

REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR OCTOBER.

Highest Barometer..... 30.042 at 8 a. m., on 16th } Monthly range = 1.042 inches
 Lowest Barometer..... 29.080 at 10 a. m., on 7th }
 { Maximum Temperature..... 70°3 on 3rd at 2 p.m. } Monthly range = 44°8
 { Minimum Temperature..... 31°5 on 26th at a.m. }
 { Mean maximum Temperature..... 58°79 } Mean daily range = 19°37
 { Mean minimum Temperature..... 43°41 }
 { Greatest daily range..... 24°0 from a. m. to p. m. on 5th.
 { Least daily range..... 5°0 from a. m. to p. m. on 21st.
 Warmest day..... 19th ... Mean temperature..... 54.08 } Difference = 14°81.
 Coldest day..... 26th ... Mean temperature..... 39°87 }
 Maximum { Solar..... 89°8 on p. m. of 3rd } Monthly range = 61°7.
 Radiation. { Terrestrial..... 25°1 on a. m. of 26th }
 Aurora observed on 10 nights, viz., on 1st, 2nd 4th, 5th, 9th, 10th, 18th, 26th, 27th and 30th.

Possible to see Aurora on 15 nights; impossible on 10 nights.
 Snowing on 1 day,—depth inapp inches; duration of fall 0.2 hours.
 Raining on 17 days,—depth 1.707 inches; duration of fall 49.2 hours.
 Mean of cloudiness = 0.60.
 Most cloudy hour observed, 2 p. m., mean = 0.65; least cloudy hour observed 10 p. m., mean, = 0.56.

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

North. South. East. West.
 1193.83 969.38 1507.49 1749.20
 Resultant direction N. 34° W.; Resultant Velocity 0.56 miles per hour.
 Mean velocity..... 6.98 miles per hour.
 Maximum velocity..... 27.8 miles from 1.30 to 2.30 p. m. on 7th.
 Most windy day..... 7th... Mean velocity 34.67 miles per hour.
 Least windy day..... 15th... Mean velocity 1.14 ditto.
 Most windy hour ... noon to 1 p. m. Mean velocity 0.39 ditto. } Difference
 Least windy hour 5 to 6 a. m. Mean velocity 3.81 ditto. } 5.68 miles.

Thunderstorm on 7th, from 6 to 8 a. m.
 Distant Thunder on 14th, at 7 p. m. in N. W.
 Sheet Lightning on 2nd, at 7 p. m. in N. W.
 Haloes on 17th, imperfect Halo and Parlicia round the sun 4.15 p. m. On 17th perfect Halo round moon at 9 p. m. On 26th perfect Halo round moon from 9 p. m. Corona on 25th round the moon from 9 p. m.

First Snow on 8th, slight particles noted at 10.30 p. m.
 First Ice on 8th, at 6 a. m. (3 inch thick).
 Indian Summer from 18th to 28th (not well marked).
 Donati's Comet visible to the naked eye from 13th September to 18th October.
 4th Shower of Hail and Sleet at 4 p. m. 7th Rainbow observed at 7.30 a. m. 13th very violent Squall of wind, rain and lightning from 7.05 to 7.35 p. m.
 The Resultant Direction and Velocity of the Wind for the month of October 1848 to 1858 inclusive, were respectively N 54° W and 1.34 miles.
 The Mean Temperature of October was 3.1 above the average of the last 19 years, it was the warmest month of the series with the exception of 1854.

COMPARATIVE TABLE FOR OCTOBER.

Year	TEMPERATURE.				RAIN.		SNOW.		WIND.	
	M'n. Aver.	Diff. from Aver.	Max. ob'd.	Min. ob'd.	No. of days.	Inch's.	No. of days.	Inch's.	Resultant Direction, Vy.	Mean Force or Velocity.
1840	44.4	-1.0	68.5	23.9	13	1.800	3	...	...	0.41 lbs.
1841	41.6	-3.8	58.3	20.3	6	1.360	3	...	...	0.35
1842	45.1	-0.3	68.5	30.0	8	5.375	0	2.5	...	0.54
1843	41.8	-3.6	65.7	24.5	12	3.740	4	12.0	...	0.48
1844	43.3	-2.1	68.0	17.8	7	impft.	4	...	...	0.26
1845	49.4	+1.0	62.7	20.0	32.7	11	1.760	inapp.	...	0.44
1846	44.0	-0.8	69.7	20.3	14	4.180	2	inapp.	...	0.19
1847	44.0	-1.4	65.0	20.3	44.7	13	4.390	inapp.	...	0.44
1848	46.3	+0.9	62.2	26.4	35.8	11	1.550	0	N 54° W	1.24 4.00 mls.
1849	45.3	-0.1	69.2	25.5	33.7	13	5.965	0	N 16° W	1.27 4.70
1850	45.4	0.0	66.6	24.8	41.8	10	2.085	0	N 65° W	1.10 5.30
1851	47.4	+2.0	68.1	25.0	41.1	10	1.680	0	S 79° W	1.06 1.49
1852	49.4	+2.0	70.7	29.8	40.0	12	5.280	0	N 8° E	1.19 4.47
1853	49.5	+4.1	74.2	29.8	39.2	10	6.875	0	S 38° W	1.74 4.77
1854	45.4	0.0	64.3	28.0	44.4	15	1.495	2	S 85° W	1.20 4.60
1855	45.4	0.0	64.3	28.0	36.3	14	2.485	5	N 85° W	4.91 6.88
1856	45.3	-0.1	70.1	23.3	46.8	10	0.875	0.1	N 76° W	2.15 6.07
1857	45.4	0.0	63.5	27.7	35.8	10	1.040	0.2	N 16° W	2.93 6.24
1858	48.8	+3.4	75.3	34.2	42.1	17	1.797	1	N 31° W	0.36 5.06
M. Aver. 39	...	...	66.63	25.13	41.49	11.4	2.617	1.9	...	5.65 Mls.