

Monthly Meteorological Register, at the Provincial Magnetical Observatory, Toronto, Canada West.—July, 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.				Humidity of Air.				Wind.			Mean Direct.	Mean Vel'y.	Rain in Inch.
	6 A.M.	2 P.M.	10 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	29.448	29.337	—	—	70.7	79.1	—	—	0.584	0.657	—	—	81	68	—	—	S S W	SW b S	S S W	S 16 W	9.24	...	
2	392	481	29.663	29.529	62.2	73.7	58.7	65.3	+ 0.3	454	449	390	433	83	56	81	75	S S W	S S W	NW b W	W 9 S	11.37	...
3	760	717	536	661	68.9	63.2	56.8	60.2	- 4.9	398	394	399	386	82	70	89	77	Calm	E b S	E N E	E 6 N	8.79	...
4	454	418	525	475	62.3	74.5	66.8	68.2	+ 2.9	482	649	616	611	88	67	81	76	E b N	S S W	NW b W	W 16 S	8.69	0.005
5	688	743	776	733	69.7	68.6	60.2	62.3	- 3.1	387	482	444	413	77	71	87	76	W b N	S b W	S S W	S 19 W	6.41	...
6	713	677	675	686	59.7	72.0	59.9	64.3	- 1.4	420	480	375	422	84	63	74	71	Calm.	S b E	N N W	N 16 W	6.55	...
7	724	744	803	768	56.0	68.0	54.2	69.9	- 5.8	364	394	307	336	83	59	74	67	N b W	S b W	NW b N	N 42 W	8.97	...
8	815	833	—	—	56.3	67.6	—	—	—	338	418	—	—	76	63	—	—	W N W	S S E	S S E	S 34 E	5.92	...
9	769	606	509	610	60.3	71.4	63.9	64.9	- 1.1	472	467	487	471	92	62	84	79	N E	S b E	S b W	E 9 S	8.01	0.10
10	527	547	623	570	69.8	75.9	59.3	68.0	+ 1.9	574	575	379	488	81	67	77	73	N W	S b W	W b S	W 28 N	5.82	...
11	612	523	497	533	61.7	76.6	65.9	68.6	+ 2.5	423	556	502	496	78	62	81	73	W N W	S b E	S b W	S 25 W	5.49	[nap.
12	481	407	386	427	63.9	74.3	68	68.4	+ 2.1	493	614	555	554	86	74	82	82	S S W	S S E	E b N	S 16 W	4.07	4.10
13	385	426	525	440	62.5	66.6	59.2	62.9	- 3.5	511	524	362	459	93	83	74	82	Calm.	S	N b W	N 36 W	6.27	2.55
14	625	657	653	644	60.3	72.0	60.8	64.5	- 1.9	382	359	333	363	75	47	64	62	E S E	S	N E E	S 41 E	5.05	...
15	668	698	—	—	61.3	75.0	—	—	—	461	605	—	—	78	72	—	—	N E E	E b S	S S W	E 8 S	5.09	...
16	764	741	729	742	72.4	82.1	71.8	76.1	+ 9.5	648	711	639	675	84	67	84	78	N N W	S b W	S W	S 26 W	9.11	...
17	711	671	695	688	74.5	87.2	74.9	78.8	+ 12.1	701	700	692	689	85	56	83	74	SW b W	W b S	N I. W	W 12 S	5.98	...
18	723	629	532	616	69.6	84.3	74.5	76.5	+ 9.8	666	762	711	713	95	67	87	81	Calm	S	S S W	S 19 W	8.41	...
19	480	427	537	492	75.9	88.4	72.1	79.4	+ 12.7	751	709	559	675	87	55	73	70	SW b W	W	N b W	W 28 S	13.08	2.95
20	700	750	744	723	59.9	61.2	59.7	60.7	- 6.1	487	422	410	428	9	80	82	83	N E	E N E	N b W	N 28 E	6.17	0.90
21	754	778	774	768	59.4	65.0	56.9	60.6	- 6.1	427	395	342	396	86	66	75	77	N b E	E	N N E	E 32 N	8.41	...
22	775	731	—	—	61.7	65.6	—	—	—	466	478	—	—	87	78	—	—	N E	E	N E E	E 16 N	6.20	0.35
23	721	695	721	712	60.7	71.0	62.0	64.9	- 2.0	465	520	496	511	89	76	91	86	N N E	S E	N E	E 2 S	4.55	3.25
24	706	646	654	669	62.7	69.2	62.5	64.9	- 1.9	478	565	513	533	86	81	93	89	N N E	E N E	Calm	E 21 N	4.13	0.05
25	668	670	646	661	66.9	71.8	67.5	68.7	+ 1.7	584	568	590	592	92	75	91	87	N	E S E	Calm	S 40 E	2.45	1.205
26	594	517	518	540	67.2	76.3	68.6	70.3	+ 3.4	607	749	690	662	93	85	97	92	N E b E	S b E	E b S	S 34 E	2.49	[nap.
27	515	451	379	454	70.4	79.5	70.5	73.4	+ 6.4	603	769	652	690	94	78	90	86	N b E	S b E	N E b E	S 43 E	6.63	3.15
28	387	470	513	459	69.3	74.4	71.1	73.0	+ 6.0	650	733	640	665	91	89	86	85	S	NW b N	NW b W	W 2 S	4.23	1.95
29	575	611	—	—	69.3	79.0	—	—	—	597	711	—	—	86	74	—	—	NW b N	S	E N E	N 26 E	5.33	0.40
30	623	606	619	612	68.9	76.1	66.4	70.2	+ 3.2	655	675	557	622	96	77	89	87	N	S S E	N	E 24 S	4.00	...
31	641	683	677	672	67.1	74.9	63.6	71.6	+ 4.6	575	725	511	598	90	87	75	79	N E b E	S E b S	N N E	E 20 N	3.67	...
M	29.619	29.603	29.612	29.611	64.7	73.8	64.7	67.9	+ 1.7	0.525	0.571	0.504	0.530	87	70	82	77	4.33	9.23	5.14	S 19 W	6.47	3.245

Highest Barometer..... 29.833, at 2 p.m. on 8th } Monthly range:
 Lowest Barometer..... 29.337, at 2 p.m. on 1st } 0.496 inches.
 Highest registered temperature 92° 8, at p.m., 19th } Monthly range:
 Lowest registered temperature 49° 2, at a.m. on 8th } 43° 6.
 Mean Maximum Thermometer..... 76° 75 } Mean daily range:
 Mean Minimum Thermometer..... 60° 05 } 16.70
 Greatest daily range..... 33° 0, from p.m. of 19th to a.m. of 20th.
 Least daily range..... 6° 2, from p.m. of 20th, to a.m. of 21st.
 Warmest day..... 19th. Mean temperature..... 79° 45 } Difference,
 Coldest day..... 7th. Mean temperature..... 59° 93 } 19° 52.
 Greatest intensity of Solar Radiation, 108° 5 on p.m. of 19th } Range,
 Lowest point of Terrestrial Radiation, 40° 2 on a.m. of 14th } 68° 3.
 Aurora observed on 2 nights: viz. on 19th and 21st.
 Possible to see Aurora on 19 nights. Impossible on 12 nights.
 Raining on 13 days. Raining 36.6 hours: depth, 3.245 inches.
 Mean of Cloudiness, 0.59. Halo round the Moon on 24th.
 Thunder storms occurred on the 12th, 13th, 27th, and 30th.
 Sheet lightning and distant thunder on 1st, 3rd, 9th, 11th, 15th, 18th,
 25th, and 29th.

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

North.	West.	South.	East.
1363-51	1460-45	1876-87	1280-13.

Mean direction of Wind, S 19° W. Mean velocity 6.47 miles per hour.
 Maximum velocity, 24.0 miles per hour, from 2 to 3 p.m. on 19th.
 Most windy day, the 19th; mean velocity, 13.08 miles per hour.
 Least windy day, the 25th; mean velocity, 2.45 " "
 Most windy hour, 3 p.m.; Mean velocity, 9.98 miles per hour.
 Least windy hour, 5 a.m.; Mean velocity, 4.32 " "
 Mean diurnal variation, 5.66 miles.

The Mean Temperature of July, 1855, has been 1° 1 above the average of the last 16 years, and the 19th was the warmest day with two exceptions (July 12, 1845, and July 3, 1854) since the commencement of the Observations. The number of days on which Rain fell has been greater than in any previous July, but the quantity fallen has been 0.475 inch less than the average. The Mean Velocity of the Wind has been 2.11 miles per hour above the average of the last eight years, and the 19th was the most windy day in any July during the same period.

Comparative Table for July.

Year.	Temperature.				Range	Rain.		WIND.		Mean Velocity in Miles.
	Mean.	Dif. from 1870.	Max. obs'd	Min. obs'd		D's.	Inch.	M'n Direc.		
1840	65.8	-1.0	79.4	48.2	31.2	6	5.270	...	0.27	lbs.
1841	65.0	-1.8	86.3	43.2	43.1	10	8.150	...	0.33	lbs.
1842	64.7	-2.1	90.5	42.0	48.5	4	3.050	...	0.44	lbs.
1843	64.5	-2.3	86.1	40.2	45.9	8	4.605	...	0.19	lbs.
1844	66.0	-0.8	86.1	40.5	45.6	12	2.815	...	0.30	lbs.
1845	66.2	-0.6	94.6	45.6	49.0	7	2.195	...	0.29	lbs.
1846	68.0	+1.2	94.0	44.9	49.1	9	2.897	...	0.19	lbs.
1847	68.0	+1.2	87.5	43.8	43.7	8	3.355	...	4.94	Miles.
1848	65.5	-1.3	82.7	46.7	36.0	10	1.890	N 14 W	8.62	Miles.
1849	68.4	+1.6	89.1	51.0	38.1	4	3.415	S 5 W	4.56	Miles.
1850	68.9	+2.1	84.9	52.8	32.1	12	5.270	E 9 N	4.13	Miles.
1851	65.0	-1.8	82.7	52.1	30.6	12	3.625	W 30 N	3.33	Miles.
1852	66.8	0.0	90.1	49.5	40.6	8	4.025	W 45 N	3.70	Miles.
1853	65.6	-1.2	85.4	49.4	36.0	10	0.915	E 14 S	4.26	Miles.
1854	72.5	+5.7	93.6	53.0	40.6	9	4.805	W 32 S	6.47	Miles.
1855	67.9	+1.1	88.4	53.1	35.3	13	3.245	S 19 W	0.29	lbs.
M'n.	66.80		37.59	47.25	40.34	8.9	3.720		4.36	Miles.