

# Meteorological Abstract for the Year 1894.

Observations made at McGill College Observatory, Montreal, Canada. — Height above sea level 187 ft. Latitude N. 45° 30' 17". Longitude 4<sup>h</sup> 54<sup>m</sup> 18.55' W.

C. H. McLEOD, Superintendent.

| MONTH.  | THERMOMETER. |                                  |      |        |                   | * BAROMETER. |        |        |                   | † Mean pressure of vapour. | ‡ Mean relative humidity. | Mean dew point. | WIND.                |                                  | Sky clouded per cent. | Per cent. possible bright sunshine. | Inches of rain. | Number of days on which rain fell. | Inches of snow. | Number of days on which snow fell. | Inches of rain and snow melted. | No. of days on which rain and snow fell. | No. of days on which rain or snow fell. | MONTH.  |                     |
|---|--------------|----------------------------------|------|--------|-------------------|--------------|--------|--------|-------------------|----------------------------|---------------------------|-----------------|----------------------|----------------------------------|-----------------------|-------------------------------------|-----------------|------------------------------------|-----------------|------------------------------------|---------------------------------|--|---|---|---------------------|
|   | Mean.        | † Deviation from 20 years means. | Max. | Min.   | Mean daily range. | Mean.        | Max.   | Min.   | Mean daily range. |                            |                           |                 | Resultant direction. | Mean velocity in miles per hour. |                       |                                     |                 |                                    |                 |                                    |                                 |  |   |   |                     |
| January .....                                 | 12.99        | + 1.21                           | 41.2 | - 12.7 | 19.72             | 30.1271      | 30.776 | 29.273 | .862              | .0766                      | 85.6                      | 9.6             | S. 78° W.            | 17.2                             | 54.                   | 45.                                 | 0.90            | 7                                  | 19.2            | 15                                 | 2.81                            | 2  | 20                                      | January .....                                 |                     |
| February .....                                | 12.65        | + 2.78                           | 38.7 | - 19.5 | 16.88             | 30.1033      | 30.833 | 29.462 | .855              | .0740                      | 81.8                      | 8.1             | S. 50° W.            | 17.8                             | 55.                   | 47.                                 | 0.12            | 1                                  | 9.1             | 11                                 | 1.03                            | 1  | 11                                      | February .....                                |                     |
| March .....                                   | 31.55        | + 7.20                           | 57.0 | 5.0    | 12.34             | 29.9939      | 30.4.9 | 29.396 | .293              | 1.385                      | 74.5                      | 24.4            | S. 49° W.            | 16.5                             | 59.                   | 46.                                 | 1.45            | 11                                 | 7.4             | 9                                  | 2.19                            | 3  | 17                                      | March .....                                   |                     |
| April .....                                   | 44.85        | + 4.85                           | 69.5 | 15.0   | 18.52             | 30.0177      | 30.346 | 29.623 | .183              | 1.840                      | 58.6                      | 30.1            | N. 7.6° W.           | 16.8                             | 53.                   | 55.                                 | 0.59            | 8                                  | 1.2             | 1                                  | 0.71                            | 1  | 8                                       | April .....                                   |                     |
| May .....                                     | 56.04        | + 1.62                           | 79.0 | 37.7   | 18.01             | 29.9135      | 30.372 | 29.436 | .197              | 3.050                      | 67.0                      | 44.8            | S. 51° W.            | 14.7                             | 62.                   | 51.                                 | 2.73            | 17                                 | ...             | ...                                | 3.73                            | ...                                      | 17                                      | May .....                                     |                     |
| June .....                                    | 65.33        | + 1.03                           | 85.2 | 44.8   | 17.16             | 29.8805      | 30.213 | 29.577 | .113              | 4.991                      | 76.2                      | 57.5            | S. 6° W.             | 14.4                             | 58.                   | 30.                                 | 4.02            | 17                                 | ...             | ...                                | 4.02                            | ...                                      | 17                                      | June .....                                    |                     |
| July .....                                    | 64.73        | - 0.09                           | 89.8 | 51.0   | 17.82             | 29.9214      | 30.292 | 29.547 | .134              | 5.131                      | 73.8                      | 59.2            | S. 58° W.            | 13.6                             | 53.                   | 56.                                 | 2.82            | 19                                 | ...             | ...                                | 2.82                            | ...                                      | 19                                      | July .....                                    |                     |
| August .....                                  | 62.82        | + 3.93                           | 80.6 | 44.8   | 16.85             | 29.9591      | 30.213 | 29.666 | .129              | 4.146                      | 71.7                      | 55.0            | S. 31° W.            | 13.7                             | 57.                   | 47.                                 | 1.80            | 16                                 | ...             | ...                                | 1.80                            | ...                                      | 16                                      | August .....                                  |                     |
| September .....                               | 59.63        | + 1.13                           | 78.5 | 35.0   | 16.22             | 30.0698      | 30.625 | 29.512 | .192              | 4.141                      | 79.6                      | 57.9            | S. 31° W.            | 12.7                             | 54.                   | 34.                                 | 2.73            | 14                                 | ...             | ...                                | 2.73                            | ...                                      | 14                                      | September .....                               |                     |
| October .....                                 | 48.63        | + 3.06                           | 65.5 | 31.1   | 13.07             | 29.8842      | 30.299 | 29.174 | .255              | 2.801                      | 80.7                      | 42.6            | S. 68° W.            | 11.8                             | 70.                   | 21.                                 | 4.03            | 22                                 | In p.           | 2                                  | 4.03                            | 1  | 23                                      | October .....                                 |                     |
| November .....                                | 29.32        | + 2.09                           | 53.6 | 6.4    | 12.27             | 30.0408      | 30.763 | 29.387 | .772              | 1.446                      | 80.1                      | 24.7            | S. 78° W.            | 15.9                             | 75.                   | 27.                                 | 1.47            | 11                                 | 11.0            | 12                                 | 2.10                            | ...                                      | 17                                      | November .....                                |                     |
| December .....                                | 22.72        | + 3.94                           | 48.3 | 14.1   | 15.53             | 30.0802      | 30.535 | 29.406 | .282              | 1.141                      | 81.4                      | 17.8            | S. 79° W.            | 16.5                             | 63.                   | 34.                                 | 0.55            | 5                                  | 23.0            | 16                                 | 2.79                            | ...                                      | 21                                      | December .....                                |                     |
| Sums for 1894 .....                           | ...          | ...                              | ...  | ...    | ...               | ...          | ...    | ...    | ...               | ...                        | ...                       | ...             | ...                  | ...                              | ...                   | ...                                 | ...             | ...                                | ...             | ...                                | ...                             | ...                                      | ...                                     | ...   | Sums for 1894 ..... |
| Means for 1894 .....                          | 43.06        | + 1.27                           | ...  | ...    | 16.24             | 29.9960      | ...    | ...    | .226              | 2.630                      | 75.9                      | 35.3            | S. 62° W.            | 15.01                            | 59.4                  | 41.1                                | ...             | ...                                | ...             | ...                                | 30.76                           | 8  | 200                                     | Means for 1894 .....                          |                     |
| Means for 20 years ending Dec. 31, 1894 ..... | 41.79        | ...                              | ...  | ...    | ...               | 29.9790      | ...    | ...    | ...               | 2.507                      | 74.5                      | ...             | ...                  | α 15.18                          | 67.2                  | 54.5                                | 17.98           | 133                                | 120.0           | 81                                 | 39.67                           | 16                                       | 200                                     | Means for 20 years ending Dec. 31, 1894 ..... |                     |

\* Barometer readings reduced to 22° Fah. and to sea level. † Inches of mercury. ‡ Saturation 100. § For 13 years only. ¶ "+" indicates that the temperature has been higher; "-" that it has been lower than the average for 20 years inclusive of 1894. The monthly means are derived from readings taken every 4th hour, beginning with 3 h. 0 m. Eastern Standard time. The anemometer and wind vane are on the summit of Mount Royal, 57 feet above the ground and 810 feet above the sea level. α For 8 years only.

The greatest heat was 89.8 on July 2; the greatest cold was 19.5 below zero on February 10. The extreme range of temperature was therefore 109.3. Greatest range of the thermometer in one day was 39.5 on January 25; least range was 5.2 on March 22. The warmest day was July 23, when the mean temperature was 80.13. The coldest day was February 21, when the mean temperature was 12.58 below zero. The highest barometer reading was 30.833 on February 21. Lowest barometer reading was 29.174 on October 17, giving a range of 1.659 for the year. The lowest relative humidity was 17 on April 14. The greatest mileage of wind recorded in one hour was 69 on January 30, and the greatest velocity in gusts was at the rate of 34 m. p. h. on January 3<sup>d</sup>. The total mileage of wind was 131,482. The resultant direction of the wind for the year is S. 62° W., and the resultant mileage was 50,570. Auroras were observed on 19 nights. Fogs on 14 days. Thunder storms on 20 days. Lightning without thunder on 7 days. Lunar halos or coronas on 14 nights. The sleighing of the winter closed in the city on March 25. The first appreciable snowfall of the autumn was on November 5. The first permanent sleighing of the winter was on December 27.

NOTE.—The yearly means of the above, are the averages of the monthly means, except for the velocity of the wind.