33.20	56.8	8.1	48.7	9	5.310	10	—
1843	33.25	62.6	14.1	48.5	10	4.765	7	1.2
1844	31.92	56.0	12.1	43.9	8	imp	14	8.0
1845	36.45	69.5	7.6	61.9	7	1.105	4	5.0
1846	40.82	55.7	18.0	37.7	12	5.805	2	0.4
1847	33.04	57.9	8.4	49.5	14	3.155	3	Inapp
1848	33.61	49.0	16 9	33.1	9	2.020	3	1.4
1849	41.87	66.4	24.2	42.2	10	2.815	2	1.0
1850	35.77	62.8	11.0	51.8	7	2,955	1	Inapp
1851	32.80	50.2	13.8	36.4	5	3.885	6	6.7