

## IV. Monthly Report on Meteorology of the Province of Ontario.

1. ABSTRACT OF MONTHLY METEOROLOGICAL RESULTS, compiled from the Returns of the daily observations at ten Grammar School Stations, for JANUARY, 1899.

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| STATION.             | BAROMETER AT TEMPERATURE OF 32° FAHRENHEIT. |        |                      |       |                |       |          |                          |         |        | TEMPERATURE OF THE AIR.            |       |                |               |              |           |          |       |          |       | TENSION OF VAPOUR. |       |                   |       |                |        |                |    |              |    |          |    |         |    |                   |    |                   |    |        |        |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    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|                      | Eleva-<br>tion.<br>a                        |        | North Latitude.<br>a |       | MONTHLY MEANS. |       | HIGHEST. |                          | LOWEST. |        | RANGE.<br>Greatest in<br>24 hours. |       | MONTHLY MEANS. |               | DAILY RANGE. |           | HIGHEST. |       | LOWEST.  |       | WARM-<br>EST DAY.  |       | COLD-<br>EST DAY. |       | MONTHLY MEANS. |        |                |    |              |    |          |    |         |    |                   |    |                   |    |        |        |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    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|                      |                                             |        |                      |       |                |       |          |                          |         |        |                                    |       |                |               |              |           |          |       |          |       |                    |       |                   |       |                |        | MONTHLY MEANS. |    | DAILY RANGE. |    | HIGHEST. |    | LOWEST. |    | WARM-<br>EST DAY. |    | COLD-<br>EST DAY. |    |        |        |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    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|                      | 7 A.M.                                      | 1 P.M. | 9 P.M.               | MEAN. | Reading.       | Date. | Monthly. | Greatest in<br>24 hours. | 7 A.M.  | 1 P.M. | 9 P.M.                             | MEAN. | Mean Maximum.  | Mean Minimum. | Mean Range.  | Greatest. | Least.   | Date. | Reading. | Date. | Monthly Range.     | Date. | Mean Temp.        | Date. | Mean Temp.     | 7 A.M. |                |    |              |    |          |    |         |    |                   |    |                   |    | 1 P.M. | 9 P.M. | MEAN. |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    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| <i>dBarrie</i> ..... | 44                                          | 25     | 72                   | 45    | 50             | 77    | 28       | 91                       | 28      | 87     | 28                                 | 90    | 28             | 90            | 28           | 90        | 28       | 90    | 28       | 90    | 28                 | 90    | 28                | 90    | 28             | 90     | 28             | 90 | 28           | 90 | 28       | 90 | 28      | 90 | 28                | 90 | 28                | 90 | 28     | 90     | 28    | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 | 28 | 90 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a Where the clouds have contrary motions, the higher current is entered here.

b Velocity is estimated, 0 denoting calm or light air; 10 denoting very heavy hurricane.

c 0 denotes that the sky is covered with clouds; 0 denotes that the sky is quite clear of clouds.

## REMARKS.

*BARRIE*.—On 20th, violent wind storm. 27th, partial eclipse of moon, visible only a few minutes on account of clouds; ended about 9.30. 28th, brilliant lunar halo. Snow 1st, 2nd, 5th, 6th, 8th, 9th, 10th, 20th, 21st, 23rd, 28th, 30th. Rain 9th, 21st, 30th. Month generally characterized by exceedingly mild weather.

*BELLVILLE*.—Snow 1st, 2nd, 11th, 13th, 20th, 21st. Rain 9th, 30th. Month exceedingly mild.

*CORNWALL*.—27th, partial eclipse of moon; first observed at 7.08 P.M.; greatest obscuration 8.17; last visible contact at 9.26; duration 2 hours 18 min., magnitude 5.12 of moon's diameter. Snow, 12th, 20th, 23rd, 28th.

*GODERICH*.—Great thaw began on 3rd, and snow nearly gone on 4th. Ice on Maitland river broke up on 10th, and harbour open. 16th, ice again formed on lake but soon broke up. 24th, new ice on lake, roads

bare and dusty. 30th, ice broke up. Hail 5th and 20th. On 28th, large lunar halo: Wind storms 1st, 9th, 20th, 21st, 25th, 26th, 29th, 30th. Snow 1st, 2nd, 5th, 6th, 8th, 9th, 10th, 20th, 21st, 23rd, 28th, 30th, 31st. Rain 9th, 29th. Month unusually warm and fine, but very productive of various descriptions of disease.

*HAMILTON*.—Severe snow storm on 1st. 2nd and 5th, hail. 7th, at 7 P.M., an ordinary meteor 40° high E, fell eastward. 17th and 18th,

| STATION. | HUMIDITY OF AIR. |        |        | WINDS. NUMBER OF OBSERVATIONS. |        |  |             |  |       |  |             |  |        | ESTIMATED & VELOCITY OF WIND. |             |  |       | AMOUNT OF CLOUDINESS. c |             |  | RAIN.      |                |        |  | SNOW.          |  |        | AURORAS. |                |  |        |  |                |  |        |  |                |  |        |  |                |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  | 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|          | MONTHLY MEANS.   |        |        | SURFACE CURRENT.               |        |  |             |  |       |  |             |  |        | MOTION OF CLOUDS. a           |             |  |       | MONTHLY MEANS.          |             |  |            | MONTHLY MEANS. |        |  | MONTHLY MEANS. |  |        |          | MONTHLY MEANS. |  |        |  | MONTHLY MEANS. |  |        |  | MONTHLY MEANS. |  |        |  | MONTHLY MEANS. |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |       |  |        |  |        |  |        |  |  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|          | 7 A.M.           | 1 P.M. | 9 P.M. | MAX.                           | North. |  | North East. |  | East. |  | South East. |  | South. |                               | South West. |  | West. |                         | North West. |  | Impercept. |                | Clear. |  | Total.         |  | 7 A.M. |          | 1 P.M.         |  | 9 P.M. |  | MEAN.          |  | 7 A.M. |  | 1 P.M.         |  | 9 P.M. |  | MEAN.          |  | 7 A.M. |  | 1 P.M. |  | 9 P.M. |  | MEAN. |  | 7 A.M. |  | 1 P.M. |  | 9 P.M. |  | MEAN. |  | 7 A.M. |  | 1 P.M. |  | 9 P.M. |  | MEAN. |  | 7 A.M. |  | 1 P.M. |  | 9 P.M. |  | MEAN. |  | 7 A.M. |  | 1 P.M. |  | 9 P.M. |  | MEAN. |  | 7 A.M. |  | 1 P.M. |  | 9 P.M. |  | MEAN. |  | 7 A.M. |  | 1 P.M. |  | 9 P.M. |  | MEAN. |  | 7 A.M. |  | 1 P.M. |  | 9 P.M. |  | MEAN. |  | 7 A.M. |  | 1 P.M. |  | 9 P.M. |  | MEAN. |  | 7 A.M. |  | 1 P.M. |  | 9 P.M. |  | MEAN. |  | 7 A.M. |  | 1 P.M. |  | 9 P.M. |  | MEAN. |  | 7 A.M. |  | 1 P.M. |  | 9 P.M. |  | 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WIND OBSERVED.

On the Detroit River.

On the Ottawa River.

On Lake Huron.

On Lake Ontario.

On St. Lawrence.

On Lake Ontario (on Bay of Quinte).

On Lake Simcoe.