MONTHLY METEOROLOGICAL REGISTER AT H. M. MAGNETICAL OBSERVATORY, TORONTO, C. W.,—AUGUST, 1849.

Latitude 43°. 39′.4. *N.* *Longitude* 79°. 21′.5. *W.* *Elevation above Lake Ontario,* 108 *Feet.*—(*For the Brit. Amer. Jour. of Med. and Phys. Science.*)

Day.	Barometer at Temp. of 32°. 7 A.M.	3 P.M.	10 P.M.	Mean	Temperature of the Air. 7 A.M.	3 P.M.	10 P.M.	Mean	Tension of Vapour. 7 A.M.	3 P.M.	10 P.M.	Mean	Humidity of the Air. 7 A.M.	3 P.M.	10 P.M.	Mean	Wind. 7 A.M.	3 P.M.	10 P.M.	Inches of Rain.	Weather.
1,	29.809	29.754	29.738	29.766	59.0°	71.1°	59.0°	61.7	.379	.419	.406	.395	.77	.57	.83	.75	Calm.	S. S. W.	Calm.	—	Mostly clear; a few detached clouds
2,	29.821	29.767	29.735	29.774	63.2	76.0	61.0	65.1	.453	.532	.475	.471	.80	.61	.90	.79	Calm.	S. S. E.	Calm.	—	Clear save a few clds & lt haze on hor; very faint auroral light 11 p m
3,	29.733	29.640	29.618	29.663	64.4	77.6	68.5	69.6	.595	.583	.481	.506	.84	.64	.71	.74	Calm.	S. S. E.	Calm.	—	Detached clouds gen; clear intervals
4,	29.693	29.682	29.701	29.691	63.6	72.2	60.4	64.7	.457	.547	.387	.464	.80	.72	.76	.77	N.	S S W	Calm.	—	Mostly clear; passing clouds; fine
5,	29.663	29.528	—	—	70.7	71.2	—	—	.567	.562	—	—	.77	.76	—	—	Calm.	E. by S.	——	—	Mostly clear; light detached clouds
6,	29.476	29.518	29.598	29.531	66.1	74.0	62.0	67.3	.533	.151	.463	.483	.85	.55	.85	.76	Calm.	N.W.by W	Calm.	0.060	Cloudy; heavy shower fr 3.40 to 4 pm
7,	29.681	29.669	29.653	29.669	61.0	72.4	59.6	63.2	.434	.490	.444	.442	.83	.63	.88	.79	Calm.	S. S. W.	Calm.	.045	Mostly clear; a few light clds; fine halo round moon at 11 pm
8,	29.650	29.498	29.383	29.496	64.2	71.6	65.2	64.8	.518	.461	.551	.480	.88	.61	.91	.81	Calm.	E.	S. E.	—	Over't; rng fr 6 pm till 1.30 am of the 9th
9,	29.199	29.144	29.241	29.201	68.0	70.6	64.8	67.7	.619	.654	.524	.599	.93	.90	.88	.91	S. S. E.	Calm.	N.W.by N.	.650	Clouded; showers during most of day
10,	29.467	29.578	29.646	29.564	59.4	61.9	61.0	60.6	.405	.415	.366	.394	.82	.76	.69	.76	N. W.	N. by W.	N. by W.	.060	Densely overcast all day
11,	29.775	29.767	29.799	29.773	56.8	70.5	57.3	60.7	.355	.316	.343	.338	.79	.44	.74	.67	N. by E.	N. N. E.	N. by W.	—	Unclouded but hazy; fine
12,	29.801	29.775	—	—	68.1	68.2	—	—	.463	.527	—	—	.69	.79	—	—	S. E. by E.	S. E.	——	—	Am unclouded; pm a few light clouds on horz; aurora from 9 to 11 pm
13,	29.713	29.584	29.525	29.600	58.8	74.3	60.2	64.9	.411	.551	.460	.491	.84	.67	.90	.82	Calm.	S. E.	Calm.	—	Light clouds generally
14,	29.469	29.439	29.551	29.488	60.4	71.8	57.4	62.8	.504	.425	.368	.428	.98	.56	.79	.78	Calm.	N. N. W.	N. W.	.510	Rain from 1.40 to 6 am; pm gen clear
15,	29.623	29.572	29.569	29.587	57.8	70.3	57.0	61.4	.384	.475	.415	.403	.82	.66	.91	.78	N.W.by N	N.W.by N.	Calm.	—	Mostly clear; a few passing clouds
16,	29.615	29.593	29.608	29.602	59.4	71.9	61.0	62.8	.392	.518	.414	.462	.79	.68	.79	.79	Calm.	S. by W.	Calm.	—	Generally overcast with light clouds
17,	29.622	29.588	29.605	29.611	64.4	73.1	61.6	65.4	.511	.649	.508	.551	.91	.82	.95	.90	Calm.	S. S. E.	Calm.	—	Gen overcast; slight spitting rain 2 pm
18,	29.646	29.641	29.644	29.644	66.6	76.0	66.0	68.9	.573	.663	.548	.589	.89	.76	.88	.85	Calm.	S. by W.	Calm.	not ap	Mostly clear; passing clouds; fine
19,	29.661	29.611	—	—	74.8	75.5	—	—	.633	.523	—	—	.76	.61	—	—	S. S. E.	S. E. by E.	——	—	Unclouded; hazy round horizon; fine
20,	29.555	29.541	29.550	29.551	71.6	70.8	63.6	68.4	.650	.686	.514	.606	.86	.95	.89	.89	S. by W.	S.W.by S.	Calm.	—	Densely o'rcast; slight rain from 10 am to 4 pm; very hazy from 6.40 to 7.30
21,	29.608	29.578	29.643	29.614	62.4	78.2	65.0	68.4	.511	.473	.522	.513	.93	.50	.87	.78	Calm.	W. by S.	Calm.	1.045	Clouded and clear alternately
22,	29.700	29.630	29.593	29.635	59.4	73.4	64.5	65.2	.416	.565	.548	.597	.83	.71	.93	.83	Calm.	Calm.	Calm.	—	Overcast; halo round sun at 1 pm; raining from 6 to 10 pm
23,	29.526	29.552	29.618	29.565	63.4	73.0	64.5	67.3	.523	.638	.474	.537	.92	.80	.80	.81	Calm.	S.W.by S.	N N W	.920	Raining from 0.30 to 3.15 am; passing clouds during the day
24,	29.728	29.710	29.706	29.719	63.4	74.0	63.3	66 5	.517	.650	.510	.553	.90	.80	.90	.87	N. N. W.	S. S. W.	Calm.	—	Light clouds dispersed; mostly clear
25,	29.745	29.691	29.691	29.717	63.9	77.5	65.2	68.1	.446	.615	.533	.533	.77	.67	.88	.80	Calm.	S. S. W.	Calm.	—	Mostly clear; a few light clouds; fine
26,	29.741	29.695	—	—	73.4	77.0	—	—	.649	.625	—	—	.81	.69	—	—	S.W. by S.	S. W.	——	—	Generally clouded
27,	29.633	29.650	29.730	29.674	70.1	68.0	60.8	67.2	.663	.536	.494	.585	.93	.80	.95	.90	S. by W.	N.	Calm.	—	O'rc't; r'ng fr 2 pm; th st'm fr 5 to 6 pm
28,	29.782	29.713	29.694	29.732	56.0	65.8	61.4	60.5	.404	.546	.509	.479	.92	.88	.96	.92	N. N. W.	Calm.	Calm.	.640	O'rc't; sh'ers oc'ly; sheet lt 9 to 11 pm
29,	29.687	29.672	29.680	29.685	62.0	74.6	64.9	67.0	.519	.667	.583	.583	.96	.81	.98	.90	N. by E.	Calm.	Calm.	.960	Th'storm; lightning & rain 0.20 to 1.20 am; day cloudy
30,	29.662	29.561	29.486	29.569	65.4	76.8	69.0	70.4	.597	.740	.637	.657	.98	.83	.92	.91	Calm.	S. by W.	W. S. W.	—	Cloudy; rain 8 pm; li'g & th 9 to 11 pm
31,	39.667	29.646	29.673	29.669	53.2	64.6	53.9	56.7	.330	.422	.279	.339	.83	.71	.68	.75	N. W.	S. S. W.	N. N. W.	.080	Light detached clouds generally
Mean	29.640	29.607	29.618	29.6219	62.4	72.3	62.1	65.08	.483	.544	.472	.496	.87	.70	.86	.82	2.6 miles.	5.8 miles.	2.0 miles.	4.970	No thunder or lightning observed till the 27th

Highest Barometer, 29.831 on 2d, at 7 a.m. } Monthly Range 0.631
Lowest do. 29.140 on 9th, at 2 p.m.
Highest Temperature observed, 79°.0 on 3d, at 2 p.m. } Monthly Range 33.8
Lowest do registered, 45°.2, on 1st, at a.m.
Mean Max. Therm., 73°.35 } Mean Daily Range, 18°.15
Mean Min. do 55°.70
Extreme Daily Range, 27°.5 from pm of 27th to am of 28th
Mean Temperature, at 6 am, 59.30 } Differ., 13.55
Do do at 2 pm, 72.85

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

North	West	South	East
1157.7	830.4	1016.8	459.4

Mean velocity, 3.76 miles per hour.
Maximum velocity, 14.4 miles from 11 am to noon 14th
Most Windy Day, 9th.—Mean veloc per hour, 8.53 miles
Least do. 3d, " " 1.06
Most Windy Hour, 2 pm; mean veloc, 6.40 miles per hour
Least Windy Hour, 8 pm; " 1.73 " "

Year.	Temperature. Mean.	Max.	Min.	Range.	Rain. No. Days.	Inches.	Winds.	Wind. Calms	Mean force.	Snow. Days.	inch
1840, ..	65.10°	82.4°	47.7°	31.7°	12	2.905				0	—
1841, ..	64.60	84.8	45.7	39.1	9	6.170	157	155	0.19	0	—
1842, ..	65.90	81.8	43.9	37.9	6	2.500	379	269	0.30	0	—
1843, ..	66.49	83.1	41.0	39.1	4	4.850	282	366	0.12	0	—
1844, ..	61.16	86.8	43.5	43.3	17	imperf't	295	353	0.16	0	—
1845, ..	67.86	84.8	41.5	43.3	9	1.725	366	258	0.19	0	—
1846, ..	63.41	86.4	49.5	36.9	9	1.770	293	331	0.17	0	—
1847, ..	63.93	82.6	44.6	38.0	10	2.140	295	329	0.19	0	—
1848, ..	63.34	87.0	43.7	38.3	8	0.855	177	93	0.26	0	—
1849, ..	65.08	79.0	45.2	33.8	10	4.970	203	121	0.19	0	—

The means are deduced from six observations daily, viz., 6, am, and 2 and 10 pm, and 7 am, and 3 and 9 pm.
Further explanatory notes will be found at the foot of all the Registers for 1845 and 1846.
Magnetic Disturbances—none observed during the month.