

REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR DECEMBER, 1866.

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., 10 P.M., 10 P.M., and midnight. The means and resultants for the wind are from hourly observations.

Highest Barometer 30.313 at 10 a.m. on 20th. } Monthly range = 1.566 inches.
 Lowest Barometer 29.807 at 11 p.m. on 23rd }
 Mean temperature 51° 0 on 8th. } Monthly range = 56° 0
 Minimum temperature 5° 0 on 20th. }
 Maximum temperature 31° 20 } Mean daily range = 11° 10
 Mean maximum temperature 33° 8 from a.m. to p.m. of 21st.
 Mean minimum temperature 23° 6 from a.m. to p.m. of 24th.
 (Greatest daily range 23° 6 from a.m. to p.m. of 24th.
 Warmest day 8th Mean Temperature 45° 20 } Difference = 41° 32
 Coldest day 20th Mean Temperature 1° 88 }
 Maximum Solar Radiation 87° 5 on 7th } Monthly range = 97° 5
 Terrestrial Radiation —10° 0 on 20th }
 Aurora observed on 1 night, viz.:—on 2nd.
 Possible to see Aurora on 18 nights; impossible on 13 nights.
 Snowing on 13 days; depth 15.5 inches; duration of fall 59.7 hours.
 Raining on 7 days; depth 2.790 inches; duration of fall, 46.2 hours.
 Mean of cloudiness = 0.63; Most cloudy hour observed, 2 p.m.; mean = 0.72; least cloudy hour observed, 6 a.m.; mean = 0.53.

Stems of the components of the Atmospheric Current, expressed in Miles.

North.	South.	East.	West.
1812.15	1942.50	977.79	4683.10

Resultant direction, S. 83° W.; Resultant Velocity, 4.98 miles per hour.
 Mean velocity 9.91 miles per hour.
 Maximum velocity 33.7 miles; from 5 to 9 p.m. of 27th.
 Most windy day 27th—Mean velocity 23.05 miles per hour.
 Least windy day 31st—Mean velocity 1.87 miles per hour.
 Most windy hour, noon.—Mean velocity, 11.53 miles per hour.
 Least windy hour, 6 a.m.—Mean velocity, 8.86 miles per hour.

3rd, Solar halo at noon.—7th, Ground fog.—15th, Lunar halo.—16th, Very stormy snow and drift.—21, Lunar corona.—23, Stormy day, very dense fog during the day.

COMPARATIVE TABLE FOR DECEMBER.

YEAR.	TEMPERATURE.				RAIN.	SNOW.	WIND.						
	Mean.	Excess above Average	Maximum observed.	Minimum observed.			Range.	No. of days.	Inches.	Resultant.	M. Force or Velocity		
1840	24.3	-1.0	41.0	-4.4	45.4	18	...	...	...	1.53 lbs
1841	23.7	+2.5	45.5	2.4	48.1	7	...	...	...	0.61 "
1842	24.7	+1.5	40.3	3.8	36.5	3	...	...	...	0.53 "
1843	30.0	+3.8	41.1	2.7	38.4	6	...	...	...	0.40 "
1844	28.2	+3.0	43.0	0.8	40.3	6	...	...	...	0.70 "
1845	21.1	+5.1	37.0	2.7	46.5	2	...	...	...	0.37 "
1846	27.5	+1.3	43.2	3.7	45.5	5	...	...	...	0.55 "
1847	30.1	+3.9	50.0	6.6	43.4	7	...	...	...	0.37 "
1848	29.1	+2.9	49.1	0.6	43.5	7	...	...	...	5.44 ms
1849	26.5	+0.3	41.3	-5.2	46.5	5	...	...	...	6.23 "
1850	21.7	-4.5	45.3	9.7	58.0	2	...	...	...	7.40 "
1851	21.5	-4.7	43.8	-10.5	54.3	6	...	...	...	7.37 "
1852	31.9	+5.7	51.0	13.9	37.1	7	...	...	...	6.54 "
1853	25.3	+0.9	42.2	5.2	47.4	4	...	...	...	4.98 "
1854	21.9	-4.3	41.8	-5.9	47.7	5	...	...	...	8.50 "
1855	26.8	+0.6	45.9	2.1	48.0	6	...	...	...	11.38 "
1856	22.9	-3.3	41.2	-9.1	50.3	6	...	...	...	11.56 "
1857	31.9	+5.7	45.6	5.7	39.0	7	...	...	...	8.50 "
1858	27.4	+1.8	43.0	5.0	38.6	11	...	...	...	6.84 "
1859	17.9	-8.8	54.8	-3.3	58.1	3	...	...	...	10.77 "
1860	24.0	+2.2	33.5	-7.0	45.5	8	...	...	...	10.14 "
1861	31.1	+4.9	55.1	5.7	49.4	6	...	...	...	7.96 "
1862	23.8	+0.6	50.0	-2.8	52.3	5	...	...	...	7.58 "
1863	27.0	+2.8	51.5	-1.0	50.6	10	...	...	...	9.40 "
1864	24.7	-1.5	46.8	-2.3	49.1	9	...	...	...	9.98 "
1865	27.7	+1.5	50.4	5.7	44.7	7	...	...	...	7.33 "
1866	25.1	-1.1	50.4	-4.3	54.7	7	...	...	...	9.91 "
Results to 1864.	26.20	...	45.70	-0.78	46.54	5.0	1.641	13.1	14.60	N 71 W	2.97	8.32	
Exo. 1866.	-1.14	...	+4.64	-3.62	+8.16	+1.4	1.149	0.1	0.81	+1.59