

Monthly Meteorological Register, at the Provincial Magnetical Observatory, Toronto, Canada West.—August, 1854.

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.				Humidity of Air.				Wind.				Rain in Inch.
	G.A.M.	2 P.M.	10 P.M.	Mean.	6 A.M.	2 P.M.	10 P.M.	M'S.		6 A.M.	2 P.M.	10 P.M.	M'S.	6 A.M.	2 P.M.	10 P.M.	M'S.	G.A.M.	2 P.M.	10 P.M.	Mean Velfy	
1	29.594	29.486	29.487	29.510	68.6	87.5	74.5	77.12	+10.15	0.576	0.899	0.762	0.733	85	71	93	81	Calm	SSW	WbS	4.02	0.025
2	580	585	647	606	66.0	79.0	62.8	70.10	+ 3.25	467	416	441	448	74	53	79	65	WNW	NW	NNW	6.75	...
3	661	577	463	559	56.1	76.2	63.2	65.45	- 1.40	366	507	476	470	83	60	84	77	Calm	Calm	Calm	0.10	...
4	438	436	517	475	65.8	73.3	65.7	67.85	+ 1.05	486	742	515	551	78	94	84	83	Calm	SWbS	NNW	2.58	0.210
5	581	578	525	557	59.9	77.9	63.2	67.23	+ 0.43	421	563	454	504	84	61	80	78	NWBW	SbW	Calm	2.18	...
6	458	441	—	—	59.9	78.1	—	—	—	440	393	—	—	87	42	—	—	Calm	WbN	—	10.75	...
7	637	697	762	721	56.0	70.5	52.8	59.95	- 6.73	307	193	257	255	70	27	65	54	Calm	NWBW	Calm	9.51	...
8	832	845	838	836	58.2	72.6	57.7	63.48	- 3.18	365	555	304	412	77	72	65	70	NWBW	SSE	NbW	4.00	...
9	831	786	717	773	52.4	72.9	62.2	64.92	- 2.33	280	440	428	392	73	56	78	67	N	EbN	Calm	4.60	...
10	702	646	607	645	62.5	76.2	61.6	67.92	+ 1.40	423	455	522	462	76	62	88	71	NEbN	EbN	NNE	4.54	Inap.
11	599	599	595	596	64.2	80.5	64.6	69.07	+ 2.63	483	637	503	550	82	72	85	80	NEbE	E	Calm	2.17	...
12	595	545	467	526	64.4	76.1	68.1	71.65	+ 5.32	532	639	538	582	90	65	80	78	Calm	SE	WNW	1.52	Inap.
13	470	508	—	—	67.6	80.8	—	—	—	480	494	—	—	73	48	—	—	SSW	WbN	—	9.54	...
14	788	751	702	739	56.7	71.1	59.2	62.45	- 3.78	353	337	311	344	78	45	63	63	NW	SSE	Calm	3.23	...
15	409	516	576	496	59.2	75.6	53.1	62.98	- 3.17	435	373	319	380	88	43	81	70	Calm	NW	Calm	8.08	...
16	624	610	652	630	57.8	77.2	59.1	64.45	- 1.58	321	267	429	354	69	29	89	63	WNW	WbS	NW	9.05	...
17	665	677	719	689	55.3	71.6	51.3	58.60	- 7.37	347	372	275	331	81	49	74	69	NWBW	SbE	Calm	4.71	...
18	777	738	826	779	52.6	78.0	58.2	64.83	- 1.00	315	382	365	368	81	41	77	64	Calm	SEbS	Calm	2.80	...
19	715	623	579	633	55.9	81.7	59.6	66.28	+ 0.52	362	454	399	423	83	43	81	70	Calm	S	Calm	2.27	...
20	557	599	—	—	63.9	86.2	—	—	—	462	523	—	—	80	44	—	—	Calm	N	—	7.50	...
21	742	627	543	635	56.7	86.4	76.1	74.87	+ 9.43	359	596	646	550	80	49	74	66	Calm	SbE	SWbW	4.63	...
22	579	635	727	658	76.8	87.4	66.6	77.67	+12.28	542	615	466	561	60	49	74	62	WbN	NWBW	E	7.05	1.105
23	823	762	678	748	63.2	68.2	58.6	62.40	- 2.73	466	520	370	444	82	77	77	81	E NE	EbN	Calm	2.56	...
24	571	536	609	572	63.0	98.1	75.4	80.43	+15.48	501	570	655	590	89	32	77	64	Calm	W	NWBW	8.62	...
25	678	673	596	646	66.7	75.9	66.4	69.22	+ 4.48	435	393	522	463	68	45	83	68	N NW	EbN	Calm	2.99	0.040
26	583	486	583	547	60.3	87.0	69.1	73.45	+ 8.92	447	673	566	583	88	54	82	73	Calm	SbW	WbN	4.85	...
27	662	717	—	—	64.9	70.9	—	—	—	510	496	—	—	86	68	—	—	WSW	EbN	—	2.12	...
28	781	792	787	786	56.4	78.5	59.5	65.65	+ 1.52	403	425	391	413	91	45	79	70	Calm	EbS	Calm	1.87	...
29	776	715	659	713	61.1	78.4	64.0	67.42	+ 3.60	427	628	540	530	81	67	93	81	Calm	EbS	Calm	3.03	...
30	638	516	653	620	68.3	86.9	72.9	74.87	+11.25	609	693	655	649	91	56	83	78	S	SbE	Calm	4.43	0.075
31	795	819	807	795	68.7	68.7	65.0	67.20	+ 3.88	603	557	531	559	88	82	83	87	E NE	E	Calm	4.88	Inap.
M	29.669	29.639	29.642	29.647	61.24	78.24	63.46	68.03	+ 2.27	0.431	0.516	0.469	0.478	80	65	80	79	2.86	8.33	1.64	4.74	1.455

Highest Barometer..... 29.845, at 2 p.m. on 8th } Monthly range:
 Lowest Barometer..... 29.384, at 8 a.m. on 15th } 0.461 inches.
 Highest registered temperature 99°-2, at p.m. on 24th } Monthly range:
 Lowest registered temperature 45°-6, at a.m. on 18th } 53°-6.
 Mean Maximum Thermometer..... 80°-72 } Mean daily range:
 Mean Minimum Thermometer..... 55°-26 } 25°-46.
 Greatest daily range.....38°-4, from p.m. of 24th to a.m. of 25th.
 Warmest day..... 24th. Mean temperature..... 80°-43 } Difference,
 Coldest day..... 17th. Mean temperature..... 58°-60 } 21°-83.
 Greatest intensity of Solar Radiation, 107°-6 on 24th, p.m. } Range,
 Lowest point of Terrestrial Radiation, 35°-8 on 18th, a.m. } 71°-8.
 Aurora observed on 1 night: viz. on 20th.

Possible to see Aurora on 21 nights.
 Impossible to see Aurora 10 nights.
 Raining on 5 days. Raining 5.3 hours; depth, 0.455 inches, which
 was the least quantity recorded for any August during the series.
 Thunder Storms occurred on the 1st, 13th, 25th, and 30th.
 Sheet Lightning, not accompanied by thunder or rain, observed on the
 22nd, 26th, 29th, and 31st.

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

North.	West.	South.	East.
1230.21	1864.29	612.00	724.09

Mean direction of the Wind, W 28° N.
 Mean velocity of the Wind, 4.74 miles per hour.
 Maximum velocity, 26.6 miles per hour, from 4 to 5 p. m. on 6th.
 Most windy day, the 6th; mean velocity, 10.75 miles per hour.
 Least windy day, the 3rd; mean velocity, 0.10 " "
 During the thunder storm and heavy squall on the 30th, the velocity
 of the wind from 2h. 26m. to 2. 45m. p.m., averaged 31 miles per
 hour.

The observed Temperature on the 24th, at 2 p.m., was +25°-7, and at
 4 p.m., +23°-9 above the mean normal Temperature of those hours
 respectively.
 The observed Maximum on the 24th at 2 p.m. (98°-1), and the regis-
 tered Maximum on the same day (99°-2), were the highest entries
 ever made at this Observatory.
 Very few shooting stars were observed from the 9th to the 13th of
 this month, which is one of the periods usually given for the annual
 return of those Meteors.

Comparative Table for August.

Year.	Temperature.					Rain.		Wind. Mean Velfy.
	Mean.	Dif. F'm Avr'ge.	Max. obs'vd.	Min. obs'vd.	Range.	D's.	Inch.	
1840...	64.6	-1.7	80.1	47.4	32.7	12	2.905	...
1841...	64.4	-1.9	83.5	46.7	36.8	9	6.170	0.19 lb.
1842...	65.7	-0.6	80.7	45.3	35.4	6	2.500	0.30 lb.
1843...	66.4	+0.1	85.5	44.4	41.1	4	4.850	0.12 lb.
1844...	64.3	-2.0	82.5	44.3	38.2	17	Impt.	0.16 lb.
1845...	67.9	+1.6	82.5	44.4	38.1	9	1.725	0.19 lb.
1846...	68.4	+2.1	86.3	50.4	35.9	9	1.770	0.17 lb.
1847...	65.1	-1.2	83.1	44.9	38.2	10	2.140	0.19 lb.
1848...	69.2	+2.9	87.5	49.3	38.2	8	0.855	4.55 Miles.
1849...	66.3	0.0	79.5	51.4	28.1	10	4.970	3.76 Miles.
1850...	66.8	+0.5	84.2	43.0	41.2	13	4.355	4.46 Miles.
1851...	63.6	-2.7	79.8	43.6	36.2	10	1.360	4.62 Miles.
1852...	65.9	-0.4	81.2	46.7	34.5	9	2.695	3.30 Miles.
1853...	68.6	+2.3	91.6	47.6	44.0	11	2.575	4.23 Miles.
1854...	68.0	+1.7	98.1	47.0	51.1	5	0.455	4.74 Miles.
M'n.	66.35		84.41	46.43	37.98	9.5	2.809	4.26 Miles.