

REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR FEBRUARY.

Highest Barometer..... 30.036 at 6 a. m. on 4th } Monthly range=
Lowest Barometer..... 28.778 at 2 p. m. on 16th } 1.308 inches.
Highest registered temperature..... 37°8 at p. m. on 21st } Monthly range=
Lowest registered temperature..... -18°7 at a. m. on 13th } 56°5
Mean maximum Thermometer..... 24°22 } Mean daily range = 20°65
Mean minimum Thermometer..... 3°67 }

Greatest daily range..... 28°7 from a. m. of 12th to a. m. of 13th.
Least daily range..... 9°0 from a. m. of 4th to a. m. of 5th.
Warmest day..... 20th ... Mean temperature..... 39°87 } Difference = 38°75.
Coldest day..... 13th ... Mean temperature..... -0°88 }
Greatest intensity of Solar Radiation... 59% on p. m. of 21st } Monthly range =
Lowest point of Terrestrial Radiation... -27°8 on a. m. of 13th } 86°3
Aurora observed on five nights, viz., on the 13th, 16th, 20th, 23rd, and 25th; possi-
ble to see aurora on 20 nights; impossible to see aurora on 8 nights.

No rain recorded this month.
Snowing on 8 days, depth 9.7 inches—snowing 50.6 hours.
Mean of cloudiness 0.53; most cloudy hour observed, 4 p. m., mean = 0.64; least
cloudy hour observed, 10 p. m., mean = 0.39.
No thunder or lightning recorded this month.

Sum of the Atmospheric Current, in miles, resolved into the four Cardinal directions.

North.	West.	South.	East.
2129.57	5606.28	1594.15	307.35
Mean direction of the wind, W 9° N.			
Mean velocity of the wind..... 10.71 miles per hour.			
Maximum velocity..... 32.4 miles per hour, from 7 to 8 p. m. on 16th.			
Most windy day..... 22nd. Mean velocity 18.55 miles per hour.			
Least windy day..... ditto. Mean velocity 3.21			
Most windy hour..... 1 to 2 p. m. Mean velocity 13.42			
Least windy hour..... 10 to 11 p. m. Mean velocity 7.81			
Mean diurnal variation... 5.61 miles.			

Halos observed—Round the Moon at 10 p. m. on 13th; Sun, 2 to 4 p. m. on 16th
(perfect); Sun, 2 to 4 p. m. on 22nd (perfect); Moon, 10 p. m. to midnight on 25th,
22nd (perfect); Sun, 11 a. m. to 3 p. m. on 29th, (very perfect); diam. about 45".
Zodiacal light very bright on the evenings of the 5th, 22nd, 24th, 26th and 27th.

TEMPERATURE.—The mean temperature of February was 9°95 below the average
of the last 17 years, and it is the lowest recorded during that period, excepting
those of February 1843, and February 1855. This month shows also the lowest

maximum temperature and the lowest minimum but one during the same period.
The column of daily means exhibits several remarkable changes.

Snow.—The fall of snow during the month was 8 inches below the average of 14
years, and the least that has occurred during that period, excepting in Feb. 1851,
when, as a compensation, the fall of rain was more than double its average amount.
RAINS.—No rain fell in Feb.; nor has there been any rain since 15th Dec. The only
two examples of a total absence of rain in Feb. occurred in Feb. 1844, and Feb.
1846; but in each of these cases there had been an unusual amount of rain in the
preceding month.

WIND.—The mean velocity of the wind exceeded the average by 3.34 miles, and is
the greatest yet recorded in February by 2.54 miles.

COMPARATIVE TABLE FOR FEBRUARY.

YEAR.	TEMPERATURE.					RAIN.		SNOW.		WIND.	
	Mean.	Diff. from Aver.	Max. obs'd.	Min. obs'd.	Range.	Days.	Inch's.	Days.	Inch's.	Mean Direc'n.	Mean Force or Velocity.
1840	28.0	+5.35	40.1	-8.3	57.4	8	1.475	6	...	...	0.61 lbs.
1841	22.4	-0.25	43.4	-0.3	43.7	1	0.000	9	...	...	1.03 "
1842	26.9	+4.25	48.7	+2.5	46.2	1	3.625	9	...	...	1.05 "
1843	14.5	-8.15	37.6	-10.2	47.7	7	0.475	21	14.4	...	0.43 "
1844	26.0	+3.35	47.1	-0.4	47.5	4	0.430	7	10.0	...	0.99 "
1845	26.0	+3.35	46.6	-3.9	50.5	5	Imp'd	9	19.0	...	0.95 "
1846	20.4	-2.25	41.4	-16.2	57.6	0	0.000	13	46.1	...	0.69 "
1847	21.5	-1.15	42.2	-1.0	43.2	2	0.550	13	27.3	...	5.69 miles.
1848	26.6	+3.95	46.9	-0.6	47.5	4	0.775	8	10.8	W 25° N	6.45 "
1849	19.5	-3.15	41.1	-9.2	50.3	2	0.240	13	19.2	N 41° W	7.81 "
1850	26.0	+3.35	49.2	+1.3	47.9	7	1.235	9	23.1	W 10° N	6.94 "
1851	27.6	+4.95	50.2	+1.3	48.9	7	2.690	4	2.4	W 26° N	6.42 "
1852	23.4	+0.75	41.2	-3.2	44.4	3	0.650	11	13.0	W 15° S	7.29 "
1853	24.1	+1.45	43.4	-0.6	44.0	4	1.030	15	12.6	W 41° N	6.91 "
1854	21.1	-1.55	42.7	-5.7	48.4	5	1.460	15	18.0	N 7° E	8.17 "
1855	15.4	-7.25	37.3	-23.0	62.3	2	1.770	14	21.8	N 37° W	10.71 "
1856	15.7	-6.95	35.3	-18.7	54.0	0	0.000	8	9.7	W 9° N	8.17 "
Mean	22.65	...	43.72	-5.78	49.50	3.7	1.020	10.8	17.7	...	0.78 lbs. 7.37 miles