

REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR FEBRUARY.

Highest Barometer..... 30.361 at 9 p. m., on 10th } Monthly range = 1.209
 Lowest Barometer..... 29.163 at 4 p. m., on 24th }
 Maximum Temperature..... 62.4° on p. m., of 17th } Monthly range = 68.3°
 Minimum Temperature..... -5.9° on p. m. of 2nd }
 Mean maximum Temperature..... 35.60 } Mean daily range = 15.25
 Mean minimum Temperature..... 20.42 }
 Greatest daily range..... 32.0° from a. m. of 3rd to a. m. of 4th.
 Least daily range..... 4.0° from p. m. of 22nd to a. m. of 23rd
 Warmest day..... 7th .. Mean temperature..... 47°08 } Difference = 43°36.
 Coldest day..... 2nd .. Mean temperature..... 3.72 }
 Maximum. { Solar..... 68°5 on p. m. 17th } Monthly range = 83°0
 Radiation. { Terrestrial..... -14°5 on p. m. 2nd }

Aurora observed on 1 night, viz. 26th.
 Possible to see Aurora on 12 nights; impossible on 16 nights.
 Snowing on 11 days,—depth 11.7 inches; duration of fall 34.3 hours.
 Raining on 11 days,—depth 3.050 inches; duration of fall 73.1 hours.
 Mean of cloudiness = 0.72.
 Most cloudy hour observed, 8 a. m., mean = 0.79; least cloudy hour observed, 10 p. m., mean, = 0.61.

Sums of the components of the Atmospheric Current, expressed in miles,
 North. South. East. West.
 1543.50 2053.24 1177.46 3594.46
 Resultant direction S. 78° W.; Resultant Velocity 3.668 miles per hour.
 Mean velocity..... 9.82 miles per hour.
 Maximum velocity..... 44.6 miles from 6 to 7 a. m. on the 10th.
 Most windy day..... 10th .. Mean velocity 20.57 miles per hour.
 Least windy day..... 16th .. Mean velocity 1.11 ditto.
 Most windy hour .. noon to 1 p. m. Mean velocity 12.68 ditto. } Difference
 Least windy hour ... 11 p. m. to midnight. Mean velocity 7.84 ditto. }

7th—Halo round the Moon, at 10 p. m.
 9th—Halo round the Moon, from 10 p. m.
 13th—Halo and Corona round the Moon, from 11.30 p. m.
 15th, 16th, and 17th—Very foggy and mild.
 18th—Thunder and Lightning from 9 p. m., (first of the season,) accompanied with rain, hail, sleet, and snow.
 24th—Sheet-lightning at 7.35 p. m.
 26th—Faint auroral light from 7 to 8 p. m.
 28th—Halo round the Moon, from 7.15 to 8.30 p. m. Brilliant meteor in W. at 11.40 p. m., moving horizontally towards the north; tail emitting sparks.

This was the warmest February on our records, having a mean temperature 5.55 above the average of 18 years, 3.1 above the mean temperature of February 1855, and 12.8 above that of February 1856.

The observed maximum 51.2 was higher than any previously recorded in February.

The number of days on which rain fell was greater than on any former occasion, and the depth was 1.91 inches above the average. This was the most rainy February on record excepting that of 1842.

The resultant direction of the wind for February, from 1848 to 1857, inclusive, was N 70° W, and the resultant velocity 2.93 miles per hour.

COMPARATIVE TABLE FOR FEBRUARY.

YEAR.	TEMPERATURE.				RAIN.		SNOW.		WIND.		
	M'n.	Diff. from aver.	Max. ab'd.	Min. ab'd.	Range.	No. of	Inch's.	No. of	Inch's.	Resultant.	Mean Force or Velocity.
						days.		days.			
1840	28.0	+5.0	49.1	-8.3	57.4	8	1.475	6	1.475	...	0.61 lbs.
1841	22.4	-0.6	43.4	-0.3	43.7	1	0.000	9	0.000	...	1.03
1842	26.9	+8.9	49.7	+2.5	46.2	1	3.625	9	3.625	...	1.05
1843	14.5	-8.5	37.5	-10.2	47.7	1	0.475	21	14.4	...	0.43
1844	26.0	+3.0	47.1	-0.4	47.5	4	0.430	7	19.0	...	0.69
1845	20.0	+3.0	46.0	-3.9	50.5	5	imperf.	9	19.0	...	0.65
1846	20.4	-2.6	41.4	-16.2	57.6	6	0.000	13	46.1	...	0.69
1847	21.5	-1.5	42.2	-1.0	43.2	2	0.550	13	27.3	...	0.65
1848	26.6	+3.6	46.0	-0.6	47.5	4	0.775	8	10.8	N 65° W	2.53 5.69 miles
1849	19.5	-3.5	41.1	-0.2	50.3	2	0.240	13	10.2	N 41° W	1.48 6.58
1850	26.0	+3.0	49.2	+1.3	47.9	7	2.235	9	23.1	N 80° W	3.43 7.61
1851	27.6	+4.6	50.2	+1.3	48.9	7	2.600	4	2.4	N 64° W	1.09 6.94
1852	23.4	+0.4	44.2	-3.2	44.4	3	0.050	11	13.0	S 75° W	3.34 6.42
1853	24.1	+1.1	43.4	-0.6	44.0	4	1.030	15	12.6	N 40° W	2.51 7.20
1854	21.1	-1.0	42.7	-5.7	48.4	2	1.460	16	18.0	N 70° E	1.68 6.91
1855	15.4	-7.6	37.3	-25.0	62.3	5	1.770	14	21.8	N 39° W	4.38 8.17
1856	15.7	-7.3	33.3	-18.7	51.0	0	0.000	8	9.8	N 81° W	7.70 10.71
1857	28.5	+5.5	51.2	-5.9	57.1	11	3.050	11	11.7	S 78° W	3.68 9.82
M	22.98	...	44.14	-5.78	49.92	4.1	1.139	10.8	17.27	...	7.61 miles