

MONTHLY METEOROLOGICAL REGISTER, at

Latitude, 43 deg. 39.4 min. N. Longitude, 79 deg. 21.5 min. W

| Mo. | Day | Barom. at ten. of 32 dees * | | | | Temperature of the air † | | | | Percent of Vapour | | | |
|------|-----------|-----------------------------|----------|----------|--------|--------------------------|----------|----------|-------|-------------------|----------|----------|-------|
| | | 6. A. M. | 2. P. M. | 10 P. M. | MEAN | 6. A. M. | 2. P. M. | 10 P. M. | MEAN | 6. A. M. | 2. P. M. | 10 P. M. | MEAN. |
| b | 1 | 0.635 | 0.632 | | | 9.0 | 9.0 | | | 0.394 | 0.424 | | |
| a | 2 | 0.102 | 0.102 | 0.092 | 0.106 | 12.6 | 7.3 | 7.7 | 8.6 | 294 | 443 | 0.373 | 0.363 |
| a | 3 | 0.028 | 0.027 | 0.132 | 0.155 | 7.2 | 7.2 | 0.8 | 4.9 | 326 | 395 | 414 | 392 |
| a | 4 | 0.219 | 0.262 | 0.319 | 0.257 | 5.4 | 2.3 | 1 | 2.0 | 366 | 477 | 43- | 426 |
| c | 5 | 0.367 | 0.401 | 0.122 | 0.194 | 1.5 | 7.9 | 0.8 | 3.1 | 458 | 479 | 470 | 466 |
| c | 6 | 0.117 | 0.029 | 0.011 | 0.049 | 1.8 | 7.7 | 4.3 | 3.5 | 457 | 544 | 445 | 488 |
| c | 7 | 0.037 | 0.075 | 0.067 | 0.061 | 0.7 | 0.1 | 0.5 | 0.6 | 447 | 594 | 467 | 509 |
| c | 8 | 0.092 | 0.088 | | | 1.1 | | | | 497 | 545 | | |
| b | 9 | 0.022 | 0.010 | 0.155 | 0.014 | 4.1 | 2.2 | 1.1 | 0.3 | 501 | 599 | 500 | 531 |
| b | 10 | 0.086 | 0.166 | 0.120 | 0.107 | 0.8 | 1.8 | 2.2 | 2.0 | 386 | 450 | 366 | 394 |
| b | 11 | 0.121 | 0.148 | 0.150 | 0.144 | 1.2 | 0.6 | 5.6 | 2.6 | 312 | 510 | 334 | 385 |
| c | 12 | 0.180 | 0.149 | 0.147 | 0.157 | 3.8 | 1.4 | 0.3 | 0.7 | 378 | 500 | 417 | 426 |
| b | 13 | 0.165 | 0.127 | 0.154 | 0.118 | 3.8 | 2.1 | 1.7 | 0.3 | 397 | 522 | 445 | 456 |
| b | 14 | 0.014 | 0.096 | 0.098 | 0.172 | 2.2 | 3.2 | 7.9 | 3.3 | 472 | 574 | 481 | 521 |
| a | 15 | 0.054 | 0.060 | | | 3.1 | 1.2 | | | 511 | 446 | | |
| a | 16 | 0.292 | 0.28 | 0.220 | 0.213 | 10.0 | 7.4 | 9.6 | 8.0 | 292 | 352 | 351 | 334 |
| a | 17 | 0.187 | 0.171 | 0.126 | 0.188 | 7.9 | 2.0 | 5.1 | 3.6 | 417 | 512 | 379 | 422 |
| ab | 18 | 0.102 | 0.021 | 0.068 | 0.027 | 1.4 | 3.8 | 2.5 | 1.0 | 381 | 568 | 359 | 405 |
| a | 19 | 0.020 | 0.059 | 0.034 | 0.004 | 2.3 | 9.0 | 9.5 | 6.4 | 431 | 691 | 588 | 581 |
| a | 20 | 0.099 | 0.124 | 0.117 | 0.109 | 6.7 | 1.0 | 5.1 | 3.7 | 513 | 578 | 515 | 512 |
| a | 21 | 0.108 | 0.124 | 0.131 | 0.110 | 7.2 | 1.0 | 7.3 | 4.7 | 413 | 615 | 478 | 515 |
| ab | 22 | 0.154 | 0.14 | | | 10.9 | 1.0 | | | 593 | 578 | | |
| a | 23 | 0.130 | 0.115 | 0.113 | 0.124 | 12.0 | 8.0 | 10.8 | 9.4 | 629 | 745 | 601 | 645 |
| c | 24 | 0.073 | 0.035 | 0.026 | 0.110 | 9.9 | 6.2 | 10.7 | 8.9 | 384 | 722 | 652 | 673 |
| c | 25 | 0.012 | 0.035 | 0.126 | 0.075 | 3 | 6.8 | 7.9 | 8.2 | 589 | 741 | 571 | 642 |
| c | 26 | 0.177 | 0.224 | 0.02 | 0.064 | 9.6 | 8.1 | 11.5 | 8.3 | 531 | 718 | 552 | 620 |
| c | 27 | 0.158 | 0.09 | 0.017 | 0.173 | 5.6 | 1.7 | 1.1 | 0.9 | 412 | 444 | 361 | 415 |
| a | 28 | 0.016 | 0.048 | 0.071 | 0.051 | 1.2 | 0.6 | 0.8 | 1.2 | 325 | 429 | 384 | 375 |
| ab | 29 | 0.119 | 0.174 | | | 0.4 | 2.1 | | | 298 | 526 | | |
| a | 30 | 0.272 | 0.275 | 0.218 | 0.262 | 4.0 | 4.3 | 1.1 | 1.1 | 298 | 499 | 348 | 397 |
| " | 31 | 0.249 | 0.164 | 0.109 | 0.166 | 1.3 | 7.5 | 6.2 | 4.9 | 319 | 521 | 451 | 465 |
| Mean | Normal... | 29.645 | 29.629 | 29.629 | 29.632 | 29.11 | 71.30 | 51.95 | 65.98 | | | | |
| | Observed | 29.619 | 29.662 | 29.616 | 29.667 | 54.35 | 71.69 | 62.59 | 65.38 | 0.425 | 0.516 | 0.457 | 0.481 |

* Above or below the mean, for the same month and hour.

† Above or below the mean, for the same date and hour.

Highest Barometer 29.945, at 8 a. m., on 16th } Monthly range

Lowest Barometer 29.331, at 10 p. m., on 11th } 0.615 inch.

Highest observed temperature 81° 2, at 2 p. m., on 19th } Monthly range

Lowest registered " " 45° 8 at 3 m., on 2nd } 35° 4.

Mean highest observed temp. 72° 59 } Mean daily range:

Mean registered minimum 56.83 } 15° 77

Greatest daily range, 21° 9, from 2 p. m. of 15th to 6 a. m. of 16th.

Warmest day, 23rd. Mean temperature, 72° 92 } Difference,

Coldest day, 2nd. Mean temperature, 57° 38 } 15° 54

A considerable number of shooting stars observed on the nights of 10th, 11th, and 12th,

The "Means" are derived from six observations daily, viz.—at 6 and 8, a. m., and 2, 4, 10, and 12 p. m.

The column headed "Magnet" is an attempt to distinguish the character of each day as regards the frequency or extent of the fluctuations of the Magnetic declination, indicated by the self-registering instruments at Toronto. The classification is to some extent arbitrary, and may require future modification, but has been found tolerably definite as far as applied. It is as follows:—

- (a) A marked absence of Magnetical disturbance.
- (b) Unimportant movements,—not to be called disturbance.
- (c) Marked disturbance,—whether shown by frequency or amount of deviation from the normal curve,—but of no great importance.
- (d) A greater degree of disturbance,—but not of long continuance.
- (e) Considerable disturbance,—lasting more or less the whole day.
- (f) A magnetical disturbance of the first class.

The day is reckoned from noon to noon. If two letters are placed, the first applies to the earlier, the latter to the later part of the trace. Although the declination is particularly referred to, it rarely happens that the same terms are not applicable to the changes of the horizontal force also.

Toronto, September, 1852.