MONTHLY METEOROLOGICAL REGISTER, AT H. M. MAGNETICAL OBSERVATORY, TORONTO, C. W.—MAY, 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 Rain.	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.		
1	29.655	29 744	29.855	29.751	37 6	45.4	36.3	39.0	.144	174	.137	.167	64	58	64	67	W	W	W N W	—	nm lt clds; uncld'd fr 8 pm; h wd
2	29.932	29 862	29.832	29.884	38.5	53 8	38.0	42.3	.159	.223	.193	.186	69	55	85	70	W by N	W	W by N	—	Hr frost am; few lt clds; fine day
3	29.833	29.647	29.492	29 659	42.0	50 2	47.7	45.9	.206	.211	.185	.196	78	69	57	66	calm	E S E	E by N	—	Overcast; light clouds and haze
4	29.344	29.305	29.515	29.419	44.7	50.8	44.0	46.3	.251	.300	.191	.252	87	82	67	80	E by S	N N W	N	.060	Clded till 4 pm; sligt rn f noon to 3
5	29.416	29.305	—	—	43.0	43.7	—	—	.186	.252	—	—	68	90	—	—	N	E by S	S W by W	.080	Clouded all day
6	29.349	29.383	29 583	29.435	38.4	....	40.5	....	.208	....	.227	....	90	..	91	..	S W	W S W	Calm	—	Hoar frost am; clouded all day
7	29.628	29.619	29.490	29.593	44 4	53 6	44.2	46.6	.200	.295	.205	.236	69	73	72	74	calm	S	E	—	Uncl am; cld pm; ft aur midnt
8	29.479	29.399	29.360	29.413	46.0	54.1	48.6	49.4	.231	.325	.288	.295	91	79	81	84	E by S	S E by S	N N W	—	Gen clded; faint auroral lt 10 pm
9	29.341	29.323	29.390	29.352	42.4	48.5	36.0	41.7	.259	.261	169	.224	97	78	80	85	N W	W N W	N	.100	Mostly clear; aur lt N; rain
10	29.405	29.431	29.511	29.447	35.7	50.3	39.2	40.0	.180	.180	.160	.172	87	50	67	69	N	N by W	N W by W	—	Lt passing clds; sharp hr frost am
11	29.501	29.386	29.435	29.442	38.0	49.4	41.8	42.6	.152	.216	.188	.184	67	62	72	68	N W by W	S W by S	N W by W	—	Detach'd clds am; dusky cld pm
12	29.451	29.363	—	—	53.4	55.0	—	—	.223	.273	—	—	56	61	—	—	W by N	S	W by N	—	Lt passing clds; mostly cle
13	29.431	29.437	29.514	29.457	56.0	68.8	53.2	58.0	.229	316	.170	.241	52	46	43	52	W N W	S E by E	N by E	—	Mostly clear; hazy round horiz
14	29.581	29.505	29.473	29.521	50.0	56 4	47 4	50.8	.161	.264	.191	.202	45	59	60	51	E	E S E	E by N	—	Day cloudy; uncl 10 pm to midt
15	29.445	29.373	29.360	29 393	52.0	61.2	51.6	55.2	.284	.273	.301	.294	75	51	80	70	N N E	S E	N N E	—	Day cloudy; night clear and fine
16	29.329	29 187	29.104	29.213	51.2	66.8	52.4	56.7	.292	.299	.282	.290	71	46	73	66	N	S S E	N N W	—	Heavy dew am; clear; ngt clo
17	28.890	29.119	29.306	29 102	50.4	42 9	38 4	44.8	.321	.180	.163	.226	89	66	70	76	S E by E	N W	NW by W	—	Th & few drops rn am; clo; wd
18	29.410	29.462	29 491	29.451	41.9	54.4	41.2	44.8	.171	.166	.194	.177	65	40	75	62	W by N	N W by W	S W	Inaple.	Few lt passing clo; cold dry wd
19	29.449	29.285	—	—	42 2	53.6	—	—	.234	.255	—	—	70	63	—	—	W by N	S	S W	.270	Densely clouded all day
20	29.529	29.741	29.800	29 706	36 8	37.8	37.2	37.0	.146	.165	.176	.164	67	73	79	74	W	N W	NW by W	.005	Frost am; sn & slt 10 am to 4 pm
21	29.826	29.863	29.909	29.833	39.3	51.4	40.5	43.6	.206	.249	.222	.225	85	67	89	81	N W by N	N W	S E by S	—	Clouded all day
22	29 876	29 863	29.986	29 907	43 4	59.2	39.3	45.4	.240	.389	.209	.267	87	77	88	86	S E by S	E	Calm.	—	Lt clo am; cloudless & fine pm
23	29.999	29.896	29.912	29 938	48 0	56.8	50.4	51.3	.249	.286	.305	.281	76	65	85	76	E by S	S by W	Calm.	Inaple.	Hoar frost; lt clouds; fine day
24	29.821	29.799	29.784	29.808	59.7	56 8	55.0	57.9	.312	.350	.363	316	62	77	85	74	S by E	S E by E	S E by S	Inaple.	Clear am; clo & few drops rn pm
25	29 830	29.876	29.866	29.847	52 8	56 4	53.0	54.2	.321	.257	.265	.273	81	58	67	69	N E by E	N	N N W	Inaple.	Clear am; cloudy pm; slt rn 10
26	29 803	29.723	—	—	52.5	62.4	—	—	.305	.381	—	—	77	69	—	—	N W	N	N by E	—	Generally clouded; hazy
27	29.671	29 578	29.556	29 602	60.4	....	56.2	....	.302	....	.333	....	77	..	75	..	S S E	N N E	S E by S	—	Lt clo during day; night clear
28	29.561	29.427	29.335	29.412	61 2	76.4	57 8	64.1	.357	533	.367	.430	67	60	78	72	E by S	S S W	Calm.	—	Unclouded but hazy; very fine
29	29.369	29.352	29.432	29.383	59 4	68.8	50.0	59.9	.263	.250	.272	.271	53	37	76	56	N N W	W N W	N	—	Clouded am; eve & ngt cloudless
30	29.421	29.411	29.513	29.449	50.9	48.6	43.8	47 9	.297	.288	.253	.266	81	85	90	84	N by W	N W by W	N W by N	Inaple.	Lt clo & haze; few drops rn 2 pm
31	29.544	29.549	29.592	29.662	40.1	56.4	50.0	48.5	.214	.331	.320	.285	87	74	90	84	N W	S by E	S	.030	Gen clo; slight rain 9 & 10 pm
																					The snow on the 20th melted as it
Mo	29.565	29.512	29.570	29.5678	46.6	55.0	45 5	48 61	.236	.271	.231	.245	74	63	75	72	4 93miles	10.39 mls	4 54miles	515	fell; it is the latest date of snow

Highest Barometer,.....29.999 at 7 a.m. on 23rd } Monthly
Lowest do.....28.890 at 7 a.m. on 17th } Range, 1.109.
Highest obs. Temperature..77.98 p.m. on 28th } Monthly
Lowest do. do. ...37.95 a.m. on 10th } Range, 50.3.
Mean Max. Therm.....59.960 }
Mean Min. do. .....39.867 } Mean Daily range,.....19.993
Greatest Daily range,.....30.77 from a m. to 4 p.m. of the 10th
Warmest Day 28th—mean temperature....61.65 }
Coldest Day 20th— " " ....37.02 } Diff. 27.03
Warmest observed Hour 2 p.m., mean temp. 55.84 } Mean Diurnal
Coldest observed Hour 6 a.m, " " 43.91 } Variation 11 90

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

North	West	South	East
1893.1,	2148.5,	1136.2,	780 9.

Mean velocity, 6.32 miles per hour.
Maximum velocity, 22.4 miles from 2 to 3 p.m., on the 17th
Most Windy day, 17th; mean velocity per hour, 10.72 miles
Least do. 5th, do. do. 2.24 miles
Most Windy hour, 1 p.m., mean velocity, 10.62 miles per hour
Least do., 3 a.m., do. 3.31 do. do.
Diurnal variation, 7.31 miles per hour.

Year	Temperature. Mean.	Max.	Min.	Range	Rain. No of days	Inches.	Snow. Days.	Inches
1840..	44.2	76.4	31.2	45.2	9	4 150	0	..
1841..	51.1	78.0	26.5	51.5	11	2.350	1	..
1842..	49.8	71.2	27.3	46.9	7	1.275	0	..
1843..	49.73	79.8	29.2	50.6	5	1.570	0	..
1844..	54.23	78.4	28.7	49.7	14	5.620	0	..
1845..	50 23	77.8	27.8	50.0	8	2.300	0	..
1846..	55.77	79.7	33.1	46.6	9	4.375	0	..
1847..	54.55	72 1	26.7	45.4	12	2.940	0	..
1848..	53.74	78.0	31.2	46.8	13	2.520	0	..
1849..	48.30	72.2	27.9	44.3	16	5.115	0	..
1850 ;	48.61	77.8	27.5	50.3	7	0.545	1	Inaple