

REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR JANUARY, 1870

NOTE.—The monthly means do not include Sunday observations. The daily means, excepting those that relate to the wind, are derived from six observations daily, namely at 6 A.M., 8 A.M., 2 P.M., 4 P.M., 10 P.M., and midnight. The means and resultants for the wind are from hourly observations.

Highest Barometer 30.212 at 10 a.m. on 14th. } Monthly range= 2.016 inches.
 Lowest Barometer 28.166 at 9:30 p.m. on 24. }
 { Maximum Temperature 45.0 on 17th } Monthly range= 4.892
 { Minimum Temperature -3.2 on 9th }
 { Mean Maximum Temperature 32.16 } Mean daily range= 14.97
 { Mean Minimum Temperature 17.58 }
 { Greatest daily range 36.2 from a.m. of 14th to a.m. of 15th.
 { Least daily range 2.8 from a.m. to p.m. of 21st.
 Warmest Day 16th. Mean Temperature 36.905 } Difference= 29.42
 Coldest Day 13th. Mean Temperature 6.603 }
 Radiation { Solar 64.0 on 27th } Monthly range= 66.90
 { Terrestrial 11.05 on 9th }
 Aurora observed on 4 nights viz., 4th, 8th, 27th and 28th.
 Possible to see Aurora on 10 nights; impossible on 18 nights.
 Snowing on 18 days; depth 21.3 inches; duration of fall 112.0 hours.
 Hailing on 8 days; depth 3.412 inches; duration of fall 80.7 hours.
 Mean of Cloudiness=0.77.

WIND.

Resultant Direction S. 89° W.; Resultant Velocity 2.63.

Mean Velocity 8.35 miles per hour.

Maximum Velocity 29.0 miles, from 7 to 8 p.m. of 17th.

Most Windy day 2d; Mean Velocity 18.40 miles per hour

Least Windy day 20th; Mean Velocity 2.90 miles per hour

Most Windy hour 10 p.m.; Mean Velocity 11.42 miles per hour.

Least Windy hour 6 a.m.; Mean Velocity 6.01 miles per hour.

Solar halos on 16th and 28th. Lunar halos on 8th, 13th, 19th, 20th and 21st.
 Fog on 11th, 17th and 19th.

2nd January.—Very great diminution of atmospheric pressure, accompanied by a heavy storm of wind from the E., with rain and snow. Although the wind had veered to W.N.W. and the lateral velocity considerably decreased, the barometer did not indicate the lowest pressure till 9.30 p.m., when it read 28.165, a change of 1.283 inches from 8 a.m. of previous day, and the lowest pressure recorded at Toronto.

The record of the wind is incomplete for this month, the anemometer being under repair from the 18th to the 26th

COMPARATIVE TABLE FOR JANUARY

YEAR	TEMPERATURE.				RAIN.			SNOW.			WIND	
	Mean.	Excess above average.	Max. min.	Range.	No. of days.	Inches.	No. of days.	Inches.	No. of days.	Inches.	Direction.	Resultant Velocity.
1842	27.0	+ 4.8	48.4	9 to 47.6	6	2.176	0	...	0	...	...	0.78 the
1843	28.7	+ 6.6	55.4	- 1.8 to 57.2	7	4.233	12	14.2	12	14.2	...	0.60
1844	20.2	+ 2.9	45.1	- 7.2 to 62.1	7	4.603	11	24.0	11	24.0	...	0.70
1845	26.5	+ 3.4	43.7	- 0.5 to 45.6	6	1.111	0	...	0	...	...	0.58
1846	26.7	+ 3.4	44.0	- 1.3 to 45.3	6	2.332	10	6.0	10	6.0	...	1.19
1847	23.3	+ 0.2	42.4	- 2.7 to 39.7	7	2.132	5	7.1	5	7.1	...	0.63
1848	28.7	+ 6.6	51.1	11.4 to 62.6	7	2.243	8	7.1	8	7.1	N 82 W	2.03
1849	18.1	+ 4.6	39.5	- 14.2 to 53.7	4	1.171	10	9.2	10	9.2	N 63 W	2.08
1850	29.7	+ 6.6	46.4	0.6 to 56.2	5	1.256	8	6.2	8	6.2	N 37 W	3.20
1851	25.5	+ 2.4	43.4	- 12.8 to 56.2	4	1.272	10	7.8	10	7.8	N 77 W	3.14
1852	18.4	+ 4.7	37.3	- 10.6 to 49.0	0	0.000	10	30.9	10	30.9	N 68 W	2.52
1853	23.6	+ 0.5	46.4	- 9.1 to 50.0	1	0.294	6	7.5	6	7.5	N 27 W	2.52
1854	25.0	+ 7.1	49.0	- 5.4 to 54.4	7	1.270	11	7.6	11	7.6	N 77 W	2.41
1855	16.0	+ 2.8	49.0	- 12.6 to 46.4	6	0.525	13	23.3	13	23.3	N 75 W	6.24
1856	12.8	+ 10.3	37.2	- 20.1 to 57.3	3	1.121	10	21.8	10	21.8	N 70 W	4.46
1857	30.0	+ 0.9	47.4	6.5 to 40.9	6	1.152	11	4.0	11	4.0	N 81 W	3.17
1858	26.4	+ 3.3	43.2	- 26.5 to 69.7	6	0.746	10	8.7	10	8.7	N 89 W	6.06
1859	23.4	+ 0.3	46.4	- 6.8 to 53.2	4	0.083	23	20.5	23	20.5	N 86 W	2.92
1860	19.9	+ 3.2	37.7	- 11.2 to 48.2	5	3.115	19	27.4	19	27.4	N 26 W	2.69
1861	21.7	+ 1.4	44.6	- 2.6 to 47.1	10	1.122	17	20.6	17	20.6	N 61 W	1.14
1862	25.1	+ 5.0	47.0	- 14.0 to 61.0	5	1.163	14	26.3	14	26.3	N 73 W	6.00
1863	24.8	+ 0.3	41.2	- 9.0 to 53.2	1	0.446	18	14.8	18	14.8	N 85 W	4.80
1864	17.7	+ 5.4	37.2	- 9.0 to 46.7	4	0.521	19	10.3	19	10.3	N 75 W	2.98
1865	20.7	+ 2.4	44.0	- 14.0 to 58.1	2	1.111	21	42.0	21	42.0	N 65 W	6.06
1866	17.0	+ 5.6	43.8	- 7.0 to 46.0	4	0.587	12	9.8	12	9.8	N 83 W	3.07
1867	27.7	+ 4.6	45.0	- 1.0 to 46.0	8	3.412	18	21.3	18	21.3	N 72 W	3.40
1868	21.4	+ 1.3	45.0	- 5.2 to 48.2	8	3.412	18	21.3	18	21.3	N 89 W	2.63
1869	23.10	...	43.80	- 7.0 to 50.34	4.37	1.163	13.53	15.77	13.53	15.77	N 78 W	3.07
Resultant for 1869	...	...	...	...	...	...	...	...	...	...	...	...
Excess for 70	1.35	...	+ 1.20	3.84	2.64	3.63	2.21	4.47	5.53	...	...	0.79