

REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR DECEMBER, 1880.

Highest Barometer 30.267 at 5 p. m. on 14th. } Monthly range =
 Lowest Barometer 29.838 at 11 a. m. on 20th. } 1.429 inches.
 { Maximum temperature 39° on p. m. of 20th } Monthly range =
 { Minimum temperature -7° on a. m. of 14th } 46°
 { Mean maximum temperature 28°79' } Mean daily range = 9°54.
 { Mean minimum temperature 19°25' }
 { Greatest daily range 23°5' from a. m. to p. m. of 16th.
 { Least daily range 2.8 from a. m. to p. m. of 10th.
 Warmest day . . . 20th . . . Mean Temperature . . . = 37°05' Difference = 33°97.
 Coldest day . . . 14th . . . Mean Temperature . . . = 19°08' Difference = 70°0.
 Maximum { Solar 53°90 on p. m. of 14th } Monthly range =
 Radiation { Terrestrial -17.0 on a. m. of 14th } 70°0.
 Aurora observed on 2 nights, viz.: on the 10th and 15th; possible to see Aurora on
 8 nights; impossible on 23 nights.
 Snowing on 21 days; depth, 13.5 inches; duration of fall, 68.4 hours.
 Raining on 8 days; depth, 1.363 inches; duration of fall, 24.0 hours.
 Mean of cloudiness = 0.83; most cloudy hour observed, 8 a. m., mean = 0.89; least
 cloudy hour observed, 10 p. m.; mean = 0.76.

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

North. 2703.93
 South. 1065.97
 East. 1355.05
 West. 4411.21
 Resultant direction, N 62° W; Resultant Velocity, 4.66 miles per hour.
 Mean velocity 10.14 miles per hour.
 Maximum velocity . . . 29.5 miles, from 7 to 8 a. m. on the 22nd.
 Most windy day . . . 1st - Mean velocity, 20.73 miles per hour. } Difference 15.17
 . . . 9th - Mean velocity, 5.56 do }
 Least windy hour, 1 to 2 p. m. - Mean velocity, 11.94 miles per hour. } Difference
 . . . 9 to 10 p. m. - Mean velocity, 5.52 do } 3.42 miles.
 Least stormy day. Very high wind. -10th. Heavy snow storm from 4 to 7 p. m. -
 15th. Brilliantly colored aurora; very perfect arch and streamers 7 p. m. to mid-
 night. -16th. Greatest day's rain during the year. -20th. Dense wetting fog from
 6 to 11 a. m. -21st. Heavy snow storm from 2.30 p. m. to 1 a. m. of 22nd. -
 24th. Lunar halo from 6 p. m. to midnight. -26th. Solar halo at 9 a. m. -
 30th. Faint solar halo at 2.30 p. m.

Rapid Barometric movements.

Ascent { From 12th, at 6 a. m. = 29.155
 { To 14th, at 5 p. m. = 30.267
 Descent { From 18th, at 8 a. m. = 30.130
 { To 20th, at 11 a. m. = 29.838
 Range in 59 hours = 1.112
 Range in 51 hours = 1.292

The Resultant Direction and Velocity of the Wind, for the month of December, from 1848 to 1860 inclusive, were respectively N. 69° W., and 2.93 miles.

The meteorological elements for December, 1860, differed from their respective averages as follows: - Temperature -1°38; Rain -0.232 inches; Snow -1.60 inches; Wind +1.94 miles per hour, and clouds +0.07.
 The month was therefore comparatively cold, dry, windy, and very cloudy.

COMPARATIVE TABLE FOR DECEMBER.

Y.E.A.R.	TEMPERATURE.				RAIN.		SNOW.		WIND.	
	Mean.	Difference from Average.	Maximum Observed.	Minimum Observed.	Range.	No. of days.	Inches.	No. of days.	Inches.	Resultant Direc- tion.
1840	24.3	-1.6	41.0	-4.4	45.4	8	inap.	18	...	...
1841	23.7	+2.8	43.5	+2.4	43.1	7	6.003	5	...	...
1842	24.7	-1.2	40.3	+3.8	36.5	3	0.890	17	...	...
1843	30.0	+4.1	41.1	+2.7	38.4	6	1.040	8	8.1	...
1844	28.2	+4.8	43.9	-0.7	49.7	6	imp.	6	4.2	...
1845	21.1	-2.3	37.6	-2.7	40.3	2	inap.	12	4.7	...
1846	27.5	+1.6	49.2	+3.7	45.5	5	1.215	9	6.0	...
1847	30.1	+3.2	50.0	+0.6	48.4	7	1.183	8	6.8	...
1848	29.1	+0.6	49.1	-5.2	46.5	7	2.750	7	16.5	...
1849	24.5	+4.2	48.3	-9.7	58.0	5	0.840	12	9.6	...
1850	31.7	-4.2	48.3	-10.5	54.3	6	0.190	18	29.5	...
1851	31.5	-4.4	43.8	+13.9	57.1	2	1.075	15	10.7	...
1852	31.9	+0.6	51.0	+5.2	47.4	7	3.993	10	20.1	...
1853	25.3	-0.6	42.2	-5.2	47.4	4	0.625	13	22.3	...
1854	21.9	-4.0	41.8	-5.9	47.7	6	0.590	12	17.2	...
1855	26.8	+0.9	45.9	-2.1	48.0	6	1.845	10	29.5	...
1856	22.9	-3.0	41.2	-9.1	50.3	6	1.790	20	16.3	...
1857	31.9	+1.5	43.6	+5.0	38.6	11	1.657	14	9.0	...
1858	27.4	+0.6	45.6	-3.8	53.1	3	1.035	23	37.4	...
1859	17.9	-8.0	54.8	-7.0	45.5	3	1.362	21	13.5	...
1860	21.0	-1.9	33.5	-	45.5	5.3	1.594	13	115.10	...
Mean	25.83	...	44.80	-1.02	45.82	5.3	1.594	13	115.10	...