

REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR OCTOBER.

Highest Barometer 30.200 at 8 a. m. on 15th } Mc Jly range =
 Lowest Barometer 29.217 at midn't. on 29th } 0.983 inches.
 Highest registered temperature 71°4 on p. m. of 9th } Monthly range =
 Lowest registered temperature 23°0 on a. m. of 24th } 48°4
 Mean maximum temperature 54°04 } Mean daily range = 18°82
 Mean minimum temperature 35°22 }
 Greatest daily range 28°5 from p. m. of 13th to a. m. of 14th.
 Least daily range 6°4 from p. m. of 18th to a. m. of 19th.
 Warmest day 9th Mean Temperature 59°73 } Difference = 25°20.
 Coldest day 24th Mean Temperature 31°53 }
 Greatest intensity of Solar Radiation 88°4 on p. m. of 9th } Monthly range =
 Lowest point of Terrestrial Radiation 7°5 on a. m. of 24th } 80°9
 Aurora observed on 3 nights, viz.: on the 4th, 8th and 23rd; possible to see
 Aurora on 19 nights; impossible to see Aurora on 12 nights.
 Snowing on 2 days; depth, 0.1 inches; duration of fall, 1.5 hours.
 Raining on 10 days; depth, 0.875 inches; duration of fall, 27.8 hours.
 Mean of cloudiness = 0.47; most cloudy hour observed, 4 p. m., mean = 0.53; least
 cloudy hour observed, midnight; mean = 0.46.

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

North.	South.	East.	West.
1562.21	1187.47	703.57	2263.33

Resultant direction of the wind, N 70° W; Resultant Velocity, 2.15 miles per hour.
 Mean velocity of the wind 6.07 miles per hour.
 Maximum velocity 27.3 miles per hour, from 3 to 4 p. m. on 13th.
 Most windy day 28th—Mean velocity, 1.17 miles per hour.
 Least windy day 20th—Mean velocity, 0.64 do
 Most windy hour . . . Noon to 1 p. m.—Mean velocity, 0.82 do } Difference
 Least windy hour . . 11 p. m. to midnight—Mean velocity, 0.86 do } 5.96 miles.

1st to 2nd. Heavy Frost on these mornings at 6 a. m.
 4th. Sheet Lightning, not accompanied by Thunder, during the Evening.
 10th. Very dense ground Fog at 6 a. m.
 " Small halo round the Moon at 10 p. m.

14th and 15th. Thin Ice on the water at 6 a. m.
 19th to 22nd inclusive. Extraordinary and continuous dense Fog.
 22nd. Sheet Lightning and distant Thunder 8 to 11 p. m.
 30th. First Snow of the Season at 11 a. m.
 31st. Snowing slightly most of the day.

This month was marked by an unusual scarcity of rain, the quantity that fell having been less than one-third of the average.
 The Resultant direction of the Wind for October, from 1848 to 1856 inclusive, was N 63° W, and the Resultant velocity 1.35 miles per hour.

COMPARATIVE TABLE FOR OCTOBER.

YEAR.	TEMPERATURE.					RAIN.		SNOW.		WIND.	
	Mean.	Difference from Average.	Maximum observed.	Minimum observed.	Range.	No. of d's.	Inches.	No. of d's.	Inches.	Resultant Direction.	Mean Velocity.
1840	44.4	-0.8	23.9	20.9	44.6	13	1.860	3	—	0	—
1841	41.6	-3.6	58.3	20.3	38.0	6	1.360	2	—	—	0.41 lbs.
1842	45.1	-0.1	68.5	30.0	38.5	8	5.175	0	—	—	0.35 "
1843	41.8	-3.4	65.7	24.5	41.2	12	3.790	4	2.5	—	0.54 "
1844	43.3	-1.9	69.6	17.8	51.8	7	1.601	4	12.0	—	0.43 "
1845	46.4	+1.2	62.7	20.0	42.7	11	1.760	1	1.44	—	0.26 "
1846	44.6	-0.6	60.7	20.7	39.0	14	4.180	2	1.44	—	0.44 "
1847	41.0	-1.2	65.0	20.3	44.7	13	4.390	2	1.44	—	0.19 "
1848	46.3	+1.1	62.2	20.4	35.8	11	1.550	0	0.0	N 54 W	1.24 1.60 mls.
1849	45.3	+0.1	60.2	22.5	37.7	13	5.965	1	1.44	N 12 W	1.27 1.76 "
1850	45.4	+0.2	66.6	24.8	41.8	10	2.085	0	0.0	N 66 W	1.10 1.30 "
1851	47.4	+2.2	66.1	25.0	41.1	10	1.680	2	0.3	S 72 W	1.06 1.39 "
1852	48.0	+2.8	70.7	29.8	40.9	12	5.250	0	0.0	N 5 E	1.19 1.47 "
1853	44.4	-0.8	61.7	25.5	39.2	10	0.875	2	1.44	S 87 W	1.52 1.72 "
1854	49.5	+4.3	74.2	29.8	44.4	15	1.495	3	1.44	N 25 E	1.18 1.60 "
1855	45.4	+0.2	61.3	23.0	36.3	14	2.485	5	0.3	N 82 W	4.91 9.88 "
1856	43.3	+0.1	70.1	23.3	46.8	10	0.875	2	0.1	N 76 W	2.13 6.07 "
Mean	45.19	...	66.24	24.45	41.79	11.1	2.800	1.9	1.1	—	5.42