

REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR JANUARY, 1864.

Notes.—The monthly means do not include Sunday observations. The daily means, excepting those that relate to the wind, are derived from six observations daily, namely, at 6 a.m., 8 a.m., 2 p.m., 4 p.m., 10 p.m., and midnight. The means and results for the wind are from hourly observations.

Highest Barometer 30.102 at 0 a.m. on 7th. } Monthly range =
 Lowest Barometer 28.910 at 2 p.m. on 18th. } 1.192 inches.
 Maximum temperature 44.2 on p.m. of 24th } Monthly range =
 Minimum temperature -9.9 on a.m. of 2nd } 53.9
 Mean maximum temperature 29.58 } Mean daily range = 12.97
 Mean minimum temperature 17.51 }
 Greatest daily range 26.9 from a.m. to p.m. of 21st.
 Least daily range 2.8 from a.m. to p.m. of 18th.
 Warmest day 23th. Mean Temperature 36.82 } Difference = 89.22
 Coldest day 2nd. Mean Temperature -2.40 }
 Maximum { Solar (Vacuum) 106.90 on p.m. of 26th } Monthly range =
 Radiation { Terrestrial -13.95 on a.m. of 2nd } 119.5
 Aurora observed on 0 nights. Possible to see Aurora on 11 nights; impossible on 20 nights.
 Snowing on 14 days; depth 25.3 inches; duration of fall, 65.5 hours.
 Running on 5 days; depth, 1.165 inches; duration of fall, 16.4 hours.
 Mean of cloudiness = 0.67; below average, 0.05. Most cloudy hour observed, 8 a.m.; mean = 0.77; least cloudy hour observed, 4 p.m.; mean = 0.60.

Swains of the components of the Atmospheric Current, expressed in Miles.
 North. 1351.28
 South. 2678.33
 East. 827.94
 West. 5094.50

Resultant direction, S. 73° W.; Resultant Velocity, 6.00 miles per hour.
 Mean velocity 10.22 miles per hour.
 Maximum velocity 35.4 miles, from 1 to 2 p.m. on 2nd, and from 6 to 7 p.m. on 19th.
 Most windy day 1st.—Mean velocity 23.37 miles per hour.
 Least windy day 27th.—Mean velocity 1.49 miles per hour.
 Most windy hour, noon to 1 p.m.—Mean velocity, 12.36 miles per hour; } Difference 26.88
 Least windy hour, 4 to 5 a.m.—Mean velocity, 7.95 miles per hour. }
 1st, 2nd, and 3rd.—Continued storm of wind from 4 a.m. of 1st to 1 a.m. of 4th; } 4.41 miles.
 temperature piercing and keen.—13th. Perfect solar halo at 1 and 2 p.m.—14th.
 Solar halo 3 to 4 p.m.—18th. Perfect lunar halo 8 to 9.30 p.m.—18th. Heavy snow }
 storm from 3 p.m. of 19th, continuing to 8 p.m. of 19th; wind high and squally, }
 and snow drifting furiously.—20th. Solar halo at 9 a.m.; lunar corona 9 and 10 }
 p.m.—22nd. Lunar halo at 10 p.m.—24th. Lunar corona at 9 p.m.—25th. Solar }
 halo during the forenoon.—30th. Stormy; rain and snow intermixed 7 a.m. to }
 midnight.—31st. Heavy storm of rain from midnight to 6 a.m. of 1st February.
 .The temperature of the first eleven days of this month was uniformly cold, being,

COMPARATIVE TABLE FOR JANUARY.

YEAR.	TEMPERATURE.				RAIN.		SNOW.		WIND.		
	Mean	Excess Above (45°)	Maximum Observed.	Minimum Observed.	Range.	No. of days.	Inches.	No. of days.	Inches.	Resultant Direction.	Force or Velocity.
1840	17.0	- 6.6	40.6	-13.5	54.4	4	1.365	11	...	...	...
1841	27.0	+ 2.0	41.7	- 4.1	45.8	2	2.156	14	...	...	0.36 lbs
1842	27.9	+ 4.3	45.8	1.3	44.5	6	2.176	9	...	...	0.78 "
1843	28.7	+ 5.1	54.4	1.5	52.9	6	4.295	12	14.2	...	0.69 "
1844	20.2	- 3.4	44.0	- 7.7	52.3	7	3.006	11	24.9	...	0.70 "
1845	28.5	+ 2.9	43.0	- 3.4	46.4	5	Imp	9	...	...	0.70 "
1846	26.7	+ 3.1	41.2	0.3	40.9	5	2.383	10	6.0	...	0.55 "
1847	23.3	- 0.3	42.6	- 2.2	44.8	7	2.135	5	7.5	...	1.09 "
1848	28.7	+ 5.1	51.3	-12.0	63.5	7	2.24	8	7.1	N 82° W	5.82 ms
1849	18.5	- 5.1	40.1	-15.2	55.3	4	1.170	10	9.2	N 63° W	3.06
1850	29.7	+ 6.1	46.3	10.6	35.7	5	1.255	8	5.2	N 37° W	6.69
1851	25.5	+ 1.9	43.2	-12.8	56.0	4	1.271	10	7.8	S 77° W	3.26
1852	18.4	- 5.2	37.3	- 7.0	44.3	0	0.000	19	30.9	N 68° W	3.14
1853	23.0	- 0.6	40.9	- 6.6	47.5	1	0.296	6	7.5	N 27° W	2.52
1854	23.6	0.0	45.2	- 4.3	49.5	7	1.275	11	7.5	N 77° W	5.42
1855	25.0	+ 2.3	48.2	- 4.7	52.9	5	0.525	13	23.3	N 73° W	1.91
1856	16.0	- 7.6	33.1	-12.1	45.2	0	0.064	14	13.6	N 75° W	5.24
1857	12.8	-10.8	34.6	-20.1	54.7	3	Imp	16	21.8	N 70° W	4.96
1858	30.0	+ 6.4	45.8	7.5	38.3	6	1.153	11	4.0	N 71° W	3.77
1859	26.4	+ 2.8	41.5	- 26.5	68.0	6	1.441	10	16.4	S 81° W	2.37
1860	23.4	- 0.2	45.4	- 5.1	50.5	6	0.744	16	8.7	N 89° W	6.09
1861	19.9	- 3.7	34.8	- 7.0	41.5	4	0.683	23	20.6	N 86° W	2.69
1862	21.7	- 1.9	42.8	- 1.9	44.7	5	0.11	19	27.4	N 26° W	6.83 "
1863	28.1	+ 4.5	44.6	-11.2	55.8	10	1.125	17	20.6	N 61° W	1.13
1864	23.8	- 0.8	42.5	- 6.0	49.1	5	1.165	14	36.3	S 73° W	6.00
Results to 1864.	23.61	...	42.86	- 6.52	49.35	4.8	1.831	12.6	15.15	N 77° W	2.92
Extr. for 1864.	-0.82	...	-0.36	-0.06	0.25	0.2	0.164	1.4	11.15	...	2.22