

Meteorology.

—From the Records of the Montreal Observatory, Lat. 45°31 North; Long., 4h. 51m. 11 sec. West of Greenwich, and 182 feet above mean sea level,—for September, 1870,—by Chas. Smallwood, M.D., LL.D., D.C.L.

| DAYS | Barometer corrected at 32° | | | Temperature of the Air. | | | Direction of Wind. | | | Miles in 24 hours. |
|------|----------------------------|--------|--------|-------------------------|--------|--------|--------------------|--------|--------|--------------------|
| | 7 a.m. | 2 p.m. | 9 p.m. | 7 a.m. | 2 p.m. | 9 p.m. | 7 a.m. | 2 p.m. | 9 p.m. | |
| 1 | 30.071 | 30.050 | 30.011 | 60.2 | 80.2 | 70.0 | W | W | W | 209.21 |
| 2 | .026 | .011 | 29.947 | 61.1 | 71.1 | 67.0 | NE | NE | NE | 142.10 |
| 3 | 29.947 | 29.912 | .860 | 61.1 | 67.2 | 64.1 | NE | NE | NE | 97.21 |
| 4 | .650 | .637 | .709 | 60.2 | 67.0 | 61.1 | NE | SW | W | 109.21 |
| 5 | .875 | .997 | 30.022 | 56.0 | 75.0 | 58.1 | W | W | W | 234.10 |
| 6 | 30.151 | 30.204 | .261 | 50.1 | 77.2 | 59.7 | W | W | W | 171.11 |
| 7 | .300 | .332 | .331 | 53.7 | 77.3 | 61.0 | W | NE | wbyN | 104.00 |
| 8 | .412 | .370 | .300 | 53.2 | 76.7 | 62.2 | E | NE | NE | 77.24 |
| 9 | .199 | .097 | .061 | 69.1 | 76.3 | 67.2 | NE | SW | SW | 109.18 |
| 10 | .121 | .224 | .237 | 57.8 | 71.7 | 55.0 | NE | NE | NE | 221.14 |
| 11 | .251 | .253 | .250 | 46.0 | 70.1 | 57.6 | N | N | n by E | 114.12 |
| 12 | .322 | .320 | .316 | 47.2 | 70.2 | 59.0 | N | W | W | 94.29 |
| 13 | .321 | .324 | .311 | 54.1 | 82.3 | 63.4 | W | WSW | W | 101.12 |
| 14 | .322 | .304 | .271 | 60.1 | 85.1 | 72.0 | W | WSW | W | 91.11 |
| 15 | .112 | .009 | .000 | 62.1 | 81.2 | 68.1 | W | WSW | W | 104.12 |
| 16 | .201 | .247 | .288 | 54.6 | 71.1 | 58.0 | NE | NE | NE | 212.44 |
| 17 | .300 | .295 | .261 | 54.6 | 68.5 | 67.1 | NE | NE | NE | 141.00 |
| 18 | .182 | .125 | .199 | 58.4 | 86.7 | 56.2 | NE | NE | NE | 291.06 |
| 19 | .261 | .260 | .251 | 49.4 | 81.1 | 60.0 | NE | W | W | 87.74 |
| 20 | .378 | .402 | .411 | 55.0 | 82.4 | 60.2 | W | NE | NE | 114.10 |
| 21 | .425 | .411 | .380 | 52.2 | 79.9 | 67.3 | NE | S | W | 97.21 |
| 22 | .349 | .302 | .175 | 58.0 | 82.3 | 68.1 | W | SW | SW | 101.44 |
| 23 | 0.20 | .019 | .031 | 64.0 | 82.0 | 60.0 | W | W | NE | 209.00 |
| 24 | .017 | .008 | .000 | 53.4 | 68.1 | 63.1 | NE | NE | NE | 114.21 |
| 25 | .063 | .050 | .121 | 56.2 | 63.0 | 60.2 | NE | W | W | 90.12 |
| 26 | .250 | .199 | .148 | 62.1 | 69.2 | 51.7 | W | W | W | 101.00 |
| 27 | .062 | .071 | .075 | 86.2 | 66.0 | 57.1 | W | W | W | 211.11 |
| 28 | .181 | .180 | .178 | 45.9 | 61.7 | 54.0 | W | NE | NE | 271.12 |
| 29 | .250 | .212 | .210 | 49.6 | 76.2 | 60.0 | NE | E | NE | 100.91 |
| 30 | .249 | .116 | .097 | 59.3 | 74.7 | 57.2 | W | SW | S | 94.10 |

The highest reading of the Barometer was on the 21st day, and indicated 30.425 inches. The lowest was on the 4th day, and was 29.637, giving a monthly range of 0.788 inches. The highest temperature was on the 18th day, and was 85° 7'. The lowest was on the 11th day, and was 45° 1'. The mean temperature of the month was 63° 83, which is 5° 33 higher than the Isotherm for Montreal. Rain fell on 12 days, amounting to 2.263 inches, and was accompanied by thunder and lightning on three days. First frost of Autumn was on the 6th day.

—Meteorological Observations taken at Quebec, during the month of September, 1870; by Sergt. John Thurling, A. H. Corps, Quebec.

| | |
|--|----------------|
| Barometer, highest reading was on the 8th..... | 30.261 inches. |
| " lowest " 17th..... | 29.424 |
| " range of pressure..... | 0.837 |
| " mean for month reduced to 32°..... | 29.820 |
| Thermometer, highest in shade on the 14th..... | 79.2 degrees. |
| " lowest " 28th..... | 36.3 |
| " range in month..... | 42.9 |
| " mean of highest..... | 67.9 |
| " mean of lowest..... | 47.7 |
| " mean daily range..... | 20.2 |
| " mean for month..... | 57.8 |
| " maximum in sun's rays (black bulb)..... | 126.0 |
| " minimum on grass..... | 38.5 |
| Hygrometer mean of dry bulb..... | 59.5 |
| " " wet bulb..... | 53.7 |
| " " dew point..... | 48.6 |
| " elastic force of vapour..... | .343 |
| " weight of vapour in a cubic foot of air.... | 3.8 grains. |
| " weight required to saturate, do..... | 1.8 |
| " the figure of humidity, (Sat. 100)..... | 68 |
| " average weight of a cubic foot of air..... | 531.9 |
| Wind, mean direction of " North..... | 7.00 days. |
| " " " East..... | 6.50 |
| " " " South..... | 4.00 |
| " " " West..... | 11.50 |
| " " " Calm..... | 1.00 |
| " " force by estimation 0-12..... | 1.8 |
| " " daily horizontal movement..... | 120.6 miles. |
| Cloud, mean amount of..... | 5.7 |
| Ozone "..... | 2.9 |
| Rain No. of days it fell..... | 8 days. |
| Amount collected..... | 2.40 inches. |

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