MONTHLY METEOROLOGICAL REGISTER, AT H. M. MAGNETICAL OBSERVATORY, TORONTO, C. W.—APRIL, 1850.

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.			Ins. of	Weather.
	7 A.M.	3 P.M.	10 P.M.	MEAN.	7 A.M.	3 P.M.	10 P.M.	MEAN.	7 A.M.	3 P.M.	10 P.M.	MEAN.	7 A.M.	3 P.M.	10 P.M.	MEAN.	7 A.M.	3 P.M.	10 P.M.	Rain.	
1	29.800	29 760	29.734	29.768	30.8	46.1	36.0	37.9	.138	.191	.186	.178	80	62	88	79	S E	E by S	E by N	—	Gen clear; a few lt clds dispersed
2	29.757	29 651	29 535	29.601	35 2	49 3	43.4	41.6	.188	.234	.217	.216	92	68	77	83	E N E	E by N	NE by N	Inaple.	Slt rain in mg; clouded till 3.
3	29.391	29 155	29 014	29 118	42.0	48.9	44.6	45.8	.215	.290	.265	.264	82	80	91	86	N N E	E N E	E N E	2 350	Constant rain all day.
4	28 864	29.001	29 247	29 091	41.9	45.6	37.0	40.9	.260	.272	.201	.236	99	90	92	92	E by N	W by N	N E	0 510	Slt rn till 8 pm; dnsly cld'd all dy
5	29 343	29 410	29.433	29.412	34.0	39.7	37.3	36.4	.180	.187	.180	.168	94	78	81	79	NE by N	E	NE by N	—	Gen clded; ft aur lt fr 9 pm to 1
6	29.503	29.494	29.506	29.486	34.9	42.1	36.8	38.3	.122	.173	.132	.151	60	65	60	65	N by E	S by W	N by W	—	Lt clds till 5; clear; brill aurora
7	29.547	29.457	—	—	42 0	49 3	—	—	.185	.184	—	—	71	73	—	—	N W by W	S S E	W	—	Lt clds disp; halo rd the ⊙ at 3
8	29.602	29 642	29.782	29.684	30.9	28.7	23.0	25.8	.132	.104	.078	.100	77	64	61	70	N W by W	N W by W	N W	—	Lt clds till 6; clear; ft aur 9 to 11
9	29.848	29 761	29.726	29.763	21.8	34.5	30 2	28.8	.057	.118	132	.113	47	59	78	70	W	S by E	S E by E	—	A few light clouds; hazy; fine
10	29.741	29 730	29.725	29.716	32.5	35.8	28.4	32.7	.139	.142	.126	.129	76	70	80	69	E	E by N	E N E	—	A few light clouds; hazy; fine
11	29.646	29 618	29 624	29.624	33.5	32 4	25.9	29 6	.105	.166	.135	.133	55	91	96	82	E by N	E	N	—	Clded till 7 pm; clear; snw 9 to 5
12	29 602	29.353	29 180	29.318	27.8	38 8	38.2	36.3	.146	.180	.204	.181	96	77	89	85	N by E	E	E	0 135	Mostly clded; rn fr 9 pm to 4 am
13	29.062	29.176	29.334	29.314	35 2	38.0	25.5	31.1	.160	.135	.098	.128	78	60	70	73	S W	W	W N W	—	Sn at 5 am; clded; h rd ⊙ 5 pm
14	29.462	29.562	—	—	28.1	32.2	—	—	.099	.117	—	—	63	65	—	—	W S W	W by N	W by S	—	Generally clouded
15	29.753	29.621	29.718	29 714	26.0	39.5	30.2	31.8	.107	.151	.145	123	74	64	86	68	W by N	S by W	N W	—	Gen clouded till 8 pm; clear
16	29.875	29 914	29.951	29 937	27.5	36.2	24.2	27.4	106	137	.085	102	70	64	64	67	W	N W	N N W	—	Gen clear; ft aur light at mnight
17	29.998	29 999	29 994	29 982	23.0	33.9	25.9	27.1	.062	.083	.092	084	52	47	64	57	N by E	N N W	N by W	—	Ft aur till 4 am: unclded; fine
18	30.078	29.965	29.880	29 932	27 9	35.7	31 2	39 6	.096	.144	.142	127	62	70	81	74	NE by N	E S E	E by S	—	Lt clouds and haze all day
19	29.760	29.660	29.740	29.706	33 2	49 3	34.7	40.0	.158	.178	.123	.157	83	51	60	64	N E	S E by S	N N W	—	A few lt clds; gen clear; fine
20	29.715	29.669	29 694	29.612	38 6	44.2	31.7	40.4	.129	.152	.140	.172	55	53	79	69	NE by N	E by S	E by S	—	Clded till noon; uncld but hazy
21	29.796	29.700	—	—	43.4	50.0	—	—	.260	.226	—	—	93	63	—	—	NE by N	E S E	E	0 700	Mostly clded; thunderstm mngt
22	29.323	29 197	29.352	29 320	44.4	56 7	50 7	50.3	.279	.380	.259	.307	96	83	71	83	E by S	S	W N W	0.075	Clded all day; distant thunder
23	29.569	29.736	29.912	29 779	39.3	38.3	30.0	35.0	.161	.131	.163	.138	67	57	97	69	W	S W by W	W N W	—	Lt clds till 5 pm; uncloudd
24	29.920	29.680	29.632	29.714	35 1	48.5	40.0	42.8	.134	.200	.174	.174	66	60	71	64	S W	S W by S	S W	—	Uncldd all day; hazy at 11
25	29.628	29.508	29.497	29 632	43.2	55.9	45 3	47.8	.217	.227	.169	.213	78	51	57	65	S W by S	S	S W by S	—	Generally clear; very fine
26	29.533	29.442	29.465	29 473	46.0	57 6	45.1	49.5	.231	304	.230	.253	75	66	77	73	Calm	S E by E	calm	—	Generally clear; very fine
27	29.487	29 409	29 550	29.332	47 5	59.2	47.2	53 1	.284	.369	.293	.332	88	75	91	85	E by S	S W by S	N by W	—	Mostly clear till 1 pm; clouded
28	29.638	29.434	—	—	42.5	44 2	—	—	.196	.232	—	—	73	81	—	—	E N E	E	E by N	0.760	Dnsly clded all day; const rain fr
29	28.905	29.270	29 518	29.318	47 8	48.2	37.6	43.7	230	195	.178	.206	97	58	79	73	S S W	W	calm	Inaple.	Clded till 6 am; clr fr 8pm (5 pm
30	28.631	29 352	29 292	29.451	42.7	52.6	58.0	49.2	.207	.243	.400	.265	76	62	85	75	W by N	E	W by N	0.190	Slt rn fr 6 to 8 am & fr 8 pm to mt
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3rd, Ice totally gone fr Tor Bay
No	29,586	29,542	29,578	29.5653	35 4	43.7	36 1	38 30	.167	.196	175	.179	76	66	78	74	5.43miles	10 90 mls	6.63miles	4 720	10th, Frogs heard first time

Highest Barometer,.....30.088 at 9 a.m. on 18th } Monthly
Lowest do. ....,....28.856 at 5 a.m. on 4th } Range, 1 232.
Highest obs. Temperature...65°7 at 1 p.m. on 27th } Monthly
Lowest do. do. ...18°0 at 6 a.m. on 9th } Range, 47.7.
Mean Max. Therm.....45.°86 } Mean Daily range,.....15.°90
Mean Min. do. .....29.°96 }
Greatest Daily range,.....26.°7 from 2 p.m. of 26th to 4 a.m. of 27th
Mean Temp. at 2 p.m.,.....44.°09 (warmest hour.)
Do. do. at 5 a.m.....32.°35 (coldest hour)

Diurnal Varintion.....11°.74

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

North	West	South	East.
1673.1,	2288 9,	1046 1,	1780 9.

Mean velocity, 7 64 miles per hour.
Maximum velocity. 25.0 miles from noon to 1 p m; on 29th
Most Windy day, 14th: mean velocity per hour, 13.08 miles
Least do. 26th, do. do. 2,37 miles
Most Windy hour, 2 p.m., mean velocity, 10,94 miles per hour
Least do. 6 a m., do. 4,69 do. do.
Diurnal variation, 6,25 miles per hour.

Year	Temperature. Mean	Max.	Min.	Range.	Rain. No. of days	Rain. Inches	Snow. Days.	Snow. Inches
1840..	42.70	68.7	22.8	45.9	14	3.420	2	..
1841..	39 40	61.8	19.9	41.9	3	1.370	3	..
1842..	43.40	69.8	20.1	49.7	8	3.740	2	..
1843..	41.20	71.6	14.7	56.9	7	3.185	3	0.1
1844..	48.11	74.6	14.9	59.7	10	1.615	1	Inaple
1845..	42.13	66.7	15.5	51.2	11	3.290	4	1.5
1846..	44 11	81.8	24.2	57.6	10	1.300	2	1.3
1847..	39.06	65.1	9.3	55.8	8	2.870	2	4.0
1848..	40.67	64.1	22.7	42.4	5	1.455	1	0.5
1849..	38.74	72 0	15.5	56.5	10	2.655	2	1.7
1850 ;	38.30	65.7	18.0	47.7	7	2.720	2	1.7