

REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR JANUARY.

Highest Barometer..... 30.408 at 10 a. m., on 8th } Monthly range =
 Lowest Barometer..... 28.973 at 8 a. m., on 11th } 1.435
 { Maximum Temperature..... 47°.4 on p. m., of 26th } Monthly range =
 { Minimum Temperature..... 6°.5 on a. m., of 31st } 40°.9
 { Mean maximum Temperature..... 35°27' } Mean daily range =
 { Mean minimum Temperature..... 23°75' } 11.54
 { Greatest daily range..... 25°5' from a. m. to p. m. of 10th.
 { Least daily range..... 2°6' from p. m. of 28th to p. m. of 29th.
 Warmest day..... 26th ... Mean temperature..... 42.82 } Difference = 25°45.
 Coldest day..... 30th ... Mean temperature..... 17°37 }
 Maximum { Solar..... 59°.8 on 13th, } Monthly range =
 { Terrestrial..... 1.8 on 31st. } 58°0
 Radiation.....
 Aurora observed on 2 nights, viz., on 3rd and 8th.
 Possible to see Aurora on 17 nights; impossible on 14 nights.
 Snowing on 11 days,—depth 4.0 inches; duration of fall 45.2 hours.
 Raining on 6 days,—depth 1.152 inches; duration of fall 33.3 hours;
 Mean of cloudiness = 0.61.
 Most cloudy hour observed, 6 a. m., mean = 0.82; least cloudy hour observed,
 midnight, mean, = 0.47.

Sums of the components of the Atmospheric Current, expressed in miles.

North. South. East. West.
 1698.36 1304.19 2943.63
 Resultant direction N. 71° W.; Resultant Velocity 2.33 miles per hour.
 Mean velocity..... 7.40 miles per hour.
 Maximum velocity..... 29.3 miles from 4 to 5 p. m., on 30th.
 Most windy day..... 16th... Mean velocity 15.95 miles per hour.
 Least windy day..... 25th... Mean velocity 1.22 ditto.
 Most windy hour ... 2 to 3 p. m..... Mean velocity 10.59 ditto. } Difference
 Least windy hour ... 9 to 10 p. m..... Mean velocity 5.63 ditto. } 4.96 miles.

2nd. Halo round the Moon at 6 a. m.
 3rd. Faint Auroral light in N. at 9 p. m.
 8th. Beautifully coloured Auroral patches and streamers, 6 to 8 p. m.
 10th. Solar Halo during the forenoon.
 23rd. Solar Halo at 11-30 a. m.
 25th. Dense Fog most of the day.
 29th. Well defined Lunar Halo and Parasels at 7.30 p. m.
 31st. Faint Lunar Halo at 6 a. m.

The mean Temperature of January 1858 was 6°45 above the average of 19 years, and is remarkable as having been the warmest January during that period.

The fall of Rain and Snow were both in defect of the average, the first by 0.329 and the latter by 9.3 inches.

The velocity of the wind was 0.14 miles per hour below the average of 11 years.

Resultant direction and velocity of the Wind from 1848 to 1858 inclusive were N 72° W. and 2.73 miles.

The month was therefore comparatively warm, dry, and calm.

COMPARATIVE TABLE FOR JANUARY.

Year.	TEMPERATURE.				RAIN.			SNOW.			WIND.		
	M'n.	Difl.	Max.	Min.	No. of days.	Inch.	No. of days.	Inch.	No. of days.	Inch.	Resultant.	Direction.	Force or Velocity.
1840	17.0	-6.1	40.6	-13.8	4	1.395	11	...	...	...	...	...	0.36 lbs.
1841	25.6	+2.1	41.7	-4.1	2	2.150	14	...	...	...	...	...	0.78
1842	27.9	+4.1	43.8	1.3	5	2.170	9	...	...	...	...	...	0.69
1843	28.7	+5.1	44.6	1.5	6	2.295	12	14.2	...	...	...	...	0.70
1844	20.2	-3.9	44.6	-7.7	7	3.005	11	24.9	...	...	...	...	0.70
1845	26.5	+2.1	43.0	-3.4	5	imp.	10	22.7	...	...	...	...	0.55
1846	26.7	+3.1	41.2	-2.0	5	2.335	9	6.0	...	...	...	...	1.09
1847	23.3	+5.1	51.5	-12.0	7	2.135	8	7.1	...	...	N 82° W	2.03	5.82 mls.
1848	28.7	-5.1	40.1	-16.2	4	1.175	10	9.2	...	...	N 63° W	3.76	6.71
1849	18.5	+6.1	46.3	-10.6	5	1.250	8	5.2	...	...	N 37° W	0.69	5.86
1850	29.7	+6.1	46.3	-10.6	5	1.250	8	7.8	...	...	S 77° W	3.26	7.05
1851	25.5	-5.1	43.2	-7.0	4	1.275	10	7.5	...	...	N 68° W	3.14	7.67
1852	18.4	-5.1	47.3	-7.0	0	0.0	19	30.9	...	...	N 27° W	2.52	6.34
1853	23.0	0.1	40.9	-6.4	1	0.290	11	7.5	...	...	N 78° W	2.31	6.86
1854	23.6	0.1	45.2	-4.3	7	1.270	11	7.6	...	...	N 80° W	1.86	7.67
1855	25.9	+2.1	48.2	-12.1	5	6.525	13	23.3	...	...	N 75° W	5.24	10.69
1856	16.0	-7.1	43.1	-20.1	0	0.0	14	13.6	...	...	N 70° W	4.96	10.31
1857	12.8	-10.3	44.6	-20.1	3	imp.	16	21.8	...	...	N 71° W	2.33	7.40
1858	30.0	+6.4	45.8	-7.5	6	1.152	11	4.0	...	...	...	...	...
M	23.58	...	3.16	-5.52	4.4	1.451	10.9	13.32	...	...	...	...	7.54 mls.