MONTHLY METEOROLOGICAL REGISTER, at H. M. Magnetical Observatory, Toronto. C. W.—November, 1851.

Latitude, 43 deg. 39.4 min. N. Longitude, 79 deg. 21.5 min. W. Elevation above Lake Ontario, 108 feet.

Day.	Barom. at tem. of 32 deg. 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 Air 6 AM	2PM	10	Mn.	Wind 6,A.M.	2,P.M.	10,P.M.	Rn. or Sn. in	Weather.
1	29.595	29.459	29.216	29 339	40.4	45.0	47.2	44.42	0 221	0.276	0.300	0.263	89	91	93	90	Calm	ENE	ENE	0.415	Overcast; thun and light. 8p.m., rn. at 9.
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	SW	WSW	W b S	Inapp	Ceased rain at 10 a.m. Day mostly clouded
3	155	254	378	277	36.6	37.8	23.4	35 82	196	173	180	182	91	77	95	87	W b N	NW	WNW	0.3	Clouded. Slight snow 10 p.m.and all night
4	422	429	482	452	30.4	34.7	31 6	31.82	152	150	162	149	90	74	92	84	NW	"	W	.....	Overcast till 2 p m. remainder mostly clr.
5	511	563	700	598	24.0	34 1	27.8	28.72	114	160	133	139	81	86	87	87	Calm	NW b N	NW	.....	Dense clouds dispersed; mostly clear.
6	838	782	801	799	26.4	35.4	33 6	31.50	138	155	166	155	94	74	81	85	"	S b W	Calm	.....	Generally clear, detached passing clouds
7	740	609	674	676	31.4	42.0	36 4	37 37	153	211	192	184	87	81	90	85	SW	SSW	SW	.....	Clouded till 2 p m.; rem. of day mostly clr.
8	721	615	741	700	35.2	47 0	35 6	38.52	169	184	178	188	83	58	86	84	Calm	W b S	NW b W	..	Clouded till 4 p.m.; evening clear and fine
9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	"	E b S	NE	Inapp.	Generally overcast; slight snow dur'g.night
10	789	928	30.680	955	31.2	33 8	31 0	31.73	158	167	140	151	91	87	81	85	N b E	N	NNW	....	Clouded; dense masses with clear spaces
11	30.291	30.382	393	30.368	20.8	29 4	22.6	24 08	108	154	094	111	94	95	76	83	"	E b S	Calm	.	Clear, save few light clouds round horizon.
12	357	261	063	194	23.2	34 8	32 8	30 70	109	149	163	141	85	73	88	81	Calm	ENE	N b W	....	Densely overcast all day.
13	020	29.954	29.850	29 934	32.4	31 6	31 0	31.57	164	177	1 5	149	90	100	60	84	N E	E b N	NE b E	....	Densely overcast; dull
14	29.643	398	282	441	32.4	30 2	34 6	31 98	159	158	180	165	87	94	98	92	E	ENE	NE b N	0 320	Rain and sleet from 9 a m. Ceased 10 p.m.
15	183	269	529	333	31.9	36 6	31 2	32 73	166	189	165	171	93	88	95	93	Calm	NW	NW b W	....	Clouded, faint auroral light from 8 p.m.
16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	"	E	SE b E	1 2	Densely overcast; snowing from 4 p m.
17	620	712	800	720	31.6	37.3	27 9	31.88	156	159	152	164	88	91	99	91	"	NW b W	Calm	0.1	Overcast; aur light9p.m.; snow during ngt.
18	821	777	802	800	29 0	36 1	27 4	30.50	135	153	118	139	81	74	78	81	W	WSW	"	.	Morning clouded; afternoon mostly clear
19	799	819	828	817	29 0	35.6	31 9	32 05	145	164	148	151	91	79	82	84	Calm	Calm	E b N	.....	Light detached clouds, generally dispersed.
20	735	519	366	500	34.0	36 4	37 0	36 23	171	192	201	191	88	90	92	89	N E	E b S	E	2.770	Constant rain from 1 p m., contin. all night
21	098	28.965	28 941	022	39 8	40.8	35 2	38 37	219	227	199	211	90	90	97	91	E	S b W	WSW	0.030	Slight rain till noon; overcast all day.
22	206	29.352	29.520	379	34.4	31 4	29 7	31 08	181	146	142	156	94	82	87	89	W b S	W b S	"	0 1	Overcast; slight snow from 3 p m.
23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	WNW	"	NW b W	0.3	Densely overcast; slight snow dur'g. night.
24	655	737	762	736	23 8	32.2	30 0	28 38	115	143	146	135	87	79	87	86	Calm	W	WSW	....	Dense detached clouds, dispersed.
25	763	487	291	487	25.4	32 4	27 8	29 63	160	169	159	149	98	92	89	90	"	E SE	NE b N	4 7	Snowing constantly from 3-30 p m.
26	445	671	842	669	20.8	35 7	26.2	26 62	101	140	120	117	87	68	83	78	"	WSW	Calm	. .	Ceased snowing 1 a m, day mostly clear
27	879	697	564	675	29.4	37 8	35 2	34 05	165	179	194	177	100	79	93	91	"	SE b S	E b S	0 350	Overcast, commenced raining 8 p.m.
28	264	171	295	260	37 8	36.2	32 6	35 27	199	156	148	167	88	63	78	81	"	W b S	SW b W	Inapp	Densely overcast; slight snow at 4 p.m.
29	531	589	691	619	34 0	37.0	33 0	34 97	161	181	149	159	82	80	79	78	WSW	WSW	WSW	....	Overcast, hazy; very dull.
30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	W b N	NW	N b W	..	Few light clouds round horizon; fine.
M	29 643	29 611	29.633	29 6320	31 17	35 65	32 03	32 80	0 156	0 174	0 160	0 163	89	82	87	86	2 66 m.	7 82 m	4.35 m	3,85	The rain on the 14th froze as it fell. Sleighing in Toronto on the 26th.—the first of the season.

Highest Barometer.... .30.416, at midnt. on 11th } Monthly range:
Lowest Barometer.... ..28.965, at 2 p m. on 21st } 1 451 inch.

Highest obser temperature 50.2, at 3 p.m. on 2nd } Monthly range:
Lowest " " 13 8, at 7 a m. on 26th } 36.4

Mean highest observed temp. 36.75 } Mean daily range
Mean minimum Ther. 27 17 } 9.58.

Greatest daily range, 22 8, from 2 p m. on 8th to a.m. on 9th.

Warmest day, 1st. Mean temperature, 44.42 } Difference,
Coldest day, 11th. Mean temperature, 24 08 } 20.34.

Sum of the Atmospheric Current, in miles, resolved into the four Cardinal directions:

North	West.	South.	East.
1677 87	1687.45	503.05	991.18

Mean velocity of the wind—4.70 miles per hour.
Max. velocity—18.2 miles, from noon to 1 p m on 7th.
Most windy day—2nd: mean velocity—9 57m. per hr.
Least windy day—26th: mean velocity—1.00 ditto.
Most windy hour—3 p.m: mean veloc.—8 11 ditto.
Least windy hour—8 a m.: do. —2.55 ditto.
Mean diurnal variation—5.66 miles.

Year	Temperature Mean	Max	Min.	Range	Rain. Days.	Inches	Snow. Days	Inches
1840	36 40	56 8	19 0	37 8	5	1,220	8	
1841	35.40	63 8	8 5	55.3	8	2.450	5	
1842	33.40	56 8	8 1	48 7	9	5.310	10	
1844	33 25	52.6	14 1	39 5	10	4 765	7	1.2
1844	34 92	56.0	12 1	43.9	8	Imp.	4	8.0
1845	36.45	59 5	7 6	51 9	7	1.165	4	5.0
1846	40.82	55 7	18 0	37.7	12	5.805	2	0.4
1847	38.04	57 9	8.1	49.5	14	3.155	3	Inapp.
1848	33.61	49 0	15 9	33.1	9	2.020	3	1.4
1849	41.87	56 4	24.2	32 2	10	2 815	2	1.0
1850	34.77	62 8	11.0	51.8	7	2 955	1	Inapp.
1851	33.61	50 2	12.0	38.2	8	3 885	6	6.7