

Monthly Meteorological Register, at the Provincial Magnetical Observatory, Toronto, Canada West.—October, 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.	Snow 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	29.460	29.418	29.372	29.412	52.4	63.2	55.1	56.9	+ 0.5	0.358	0.454	0.398	0.401	93	81	93	88	N b W	S b W	N E	W 37 N	4.55	0.285	...
2	311	293	306	300	54.9	60.4	51.0	55.2	+ 0.3	392	409	334	380	93	80	91	89	W b N	S S W	N W	W 24 N	4.12	0.200	...
3	248	236	341	279	52.8	59.8	50.3	53.1	+ 3.6	323	336	234	305	82	67	80	77	N W b N	N W	W b N	N 43 W	10.39	...	...
4	360	336	375	336	40.2	62.6	55.7	53.7	+ 4.7	208	389	365	335	84	72	85	82	Calm	S S E	W S W	...	...	Inap.	...
5	332	370	317	355	58.1	64.9	58.9	59.8	+ 11.2	428	422	436	447	92	82	88	89	S S E	S W	Calm	...	...	0.430	...
6	240	234	441	310	50.7	47.8	42.4	46.9	+ 1.3	336	256	216	261	92	78	81	81	N	W N W	W	...	...	0.160	...
7	521	543	...	...	37.5	47.7	...	...	...	207	260	...	...	93	80	...	...	S W	W	...	...	...	Inap.	...
8	524	529	587	552	41.2	46.9	37.7	42.1	+ 5.4	205	271	206	227	80	85	91	85	W S W	S S W	W	...	...	0.030	...
9	588	514	720	618	40.3	59.5	50.5	50.3	+ 3.2	224	331	302	301	90	76	84	83	W N W	S S W	W N W	W 31 S	7.45	...	...
10	587	870	707	800	44.2	50.8	51.7	48.7	+ 2.1	246	290	341	239	86	80	90	85	N E b N	E b N	E b S	E 19 N	7.55	0.015	...
11	423	555	639	541	52.6	54.3	40.6	48.7	+ 2.5	364	170	187	246	94	40	74	72	E b S	W b S	W b S	W 1 S	13.97	Inap.	...
12	698	702	704	700	30.9	41.8	35.1	36.2	+ 9.7	143	127	159	146	82	49	79	70	W N W	N W b W	W b N	W 18 N	10.67	Inap.	0.1
13	611	494	424	502	24.6	34.5	38.6	36.6	+ 8.9	140	181	210	183	92	92	91	84	W	W N W	W N W	W 18 N	14.47	0.270	Inap.
14	426	490	...	...	40.2	46.5	...	...	...	227	227	...	...	92	73	...	...	W N W	N E b N	N b W	N 10 W	5.22	0.015	...
15	514	489	667	560	41.4	52.4	44.0	46.1	+ 1.3	237	337	191	263	92	87	68	84	Calm	E b S	W	W	7.74	...	Inap.
16	823	855	912	868	33.7	44.2	29.9	36.3	+ 8.2	170	170	142	159	89	59	85	76	W N W	W b N	W b N	W 21 N	8.27	...	...
17	881	762	696	776	29.0	47.1	44.9	40.9	+ 3.3	140	213	248	203	87	67	83	79	W b N	S E b S	S	S 15 E	6.32	0.020	...
18	617	516	588	579	45.8	58.2	45.4	49.9	+ 5.9	261	350	270	289	86	73	90	82	S b E	S E b S	E b S	S 26 E	5.47	...	...
19	579	532	595	570	37.5	62.9	50.3	52.0	+ 9.2	192	355	313	310	86	69	87	80	S b E	S S E	W b S	S 13 E	7.95	...	...
20	623	633	678	645	45.0	60.5	54.2	53.6	+ 10.0	265	297	358	304	90	58	86	76	W b N	N W b W	N W	W 43 N	9.91	...	...
21	585	290	...	...	50.8	51.8	...	...	...	232	230	...	...	77	60	...	...	N E	N E b N	S S W	E 20 S	13.98	0.510	...
22	487	593	681	596	39.3	45.6	37.9	40.9	+ 2.6	212	174	174	178	89	57	77	72	S S W	S W	W	W 31 S	9.45	...	...
23	632	612	682	647	35.3	36.6	33.7	34.8	+ 7.9	172	169	165	166	82	79	88	82	W b N	N W b W	W b N	W 32 N	6.49	...	0.7
24	699	629	561	629	28.0	33.0	31.9	31.0	+ 11.5	131	129	143	135	84	63	79	77	N W	N N W	N W b N	W 36 W	14.69	...	...
25	514	538	646	571	31.6	37.2	35.3	34.8	+ 7.4	150	141	181	150	84	64	88	75	N W	N W	N W	W 12 N	12.57	...	Inap.
26	628	380	293	432	35.2	42.2	44.5	41.1	+ 0.6	149	167	201	171	72	60	69	66	S W b S	S b W	W b S	S 29 W	16.99	0.015	...
27	322	378	111	250	40.9	48.5	42.9	43.9	+ 2.1	178	203	233	214	70	60	85	75	S W b W	W	E S E	W 16 S	15.16	0.250	...
28	180	566	...	...	39.3	47.9	...	...	...	228	188	...	...	95	57	...	...	N W	N W	N W	W 12 N	15.67	Inap.	...
29	781	588	427	580	32.3	50.4	47.4	44.0	+ 2.8	156	230	296	222	86	63	90	77	W N W	S	S b W	S 32 W	8.68	0.045	...
30	538	683	893	731	44.9	52.7	37.3	43.8	+ 2.8	208	136	131	148	70	34	58	54	W N W	W b N	N b E	W 24 N	11.86	...	...
31	923	719	607	730	31.6	46.7	50.3	44.2	+ 3.5	152	219	304	236	86	70	85	81	N E	E	S b W	E 30 S	7.92	0.420	...
M	29.566	29.533	29.535	29.531	30.9	50.6	44.4	45.4	+ 0.3	0.228	0.262	0.251	0.247	85	69	83	76	8.11	14.15	7.79	W 8 N	9.88	2.485	0.8

Highest Barometer..... 29.923, at 6 a.m. on 31st } Monthly range:
 Lowest Barometer..... 28.943, at midnt. on 27th } 0.978 inches.
 Highest registered temperature 68° 0, at p.m., on 5th } Monthly range:
 Lowest registered temperature 22° 6, at a.m. on 12th } 45° 4.
 Mean Maximum Thermometer..... 52° 60 } Mean daily range:
 Mean Minimum Thermometer..... 31° 55 } 18.05.
 Greatest daily range..... 32° 2, from p.m. of 11th, to a.m. of 12th.
 Least daily range..... 9° 4, from p.m. of 24th, to a.m. of 25th.
 Warmest day..... 5th. Mean temperature..... 59° 83 } Difference,
 Coldest day..... 24th. Mean temperature..... 30° 98 } 28° 85.
 Greatest intensity of Solar Radiation, 50° 4 on p.m. of 1st } Range,
 Lowest point of Terrestrial Radiation, 20° 0 on a.m. of 17th } 60° 4.
 Aurora observed on 4 nights: viz. on 3rd, 4th, 11th and 16th.
 Possible to see Aurora on 17 nights. Impossible on 13 nights.
 Raining on 14 days. Raining 47.3 hours; depth, 2.485 inches.
 Snowing on 5 days. Snowing 9.8 hours; depth, 0.3 inches.
 Mean of Cloudiness, 0.63.
 Thunder storms occurred on 11th at 5 a.m. (slight), and on 29th from
 6 to 9 p.m., which was very severe, accompanied with lightning,
 hail and rain.
 Halo's observed round the Moon on 19th at 10 p.m., diameter 43°, and
 on the 22nd at 10 p.m., diameter 44°.
 Rainbow noted on 5th at 6.45 a.m.

Mean diurnal variation, 6.88 miles.
 First Snow observed this season at 8 a.m. on the 13th.
 Indian Summer from 16th to 26th (not well marked).
 The Components and Velocity of the Wind are imperfect from the 4th to
 5th inclusive—the Anemometer having been out of order.
 The mean temperature of this month, and the quantities of Rain and Snow
 differ but little from the average; but the mean velocity of the Wind
 has surpassed the average of the last 8 years by 4.51 miles per hour,
 being greater than any other month during that period, with the excep-
 tion of March 1855.

Comparative Table for October.

Year.	Temperature.				Rain.		Snow.		Wind.		
	Mean.	Diff. from Ave	Max. obs'd	Min. obs'd	Range	D's.	Inch.	D's.	Inch.	Mean Velocity in Miles.	
1840	44.4	-0.8	68.5	23.9	44.6	13	1.860	3	...	...
1841	41.6	-3.6	58.3	20.3	38.0	6	1.360	2	...	0.41 lbs.	
1842	45.1	-0.1	68.5	30.0	38.5	8	5.175	0	...	0.35 lbs.	
1843	41.8	-5.4	65.7	24.5	41.2	12	3.790	4	2.5	0.54 lbs.	
1844	43.2	-1.9	69.6	17.8	51.8	7	impl.	4	12.0	0.43 lbs.	
1845	46.1	+1.2	62.7	20.0	42.7	11	1.760	1	Inap.	0.26 lbs.	
1846	44.6	-0.6	63.7	20.7	43.0	14	4.150	2	Inap.	0.41 lbs.	
1847	44.0	-1.2	65.0	20.3	44.7	13	4.390	2	Inap.	0.19 lbs.	
1848	46.3	+1.7	62.2	26.4	35.8	11	1.530	0	0.0	4.60 Mils.	
1849	45.3	+0.1	59.2	25.5	33.7	13	5.965	1	Inap.	N 12 W	4.76 Mils.
1850	45.1	+0.2	66.6	21.8	41.8	10	2.055	0	0.0	W 24 N	5.30 Mils.
1851	47.4	+2.2	66.1	25.0	41.1	10	1.680	2	0.3	W 18 S	4.39 Mils.
1852	48.0	+2.8	70.7	29.8	40.9	12	5.280	0	0.0	N 5 E	4.47 Mils.
1853	44.4	-0.8	61.7	25.5	39.2	10	0.875	2	Inap.	W 2 S	4.72 Mils.
1854	49.5	+4.3	74.2	29.8	44.4	15	1.495	3	Inap.	N 25 E	4.60 Mils.
1855	45.4	+0.2	61.3	28.0	36.3	14	2.485	5	0.8	W 8 N	9.88 Mils.
M'n.	45.18		66.00	24.62	41.48	11.2	2.929	1.0	1.2		0.37
											5.34 lbs.

Sum of the Atmospheric Current, in miles, resolved into the four Cardinal directions.
 North. 1958.95 West. 3690.27 South. 1524.07 East. 661.89
 Mean direction of Wind, W 3° N. Mean velocity 9.88 miles per hour.
 Maximum velocity, 32.3 miles per hour, from 5 to 6 a.m. on 29th.
 Most windy day, the 26th; mean velocity, 16.99 miles per hour.
 Least windy day, the 2nd; mean velocity, 4.12 " "
 Most windy hour, 1 p.m.; Mean velocity, 14.27 miles per hour.
 Least windy hour, 6 a.m.; Mean velocity, 7.39 " "