

Monthly Meteorological Register, at the Provincial Magnetical Observatory, Toronto, Canada. West.—December, 1853.

Latitude, 43 deg. 89.4 min. North. Longitude, 79 deg. 21. min. West. Elevation above Lake Ontario, 108 feet.

Magn.	Day.	Barom. at tem. of 32 deg.				Tem. of the Air.				Tension of Vapour.				Humidity of Air.				Wind.			Mean Vel'y in Miles.	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.			
a	1	29.760	29.741	29.683	29.729	30.5	29.3	29.4	29.33	0.155	0.118	0.127	0.123	91	70	78	75	N b E	N N E	N E b N	6.57	...	Inap.
b	2	.624	.693	.634	.616	26.0	28.5	29.8	28.02	.122	.122	.122	.124	86	77	78	80	N E	N E b N	N b W	5.49	...	...
b	3	.581	.768	.902	.767	31.8	29.5	22.0	26.97	.148	.113	-.096	.117	82	70	79	77	N W b N	N W	N b W	8.96	...	...
c	4	.945	.909	—	—	19.0	28.4	—	—	.095	.134	—	—	89	84	—	—	N W b W	W S W	—	1.65	...	2.3
c	5	.762	.752	.738	.744	26.3	34.8	32.5	29.88	.125	.169	.168	.146	86	84	92	87	Calm	Calm	W b N	0.99	0.450	...
c	6	.424	.326	.697	.480	35.9	40.6	33.8	36.67	.180	.203	.153	.178	81	81	78	82	S b E	W b S	N W	9.80	0.015	Inap.
a	7	.880	.952	.984	.944	27.4	25.1	20.0	23.65	.140	.110	.094	.108	93	79	84	82	N b W	N b W	Calm	4.97	...	...
a	8	.938	.817	.744	.827	33.0	33.0	29.1	28.53	.109	.131	.141	.128	85	70	88	81	Calm	S W	SW b W	3.94	...	...
b	9	.787	.650	.664	.685	20.2	39.5	30.9	29.82	.095	.190	.130	.135	85	79	75	78	Calm	SW b W	Calm	2.08	...	...
a	10	.650	.612	.537	.633	25.5	41.6	32.3	32.95	.116	.183	.144	.149	81	70	79	79	Calm	S W	Calm	1.80	...	...
a	11	.650	.669	—	—	27.1	42.2	—	—	.123	.153	—	—	82	57	—	—	S W	SS W	—	1.98	...	...
a	12	.766	.708	.766	.750	34.8	39.5	37.2	37.00	.176	.206	.196	.192	88	86	89	88	N E b E	Calm	N b E	1.88	...	...
b	13	.862	.864	.877	.868	35.9	39.1	28.7	34.03	.169	.194	.137	.164	81	82	87	83	N E	N N E	Calm	0.95	...	...
b	14	.800	.749	.762	.769	32.3	35.9	34.5	34.13	.162	.164	.171	.166	89	78	86	84	Calm	W b S	Calm	1.30	...	...
c	15	.721	.669	.614	.667	34.3	35.3	33.8	34.38	.170	.170	.166	.170	87	83	86	86	Calm	W b N	Calm	1.42	Inap.	...
c	16	.533	.454	.384	.434	36.8	38.3	33.4	36.13	.200	.198	.174	.192	92	86	92	90	Calm	W b S	Calm	0.72	0.050	0.3
b	17	.300	.137	28.969	.126	33.2	34.6	21.9	29.23	.180	.171	.091	.145	95	86	75	87	Calm	NE b N	N	11.01	...	0.3
c	18	.096	.288	—	—	15.8	16.3	—	—	.078	.065	—	—	83	68	—	—	N N W	N N W	—	9.13	...	0.1
c	19	.531	.583	29.701	.617	9.0	15.4	4.9	9.73	.061	.069	.045	.060	93	75	77	83	N N W	N b E	N b E	2.93	...	0.3
c	20	.777	.838	.943	.866	10.8	21.9	19.0	16.70	.051	.078	.081	.070	67	65	76	71	N b E	W b N	W b S	3.92	...	...
d	21	.937	.833	.656	.801	19.4	21.3	24.1	21.72	.087	.090	.115	.099	80	76	86	81	W	Calm	SW b S	2.35	...	0.4
c	22	.618	.616	.461	.549	28.7	33.2	33.2	31.83	.129	.135	.173	.148	80	71	92	82	W S W	SW b W	S S E	2.64	0.110	0.1
c	23	.083	.154	.508	.265	33.8	27.1	17.6	25.20	.180	.104	.080	.114	94	69	79	79	W b S	W b N	N W b W	13.32	...	Inap.
b	24	.608	.447	.453	.504	17.2	23.6	14.2	17.97	.081	.097	.076	.084	81	74	86	81	W S W	W S W	W b S	8.54	...	...
a	25	.501	.474	—	—	30.2	32.5	—	—	.150	.141	—	—	89	77	—	—	W	W S W	—	6.82	...	2.8
a	26	28.973	29.061	—	—	29.8	30.6	—	—	.154	.147	—	—	94	86	—	—	S S E	N N W	—	7.64	...	Inap.
a	27	29.520	.506	.485	.503	19.4	22.3	25.8	22.22	.092	.106	.118	.100	84	86	83	80	N b E	N N E	N E	6.07	...	3.0
d	28	.459	.498	.500	.483	14.4	10.6	7.1	8.68	.074	.057	.051	.056	83	77	77	80	N E	NE b N	N N E	8.99	...	0.5
b	29	.529	.496	.411	.474	-3.9	7.1	2.9	2.43	.024	.044	.048	.036	62	66	70	61	N	N b W	N W b N	4.83	...	2.3
b	30	.293	.084	.100	.159	8.0	18.0	14.4	13.47	.053	.088	.078	.074	79	85	89	85	N E	E N E	N b N	8.43	...	6.5
b	31	.201	.238	.424	.298	5.7	27.3	16.5	17.72	.042	.136	.087	.093	70	90	90	84	N N E	Calm	W	4.32	...	3.4
M		29.611	29.580	29.605	29.5984	23.71	28.94	24.19	25.32	0.120	0.132	0.118	0.122	84	78	82	81	3.84	6.10	4.50	4.98	0.625	22.3

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

North. 1876.38. West. 1690.09. South. 460.62. East. 585.70.

Mean direction of Wind N W b N.

Mean velocity of the Wind... 4.98 miles per hour.

Maximum velocity ..... 25.0 miles per hour, from 9 to 10 p.m. on 17th.

Most windy day..... 23rd; Mean velocity... 13.32 miles per hour.

Least windy day ..... 16th; Mean velocity... 0.72 ditto.

Raining on 4 days. Raining 11.0 hours.

Snowing on 13 days. Snowing 60.8 hours.

Toronto Bay frozen over on the morning of the 19th.

First Sleighing in Toronto on the 16th.

Toronto Bay crossed on foot on the 21st, going and returning from Toronto to the Peninsula.

Highest Barometer..... 29.984, at 10 p.m. on 7th } Monthly range:  
Lowest Barometer ..... 28.952, at midnight, 17th } 1.032 inches.

Highest temperature... 46.4, at p.m. on 11th } Monthly range:  
Lowest temperature ... -8°4. at a.m. on 29th } 54°8.

Mean Maximum Thermometer ..... 31.32 } Mean daily range, 14.14.

Mean Minimum Thermometer ..... 17.18 }

Greatest daily range ..... 24.9, from p.m. 27th to a.m. of 28th.

Warmest day ..... 12th. Mean temperature ..... 37.00 } Difference  
Coldest day ..... 29th. Mean temperature ..... 2.43 } 34°57.

Aurora observed on 5 nights. Possible to see Aurora on 8 nights. Impossible to see Aurora, 18 nights.

Comparative Table for December.

Year.	Temperature.				Rain.		Snow.		Wind Mean Vel'y.
	Mean.	Max. obs'vd.	Min. obs'vd.	Range.	Ds.	Inch.	D'ys	Inch.	
1840	24.3	41.0	-4.4	45.4	3	0.000	18	Not Record'd.	
1841	28.7	45.5	+2.4	43.1	7	6.600	5	Not Record'd.	
1842	24.7	40.3	+3.8	36.5	3	0.880	17	Not Record'd.	
1843	30.0	41.1	+2.7	38.4	6	1.040	8	8.1	0.53 lb.
1844	28.2	48.9	-0.8	49.7	6	imp.	6	4.2	0.40 lb.
1845	21.1	37.6	-2.7	40.3	2	0.000	12	4.7	0.70 lb.
1846	27.5	49.2	+3.7	45.5	5	1.215	9	6.0	0.57 lb.
1847	30.1	50.0	+6.6	43.4	7	1.185	8	6.8	4.55 Miles.
1848	29.1	49.1	+0.6	48.5	7	2.750	7	16.5	5.44 Miles.
1849	26.5	41.3	-5.2	46.5	5	0.840	12	9.6	6.23 Miles.
1850	21.7	48.3	-9.7	58.0	2	0.190	18	29.5	7.40 Miles.
1851	21.5	43.8	-10.5	54.3	6	1.075	15	10.7	7.37 Miles.
1852	31.9	41.0	+13.9	27.1	7	3.995	10	20.1	6.54 Miles.
1853	25.3	42.2	-5.2	47.4	4	0.625	13	22.3	4.98 Miles.
M'n.	26.47	44.24	-0.34	44.58	57	1.569	11.3	12.59	0.55 lb. 6.07 Miles.