

REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR DECEMBER.

Highest Barometer 30.430 at 10.30 a. m. on 18th } Monthly range =
 Lowest Barometer 23.459 at 11.40 a. m. on 14th } 2.021 inches.
 Mean temperature 42.52 on p. m. of 11th } Monthly range =
 Minimum temperature -9.1 on a. m. of 18th } 51.7°
 Mean maximum temperature . . . 28.74 } Mean daily range = 13.19
 Mean minimum temperature . . . 15.55 }
 Greatest daily range 25.5 from a. m. of 20th to a. m. of 21st.
 Least daily range 3.3 from a. m. of 15th to a. m. of 16th.
 Warmest day . . . 11th . . . Mean Temperature . . . 35.980 } Difference = 39.98.
 Coldest day . . . 13th . . . Mean Temperature . . . 2.03 }
 Maximum { Solar 52.9 on p. m. of 4th } Monthly range =
 Radiation { Terrestrial -18.5 on a. m. of 18th } 70.5
 Aurora observed on 1 night, viz.: 23rd; possible to see Aurora on 11 nights;
 impossible to see Aurora on 20 nights.
 Snowing on 21 days; depth, 16.3 inches; duration of fall, 62.0 hours.
 Raining on 6 days; depth, 1.790 inches; duration of fall, 21.3 hours.
 Mean of cloudiness = 0.76; most cloudy hour observed, 6 a. m., mean = 0.82; least
 cloudy hour observed, 10 p. m.; mean = 0.67.

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

North.	South.	East.	West.
2003.57	2160.36	1664.69	5094.20
Resultant direction of the wind, S 87° W; Resultant Velocity, 4.62 miles per hour.			
Mean velocity of the wind 11.57 miles per hour.			
Maximum velocity . . . 41.4 miles per hour, from 11 p. m. to midnight on 14th			
Most windy day . . . 14th - Mean velocity, 23.08 miles per hour.			
Least windy day . . . 30th - Mean velocity, 3.13 do			
Most windy hour . . . Midnight to 1 a. m. - Mean velocity, 12.81 do } Difference			
Least windy hour . . . 7 to 8 a. m. - Mean velocity, 9.92 do } 2.89 miles.			

No Thunder or Lightning recorded this month.
 7th. Large and perfect Halo round the Moon at 9 p. m.
 8th. Toronto Bay frozen over. Skaters and Pedestrians crossing.
 " Halo round the Moon from 7 p. m.
 9th. Halo and Corona round the Moon from 10 to 11 p. m.
 10th. Very perfect Halo round the Moon from 9 p. m.
 14th. The most windy day yet recorded at the Observatory.
 18th. The coldest day in December yet recorded.
 23rd. Faint Aurora at midnight.

COMPARATIVE TABLE FOR DECEMBER.

YEAR.	TEMPERATURE.					RAIN.		SNOW.		WIND.	
	Mean.	Difference from Average.	Maximum observed.	Minimum observed.	Range.	No. of days.	Inches.	No. of days.	Inches.	Resultant.	Mean
											Velocity.
1840	24.3	-1.7	41.0	-4.4	45.4	3	Inap.	18	not re- corded.	0	—
1841	23.7	+2.7	45.5	+2.4	43.1	7	0.090	5	not re- corded.	—	1.33 lbs.
1842	24.7	-1.3	40.3	+3.8	36.5	3	0.850	17	8.1	—	0.61 "
1843	30.0	+4.0	41.1	+2.7	38.4	6	1.040	8	4.2	—	3.53 "
1844	28.2	-2.2	43.9	-0.8	49.7	6	Inap.	6	4.2	—	0.40 "
1845	21.1	-4.9	37.6	-2.7	40.3	2	Inap.	12	4.7	—	0.70 "
1846	27.5	+1.5	49.2	+3.7	45.5	5	1.215	9	6.0	—	0.57 "
1847	30.1	+4.1	50.0	+6.6	43.4	7	1.185	8	6.8	883 W	1.045-44 mls.
1848	29.1	+3.1	49.1	+0.6	48.5	5	2.760	7	16.5	N 22 W	2.666-23 "
1849	26.5	+0.5	41.3	-3.2	46.5	5	0.840	12	9.6	N 44 W	2.937-40 "
1850	21.7	-4.3	43.3	-9.7	53.0	2	0.190	18	29.5	N 82 W	4.007-37 "
1851	21.5	-4.5	43.8	-10.5	54.3	6	1.075	15	10.7	N 69 W	1.026-54 "
1852	31.9	+5.9	51.0	+13.9	37.1	7	3.995	10	20.1	N 38 W	2.414-98 "
1853	25.3	-0.7	42.2	-5.2	47.4	4	0.625	13	22.3	N 47 W	4.188-66 "
1854	21.9	-4.1	41.8	-5.9	47.7	5	0.590	12	17.2	S 88 W	5.3311.38 "
1855	27.0	+1.0	45.9	-2.1	48.0	6	1.845	10	29.5	S 87 W	4.6211.56 "
1856	22.9	-3.1	41.2	-9.1	50.3	6	1.790	20	16.3	—	—
Mean	26.02	...	44.60	-1.29	45.89	5.1	1.539	11.7	14.4	—	7.73

The Barometric range for this month (2.021 inches) is the greatest yet recorded at the Observatory. A very remarkable range within 12 hours (1.014 inches) occurred from midnight of the 13th to noon of the 14th.
 The Rain and Snow were both in excess of the average; the former by 0.251 inches, and the latter by 1.9 inches.
 Wind. This was the most windy December since the commencement of the series, giving a mean velocity of 3.83 miles above the average of 9 years.
 The resultant direction and velocity for December from 1848 to 1856, was N 75° W 2.88 miles per hour.