

| | | |
|---|-------------|----------|
| Thermometer, highest reading on the 10th..... | 36.0 | degrees. |
| " lowest " " 2nd..... | -5.2 | |
| " range in month..... | 41.2 | |
| " mean of highest..... | 26.0 | |
| " " lowest..... | 9.9 | |
| " " daily range..... | 16.1 | |
| " " for month..... | 17.9 | |
| Hygrometer, mean of dry bulb..... | 18.5 | |
| " " wet bulb..... | 17.0 | |
| " " dew point..... | 5.7 | |
| " elastic force of vapour..... | .056 | |
| " vapour in a cubic foot of air..... | 0.7 | grains. |
| " " required to saturate do..... | 0.5 | |
| " mean degree of humidity (Sat. 100)..... | 56 | |
| " average weight of a cubic foot of air..... | 577.1 | grains. |
| Cloud, mean amount of (0-10)..... | 7.2 | |
| Ozone, " "..... | 1.0 | |
| Wind, general direction..... | North West. | |
| " mean daily horizontal movement..... | 169.0 | miles. |
| Snow, number of days it fell..... | 20 | |

— From the Records of the Montreal Observatory, — Lat. 45°31 North; Long., 4h. 54m. 11 sec. West of Greenwich, and 182 feet above mean sea level, — for January, 1869, — 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 | 30.390 | 30.160 | 30.246 | -4.0 | 0.0 | 3.0 | NE | NE | NE | 97.90a |
| 2 | .047 | 29.696 | 29.625 | 6.1 | 14.0 | 13.6 | NE | NE | NE | 197.10b |
| 3 | 29.647 | .730 | .800 | 23.1 | 30.9 | 29.8 | W | W | W | 79.21 |
| 4 | .646 | .511 | .400 | 32.2 | 28.0 | 36.4 | SW | SW | SW | 66.12* |
| 5 | .201 | .149 | .200 | 35.7 | 33.2 | 29.6 | SW | SW | W | 59.10 |
| 6 | .451 | .500 | .502 | 22.1 | 29.0 | 30.1 | W | W | W | 91.74c |
| 7 | .611 | .692 | .500 | 28.2 | 45.9 | 27.8 | W | W | W | 199.20 |
| 8 | .749 | .914 | .910 | 33.2 | 38.1 | 31.1 | W | NE | NE | 142.10d |
| 9 | .542 | .299 | .247 | 32.2 | 36.1 | 37.9 | SE | SW | W | 88.17† |
| 10 | .462 | .791 | .849 | 29.1 | 36.1 | 22.7 | W | W | W | 141.10 |
| 11 | 30.001 | .910 | .847 | 16.3 | 19.2 | 19.5 | NE | NE | NE | 98.29e |
| 12 | 29.467 | .611 | .860 | 19.4 | 24.6 | 14.2 | NE | NE | W | 124.10f |
| 13 | .951 | .911 | .799 | 7.4 | 22.4 | 24.0 | NE | WSW | WSW | 98.29 |
| 14 | .650 | .574 | .499 | 28.0 | 34.1 | 31.9 | W | WSW | WSW | 102.20g |
| 15 | .451 | .447 | .449 | 30.0 | 35.2 | 32.0 | W | W | W | 89.97 |
| 16 | .711 | .802 | .849 | 11.2 | 32.1 | 19.0 | nbyw | W | W | 90.00 |
| 17 | .962 | .991 | 30.020 | 9.0 | 19.7 | 7.3 | NE | NE | NE | 71.29 |
| 18 | 30.067 | .967 | .950 | -4.0 | 13.3 | 3.1 | NE | NE | NE | 79.74 |
| 19 | 29.820 | .717 | .600 | 0.0 | 19.1 | 11.7 | NE | NE | NE | 101.00 |
| 20 | .221 | .374 | .502 | 20.6 | 30.1 | 9.9 | WSW | WSW | WSW | 91.10h |
| 21 | .501 | .434 | .550 | -1.0 | 1.0 | -0.6 | nbyw | NE | W | 199.24i |
| 22 | .749 | .747 | .726 | -3.1 | 10.1 | -2.0 | nbyw | NE | W | 219.74 |
| 23 | .250 | .231 | .200 | 6.9 | 25.2 | 29.0 | WSW | WSW | WSW | 191.10j |
| 24 | .433 | .411 | .300 | 14.9 | 13.0 | 10.1 | NE | NE | NE | 99.10k |
| 25 | .501 | .898 | .710 | 0.0 | 10.9 | 0.0 | NE | W | W | 129.99 |
| 26 | .646 | .704 | .711 | 1.0 | 12.9 | 8.0 | W | W | W | 109.19l |
| 27 | .651 | .531 | .450 | 12.0 | 32.1 | 23.7 | W | W | W | 87.24 |
| 28 | .451 | .527 | .615 | 24.0 | 35.1 | 34.2 | W | W | W | 90.00m |
| 29 | .747 | .700 | .650 | 32.9 | 39.4 | 35.0 | W | W | W | 60.52 |
| 30 | .249 | .238 | .259 | 24.1 | 26.2 | 23.0 | NE | NE | NE | 71.11n |
| 31 | .457 | .499 | .600 | 22.1 | 22.4 | 21.9 | NE | NE | NE | 47.27o |

RAIN IN INCHES.—*0.088; †Inapp.; ‡0.135.

SNOW IN INCHES.—a, 1.70; b, 5.79; c, 3.20; d, 1.30; e, 0.30; f, 4.80; g, 0.10; h, 1.90; i, 3.50; j, 0.24; k, 1.02; l, Inapp.; m, Inapp.; n, 3.31; o, 1.01.

The highest reading of the Barometer, was on the first day, and indicated 35.390 inches; the lowest reading was on the fifth day, and was 29.149, inches, showing a month's range of 1.241 inches.

The mean temperature of the month was 20.13, shewing an increase of upwards of 5 degrees above the Isotherm for Montreal reduced from observations during a long period, and nearly 10° warmer than the monthly mean temperature of last January.

The thermometer was 34h. 35m below zero during the month. The lowest temperature attained was -4.4, and the highest 45.9.

The amount of rain which fell on 3 days amounted to 0.223 inches. The amount of snow which fell on 15 days amounted to 28.17 inches.

A partial eclipse of the moon occurred on the evening of the 27th day, and was unsatisfactory, owing to the presence of clouds and haze, which obscured distinct vision and prevented anything like good results.

— From the Records of the Montreal Observatory, for February 1869. 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 | 29.925 | 29.999 | 30.150 | 5.2 | 22.1 | 4.0 | W | W | W | 88.10 |
| 2 | 30.251 | 30.232 | .149 | -5.3 | 12.2 | 5.8 | W | SW | NE | 67.90 |
| 3 | 29.751 | 29.547 | 29.299 | 8.2 | 16.0 | 17.0 | NE | NE | NE | 59.00a |
| 4 | 28.841 | 28.849 | 28.999 | 16.4 | 22.1 | 17.1 | NE | NE | W | 184.29b |
| 5 | 29.200 | 29.219 | 29.499 | 16.0 | 20.4 | 18.1 | W | WbyN | W | 94.21 |
| 6 | .590 | .611 | .700 | 17.3 | 32.0 | 28.1 | W | SW | SW | 82.24c |
| 7 | 30.059 | 30.099 | 30.111 | 12.1 | 26.2 | 9.1 | N | N | W | 78.19 |
| 8 | 29.998 | 29.881 | 29.861 | -0.5 | 18.6 | 16.0 | WSW | WSW | WSW | 69.79 |
| 9 | .851 | .804 | .700 | 17.0 | 30.1 | 26.8 | WSW | WSW | W | 71.80d |
| 10 | .711 | .706 | .700 | 23.1 | 32.1 | 25.7 | W | NE | NE | 59.29 |
| 11 | .604 | .717 | .850 | 26.1 | 32.2 | 32.1 | WSW | W | W | 60.00e |
| 12 | .849 | .711 | .548 | 31.2 | 33.1 | 32.2 | WSW | WSW | WSW | 57.10 |
| 13 | .626 | .711 | .725 | 33.2 | 38.9 | 32.7 | SW | W | W | 51.20 |
| 14 | 30.041 | 30.001 | .851 | 8.4 | 12.0 | 11.2 | NE | NE | NE | 89.01f |
| 15 | 29.482 | 29.312 | .249 | 20.0 | 19.7 | 17.4 | NE | NE | NE | 191.14g |
| 16 | .199 | .175 | .299 | 16.1 | 28.0 | 25.1 | NE | W | W | 112.10h |
| 17 | .311 | .199 | .050 | 23.0 | 27.9 | 29.1 | W | SW | SW | 89.94i |
| 18 | 28.901 | 28.940 | .097 | 27.2 | 24.0 | 13.2 | NE | W | W | 101.19j |
| 19 | 29.083 | 29.300 | .411 | 8.4 | 19.0 | 13.7 | W | NE | WbyN | 79.24k |
| 20 | .500 | .510 | .662 | 16.7 | 26.2 | 22.0 | SW | W | SW | 51.11l |
| 21 | .697 | .781 | .649 | 11.9 | 17.1 | 15.4 | NE | NE | W | 94.12m |
| 22 | .561 | .584 | .690 | 18.2 | 28.1 | 19.2 | NE | W | W | 101.11 |
| 23 | .251 | 28.800 | .101 | 17.9 | 18.1 | 16.8 | NE | NE | W | 99.00n |
| 24 | .601 | 29.677 | .701 | 6.4 | 21.6 | 19.2 | W | W | W | 164.10o |
| 25 | .973 | .962 | .951 | 8.4 | 22.6 | 18.2 | W | SW | W | 79.24 |
| 26 | .784 | .671 | .448 | 14.2 | 29.3 | 27.2 | W | SW | NE | 81.27* |
| 27 | .089 | .179 | .350 | 24.5 | 30.9 | 26.2 | NE | W | W | 91.20† |
| 28 | .800 | .862 | .901 | -1.1 | 19.7 | 5.8 | W | W | W | 164.29 |

SNOW IN INCHES.—a, 13.90; b, 11.54; c, Inapp.; d, Inapp.; e, 0.35; f, 3.16; g, 10.10; h, 1.64; i, 0.70; j, 4.70; k, Inapp.; l, Inapp.; m, 2.86; n, 11.15; o, Inapp.; * 6.75; † 6.91.

The barometer has indicated several considerable fluctuations during the month. The highest reading was on the 2nd day, and was 30.251 inches; the lowest reading occurred at 7 a. m. on the 4th day, and was 28.841 inches, showing a monthly range of 1.410 inch. Another low reading occurred on the 18th day, and was 28.901 inches. In both cases these low readings were accompanied by heavy snow showers.

The mean temperature of the month was 19.44 degrees, which was 9.84 degrees higher than the mean temperature of last February (1868), and 3.34 degrees higher than the Isotherm mean, reduced from observations during a long series of years.

The thermometer was 11h. 49m. below zero during the month.

No rain fell during the month. Snow fell on seventeen days amounting to 73.76 inches, which exceeds by 51.56 inches the amount which fell last February (1868), and is the heaviest fall of snow for the month of February on record. The winter quarter shows the large amount of 129.79 inches.

ADVERTISEMENTS.

THE JOURNAL OF EDUCATION FOR THE PROVINCE OF QUEBEC.

The Journal of Education, — published under the direction of the Hon. the Minister of Public Instruction and edited by H. H. MILLS Esq., LL.D. D. C. L. and P. DELANEY Esq., of that Department, — offers an advantageous medium for advertising on matters appertaining exclusively to Education or the Arts and Sciences.

TERMS.—Subscription per annum \$1.00; Public School Teachers, half price; School-Boards &c., free.

Advertising.—One insertion, 8 lines or less \$1.00, over 8 lines, 10 cents per line; Standing advertisements at reduced charges, according to circumstances, but not less than \$10 per annum.

Public School Teachers advertising for situations, free. School-Boards &c., free.

All communications relating to the Journal to be addressed to the Editors.