

REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR DECEMBER.

Highest Barometer..... 30.322 at 11 a. m., on 3rd } Monthly range = 1.101 inches
 Lowest Barometer..... 29.201 at 4 p. m. on 26th }
 Maximum Temperature..... 54°8 on p. m. of 1st } Monthly range = 60°8
 Minimum Temperature..... -0°0 on a. m. of 31st }
 Mean maximum Temperature..... 25°26 } Mean daily range = 12°32
 Mean minimum Temperature..... 12°94 }
 Greatest daily range..... 26°7 from p. m. of 10th to p. m. of 11th.
 Least daily range..... 2°2 from a. m. to p. m. of 7th.
 Warmest day..... 1st ... Mean temperature..... 41.37 } Difference = 45°45.
 Coldest day..... 31st ... Mean temperature..... -1°09 }
 Maximum { Solar..... 69°5 on p. m. of 1st } Monthly range = 73°8.
 Radiation. { Terrestrial..... -13°3 on a. m. of 8th }
 Aurora observed on 5 nights, viz., on 13th, 14th, 15th, 23rd, and 30th.
 Possible to see Aurora on 11 nights; impossible on 20 nights.
 Snowing on 23 days;—depth 37.4 inches; duration of fall 163.4 hours.
 Raining on 3 days;—depth 1.035 inches; duration of fall 28.5 hours.
 Mean of cloudiness = 0.75.
 Most cloudy hour observed, 4 p. m., mean = 0.80; least cloudy hour observed, 10 p. m., mean = 0.64.

Sums of the components of the *Atmospheric Current*, expressed in miles.
 North. South. East. West.

3046.27 1100.62 1631.23 4216.08.
 Resultant direction N. 53° W.; Resulant Velocity 4.29 miles per hour.
 Mean velocity..... 10.77 miles per hour.
 Maximum velocity..... 35.0 miles, from 1 to 2 a. m. on the 11th.
 Most windy day..... 17th. Mean velocity 20.49 miles per hour.
 Least windy day..... 15th. Mean velocity 1.67 ditto.
 Most windy hour... 11 p. m. to midnight..... Mean velocity 11.07 ditto. } Difference
 Least windy hour... 5 to 6 a. m. midnight..... Mean velocity 10.22 ditto. } 1.45 miles.

1st. Fog 3 to 4 p. m. Very mild day.
 3rd. Solar Halo from 8.30 a. m. to 2 p. m.
 5th. Fog 2 to 4 p. m. Mild day.
 6th. Dense Fog 10.15 a. m. to 7 p. m. Very mild day.
 13th. Beautiful display of Auroral Light and Streamers tinged with purple and red in N.N.E. from 5 to 6.45 a. m.
 17th and 18th. Stormy days. Wind very high, with heavy fall of snow.
 23rd and 26th. Very cold, stormy days; high wind, and heavy fall of snow.
 31st. Lunar Corona from 5 to 7 p. m.
 Very rapid change of Temperature from 1st to 2nd; Mean Temperature 1st = 44°37—Mean Temperature 2nd = 17°27—Difference 27°10. Maximum on 1st, 4 p.

m. 54°8—Minimum on 2nd, 2 p. m. 17°5—Range in 22 hours = 37°3.
 The Resultant Direction and Velocity of the Wind for the month of December, from 1848 to 1859 inclusive, were respectively N 70° W, and 2.79 miles.
 The Mean Temperature of December, 1859, was the coldest yet recorded at Toronto, having been no less than 3°2 below that of December, 1845, which was the coldest previously noted; and 9°8 lower than the average of 20 years.
 The depth of snow was more than twice the mean quantity, and absolutely the greatest recorded here in December.
 The Mean Velocity of the Wind was 2.75 miles per hour above the average of 12 years.
 The month was, therefore, excessively cold, very windy, and remarkable for an unusual depth of snow.

COMPARATIVE TABLE FOR DECEMBER.

Year.	TEMPERATURE.			RAIN.		SNOW.		WIND.			
	Min. over.	Diff. from aver.	Max. over.	Min. over.	Range.	No. of days.	Inch's.	No. of days.	Inch's.	Resultant Direction.	Force or Velocity.
1840	21.3	1.7	41.0	0	45.4	3	1.44	15	...	...	1.33 lbs.
1841	28.7	2.7	43.5	0	43.1	7	6.600	5	...	...	0.61
1842	24.7	1.3	40.3	0	38.8	3	0.880	17	...	...	0.53
1843	30.0	4.0	41.1	0	38.4	6	1.010	8	6.1	...	0.40
1844	28.2	2.2	49.0	0	49.7	6	Imp.	6	4.2	...	0.70
1845	21.1	4.0	37.6	0	40.3	2	Imp.	12	4.7	...	0.57
1846	30.1	1.5	49.2	0	45.5	5	1.215	9	6.0	...	0.35
1847	27.5	4.1	50.0	0	43.4	7	1.185	8	6.8	...	0.35
1848	29.1	3.1	49.1	0	48.5	5	2.750	7	16.5	S 83° W	1.12
1849	26.5	0.5	41.3	0	46.5	5	0.810	12	9.6	S 82° W	5.44 mls.
1850	21.7	1.3	48.3	0	54.0	2	0.100	18	29.5	N 44° W	2.56
1851	21.5	4.5	43.8	0	51.3	6	1.075	15	10.7	N 44° W	2.63
1852	21.0	4.5	43.0	0	47.1	7	3.995	10	20.1	S 69° W	4.00
1853	25.3	0.7	42.2	0	47.4	4	6.625	13	22.3	S 35° W	1.03
1854	21.0	4.1	41.3	0	47.7	5	0.500	12	23.5	N 44° W	2.39
1855	26.8	0.8	45.9	0	48.0	6	1.845	10	17.2	S 89° W	4.30
1856	22.0	3.1	41.2	0	50.3	6	1.760	20	16.3	S 87° W	5.20
1857	31.9	4.0	45.0	0	39.0	7	3.205	14	9.0	S 80° W	4.62
1858	27.4	1.4	43.6	0	38.6	11	1.637	18	10.4	N 18° W	2.51
1859	17.0	8.1	54.8	0	58.1	3	1.035	23	37.4	N 53° W	1.63
M	25.07	...	45.11	0	45.83	5.4	1.606	12.7	15.19	...	4.29
											10.77
											8.01 MI.