

## REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR DECEMBER, 1867.

## COMPARATIVE TABLE FOR DECEMBER, 1867.

| YEAR.             | TEMPERATURE. |                       |          |          | RAIN.  |         | SNOW.        |         | WIND.      |                |
|-------------------|--------------|-----------------------|----------|----------|--------|---------|--------------|---------|------------|----------------|
|                   | Mean.        | Excess above Average. | Maximum. | Minimum. | Range. | Inches. | No. of days. | Inches. | Resultant. | Mean Velocity. |
|                   |              |                       |          |          |        |         |              |         |            |                |
| 1840              | 24.3         | -1.0                  | 42.1     | -8.6     | 50.7   | 3       | 1            | 0       | ...        | ...            |
| 1841              | 28.7         | +2.6                  | 46.1     | 3.1      | 43.0   | 7       | 6            | 0.000   | ...        | 1.33 lbs       |
| 1842              | 24.0         | -1.6                  | 40.5     | 3.2      | 37.3   | 3       | 3            | 0.880   | ...        | 0.61           |
| 1843              | 24.7         | +3.8                  | 48.5     | 3.1      | 45.4   | 6       | 1            | 0.040   | ...        | 0.53           |
| 1844              | 28.2         | +2.0                  | 48.5     | 1.6      | 46.9   | 6       | 6            | 1.040   | ...        | 0.40           |
| 1845              | 21.1         | -6.1                  | 39.7     | 2.4      | 42.1   | 5       | 12           | 1.216   | ...        | 0.57           |
| 1846              | 27.5         | +1.3                  | 49.2     | 3.9      | 45.3   | 5       | 5            | 1.185   | ...        | 0.57           |
| 1847              | 30.1         | +2.9                  | 49.5     | 1.1      | 47.7   | 7       | 8            | 2.760   | ...        | 0.55           |
| 1848              | 29.1         | +0.3                  | 48.8     | -0.6     | 47.5   | 5       | 0            | 0.840   | ...        | 6.44 m.        |
| 1849              | 20.5         | -4.5                  | 48.8     | -0.0     | 47.8   | 2       | 0            | 0.100   | ...        | 6.23           |
| 1850              | 21.7         | -4.7                  | 44.0     | -14.8    | 58.8   | 2       | 0            | 1.070   | ...        | 7.30           |
| 1851              | 21.5         | +0.7                  | 51.0     | 13.2     | 37.8   | 7       | 3            | 0.905   | ...        | 6.54           |
| 1852              | 31.9         | +0.9                  | 40.4     | -8.4     | 54.8   | 4       | 0            | 0.625   | ...        | 8.98           |
| 1853              | 25.3         | -0.6                  | 47.0     | -7.0     | 51.8   | 6       | 0            | 0.500   | ...        | 8.56           |
| 1854              | 21.9         | -4.3                  | 44.8     | -0.1     | 45.2   | 6       | 0            | 1.845   | ...        | 11.38          |
| 1855              | 20.8         | -8.3                  | 42.2     | -0.1     | 41.3   | 7       | 0            | 1.700   | ...        | 11.50          |
| 1856              | 22.9         | +0.6                  | 47.0     | -0.1     | 47.1   | 7       | 3            | 3.205   | ...        | 8.84           |
| 1857              | 31.9         | +1.2                  | 46.4     | 4.2      | 41.2   | 11      | 1            | 1.657   | ...        | 9.30           |
| 1858              | 27.4         | +8.3                  | 64.8     | -0.0     | 60.8   | 3       | 1            | 0.035   | ...        | 10.79          |
| 1859              | 17.9         | -2.2                  | 39.0     | -7.0     | 46.0   | 3       | 1            | 1.362   | ...        | 10.14          |
| 1860              | 24.0         | +2.0                  | 45.2     | 5.6      | 49.7   | 5       | 0            | 0.500   | ...        | 7.96           |
| 1861              | 31.1         | +4.0                  | 55.2     | -3.4     | 53.5   | 5       | 1            | 1.945   | ...        | 7.58           |
| 1862              | 28.8         | +2.6                  | 50.1     | -1.6     | 54.9   | 10      | 2            | 2.900   | ...        | 9.40           |
| 1863              | 27.0         | +1.5                  | 51.4     | -10.4    | 60.8   | 9       | 2            | 2.048   | ...        | 9.98           |
| 1864              | 24.7         | +1.5                  | 54.2     | 5.7      | 48.5   | 7       | 1            | 1.727   | ...        | 7.83           |
| 1865              | 27.7         | +1.1                  | 51.0     | -6.0     | 50.0   | 7       | 2            | 2.700   | ...        | 9.91           |
| 1866              | 25.1         | -4.5                  | 49.5     | -12.8    | 62.3   | 7       | 1            | 1.408   | ...        | 10.22          |
| 1867              | 21.5         | -4.5                  | 49.5     | -12.8    | 62.3   | 7       | 1            | 1.408   | ...        | 10.22          |
| Results for 1867. | 20.21        | .....                 | 47.31    | -2.03    | 49.34  | 5.74    | 13.0         | 14.33   | ...        | 8.35           |
| Excess for 1867.  | -4.61        | .....                 | +2.19    | -10.77   | 12.09  | +       | +            | 0.78    | ...        | +1.97          |

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 resultants for the wind are from hourly observations.

Highest Barometer . . . . . 30.228 at 10 p.m. on 30th. } Monthly range==  
 Lowest Barometer . . . . . 28.708 at 4 p.m. on 6th. } 1.460.  
 { Maximum temperature . . . . . 49°5 on 26th. } Monthly range==  
 { Minimum temperature . . . . . -12°8 on 13th. } 62°3  
 { Mean maximum temperature . . . . . 29°41 } Mean daily range==  
 { Mean minimum temperature . . . . . 15°30 } 14°11  
 { Greatest daily range . . . . . 30°0 from a.m. to p.m. on 9th.  
 { Least daily range . . . . . 4°0 from a.m. to p.m. on 30th.  
 Warmest day . . . . . 27th...Mean temperature . . . . . 38°37 } Difference==43°30.  
 Coldest day . . . . . 12th...Mean temperature . . . . . -5°02 }  
 Maximum { Solar . . . . . 77°0 on 26th } Monthly range==92°5  
 Radiation { Terrestrial . . . . . -15°5 on 13th }  
 Aurora observed on 1 night, viz.: 30th.  
 Possible to see aurora on 10 nights; impossible on 21 nights.  
 Snowing on 21 days; depth, 13.0 inches; duration of fall, 70.5 hours.  
 Raining on 7 days; depth, 1.408 inches; duration of fall, 30.5 hours.  
 Mean of cloudiness==0.78.  
 Most cloudy hour observed, 2 p.m.; mean, 0.80; least cloudy hour observed, 6 a.m.; mean, 0.70.

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

|                                                           |         |        |         |
|-----------------------------------------------------------|---------|--------|---------|
| North.                                                    | South   | East.  | West.   |
| 790.83                                                    | 1120.58 | 847.33 | 3019.84 |
| Resultant direction, S. 81° W.; Resultant Velocity, 4.82. |         |        |         |

Mean velocity, 10.32 miles per hour.  
 Maximum velocity, 36.8 miles, from 7 to 8 p.m. of 6th.  
 Most windy day, 22nd; mean velocity, 18.72 miles per hour } Difference, 13.11 miles.  
 Least windy day, 4th; mean velocity, 5.61 miles per hour }  
 Most windy hour, 1 p.m.; mean velocity, 12.08 miles per hour } Difference, 3.40 miles.  
 Least windy hour, 8 p.m.; mean velocity, 8.50 miles per hour }

2nd December. Solar halo. 4th. Lunar halo. 6th. Lunar halo. 6th. Very heavy gale of wind. 11th. Solar halo and Lunar halo. 11th. Toronto Bay frozen over. 12th. Lunar halo. 12th. Solar halo, very cold day, the coldest on the records of the Observatory during the month of December. 18th. Earthquake felt in Toronto at 8 a.m.