

# REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR JANUARY, 1860.

Highest Barometer : : : : 30.142 at 8 a. m. on 2nd. } Monthly range = 0.957 inches.  
 Lowest Barometer : : : : 29.155 at 2 p. m. on 15th. }  
 Maximum temperature : : : : 46° at 4 p. m. of 24th } Monthly range = 53°  
 Minimum temperature : : : : -6° on a. m. of 5th }  
 Mean maximum temperature : : : : 29°83 } Mean daily range = 12°25.  
 Mean minimum temperature : : : : 17°58 }  
 Greatest daily range : : : : 30°5 from a. m. to p. m. on 29th.  
 Least daily range : : : : 3.5 from a. m. to p. m. on 26th.  
 Warmest day : : : : 24th ... Mean Temperature : : : : 41°48 } Difference = 39°13.  
 Coldest day : : : : 31st ... Mean Temperature : : : : 29°35 }  
 Maximum { Solar : : : : 69°4 on p. m. of 21st } Monthly range = 79°9.  
 Radiation { Terrestrial : : : : -37.5 on a. m. of 5th }  
 Aurora observed on 5 nights, viz., 11th, 20th, 21st, 27th, and 28th; possible to see Aurora on 16 nights; impossible on 15 nights.  
 Snowing on 16 days; depth 8.7 inches; duration of fall 50.5 hours.  
 Raining on 6 days; depth, 0.740 inches; duration of fall, 24.2 hours.  
 Mean of cloudiness = 0.71; most cloudy hour observed, 8 a. m., mean = 0.86; least cloudy hour observed, midnight, mean = 0.47.

## Sums of the components of the Atmospheric Current, expressed in Miles.

| North.                                                                         | South.  | East.  | West.   |
|--------------------------------------------------------------------------------|---------|--------|---------|
| 1949.15                                                                        | 1848.88 | 382.98 | 4887.67 |
| Resultant direction, N 89° W; Resultant Velocity, 6.99 miles per hour.         |         |        |         |
| Mean velocity of the wind 9.37 miles per hour.                                 |         |        |         |
| Maximum velocity : : : : 33.5 miles per hour, from 1 to 2 a. m., on 31st.      |         |        |         |
| Most windy day : : : : 30th—Mean velocity, 20.31 miles per hour; { Difference. |         |        |         |
| Least windy day : : : : 26th—Mean velocity, 1.51 do { 18.80 miles.             |         |        |         |
| Most windy hour, 1 to 2 p. m.—Mean velocity, 12.11 do { Difference.            |         |        |         |
| Least windy hour, 7 to 8 a. m.—Mean velocity, 7.33 do { 4.78 miles.            |         |        |         |

2nd. Imperfect Lunar Halo, from 9.30 p. m.—6th. Perfect Lunar Halo, from 11.30 p. m.—9th. Lunar Halo at 9 p. m.—13th. Lunar Halo at midnight.—14th. Dense Fog from 6 to 8 a. m.—29th. Lunar Halo during the evening.—30th. Stormy, but very mild day.—31st. Well defined Lunar Halo, from 6.40 to 7.50 p. m.

Great change of temperature from 30th to 31st. Mean temperature, 30th, = 29°35 Mean temperature, 31st, = 29°35. Difference, 29°00. Maximum on 30th at 4 p. m., 34°0. Minimum on 31st, at midnight, -6°1. Range in 32 hours = 39°1.

The Resultant Direction and Velocity of the Wind for the month of January, from 1849 to 1860 inclusive, were respectively N. 76° W., and 2.99 miles.

The mean Temperature for the month of January, 1860, differed but little from the average of 21 years. The Rain and Snow, were both less than the average; the former, by 0.703—the latter, by 4.54 inches. The velocity of the Wind, was 1.62 miles per hour above the average of 13 years. The month was therefore dry, and windy, and was characterized by some very rapid changes of temperature.

## COMPARATIVE TABLE FOR JANUARY.

| YEAR. | TEMPERATURE. |                          |                   |                   |        | RAIN.        |         | SNOW.        |         | WIND.                  |               |
|-------|--------------|--------------------------|-------------------|-------------------|--------|--------------|---------|--------------|---------|------------------------|---------------|
|       | Mean.        | Difference from Average. | Maximum observed. | Minimum observed. | Range. | No. of days. | Inches. | No. of days. | Inches. | Resultant Direc- tion. | Mean Velocity |
| 1840  | 17.0         | - 6.7                    | 40.6              | -13.8             | 54.4   | 4            | 1.395   | 11           | ...     | o                      | ... 0.36lbs   |
| 1841  | 25.6         | + 1.9                    | 41.7              | -4.1              | 45.8   | 2            | 2.150   | 14           | ...     | ...                    | ... 0.78 "    |
| 1842  | 27.0         | +4.2                     | 45.8              | 1.3               | 44.5   | 5            | 2.170   | 9            | ...     | ...                    | ... 0.69 "    |
| 1843  | 28.7         | +5.0                     | 54.4              | 7.5               | 52.9   | 6            | 4.295   | 12           | 14.2    | ...                    | ... 0.70 "    |
| 1844  | 20.2         | -3.5                     | 44.6              | -7.7              | 52.3   | 7            | 3.005   | 11           | 24.9    | ...                    | ... 0.70 "    |
| 1845  | 26.5         | +2.8                     | 43.0              | -3.4              | 46.4   | 5            | ...     | 9            | 22.7    | ...                    | ... 0.55 "    |
| 1846  | 26.7         | +3.0                     | 41.2              | 0.3               | 40.9   | 5            | 2.335   | 5            | 6.0     | ...                    | ... 1.09 "    |
| 1847  | 23.3         | -0.4                     | 42.6              | -2.2              | 44.8   | 7            | 2.135   | 5            | 7.5     | N 82 W                 | 2.03 3.82ms.  |
| 1848  | 28.7         | +5.2                     | 51.5              | -15.2             | 63.5   | 7            | 2.245   | 8            | 7.1     | N 63 W                 | 3.06 6.71 "   |
| 1849  | 18.5         | -6.2                     | 40.1              | -15.2             | 55.3   | 4            | 1.175   | 10           | 9.2     | N 37 W                 | 0.69 5.80 "   |
| 1850  | 29.7         | +6.0                     | 46.3              | 10.6              | 35.7   | 5            | 1.250   | 8            | 5.2     | N 77 W                 | 3.26 7.69 "   |
| 1851  | 25.5         | +1.8                     | 43.2              | -12.8             | 56.0   | 4            | 1.275   | 10           | 7.8     | N 65 W                 | 3.14 7.07 "   |
| 1852  | 18.4         | -5.3                     | 37.3              | -7.0              | 44.3   | 0            | 0.000   | 19           | 30.9    | N 27 W                 | 2.52 6.34 "   |
| 1853  | 23.6         | -0.1                     | 45.2              | -6.6              | 47.5   | 1            | 0.200   | 6            | 7.5     | N 77 W                 | 2.44 6.91 "   |
| 1854  | 23.6         | 0.7                      | 40.9              | -4.3              | 49.5   | 7            | 1.270   | 11           | 7.5     | N 73 W                 | 1.91 7.26 "   |
| 1855  | 25.9         | +2.2                     | 48.2              | -4.7              | 52.9   | 5            | 0.525   | 13           | 23.3    | N 75 W                 | 5.24 10.69 "  |
| 1856  | 16.0         | -7.7                     | 33.1              | -12.1             | 45.2   | 0            | 0.000   | 14           | 13.6    | N 70 W                 | 2.33 7.40 "   |
| 1857  | 12.8         | -10.9                    | 34.6              | -20.1             | 54.7   | 3            | inapp.  | 16           | 21.8    | N 81 W                 | 4.90 10.31 "  |
| 1858  | 30.0         | +6.3                     | 45.8              | -7.5              | 38.0   | 6            | 1.152   | 11           | 16.4    | N 71 W                 | 3.17 8.76 "   |
| 1859  | 26.4         | +2.7                     | 41.6              | -26.5             | 68.0   | 6            | 1.449   | 19           | 10.4    | N 59 W                 | 6.09 9.37 "   |
| 1860  | 23.4         | -0.3                     | 45.4              | -5.1              | 50.5   | 6            | 0.740   | 16           | 8.7     | N 89 W                 | ...           |
| Mean  | 23.70        | ...                      | 43.19             | -6.50             | 49.69  | 4.5          | 1.443   | 11.613-24    | ...     | ...                    | 7.75          |