

REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR FEBRUARY, 1863.

Highest Barometer 30.502 at 11 a.m. on 4th. } Monthly range =
 Lowest Barometer 29.037 at midnight on 18th. } 1.465 inches.
 Mean Barometer 30.06 } Monthly range =
 Maximum temperature 41.5° on p.m. of 26th }
 Minimum temperature -19.8° on a.m. of 4th } 61.3°
 Mean maximum temperature 30.06 } Mean daily range = 14.95
 Mean minimum temperature 15.47 }
 Greatest daily range 35.6° from a. m. of 4th to a. m. of 5th.
 Least daily range 19th. Mean temperature 33.38 } Difference = 39.90.
 Coldest day 4th. Mean temperature 19.52 }
 Warmest day 19th. Mean temperature 29° from a. m. to p. m. of 2nd.
 Radiation { Solar 53.6° on p. m. of 15th } Monthly range =
 { Terrestrial 24.5° on a. m. of 4th } 8 p. 1
 Aurora observed on 4 nights, viz., on 13th, 22nd, 23rd, and 25th; possible to see
 Aurora on 14 nights; impossible on 11 nights.
 Snowing on 7 days; depth 22.0 inches; duration of fall 53.2 hours.
 Raining on 12 days; depth 1.450 inches; duration of fall 40.7 hours.
 Mean of cloudiness = 0.69; below average, 0.03. Most cloudy hour observed, 2 p.m.;
 mean = 0.73; least cloudy hour observed, 10 p.m.; mean = 0.60.
 Sum of the components of the Atmospheric Current, expressed in Miles.
 North. 2537.34
 South. 2183.40
 Resultant direction, N. 23° W.; resultant Velocity, 2.27 miles per hour.
 Mean velocity 10.13 miles per hour.
 Maximum velocity 33.0 miles, from 10 to 11 a.m. on 26th.
 Most windy day 24th - Mean velocity 19.10 miles per hour.
 Least windy day 23rd - Mean velocity 4.00 miles per hour.
 Most windy hour, 10 to 11 a.m. - Mean velocity 7.34 miles per hour. } Difference 13.10
 Least windy hour, 9 to 10 p.m. - Mean velocity 4.00 miles per hour. }
 4th. - Very cold day; high barometric pressure; lunar halo and corona at 10 p.m. and
 midnight; rapid ascent of temperature - 5th. Great snow storm, and corona at 10 p.m. and
 from 10 a.m. of 5th to 10 p.m. - Mean velocity, 7.34 miles per hour. } Difference
 2.30 p.m.; sleet 3.30 to 4 p.m.; rain from 4 to 11 p.m. - 11th. High wind; snow fall
 the forenoon. - 18th. Solar halo 8 a.m.; auroral light 7 to 9 p.m. - 19th. Dense
 fog 3 a.m. to 2 p.m.; raining from 3 p.m. to 3 a.m. of 20th. Wind high and
 squally; rapid descent of temperature. - 22nd. Auroral light arches, an arc from
 10.30 p.m. to 11 p.m. - 24th. Imperfect lunar halo at 9.30 p.m. - 26th. Dense fog, 5 to
 10.30 p.m.; lunar halo at 11 p.m. - 25th. Imperfect lunar halo at 10 p.m.
 February, 1863, was comparatively cold, wet, windy and clear; it was also remark-
 able for rapid barometric movements and great corresponding changes of tempera-
 ture.

COMPARATIVE TABLE FOR FEBRUARY.

YEAR.	TEMPERATURE.				RAIN.			SNOW.		WIND.	
	Mean.	Excess above average (26° F.).	Maximum observed.	Minimum observed.	Range.	No. of days.	Inches.	No. of days.	Inches.	Resultant Direction.	Mean Force or Velocity.
1840	23.0	+ 5.0	49.1	- 8.3	57.4	8	1.475	6	0.61 lbs
1841	22.4	+ 0.6	43.4	- 0.3	43.7	1	Unsp.	9	1.03 "
1842	26.0	+ 3.9	48.7	+ 2.5	46.2	8	3.625	8	1.05 "
1843	14.5	- 8.5	37.5	- 10.2	47.7	1	0.475	21	11.4	...	0.45 "
1844	26.0	+ 3.0	47.1	- 0.4	47.5	4	0.130	7	10.0	...	0.99 "
1845	26.0	+ 3.0	46.6	- 3.9	50.5	5	Imp.	9	19.0	...	0.65 "
1846	21.5	- 1.5	42.2	- 16.2	57.4	0	0.000	13	46.1	...	0.69 "
1847	26.6	+ 3.6	46.0	- 0.6	47.5	4	0.550	13	27.3	...	5.69 ms
1848	19.5	- 3.5	41.1	- 9.2	50.3	2	0.775	4	0.775	N 65 W	1.48
1849	26.0	+ 3.0	49.2	+ 1.3	47.9	7	2.245	9	19.2	N 41 W	3.43
1850	27.6	+ 4.6	50.2	+ 1.3	48.9	7	2.600	4	2.4	N 80 W	1.99
1851	23.4	+ 0.4	41.2	- 3.2	44.4	3	0.600	4	13.0	N 61 W	3.31
1852	23.1	- 1.1	43.4	- 0.6	44.0	4	1.030	11	12.6	N 49 W	2.51
1853	21.1	- 1.9	42.7	- 6.7	48.4	5	1.470	15	18.0	N 7 E	1.73
1854	15.4	- 7.6	37.3	- 23.0	62.3	2	1.770	11	21.8	N 40 W	6.91
1855	15.7	- 7.3	35.3	- 18.7	51.0	0	0.000	8	0.7	N 81 W	7.70
1856	28.5	+ 5.5	51.2	- 5.9	57.1	11	3.050	11	11.7	S 78 W	3.68
1857	25.5	+ 3.0	49.9	- 6.6	47.5	1	Unsp.	16	26.7	N 72 W	3.22
1858	26.0	+ 3.0	48.3	- 3.9	39.4	6	0.455	14	8.3	N 51 W	2.72
1859	22.8	- 0.2	45.1	- 8.4	56.5	7	1.330	13	18.8	N 61 W	8.50
1860	26.1	+ 3.1	44.6	- 20.4	63.0	4	0.815	17	29.7	N 77 W	3.23
1861	22.5	- 0.5	35.6	- 3.7	39.3	3	0.180	17	23.1	N 55 W	3.03
1862	22.4	- 0.6	38.9	- 19.8	53.7	7	1.450	12	22.0	N 25 W	2.27
1863	22.4	...	44.15	- 6.16	50.32	4.2	1.046	11.6	18.03	N 69 W	3.02
Results for 1863.	-0.57	...	5.25	13.64	8.83	2.8	0.404	0.4	3.97	...	+ 2.05