

MONTHLY METEOROLOGICAL REGISTER AT H.M. MAGNETICAL OBSERVATORY, TORONTO, C. W. - APRIL, 1847.
 Latitude 43°. 39' 4. N. Longitude 79°. 21' 5. W. Elevation above Lake Ontario, 108 Feet.

DAY.	Barometer at Temp. of 32°.			Temperature of the Air.			Wind.	Rain in on surf.	WEATHER.		
	7 A.M.	3 P.M.	10 P.M.	7 A.M.	3 P.M.	10 P.M.					
1,	29.914	29.715	29.517	29.684	14.1°	32.5°	7 A.M. Calm.	3 P.M. E. by S.	10 P.M. E. by S.		Clear to 7 am. Halo round sun 9 am. Snowing from 6 pm to midnight.
2,	29.420	29.441	—	—	37.1	37.2	7 A.M. Calm.	3 P.M. W. N. W.	10 P.M. Calm.		Clouded all day.
3,	29.588	29.581	29.565	29.615	38.2	40.5	7 A.M. Calm.	3 P.M. Calm.	10 P.M. Calm.		Gen. cld. Aurora! light 9 pm.
4,	29.457	29.350	—	—	38.2	40.5	7 A.M. Calm.	3 P.M. Calm.	10 P.M. Calm.		Light passing clouds.
5,	29.743	29.767	29.617	29.643	35.9	39.1	7 A.M. Calm.	3 P.M. E. by S.	10 P.M. E. by N.	0.055	Unclouded to 7 am. Rem. overcast.
6,	29.279	29.073	29.326	29.260	38.0	48.0	7 A.M. E. by N.	3 P.M. E. by S.	10 P.M. W. by S.	0.015	Cloud. L'ring & pt 1 to 6 am & 2 to 9 pm
7,	29.581	29.627	29.665	29.630	41.8	37.2	7 A.M. W.	3 P.M. W.	10 P.M. Calm.		Cloud am. Uncloud pm. Aurora from 7 pm over.
8,	29.575	29.264	29.401	29.414	41.1	55.3	7 A.M. E.	3 P.M. Calm.	10 P.M. N. by W.	not ap	Cloud am. Halo 2 pm. Slight rain 7 and 8 pm. Aurora! light 11 pm.
9,	29.659	29.616	29.466	29.459	34.5	45.9	7 A.M. N. W.	3 P.M. S. by W.	10 P.M. S. W.		Generally clear. Very fine day.
10,	29.341	29.458	29.626	29.441	43.7	43.8	7 A.M. N. W.	3 P.M. N. W. 2.5	10 P.M. Calm.		Mostly cld to 6 pm. Clear from 8 pm
11,	29.772	29.690	—	—	34.2	41.3	7 A.M. N. W.	3 P.M. S. by W.	10 P.M. Calm.		Clear am. Clouded pm.
12,	29.301	29.510	29.675	29.554	35.7	47.0	7 A.M. E.	3 P.M. N. W. by W.	10 P.M. Calm.		Clouded to 8 am. Rem 1 st pass. cld.
13,	29.747	29.627	29.580	29.648	36.0	45.3	7 A.M. S. W. by S.	3 P.M. S. S. W.	10 P.M. Calm.		Clouded to 8 am. Rem 1 st pass. cld.
14,	29.683	29.598	29.574	29.615	34.6	45.1	7 A.M. Calm.	3 P.M. E. S. E.	10 P.M. N. by W.	0.040	Mostly cld. Bright haze. Very fine day.
15,	29.682	29.661	29.722	29.687	32.2	38.1	7 A.M. W. N. W.	3 P.M. N.	10 P.M. N. by W.		Detach cld's gen. Hall shower at noon
16,	29.740	29.465	29.375	29.432	28.7	35.6	7 A.M. N. W. by W.	3 P.M. S. S. W. 2.0	10 P.M. Calm.		Cloud to 8 am. Rem cld. Srv sm. 2 & 3 pm
17,	29.452	29.546	29.711	29.668	32.6	33.2	7 A.M. N. W.	3 P.M. W. N. W. 2.0	10 P.M. N. W. 3.5		Cld to 6 pm. Rem cld. Part. of sm. 7 pm
18,	30.077	30.058	—	—	30.8	31.0	7 A.M. N. W.	3 P.M. S. W.	10 P.M. Calm.		Detach. cld's am. cld & uncl'd pm.
19,	29.972	29.836	29.852	29.872	30.6	43.9	7 A.M. W. S. W.	3 P.M. S. W.	10 P.M. Calm.		Detach. cld's am. cld & uncl'd pm.
20,	29.837	29.740	29.628	29.685	35.2	43.1	7 A.M. Calm.	3 P.M. S. E.	10 P.M. E. by S.	0.150	Dens. cld's to 2 pm. Rem. part. cld
21,	29.540	29.499	29.532	29.516	41.0	65.0	7 A.M. Calm.	3 P.M. W. S. W.	10 P.M. N.		Aurora! light 1 to 4 pm. Thunder light-ning and rain from 7 pm.
22,	29.592	29.682	29.709	29.695	49.5	45.1	7 A.M. S. E.	3 P.M. N. W.	10 P.M. N. N. E.	0.760	Detach. cld's am. cld & uncl'd pm.
23,	29.881	29.938	29.970	29.951	35.6	45.5	7 A.M. N. E. by N.	3 P.M. N. W.	10 P.M. Calm.	1.070	Detach. cld's am. cld & uncl'd pm.
24,	30.005	30.006	29.978	29.882	33.7	44.2	7 A.M. N.	3 P.M. S. S. E.	10 P.M. Calm.		Detach. cld's am. cld & uncl'd pm.
25,	29.856	29.664	—	—	43.3	51.2	7 A.M. S. by E.	3 P.M. S. by E.	10 P.M. Calm.		Gen. clear. L'rt cld's dispersed. Fine.
26,	29.490	29.407	29.225	29.320	48.7	56.1	7 A.M. Calm.	3 P.M. S.	10 P.M. Calm.		Overcast. Light cld's and haze.
27,	29.190	29.449	29.523	29.446	44.0	43.3	7 A.M. Calm.	3 P.M. N. W. 2.0	10 P.M. N. by W.		Pass. clouds to 9 am. Rem. cld. Fine.
28,	29.628	29.410	29.360	29.397	32.9	38.8	7 A.M. Calm.	3 P.M. E.	10 P.M. E. N. E.	0.450	Cld to 4 pm. Rem. cld. Shower of hail 3 to 4 pm. Rem. cld. Shower of hail 3 to 4 pm.
29,	29.169	29.110	29.272	29.195	34.7	44.6	7 A.M. Calm.	3 P.M. N. E. by N.	10 P.M. Calm.	0.330	Densely over. Occ. showers dur day
30,	29.348	29.392	29.607	29.489	36.3	47.7	7 A.M. NNW.	3 P.M. N. W. 2.0	10 P.M. Calm.		Gen. clouded. Slight rain 4 and 5 am
Mean	29.594	29.561	29.575	29.573	36.1	44.8				2.870	* Snow 1st, 4.0 in. 16th & 17th not ap.

In consequence of an error in the Wet Bulb thermometer, the amount of which has not yet been ascertained, the columns of the Elasticity and Humidity of the Air require for the present to be omitted. The Thermometer was first registered in March, and has undergone one of those spontaneous changes to which thermometers with large bulbs are known to be liable, but to a greater degree than usual. The mean values for this month will be communicated at an early period.

Year.	Temperature for April.		Rain.	Winds.	Mean Snow.
	Mean.	Max.			
1840.	42.7°	68.7°	45.9	3.420	212
1841.	36.4	61.8	41.9	1.370	85
1842.	43.4	59.8	20.1	3.740	227
1843.	41.29	71.6	14.7	3.158	306
1844.	48.11	74.6	66.7	1.615	294
1845.	42.13	66.7	15.6	3.250	481
1846.	44.11	81.8.	24.2	1.300	308
1847.	39.06	65.1.	9.3	2.870	163

Proportion of Wind from each Quarter—

N.W.	171	Total.
N.W.	93	Winds, 4371
S.W.	87	Calms, 1631
N.E.	85	Calms, 1631

Mean force, 0.69 lbs; Max. force, on 6th, at 6 pm, 10.5 lbs.

Under the head of Tension of Vapour, is given the elastic force of the Aqueous Vapour in the Atmosphere at each Observation, in decimals of an Inch of Mercury, or the proportion of the Barometric pressure due to its presence. The Instruments are Standard Instruments. The Rain Gauge is 27 l. at above the soil.—The Means entered are the Means by 24 hourly Observations, from 6 a.m., to 6 a.m. The quantity of Rain received for the last 24 hours, is noted at 9 a.m. The two Observations taken on Sundays are not included in any of the means.