

Monthly Meteorological Register, at the Provincial Magnetical Observatory, Toronto, Canada West.—August, 1855.
 Latitude, 43 deg. 39.4 min. North. Longitude, 79 deg 21. min. West. Elevation above Lake Ontario, 108 feet.

Day.	Barom. at temp. of 32 deg.				Temp. of the Air.				Mean Temp. + or - of the Average	Tension of Vapour.				Humid'y of Air.				Wind.			Mean Direct.	Mean Vel'y	Rain in Inch.
	6 A.M.	2 P.M.	P.M.	Mean.	6 A.M.	2 P.M.	10 P.M.	M'N.		6 A.M.	2 P.M.	10 P.M.	M'N.	6 A.M.	2 P.M.	10 P.M.	M'N.	6 A.M.	2 P.M.	10 P.M.			
1	29.701	29.683	29.682	29.686	68.7	73.7	67.8	70.9	+ 3.9	0.586	0.674	0.559	0.603	.87	.84	.85	.83	N b E	E b S	Calm	E 20 N	4.12	...
2	.716	.719	.721	.715	67.8	73.0	69.3	71.8	+ 4.9	.556	.642	.642	.627	.85	.67	.92	.83	NE b N	E b S	N b E	E 13 S	4.78	...
3	.750	.701	.618	.685	67.5	82.1	69.7	74.7	+ 7.8	.596	.711	.600	.665	.92	.67	.86	.81	N b W	S	S W	W 17 S	4.74	0.016
4	.619	.567	.595	.593	71.4	75.1	70.4	72.8	+ 5.9	.668	.738	.644	.681	.89	.87	.89	.87	W b N	S	E b N	S 10 E	4.46	0.380
5	.691	.626	—	—	63.7	73.7	—	—	—	.478	.525	—	—	.84	.60	—	—	N N E	E b S	NW b N	N 17 E	6.14	...
6	.629	.564	.611	.575	62.1	76.2	65.7	68.8	+ 2.0	.416	.500	.516	.469	.76	.57	.84	.70	N b W	S b W	N	N 43 W	6.83	...
7	.593	.618	.801	.673	56.8	72.7	61.7	65.3	+ 1.4	.410	.555	.387	.484	.91	.71	.72	.72	N W	N E	E b N	E 32 N	9.47	0.020
8	.748	.540	.294	.501	61.6	68.6	67.1	65.6	- 1.1	.433	.482	.616	.609	.82	.72	.96	.83	SE b E	E	ESE	E 12 N	7.88	0.095
9	.143	.167	.295	.204	72.0	75.3	63.5	69.8	+ 3.1	.738	.488	.456	.610	.89	.58	.80	.73	S W	W	W	W 2 N	16.05	...
10	.417	.491	.582	.502	57.8	67.2	56.4	60.8	- 5.7	.347	.364	.282	.320	.74	.56	.64	.62	W	W b N	N b W	W 36 N	8.21	...
11	.639	.669	.650	.658	54.6	68.6	62.1	62.7	- 3.7	.311	.444	.463	.432	.74	.66	.85	.77	N E	ESE	E b N	E 11 S	6.79	...
12	.686	.680	—	—	64.9	72.1	—	—	—	.524	.787	—	—	.87	.97	—	—	NE b E	S b W	W	W 11 N	6.34	0.616
13	.777	.777	.802	.786	62.5	76.1	60.3	66.1	- 0.1	.428	.524	.275	.408	.77	.60	.53	.63	N N W	N W	NW b N	N 40 W	6.67	...
14	.837	.800	.762	.793	61.8	70.4	61.5	64.4	- 1.8	.284	.514	.389	.395	.53	.72	.73	.67	N N W	S	N	N 9 W	5.27	...
15	.716	.492	.447	.533	54.2	75.2	68.6	67.8	+ 1.6	.368	.533	.573	.517	.89	.63	.85	.78	N b E	S b E	S W	S 17 E	5.13	0.295
16	.366	.366	.428	.377	65.0	80.1	63.5	69.1	+ 3.1	.569	.594	.354	.497	.93	.59	.62	.71	SW b S	SW b W	N W	W 17 N	9.06	Inap.
17	.424	.502	.714	.560	56.4	64.8	61.1	56.9	- 9.0	.262	.218	.289	.260	.59	.36	.79	.59	W b N	W	W	W	15.46	0.035
18	.808	.875	.927	.878	47.0	62.6	50.6	53.9	- 11.9	.267	.271	.264	.263	.84	.49	.72	.66	W N W	NW b W	N b W	W 35 N	8.39	...
19	30.019	.936	—	—	45.6	62.5	—	—	—	.231	.360	—	—	.77	.65	—	—	N N W	SE b S	E	E 42 S	4.46	...
20	29.915	.841	.797	.846	53.5	72.5	60.3	61.7	- 8.8	.315	.488	.447	.409	.78	.63	.87	.76	N b E	SSE	SSW	S 6 E	4.92	...
21	.777	.707	.711	.730	55.6	77.2	62.1	66.5	+ 1.0	.410	.551	.496	.493	.95	.50	.91	.79	N E	S	SSW	S 13 W	6.90	...
22	.714	.648	.577	.641	60.1	70.4	63.9	65.6	+ 0.3	.464	.534	.517	.513	.91	.71	.89	.84	Calm.	E b S	E b N	E 8 S	3.71	...
23	.508	.460	.508	.491	62.5	71.9	61.4	64.0	- 0.3	.513	.605	.384	.507	.94	.80	.72	.84	N b E	S W	N N W	N 44 W	3.88	...
24	.552	.565	.611	.581	54.6	73.9	61.4	64.6	- 0.4	.310	.435	.459	.420	.74	.53	.80	.72	W b N	S	S b W	S 10 W	5.74	...
25	.707	.676	.623	.665	58.9	72.7	63.2	65.6	+ 0.8	.425	.499	.629	.457	.87	.64	.94	.81	SSW	E b S	Calm.	E 11 S	3.61	...
26	.610	.739	—	—	61.2	66.8	—	—	—	.483	.455	—	—	.91	.71	—	—	Calm.	NW b N	N b E	N 14 W	9.94	...
27	.942	.875	.823	.875	48.5	59.7	48.8	52.9	- 11.4	.215	.269	.273	.256	.64	.54	.80	.65	N b E	ESE	N b W	E 42 N	7.88	...
28	.810	.770	.687	.758	46.7	65.3	49.2	55.5	- 8.6	.235	.318	.302	.290	.74	.52	.88	.69	N	S b E	SE	S 42 E	4.6	...
29	.604	.446	.603	.566	45.9	68.2	60.7	60.9	- 3.0	.276	.523	.378	.395	.90	.74	.72	.76	W	SSW	N W	E 5 S	11.6	Inap.
30	.856	.879	.937	.897	50.4	62.2	50.6	54.2	- 9.4	.291	.290	.271	.274	.81	.53	.75	.67	N b W	S b E	N	N 6 W	7.64	...
31	.970	.941	.752	.865	47.9	61.1	55.3	56.1	- 7.2	.267	.361	.396	.352	.81	.68	.93	.79	NE b N	ESE	E b N	E 12 N	4.64	Inap.
M	29.672	29.642	29.650	29.653	58.2	71.2	61.0	64.1	- 1.7	0.403	0.486	0.436	0.444	.82	.64	.81	.74	5.22	10.25	5.06	W 27 N	6.97	1.455

Highest Barometer..... 30.019, at 6 a.m. on 19th } Monthly range:
 Lowest Barometer..... 29.130, at 8 a.m. on 9th } 0.889 inches.
 Highest registered temperature 83° 5, at p.m., 3rd } Monthly range:
 Lowest registered temperature 40° 0, at a.m. on 19th } 43° 5.
 Mean Maximum Thermometer..... 74° 61 } Mean diurnal range:
 Mean Minimum Thermometer..... 54° 09 } 20.52
 Greatest daily range..... 34° 2, from p.m. of 16th to a.m. of 17th.
 Least daily range 8° 8, from p.m. of 8th, to a.m. of 9th.
 Warmest day..... 3rd. Mean temperature..... 74° 67 } Difference,
 Coldest day..... 27th. Mean temperature..... 52° 93 } 21° 74.
 Greatest intensity of Solar Radiation, 98° 4 on p.m. of 4th } Range,
 Lowest point of Terrestrial Radiation, 30° 2 on a.m. of 19th } 68° 2.
 Aurora observed on 5 nights: viz. on 4th, 14th, 17th, 18th and 23rd.
 Possible to see Aurora on 24 nights. Impossible on 7 nights.
 Raining on 7 days. Raining 8.1 hours; depth, 1.455 inches.
 Mean of Cloudiness, 0.44.
 Thunder storms occurred on the 4th, 16th, and 31st.
 Sheet lightning observed on the 8th and 15th.
 In observing for the periodic appearance of Meteors considerable numbers were noted on the nights of the 11th and 13th.

Sum of the Atmospheric Current, in miles, resolved into the four Cardinal directions.

North.	West.	South.	East.
1795.01	1899.31	1443.32	1208.52

Mean direction of Wind, W 27° N. Mean velocity 6.97 miles per hour.
 Maximum velocity, 32.6 miles per hour, from 1 to 2 p.m. on 17th.
 Most windy day, the 9th; mean velocity, 16.95 miles per hour.
 Least windy day, the 22nd; mean velocity, 3.71 " "
 Most windy hour, 1 p.m.; Mean velocity, 10.47 miles per hour.
 Least windy hour, 1 a.m.; Mean velocity, 4.78 " "
 Mean diurnal variation, 5.69 miles.
 16th. 5-30 to 8-20 a.m., violent *Thunderstorm*, the quantity of rain which fell in this storm was 0.295 inch. on the surface, and the velo-

city of the wind, from 6-12 to 6.18 a.m. attained the rate of 75.0 miles per hour.

17th. 6.45 to 7.05 p.m. very perfectly defined double *Rainbow*, beautifully exhibiting the prismatic colours.

26th. 7.54 p.m. a *Meteor* about three times as large as Jupiter observed in S.W., leaving a train of light behind it, which lasted fully a minute after the disappearance of the meteor.

The Mean Temperature of this month has been 2° 1 below the average, and the quantity of Rain has been less than the Mean by 1.264 inch. on the surface, whilst the velocity of the Wind has been in excess of the average by 2.39 miles per hour. The month may therefore be characterized as cold, clear, dry and windy.

Comparative Table for August.

Year.	Temperature.				Rain.		Wind		Mean Velocity in Miles
	Mean.	Dif. from Av'gs	Max. obs'd	Min. obs'd	Range	D's.	Inch.	M'n Direc.	
1840	64.7	-1.5	80.1	47.4	32.7	12	2.905
1841	64.4	-1.8	83.5	46.7	36.8	9	6.170	...	0.19 lbs.
1842	65.7	-0.5	80.7	45.3	35.4	6	2.500	...	0.30 lbs.
1843	66.4	+0.2	85.5	44.4	41.1	4	4.850	...	0.12 lbs.
1844	64.3	-1.9	82.5	44.3	38.2	17	impt.	...	0.16 lbs.
1845	67.9	+1.7	82.5	44.4	38.1	9	1.725	...	0.19 lbs.
1846	68.4	+2.2	86.3	50.4	35.9	9	1.770	...	0.17 lbs.
1847	65.1	-1.1	83.1	44.9	38.2	10	2.140	...	0.19 lbs.
1848	69.2	+3.0	87.5	49.3	38.2	8	0.855	S 20 E	4.55 Miles.
1849	66.3	+0.1	79.5	51.4	28.1	10	4.970	W 19 N	3.76 Miles.
1850	66.8	+0.6	84.2	43.0	41.2	13	4.355	N 15 E	4.46 Miles.
1851	68.6	-2.6	79.8	43.6	36.2	10	1.360	W 27 N	4.62 Miles.
1852	65.9	-0.3	81.2	46.7	34.5	9	2.695	E 20 N	3.30 Miles.
1853	68.6	+2.4	91.6	47.6	44.0	11	2.575	S 29 E	4.23 Miles.
1854	68.0	+1.8	98.1	47.0	51.1	5	0.455	W 28 N	4.74 Miles.
1855	64.1	-2.1	82.1	44.9	37.2	7	1.455	W 27 N	6.97 Miles.
M'n.	66.21		84.26	46.33	37.93	9.32	7.19		0.19 lbs. 4.58 Miles.