

## REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR JULY, 1877.

## COMPARATIVE TABLE FOR JULY.

| YEAR.            | TEMPERATURE. |                       |            |            |        | RAIN.        |         | SNOW.        |         | WIND.      |       |
|------------------|--------------|-----------------------|------------|------------|--------|--------------|---------|--------------|---------|------------|-------|
|                  | Mean.        | Excess above average. | Maxi- mum. | Mini- mum. | Range. | No. of days. | Inches. | No. of days. | Inches. | Resultant. |       |
|                  |              |                       |            |            |        |              |         |              |         | Direction. | Vel'y |
| 1849             | 68.4         | +1.0                  | 88.6       | 45.2       | 43.4   | 4            | 3.412   | ...          | ...     | S 5 W      | 0.75  |
| 1850             | 68.9         | +1.5                  | 84.2       | 51.6       | 34.6   | 12           | 5.270   | ...          | ...     | N 81 E     | 0.69  |
| 1851             | 65.0         | +2.4                  | 82.7       | 46.5       | 36.2   | 12           | 3.625   | ...          | ...     | N 60 W     | 0.85  |
| 1852             | 66.8         | +1.6                  | 90.1       | 48.5       | 41.6   | 8            | 4.025   | ...          | ...     | N 43 W     | 0.93  |
| 1853             | 65.6         | +1.8                  | 91.3       | 41.6       | 49.7   | 10           | 0.916   | ...          | ...     | S 58 E     | 0.24  |
| 1854             | 72.5         | +5.1                  | 93.0       | 42.5       | 55.5   | 9            | 4.895   | ...          | ...     | S 49 W     | 0.57  |
| 1855             | 67.9         | +0.5                  | 92.8       | 49.2       | 43.6   | 13           | 3.244   | ...          | ...     | S 19 W     | 0.73  |
| 1856             | 69.9         | +2.5                  | 96.6       | 49.5       | 47.1   | 8            | 1.120   | ...          | ...     | N 79 W     | 1.57  |
| 1857             | 67.8         | +0.4                  | 86.6       | 47.0       | 39.6   | 16           | 3.476   | ...          | ...     | S 68 E     | 0.81  |
| 1858             | 67.9         | +0.5                  | 85.0       | 62.0       | 33.0   | 13           | 2.611   | ...          | ...     | N 15 E     | 1.13  |
| 1859             | 56.9         | +0.5                  | 88.0       | 44.7       | 43.3   | 12           | 4.336   | ...          | ...     | N 66 W     | 1.45  |
| 1860             | 63.9         | +3.5                  | 88.0       | 43.8       | 44.2   | 13           | 4.336   | ...          | ...     | N 60 W     | 2.15  |
| 1861             | 65.4         | +2.0                  | 84.5       | 47.0       | 37.5   | 16           | 2.635   | ...          | ...     | N 74 W     | 1.43  |
| 1862             | 68.7         | +0.7                  | 95.5       | 48.2       | 47.3   | 15           | 6.344   | ...          | ...     | S 80 W     | 1.42  |
| 1863             | 67.6         | +0.2                  | 85.5       | 48.0       | 35.5   | 15           | 3.408   | ...          | ...     | N 18 W     | 0.40  |
| 1864             | 69.7         | +2.3                  | 90.2       | 49.0       | 41.2   | 8            | 1.332   | ...          | ...     | N 61 W     | 2.23  |
| 1865             | 65.0         | +2.4                  | 85.0       | 45.8       | 37.2   | 11           | 2.470   | ...          | ...     | N 86 W     | 0.31  |
| 1866             | 70.4         | +3.0                  | 94.0       | 47.8       | 46.2   | 16           | 6.390   | ...          | ...     | S 79 W     | 0.93  |
| 1867             | 63.2         | +0.8                  | 94.0       | 48.2       | 45.8   | 12           | 1.963   | ...          | ...     | N 48 W     | 1.40  |
| 1868             | 75.8         | +8.4                  | 93.4       | 59.0       | 34.4   | 5            | 0.510   | ...          | ...     | S 57 E     | 0.72  |
| 1869             | 64.6         | +2.9                  | 84.9       | 49.8       | 35.1   | 13           | 4.610   | ...          | ...     | S 67 W     | 2.01  |
| 1870             | 68.8         | +1.4                  | 87.4       | 48.0       | 39.4   | 10           | 1.894   | ...          | ...     | S 78 W     | 1.59  |
| 1871             | 68.0         | +1.1                  | 88.4       | 47.8       | 40.6   | 11           | 1.255   | ...          | ...     | N 83 W     | 1.65  |
| 1872             | 70.2         | +2.8                  | 98.0       | 62.2       | 43.8   | 13           | 2.297   | ...          | ...     | N 67 W     | 1.19  |
| 1873             | 68.4         | +1.0                  | 87.5       | 47.5       | 40.0   | 11           | 1.913   | ...          | ...     | S 73 W     | 1.71  |
| 1874             | 67.9         | +0.5                  | 83.5       | 44.4       | 39.1   | 11           | 3.350   | ...          | ...     | S 83 W     | 1.26  |
| 1875             | 66.0         | +0.8                  | 88.0       | 46.4       | 41.6   | 6            | 1.810   | ...          | ...     | S 88 W     | 1.69  |
| 1876             | 68.8         | +1.4                  | 92.9       | 46.2       | 46.7   | 16           | 3.290   | ...          | ...     | N 78 W     | 1.63  |
| 1877             | 69.9         | +2.5                  | 83.7       | 60.3       | 38.4   | 11           | 2.720   | ...          | ...     | S 62 W     | 2.42  |
| Results to 1876. | 67.43        | ...                   | 89.31      | 47.76      | 41.60  | 10.73        | 3.162   | ...          | ...     | N 75 W     | 0.89  |
| Excess for 77.   | 2.48         | ...                   | 0.01       | 2.64       | 3.10   | 0.27         | 0.432   | ...          | ...     | ...        | +     |
|                  |              |                       |            |            |        |              |         |              |         |            | 1.52  |

NOTE.—The monthly means of the Barometer and Temperature 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.....29.907 at 8 a.m. on 23rd. } Monthly range =  
Lowest Barometer.....29.120 at 6 a.m. on 19th. } 0.781.

$\frac{1}{2}$  { Maximum temperature.....88°7 on 16th. } Monthly range =  
 $\frac{1}{2}$  { Minimum temperature.....56°3 on 7th. } 28°4.  
 $\frac{1}{2}$  { Mean maximum temperature.....89°15 } Mean daily range =  
 $\frac{1}{2}$  { Mean minimum temperature.....56°58 } 28°59.  
 $\frac{1}{2}$  { Greatest daily range.....33°2 from a.m. to p.m. of 16th.  
 $\frac{1}{2}$  { Least daily range.....13°4 from a.m. to p.m. of 31st.

Warmest day.....26th; mean temperature.....79°30 } Difference=14°08.  
Coldest day.....13th; mean temperature.....62°32 }  
Maximum { Solar.....145°5 on 26th. } Monthly range =  
Radiation { Terrestrial.....43°6 on 21st. } 10°09.

No Aurora observed.  
Possible to see Aurora on 24 nights; impossible on 7 nights.  
Raining on 11 days; depth, 2.720 inches; duration of fall, 18.5 hours.  
Mean of cloudiness, 0.43.

## WIND.

Resultant direction S. 62° W.; resultant velocity 2.42 miles.  
Mean velocity 6.66 miles per hour.  
Maximum velocity 31.0 miles, from 2 to 3 p.m. of 1st.  
Most windy day 1st; mean velocity 16.89 miles per hour.  
Least windy day 26th; mean velocity 2.63 miles per hour.  
Most windy hour 1 p.m.; mean velocity 10.45 miles per hour.  
Least windy hour 6 a.m.; mean velocity 4.02 miles per hour.

Fog on 19th and 29th.  
Dew on 20th, 21st and 23rd.  
Rainbows on 21st and 29th.  
Solar halos on 2nd and 6th.  
Thunder on 3rd, 9th, 12th, 19th, 22nd, 26th and 27th.  
Lightning on 2nd, 6th, 8th, 9th, 12th, 16th, 17th, 18th, 26th and 27th.