

MONTHLY METEOROLOGICAL REGISTER AT THE MAGNETICAL OBSERVATORY, TORONTO, O. W.—SEPTEMBER, 1848.
 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°.			Mean	Temperature of the Air.			Mean	Tension of Vapour.			Mean	Humidity of the Air.			Mean	Wind.			Rain on surf.	WEATHER.	
	7 A.M.	3 P.M.	10 P.M.		7 A.M.	3 P.M.	10 P.M.		7 A.M.	3 P.M.	10 P.M.		7 A.M.	3 P.M.	10 P.M.		7 A.M.	3 P.M.	10 P.M.			7 A.M.
1,	29.251	29.404	29.508	29.414	65.0°	67.4°	62.2°	65.2	.850	.354	.523	.465	.62	.54	.96	.78	S. W.	W. N. W. by S.	W. by S.	—	Gen overcast. Slight rain at 3h 30m pm	
2,	29.636	29.651	29.727	29.672	61.2	73.4	59.2	62.1	.430	.433	.419	.421	.81	.54	.86	.78	N.W. by W.	N.W. by W.	Calm.	not app.	Mostly clear. A few passing clouds.	
3,	29.741	29.668	29.668	29.672	68.7	77.4	77.4	68.9	.473	.601	.672	.70	.66	.70	.86	.82	S.	S.	Calm.	—	Hazy am. Light clouds & haze pm	
4,	29.653	29.556	29.526	29.570	63.5	80.4	64.4	68.9	.527	.630	.498	.563	.93	.62	.85	.82	Calm.	S. S. E.	Calm.	—	Mild over am. Clear from noon. Air 10 pm AM cloudy. Clear from noon.	
5,	29.567	29.630	29.760	29.676	67.0	73.4	54.5	61.9	.513	.288	.277	.344	.80	.36	.66	.55	N. by W.	N. N. W.	N. N. W.	—	Clear, save a few passing clouds.	
6,	29.829	29.827	29.863	29.853	53.8	67.6	53.0	67.5	.277	.260	.252	.253	.68	.64	.82	.63	N. by W.	N. N. W.	N. by E.	—	Unsettled. Very fine.	
7,	29.905	29.778	29.738	29.793	48.0	67.6	58.1	57.7	.254	.305	.388	.363	.77	.46	.82	.68	Calm.	N. by E.	S. W. by W.	—	Unsettled.	
8,	29.691	29.602	29.664	29.651	56.7	72.6	55.6	64.0	.400	.437	.330	.426	.89	.56	.76	.73	Calm.	N. by W.	N. N. W.	—	Light passing clouds am. Clear pm	
9,	29.700	29.647	29.610	29.647	50.0	63.6	51.6	55.0	.304	.347	.385	.307	.85	.60	.75	.72	Calm.	S. by E.	N. N. W.	—	Generally cloudy. A few clear spaces	
10,	29.609	29.541	29.610	29.617	60.2	63.2	63.6	63.6	.337	.474	.474	.307	.66	.68	.75	.72	S. S. W.	S	N. N. W.	—	Clouded. Thin, light, & rain occurs	
11,	29.581	29.585	29.656	29.633	60.6	63.8	53.1	58.5	.496	.481	.348	.438	.96	.84	.87	.89	Calm.	N. by W.	W. by W.	—	Mildly clear am. Clear pm.	
12,	29.829	29.881	29.898	29.898	51.9	58.8	47.4	52.9	.319	.212	.233	.294	.84	.43	.72	.74	N. by W.	N. by W.	N.	—	Gen. clear. Hazy from 5 am to 9 pm, round sun & moon	
13,	29.962	29.887	29.813	29.861	46.0	59.2	48.0	51.8	.258	.279	.262	.256	.83	.56	.80	.69	N. N. E.	S.	Calm.	—	Consistent rain from 5 am. Thunder and lightning rain to 9 pm. Thunder cleared at 12 pm. Clear from 4 pm	
14,	29.489	29.146	29.144	29.230	52.6	58.3	55.2	54.6	.345	.442	.426	.408	.88	.92	1.00	.97	N. W.	E. N. E.	N. W.	.440	Clouded till 2 pm. Clear from 4 pm	
15,	29.398	29.468	29.535	29.465	51.4	57.4	44.9	48.5	.292	.327	.234	.259	.78	.70	.79	.77	N. W.	N. W.	Calm.	—	Unsettled am. Hazy pm. Fine day.	
16,	29.565	29.497	29.438	29.483	42.5	54.6	52.0	51.7	.211	.272	.323	.298	.79	.65	.84	.74	Calm.	S. S. E.	S. S. W.	—	Hot from rain.	
17,	29.370	29.317	29.317	29.317	58.0	60.7	60.7	55.1	.374	.351	.351	.376	.66	.67	.84	.74	S. S. E.	S. S. E.	S. S. W.	—	Hot from rain.	
18,	29.414	29.533	29.627	29.541	53.8	61.9	53.4	55.1	.389	.373	.360	.376	.96	.69	.90	.88	Calm.	W. by S.	S. E.	.620	Densely clouded.	
19,	29.542	29.445	29.380	29.436	57.2	63.8	58.8	60.0	.429	.463	.440	.463	.94	.80	.91	.91	S.	S. S. W.	W S W	.080	Densely cloudy. Heavy rain during the night	
20,	29.325	29.409	29.537	29.449	51.6	59.4	48.1	51.1	.349	.291	.273	.319	.93	.59	.82	.85	S. W by W	W. by W.	N. N. W.	.330	Gen. clear. Hazy from 5 am. Thunder and lightning rain to 9 pm. Thunder cleared at 12 pm. Clear from 4 pm	
21,	29.638	29.677	29.779	29.713	42.6	52.4	42.4	46.3	.238	.235	.221	.244	.89	.61	.82	.75	N. W.	W. N. W.	Calm.	—	Gen. clear. Slight rain 1 to 4 pm.	
22,	29.858	29.804	29.816	29.830	38.6	48.2	34.8	39.5	.186	.179	.171	.180	.79	.54	.85	.75	N. N. W.	N. W. by W	Calm.	.070	Mostly clear. Dense clouds at 5 & 6 pm	
23,	29.770	29.555	29.544	29.609	35.0	59.4	47.0	48.0	.156	.306	.250	.229	.77	.62	.78	.69	N. W. by W	W N W	Calm.	—	Generally cloudy.	
24,	29.606	29.587	29.587	29.587	53.0	55.8	47.0	50.2	.293	.347	.298	.268	.82	.79	.80	.74	N. N. E.	W.	N. N. W.	—	Mostly clear. Fine.	
25,	29.573	29.451	29.639	29.569	42.4	59.8	47.0	50.2	.167	.172	.208	.164	.82	.52	.64	.73	N. N. W.	N. W. by N	Calm.	—	Generally cloudy. Clear spaces.	
26,	29.800	29.815	29.824	29.809	35.2	47.9	31.7	38.0	.158	.274	.253	.165	.90	.67	.81	.76	Calm.	S. E.	W. N. W.	—	Gen. clear. Ice 3 miles or an in thick 7 am	
27,	29.700	29.475	29.356	29.498	31.4	53.7	50.5	49.2	.160	.184	.237	.208	.70	.60	.79	.74	N. N. W.	W. by S.	S. E.	—	Const slight rain 9 pm. Day clouded	
28,	29.465	29.338	29.202	29.298	37.9	45.8	45.6	42.7	.348	.353	.263	.321	.93	.72	.80	.88	S. S. W.	W.	Calm.	.575	Cloud. Showery. Air 9 pm to midn	
29,	28.927	29.018	29.237	29.100	51.4	59.0	47.6	50.3	.197	.255	.214	.219	.94	.75	.83	.79	S. S. W.	W. N. W.	Calm.	.080	Gen. clear. Faint auroral light 9 pm	
30,	29.482	29.648	29.764	29.664	36.0	48.8	41.4	43.3	.197	.255	.214	.219	.94	.75	.83	.79	S. S. W.	W. N. W.	Calm.	—	Gen. clear. Faint auroral light 9 pm	
Mean	29.594	29.566	29.599	29.598	49.4	60.7	50.3	53.39	.308	.329	.303	.320	.84	.62	.82	.77	4.50	9.04	3.49	3.115	—	First frost of the season on the morning of the 13th.

Proportion of Wind from each Quarter: From N, 165; S, 114; W, 202; E, 114.5

Temperature for September: Mean 61.5; Max 82.6; Min 37.6; Range 45.0

Rain: No. Days, 6; Inches, 3.380; Winds, Calms, 117; Mean Force, 0.26

The approximate mean of the Barometer is derived from ten observations daily; the means of the other elements are taken from four observations daily, viz., 9 and 10 a.m., and 9 and 10 p.m. The whole are close approximations to the true means. Further explanatory notes will be found at the foot of all the Registers of 1846 and 1847.

Magnetic Disturbances, September 30, 16th to 17th, 21st, 23rd, 25th, 26th, 27th, 29th, 30th of Declination.