

REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR OCTOBER, 1861.

Highest Barometer..... 30.054 at 8 a.m. on 1st } Monthly range = 1.036 inches.
 Lowest Barometer..... 28.998 at 8 a.m. on 30th }
 { Maximum Temperature..... 71° on p.m. of 2nd } Monthly range = 42°
 { Minimum Temperature..... 29° on a.m. of 25th }
 { Mean maximum Temperature..... 58°34 } Mean daily range = 13°78
 { Mean minimum Temperature..... 41°02 }
 { Greatest daily range..... 31°9 from a.m. to p.m. of 14th.
 { Least daily range..... 3°6 from a.m. to p.m. of 23rd.
 Warmest day..... 2nd.. Mean temperature..... 59.12 } Difference = 24°85.
 Coldest day..... 24th.. Mean temperature..... 34.97 }
 Radiation..... 31°6 on p.m. of 3rd } Monthly range = 69°
 { Terrestrial..... 22°6 on a.m. of 25th }
 Aurora observed on 6 nights, viz.: 10th, 13th, 14th, 24th, 26th, and 27th.
 Possible to see Aurora on 17 nights; impossible on 14 nights.
 Snowing on 1 day, unappreciable; duration of fall 1.0 hours.
 Raining on 15 days,—depth 1.993 inches; duration of fall 53.6 hours.
 Mean of cloudiness = 0.61. Difference from average 0.00.
 Most cloudy hour observed, 2 p.m.; mean = 0.63; least cloudy hour observed 10 p.m.; mean = 0.51.

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

	North.	South.	East.	West.
1393.90	104.33	1251.35		
Resultant direction N. 61° W.;				1940.90
Mean velocity.....	5.98 miles per hour.			
Maximum velocity.....	30.0 miles, from 11 a.m. to noon on 13th.			
Least windy day.....	13th.....			
Least windy hour.....	noon to 1 p.m.....			
Least windy hour.....	1 to 2 a.m.....			
2nd. Ground Fog at 6 a.m.—5th. Sheet Lightning at 8 p.m., and Fog from 7 p.m. to midnight.—7th. Solar Halo during the forenoon (very perfect).—8th. Low Ground Fog at 6 a.m. to midnight.—9th. Solar Halo during most of the day.—10th. Ground Fog at 6 a.m. Solar Halo at 9 a.m.—11th. Ground Fog at 6 a.m. Rain-bow at 5 p.m.—13th. Rain-bow in N.W. 8 to 9 a.m.—14th. Lunar Corona from 11 p.m. to midnight.—15th. Solar Halo at 2 and 4 p.m.—16th. Foggy from 5 p.m. to midnight. Lunar halo at midnight.—18th. Foggy at midnight and continuing so all night.—19th. Dense Fog at 8 a.m.—21st. Brilliant Meteor at 10 p.m., descending from Zenith towards W. by N.—23th. Showing slightly from 6 to 8 a.m. (First of the season).—26th. Incessant sheet lightning in S. from 9 to 11.30 p.m. 29th. Dense Fog at midnight.				

Heavy Dew recorded on 5 mornings during the month.
 Frost recorded on 11 mornings during the month.

The Resultant Direction and Velocity of the Wind for the month of October, from 1843 to 1861 inclusive, were respectively N. 56° W. and 1.67 miles.

COMPARATIVE TABLE FOR OCTOBER.

Year.	TEMPERATURE.				RAIN.		SNOW.		WIND.	
	M ⁿ .	D ^{il} .	Max.	Min.	No. of days.	Inch ^s .	No. of days.	Inch ^s .	Resultant Direction.	Mean Force or Velocity.
1840	44.4	-1.0	68.5	23.9	13	1.860	3	...	...	...
1841	41.6	-3.9	58.3	20.3	6	1.360	2	...	...	0.41 lbs.
1842	45.1	-0.9	68.5	30.0	8	5.175	0	...	...	0.35
1843	41.8	-3.7	65.7	24.5	12	3.789	4	2.5	...	0.54
1844	43.3	-2.2	69.0	17.8	7	1mp.	4	12.0	...	0.43
1845	46.4	-0.9	62.7	20.0	11	1.760	1	Inap.	...	0.26
1846	44.6	-0.9	69.7	20.7	14	4.180	2	Inap.	...	0.44
1847	44.0	-1.5	65.0	20.3	13	4.380	0	Inap.	...	0.44
1848	46.3	-0.8	62.2	26.4	35.9	11	5.965	0	N 54° W	1.24 4.60 mls.
1849	45.3	-0.2	59.2	25.5	33.7	13	5.965	0	N 12° W	1.27 4.76
1850	45.4	-0.1	66.6	24.8	41.8	10	2.085	0	N 65° W	1.10 5.30
1851	47.4	-1.9	66.1	25.0	41.1	10	1.080	0	S 72° E	1.06 4.39
1852	49.4	-2.5	70.7	29.8	40.9	12	2.850	0	S 72° E	1.19 4.47
1853	49.5	-4.0	74.7	25.5	39.2	10	1.495	2	S 89° W	1.74 4.77
1854	49.4	-4.0	74.7	29.8	44.4	15	0.875	3	N 45° W	1.52 4.57
1855	45.4	-0.1	64.3	23.5	36.3	14	2.495	5	N 83° W	4.91 9.89
1856	45.3	-0.2	70.1	23.3	46.8	10	0.875	2	N 76° W	2.15 6.07
1857	45.4	-0.1	63.5	27.7	25.8	10	1.040	2	N 19° W	2.93 6.24
1858	48.8	-3.3	76.3	34.2	42.1	17	1.797	1	N 34° W	10.36 5.96
1859	43.0	-2.5	63.4	22.3	46.1	11	0.940	4	N 68° W	5.04 8.12
1860	47.3	-1.8	63.7	28.4	35.3	15	1.618	1	N 3° W	2.00 6.93
1861	48.7	-3.2	64.5	30.2	34.3	15	1.993	1	N 61° W	1.00 5.96
M	45.52	...	65.48	25.93	41.10	11.7	2.485	1.9		5.86 MI.
Diff.	+	...	-	+	...	...	...	...	...	+
av ^g .	3.22	...	1.98	4.82	3.8	0.492	0.9	0.84		0.10