

REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR JANUARY, 1861.

Highest Barometer..... 30.300 at 10 a. m. on 14th } Monthly range =
 Lowest Barometer..... 28.965 at 8 a. m. on 1st } 1.335 inches.
 { Maximum Temperature..... 41°5 on a. m. of 1st } Monthly range =
 { Minimum Temperature..... -2°0 on a. m. of 3rd } 47°1
 { Mean maximum Temperature..... 27°58 } Mean daily range =
 { Mean minimum Temperature..... 15°03 } 12°55
 { Greatest daily range..... 25°98 from a. m. of 14th to a. m. of 15th.
 { Least daily range..... 2°98 from a. m. of 6 p. m. of 26th.
 Warmest day..... 9th... Mean temperature..... 35°32 } Difference = 32°00.
 Coldest day..... 3rd... Mean temperature..... 24°2 } Difference = 63°2
 Radiation..... -10°0 on a. m. of 23rd } Monthly range =
 Maximum } Solar..... -10°0 on a. m. of 6th and 18th } 63°2
 Aurora observed on 4 nights, viz.: 1st, 2nd, 9th, and 20th.
 Possible to see Aurora on 11 nights; impossible on 20 nights.
 Snowing on 19 days, depth 27.4 inches; duration of fall, 83.9 hours.
 Raining on 5 days;—depth 0.115 inches; duration of fall 7.2 hours.
 Mean of cloudiness = 0.73. Above average 0.02.
 Most cloudy hour observed, 4 p. m., mean = 0.83; least cloudy hour observed
 10 p. m.; mean, = 0.02.

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

North.	South.	East.	West.
2435.43	635.77	2087.01	2915.18
Resultant direction N. 26° W.; Resultant velocity 2.69 miles per hour.			
Mean velocity..... 43.3 miles per hour.			
Maximum velocity..... 83.3 miles from 5 to 6 p. m. on 1st.			
Most windy day..... 1st..... Mean velocity, 26.31 miles per hour. } Difference =			
Least windy day..... 23rd..... Mean velocity, 2.02 ditto. } 8.86 miles.			
Most windy hour..... 9 to 10 p. m..... Mean velocity, 10.06 ditto. } Difference =			
Least windy hour..... 2 to 3 a. m..... Mean velocity 7.34 ditto. } 2.72 miles.			
Great Barometric Movement.			
12th. 2 p. m. = 29.084 } Ascent in 44 hours = 1.216			
14th. 10 a. m. = 30.300 }			
15th. 4 p. m. = 29.216 } Descent in 30 hours = 1.084			
Movement in 74 hours = 2.300 inches.			

1st. Stormy day. Wind very high and squally. Rapid descent of temperature from a. m. of 1st to a. m. of 2nd = 30°6.—2nd. Bright meteor in N. E. at 5.49 a. m.—10th. Rapid descent of temperature from p. m. of 10th to a. m. of 11th = 30°2. Dense fog 8 a. m. to noon.—12th. Rapid descent of temperature from p. m. of 12th to a. m. of 13th = 30°9.—13th. Imperfect Lunar Halo from 6 p. m.—14th. Imperfect Solar Halo at 4 p. m. Perfect Lunar Halo from 6 to 11.40 p. m.—16th. Lunar

Corona 6 p. m. Perfect Lunar Halo from 10.15 p. m.—25th. Snowing and drifting heavily till 7.40 p. m. Wind squally. 27th. Imperfect Solar Halo at 2 p. m. Foggy at 7 p. m.

COMPARATIVE TABLE FOR JANUARY.

YEAR.	TEMPERATURE.				RAIN.		SNOW.		WIND.	
	Mean.	Max. above average (°5°)	Min. below average (°5°)	Ran. of observed	No. of days.	Inches.	No. of days.	Inches.	Resultant Direction.	Mean Force or Velocity.
1840	17.0	-6.5	24.6	54.4	4	1.895	11	...	...	...
1841	25.6	+2.1	41.7	-4.1	2	2.150	14	...	...	0.36 lbs.
1842	27.9	+4.4	45.8	1.3	6	2.170	9	...	...	0.78
1843	28.7	+5.2	54.4	1.5	6	4.295	12	14.2	...	0.69
1844	20.2	+3.3	44.6	-7.7	7	3.005	11	24.9	...	0.70
1845	26.5	+3.0	43.0	-3.4	5	Imp.	3	22.7	...	0.70
1846	26.7	+3.2	41.2	-0.3	5	2.335	10	6.0	...	0.55
1847	23.3	+0.2	42.6	-2.2	7	2.135	5	7.5	...	1.09
1848	28.7	+5.2	51.5	-12.0	7	2.245	8	7.1	N 83° W	2.63
1849	18.5	+0.0	40.1	-15.2	4	1.175	10	0.2	N 69° W	3.03
1850	29.7	+6.2	46.3	-10.6	5	1.250	8	5.2	N 37° W	0.69
1851	25.5	+2.0	43.9	-12.8	5	1.273	10	7.8	N 77° W	3.20
1852	18.4	+5.1	37.3	-7.0	0	0.000	19	30.9	N 68° W	3.14
1853	23.0	+0.5	40.3	-6.6	1	0.290	11	7.5	N 27° W	2.62
1854	23.6	+0.1	45.2	-4.3	5	1.270	11	0.535	N 77° W	2.44
1855	25.9	+2.4	43.2	-4.7	5	0.000	13	23.3	N 73° W	1.91
1856	16.0	-7.5	33.1	-12.1	0	0.000	14	13.6	N 75° W	5.24
1857	12.8	-10.7	34.0	-20.1	3	Inap.	16	21.8	N 70° W	4.98
1858	30.0	+6.5	45.8	-7.5	6	1.152	11	4.0	N 71° W	2.33
1859	26.4	+2.9	41.5	-26.5	6	1.449	16	16.4	N 80° W	3.17
1860	23.4	+0.1	45.4	-5.1	6	0.740	18	8.7	N 86° W	6.69
1861	19.9	-8.7	34.5	-7.0	4	0.685	23	20.6	N 86° W	2.92
1862	21.7	-1.8	42.8	-1.9	5	0.115	19	27.4	N 26° W	2.63
1863	23.53	...	42.80	-6.52	4.5	1.407	12.0	13.63	N 77° W	2.98
Diff.	1.82	...	+4.02	4.01	+0.5	1.292	7.0	13.77		0.97