

MONTHLY METEOROLOGICAL REGISTER, AT H. M. MAGNETICAL OBSERVATORY, TORONTO, C. W.—APRIL, 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 the Air.				Wind.			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.	6 A.M.	2 P.M.	10 P.M.	10 P.M.		
1	30.037	29.976	29.860	29.906	38.0	40.10	0.149	0.288	0.910	0.217	95	95	96	87	N N W	S E by E	E by N	0.145	Gen. clear: light clouds; rain at nt		
2	30.578	29.348	29.416	29.412	47.0	43.63	0.227	0.306	0.185	0.219	93	93	85	85	W S W	E S E	N W	0.125	Rain till noon; clearing up p. m.		
3	30.376	29.395	29.521	29.465	35.0	33.5	0.232	0.143	0.141	0.170	92	92	72	72	W S W	N W	N W	—	Day cloudy, n. clear; faint aurora.		
4	29.618	29.653	29.575	29.615	46.8	36.3	0.198	0.164	0.163	0.162	75	75	80	80	E N E	S E by E	N E	—	O'cast; all day; s. n. p. m. to 2 a. m.		
5	29.625	29.853	29.169	29.407	33.1	37.8	0.171	0.221	0.260	0.193	91	98	92	92	S by W	S A W	N E	0.650	O'cast; r. from 1; light & thum at 10		
6	29.824	29.830	29.926	29.681	30.8	42.3	0.162	0.195	0.185	0.165	74	77	88	88	N by E	S A W	N E	—	Clouded all day.		
7	29.258	29.226	29.436	29.316	45.4	37.0	0.256	0.341	0.169	0.230	86	90	78	83	N N E	S W by S	E by N	0.430	Rain 10 a. m. to 4 p. m.; clear to 10		
8	29.840	29.824	29.649	29.764	30.3	44.8	0.134	0.171	0.217	0.180	79	84	72	74	W by S	S E	N W	—	Few passing clouds; very fine day		
9	29.861	29.808	29.108	29.401	34.3	43.4	0.156	0.186	0.145	0.169	78	68	76	76	W by N	N E	N E	—	Gen. clear; detached clouds; fine.		
10	29.860	29.806	29.266	29.298	27.8	36.2	0.115	0.139	0.110	0.124	66	66	66	68	W by E	N W by W	N E	—	O'cast, a. m.; clear from 4.		
11	30.186	30.206	30.067	30.143	32.2	34.23	0.106	0.139	0.142	0.135	66	66	68	69	N by E	E N E	E N E	—	Zen. clear; few clouds r. horizon		
12	30.237	30.194	30.037	30.143	36.9	33.2	0.107	0.305	0.192	0.185	57	85	90	76	N by E	N W	N W	0.050	O'cast, and haze; halo from midnigt		
13	29.602	29.460	29.532	29.525	33.0	50.3	0.160	0.309	0.227	0.203	73	73	82	82	E by N	S E	N E	0.050	O'cast till noon; r. n. s. p. m. to mt		
14	29.638	29.530	29.546	29.545	31.6	44.2	0.219	0.243	0.221	0.205	84	75	66	81	E by N	N E	N E	—	Sn. till 2 a. m.; v. alt. r. from 6 p. m.		
15	29.482	29.463	29.450	29.467	41.7	47.7	0.223	0.223	0.213	0.209	70	74	86	78	N N E	S E by E	N E	—	Overcast all day; very dull.		
16	29.495	29.420	29.441	29.376	43.9	45.8	0.195	0.185	0.239	0.219	83	71	97	80	E by N	N E	N E	0.005	Generally clear; light cluds, detach		
17	29.495	29.420	29.441	29.376	43.9	45.8	0.195	0.185	0.239	0.219	83	71	97	80	E by N	N E	N E	—	Generally clear; hazy round horizon		
18	29.146	29.084	29.215	29.210	39.0	40.4	0.159	0.166	0.156	0.156	55	55	66	61	N by W	N W	N W	0.505	Densely o'cast; rain all day, & light		
19	29.471	29.467	29.509	29.489	37.0	47.0	0.168	0.156	0.210	0.210	76	59	66	71	N by W	N W	N W	0.030	Silt, r. a. m. & from mt. till 4 a. m.		
20	29.639	29.622	29.609	29.564	37.3	54.8	0.168	0.348	0.156	0.210	76	59	66	71	N by W	N W	N W	—	L. d. detached clouds; mostly clear		
21	29.612	29.468	29.421	29.463	37.4	45.2	0.173	0.264	0.254	0.266	89	62	75	61	N by W	S E	N E	—	Clear, very fine day.		
22	29.363	29.353	29.423	29.400	42.6	54.7	0.208	0.234	0.231	0.262	89	55	91	74	N by W	S by S	N W	—	Few light clouds; clear at night		
23	29.363	29.353	29.423	29.400	42.6	54.7	0.208	0.234	0.231	0.262	89	55	91	74	N by W	S by S	N W	—	Lt clouds gen; drops rain at 10 p m		
24	29.363	29.353	29.423	29.400	42.6	54.7	0.208	0.234	0.231	0.262	89	55	91	74	N by W	S by S	N W	—	Very sit, rain, a. m.; o'cast all day		
25	29.363	29.353	29.423	29.400	42.6	54.7	0.208	0.234	0.231	0.262	89	55	91	74	N by W	S by S	N W	—	Mostly clear; f. aurora at 10 pm		
26	29.002	29.533	29.472	29.543	45.2	49.4	0.116	0.173	0.228	0.172	39	50	73	59	E by N	E by N	N E	0.440	Generally clear; rain dur. night		
27	29.618	29.655	29.738	29.688	41.8	41.9	0.294	0.900	0.171	0.200	85	53	65	70	N by W	N W	N W	—	Light clouds passing; brill meteor		
28	29.777	29.656	29.506	29.629	34.6	52.7	0.174	0.226	0.215	0.215	88	81	71	71	N by W	S E	N E	—	at 12 in NW by N; fall verticary.		
29	29.437	29.536	29.547	29.512	44.8	44.2	0.273	0.228	0.172	0.207	93	60	—	—	S E	S E	N E	—	—		
30	29.627	29.651	29.588	29.599	36.8	43.7	0.178	0.217	0.199	0.197	80	69	79	75	7.53	10.43	7.53	2.295	—		

Sum of the Atmospheric Currents in miles resolved into the four Cardinal directions.  
 Highest Barometer, ..... 30.307 at 8 a. m. on 12th } Monthly Range, 1.927  
 Lowest do, ..... 29.086 at noon on 19th } Monthly Range, 1.227  
 Highest obs. Temperature, ..... 59.3 at 4 p. m. on the 28th } Monthly Range 35.5  
 Lowest do, do ..... 25.8 at 4 a. m. on 11th } Monthly Range 33.5  
 Mean Max. Therm, ..... 47.27 } Mean Daily Range, 12.87  
 Mean Min. do, ..... 34.41 } Mean Daily Range, 12.87  
 Greatest Daily range, ..... 21.6 from 4 p. m. of 28th to a. m. of 29th  
 Warmest Day, 24th. — Mean Temperature, 50.23 } Difference 18.41  
 Coldest Day, 11th. — Do do do } Difference 31.81  
 Warmest hour, 2 p. m. — Mean Temperature, 46.70 }  
 Coldest hour, 6 a. m. — do do } Difference 36.86 }  
 Mean Diurnal Variation, ..... 9.64 }  
 West 1730.09 }  
 South 793.64 }  
 East 2235.13 }  
 Mean velocity of the wind, 8.07 miles per hour.  
 Greatest velocity, 22.4 miles from 1 to 2, P. M. on the 3rd  
 Most Windy day, 19th: mean velocity per hour, 14.73 miles  
 do, 23rd, do, 2.32 miles  
 do, 23rd, do, 5.68 do.  
 Mean diurnal variation, 4.71 miles per hour.