

REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR JANUARY, 1861.

Highest Barometer 30.330 at 7 p. m., on 22nd } Monthly range = 1.325 inches.
 Lowest Barometer 29.006 at 1 p. m., on 16th }
 Maximum Temperature 37°0 on p. m. of 18th } Monthly range = 4.92
 Minimum Temperature -11°2 on p. m. of 12th }
 Mean maximum Temperature 25°14 } Mean daily range = 11°21
 Mean minimum Temperature 13°93 }
 Greatest daily range 25°2 from a. m. to p. m. of 13th.
 Least daily range 2°0 from a. m. to p. m. of 3rd.
 Warmest day 16th.. Mean temperature 32.53 } Difference = 36°08.
 Coldest day 12th.. Mean temperature -9°12 }
 Maximum { Solar 54°0 on p. m. of 20th } Monthly range = 72°05.
 Radiation. { Terrestrial -18°5 on p. m. of 12th }

Aurora observed on 0 nights, impossible on 22 nights.
 Possible to see Aurora on 9 nights; duration of fall 93.6 hours.
 Snowing on 23 days; depth 20.6 inches; duration of fall 14.5 hours.
 Raining on 4 days; depth 0.635 inches; duration of fall 14.5 hours.
 Mean of cloudiness = 0.70. Above average .05.
 Most cloudy hour observed, 8 a. m., mean = 0.85; least cloudy hour observed, 10 p. m., mean = 0.66.

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

North. South. East. West.
 2054.34 1913.15 1168.42 3271.01
 Resultant direction N. 86° W.; Resultant velocity 2.92 miles per hour.
 Mean velocity 0.30 miles per hour.
 Maximum velocity 26.8 miles, from 10 to 11 a. m. on 10th.
 Most windy day 10th Mean velocity 10.42 miles per hour. } Difference = 13.69 miles.
 Least windy day 22nd Mean velocity 2.73 ditto.
 Most windy hour 11 a. m. to noon Mean velocity 10.87 ditto. } Difference = 2.91 miles.
 Least windy hour 7 to 8 p. m. Mean velocity 7.96 ditto.
 1st. Lunar Halo at 6 a. m.—11th and 12th. Very cold and stormy days.—16th. Dense fog 4 to 6 p. m.—20th. Very distinct lunar halo at 6 p. m.—23rd. Well defined solar halo at 2 p. m.—23rd. Very perfect lunar halo from 5.30 to 11 p. m.—24th. Dense fog 2 to 4 p. m.—20th. Faint lunar halo at 11 p. m.—31st. Solar halo from 3 p. m.
 Great Barometric { 13th, 6 a. m. = 30.125 } Descent in 75 hours = 1.119.
 ranges. { 16th, 1 p. m. = 29.006 }
 Ditto. { 18th, midn't. = 29.100 } Ascent in 91 hours = 1.140.
 { 22nd, 7 p. m. = 30.330 }

The Resultant Direction and Velocity of the Wind for the month of January, from 1848 to 1861 inclusive, were respectively N. 77 W. and 2.98 miles.

The Direction Shaft of the Anemometer was out of order on the 23rd, the Resultant Direction and Velocity of the Wind for that day are consequently imperfect.

COMPARATIVE TABLE FOR JANUARY.

Year.	TEMPERATURE.			RAIN.	SNOW.		WIND.	
	N°n.	Dif. from Aver.	Max. Min. ob'd.	No. of days.	Inch.	No. of days.	Resultant Direction, V'y.	Mean Force or Velocity.
1840	17.0	-6.5	40.6 - 13.8	4	1.395	11	...	...
1841	25.6	+2.1	41.7 - 4.1	2	2.150	14	...	0.30 lbs.
1842	27.9	+4.4	45.8 - 1.3	5	2.170	9	...	0.78
1843	28.7	+5.2	54.4 - 1.5	6	4.293	12	...	0.69
1844	20.2	-3.8	44.6 - 7.7	7	3.005	11	...	0.70
1845	26.6	+3.0	43.0 - 3.4	4	Imp.	9	...	0.70
1846	26.7	+3.2	41.2 - 0.3	5	2.335	10	...	0.53
1847	23.3	-0.2	42.0 - 2.2	4	2.135	5	...	1.09 mls.
1848	23.7	+3.2	51.5 - 12.0	7	2.245	8	...	6.82
1849	18.5	-5.0	40.1 - 16.2	5	1.175	10	N 63° W	3.06
1850	29.7	+6.2	46.3 - 10.6	5	1.250	8	N 37° W	0.09
1851	25.6	+2.0	43.2 - 12.8	4	1.275	10	S 77° W	3.26
1852	18.4	-5.1	37.3 - 7.0	4	0.000	19	N 68° W	3.14
1853	23.0	-0.5	40.9 - 6.6	4	0.290	6	N 27° W	2.63
1854	23.6	+0.1	45.2 - 4.7	5	1.270	11	N 77° W	2.41
1855	25.9	+2.4	48.2 - 4.7	5	0.625	13	N 73° W	1.91
1856	16.0	-7.5	33.1 - 12.1	4	0.000	14	N 75° W	5.34
1857	12.8	-10.7	34.6 - 20.1	3	Imp.	16	N 70° W	4.96
1858	30.0	+6.5	48.8 - 7.5	6	1.152	11	N 71° W	2.33
1859	26.4	+2.9	41.5 - 26.5	6	1.449	19	S 81° W	3.17
1860	24.1	-0.1	45.4 - 6.1	6	0.740	16	S 89° W	6.09
1861	19.5	-3.7	31.5 - 7.0	4	0.035	23	N 86° W	2.92
M	23.5	...	42.80 - 6.52	4.5	1.407	12.0	...	7.86 Ml.
Dif. from av'g.	-3.67	...	-8.30 - 0.48	-0.5	-0.722	11.0	...	+ 1.44