

MONTHLY METEOROLOGICAL REGISTER AT H. M. MAGNETICAL OBSERVATORY, TORONTO, C. W.,—MAY, 1849.
 Latitude 43°. 39' N. Longitude 79°. 21' W. Elevation above Lake Ontario, 108 Feet.—(For the Brit. Amer. Jour. of Med. and Phys. Science.)

DAY.	Barometer at Temp. of 32°.		Temperature of the Air.			Tension of Vapour.		Humidity of the Air.		Wind.		Rain in. on surf.	WEATHER.								
	7 A.M.	3 P.M.	Mean of 24 h.	7 A.M.	3 P.M.	10 P.M.	Mean of 24 h.	7 A.M.	3 P.M.	10 P.M.											
1.	29.742	29.857	30.014	29.869	40.5°	52.4°	34.0°	42.3	1.86	1.55	1.37	1.71	.74	.40	.65	.64	N. W.	N. W.	N. by W.	0.650	Light detached clouds Clear from 9 pm
2.	30.203	30.138	30.121	30.155	34.2	43.7	39.1	39.3	1.84	1.85	1.57	1.49	.68	.66	.65	.63	N. W.	S by W.	Calm.	—	Light till 10 am 1 1/2 clouds detached pm
3.	30.069	29.844	29.680	29.680	38.4	43.0	43.4	40.4	1.87	1.68	1.91	1.64	.59	.61	.80	.66	E. by N.	E.	Calm.	—	Clouded. Hail at 9 am. Hail round moon
4.	29.654	29.756	29.851	29.755	42.8	54.4	39.2	46.7	2.55	3.00	2.52	2.68	.72	.91	.86	.86	N. by W.	N. by W.	N. by E.	0.555	Cloud. Slight rain 9 and 10 am Steady
5.	29.948	29.958	29.860	29.916	39.8	37.8	33.3	39.3	1.44	1.63	1.61	1.60	.59	.72	.67	.67	E. by N.	E.	E. by S.	0.230	Cloud. Constant slight rain all day
6.	29.688	29.668	—	—	38.5	40.4	—	—	2.20	2.39	—	—	.95	.97	.88	.92	N. E. by E.	E.	E.	0.290	Overcast all day Ceased rain at noon
7.	29.677	29.588	—	—	38.5	44.2	—	—	2.56	2.63	—	—	.99	.92	.88	.92	E.	E.	E.	0.140	Overcast all day Rain from noon to 5 pm
8.	29.385	29.367	—	—	29.523	44.4	49.1	45.4	2.78	3.38	—	—	.96	.98	.90	.94	E. N. E.	N. E. by N.	N. W. by W.	0.010	Overcast all day Rain from noon to 5 pm
9.	29.669	29.688	—	—	29.746	41.9	53.5	43.0	2.21	2.37	—	—	.76	.76	.71	.78	N. W.	N. W.	N. W. by S.	0.100	Light clouds generally detached
10.	29.804	29.605	—	—	29.685	44.2	49.4	40.4	2.24	2.62	—	—	.76	.68	.68	.76	N. W.	S. W. by S.	S. W. by S.	—	Light clouds generally detached
11.	29.672	29.665	—	—	29.594	41.2	51.7	39.6	1.89	2.50	—	—	.67	.73	.75	.72	N. by E.	S.	S.	—	Gen. over a few 1/2 clouds Very fine day
12.	29.578	29.466	—	—	29.373	46.6	51.6	44.9	2.23	2.29	—	—	.72	.61	.73	.69	N. by E.	S.	S.	—	A few 1/2 clouds round pm Very fine day
13.	29.980	29.041	—	—	29.373	46.6	51.6	44.9	3.19	3.12	—	—	.76	.79	.73	.69	E. N. E.	S. W. by W.	E.	0.850	Gen. over a few 1/2 clouds Round from 6 pm & most of night
14.	29.100	29.254	—	—	29.391	47.4	51.0	46.4	2.88	2.53	—	—	.89	.69	.87	.81	S. W.	N. W.	N. W. by N.	0.325	Rain till 1 pm Thunder-storm 2 pm
15.	29.533	29.523	—	—	29.580	45.4	54.9	44.4	2.19	3.02	—	—	.75	.71	.88	.82	N. W.	N. W.	S. S. W.	0.005	Mostly overcast Light passing clouds
16.	29.651	29.637	—	—	29.672	49.3	57.9	50.8	2.52	2.96	—	—	.63	.66	.69	.69	N. W.	S. S. W.	S. S. W.	—	Round moon at 6 pm
17.	29.744	29.748	—	—	29.776	50.6	60.0	51.4	2.40	3.13	—	—	.61	.61	.66	.66	N. W.	N. W.	S. S. W.	—	A few 1/2 clouds till 3 pm Clear
18.	29.851	29.790	—	—	29.778	53.4	59.1	49.6	1.99	2.81	—	—	.61	.57	.59	.59	N.	S. W. by S.	S. W. by S.	—	A few passing clouds Most clear
19.	29.838	29.774	—	—	29.774	53.4	59.1	49.6	2.41	2.81	—	—	.66	.66	.66	.66	N.	S. W. by S.	S. W. by S.	—	Foggy round horn Zen clear Very fine day
20.	29.692	29.550	—	—	29.787	51.6	62.0	48.8	2.59	3.02	—	—	.71	.63	.72	.67	S. by W.	S. by W.	S. by W.	—	Clear and unclouded Very fine day
21.	29.509	29.466	—	—	29.540	55.2	61.2	50.8	3.20	3.02	—	—	.71	.63	.72	.67	S. by W.	S. by W.	S. by W.	—	Mostly overcast Clear spaces
22.	29.450	29.299	—	—	29.526	55.2	61.2	50.8	2.98	3.58	—	—	.87	.89	.81	.77	N. W.	N. W.	N. W.	—	Gen. over all night till 10 pm
23.	29.311	29.367	—	—	29.499	55.4	61.4	47.8	2.75	3.29	—	—	.82	.82	.84	.78	N. W.	N. W.	N. W.	—	Clouded Air light in north at 10 pm
24.	29.601	29.696	—	—	29.677	43.0	44.4	43.2	2.66	2.74	—	—	.94	.94	.92	.93	N. E. by N.	W. by N.	W. by N.	1.050	Thunder-storm and heavy rain 3 to 11 pm
25.	29.750	29.762	—	—	29.738	44.8	51.6	42.4	2.53	3.19	—	—	.81	.81	.81	.88	N. W.	E. S. E.	N. W.	0.130	Clouded all day Slight rain from 4 to 5 pm
26.	29.742	29.713	—	—	29.706	50.5	54.8	46.8	2.84	3.09	—	—	.76	.73	.78	.78	N. E.	S. by E.	S. by E.	0.155	Overcast all day Slight rain till 6 pm
27.	29.667	29.682	—	—	29.684	51.4	58.8	55.0	3.24	3.34	—	—	.67	.67	.81	.78	N. E.	E. by S.	N. E. by E.	—	Gen. over till 9 pm Clear from 9 pm
28.	29.664	29.682	—	—	29.684	51.4	58.8	55.0	3.24	3.34	—	—	.67	.67	.81	.78	N. E.	E. by S.	N. E. by E.	—	Overcast all day
29.	29.744	29.774	—	—	29.765	51.2	56.0	52.4	3.74	4.07	—	—	.94	.94	.93	.87	N. E.	N. E.	N. E.	0.070	Densely and uniformly overcast all day
30.	29.748	29.737	—	—	29.740	51.2	56.0	52.4	3.62	3.90	—	—	.96	.96	.98	.94	N. E.	E. by N.	E. by N.	0.360	Overcast all day Slight rain most of day
31.	29.746	29.737	—	—	29.730	53.8	61.0	51.4	3.95	4.61	—	—	.88	.88	.96	.94	N. E.	S. E.	S. E.	0.195	Overcast till noon Over till 10 am Light detached clouds remainder of day
Mean	29.681	29.663	29.676	29.679	46.6	53.3	46.4	48.30	2.59	2.99	2.70	.81	.74	.80	.79	.79	8.04 miles	8.04 miles	4.66 miles	5.115	8 1/2-9 1/2 am, pm, splendid meteor in N. W. from 75° to 20° altitude.

Barometer at Temp. of 32°.
Temperature of the Air.
Tension of Vapour.
Humidity of the Air.
Wind.
Rain in. on surf.
WEATHER.

Sum of the Atmospheric Currents resolved into the four Cardinal directions, in miles.
 North 1512.3
 East 1892.6
 South 632.2
 West 857.2

Mean velocity of the Wind, 5.33 miles per hour.
Maximum velocity, 21.9 miles from 4 pm, on 18th.
Most Windy Day, 6th.—Mean veloc per hour, 9.31 miles.
Least do. at 2 p.m., 8.12
Diurnal Variation 4.39 miles.

Temperature.
 Mean, 48.30
 Max., 72.2
 Min., 27.3

Rain.
 Total, 5.115
 Days, 16
 Inches, 0.325

Wind.
 Days, 16
 Force, 0.35

Snow.
 Days, 0
 Depth, 0

Notes:
 Highest Barometer, 30.214 on 13th, at 9 a.m.
 Lowest do., 29.292 on 21st, at 4 p.m.
 Lightest Thermometer, 27.2° on 21st, at 4 p.m.
 Ranges Monthly: Range 41.3
 Mean Max. Therm., 44.66 Mean Min. Therm., 41.06.
 Mean Daily Rain, .33 = 7 from am to 4 pm on 19th
 Maximum Daily Rain, .53 = 7 from am to 4 pm on 19th
 Mean Temperature, at 6 am, 44.83 } Differ., 8.63
 do at 2 p.m., 53.26 }
 do at 6 am, 44.83 }

The means are deduced from six observations daily, viz., 6 am, and 2 and 10 pm, and 7 am, and 3 and 11 pm.
 Further explanatory notes will be found at the foot of all the Registers for 1845, 1846, 1847, and 1848.
 No Magnetic Disturbances observed during this month.