## CLIMATOLOGICAL DATA FOR APRIL, 1911.

# DISTRICT No. 4, LAKE REGION.

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### GENERAL SUMMARY.

With the exception of the Lake Superior region, the temperature of April, 1911, in climatological district No. 4 was rather severer than usual, but the mean values were within the limits of the previous decade of years. The prevailing low temperatures and the frequent frosts over the southern and eastern portions of the district served to prevent germination of seeds and to retard development of buds until the change to the pronounced warmth of the last week, when vegetation of all kinds advanced rapidly in growth. In the extreme eastern sections, while the temperatures were, on the whole, below the normal, yet the general seasonal advance, together with the warm spells of the middle and latter portions of the month, brought about conditions favorable for the maple sugar industry, the operation of which had been seriously hampered by the previous cold, as noted in the report for March.

In the extreme northern and eastern portions of the district, less precipitation occurred during the month than in any previous April of the past 10 years; but, because of the water resulting from the melting snows of the preceding months, and the timely occurrence of the precipitation which fell in the course of the period, the deficiency was not so noticeable as would otherwise have been the case. The amount of cloudiness was greatest over the southern portions of the upper Lake region—averaging in that section about 13 cloudy days for the month—and decreased rapidly toward the drier regions in the north and northeast.

The following table summarizes the chief features of meteorological interest in the various portions of the district:

| States, portions of which lie within district No. 4. | Mean. | | | | | | | | | Prevailing wind direction. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Temperature. | Departure from normal. | Precipitation. | Departure from normal. | Snowfall. | Number of days— | | | | |
| | | | | | | Precipitation. | Clear. | Partly cloudy. | Cloudy. | |
| Minnesota | 39.1 | −0.1 | 1.14 | −1.03 | 5.6 | 6 | 12 | 10 | 8 | se. |
| Wisconsin | 41.8 | −0.6 | 1.90 | −0.67 | 4.4 | 8 | 14 | 8 | 8 | se. |
| Illinois | 46.1 | +0.2 | 3.03 | +0.15 | 2.4 | 14 | 10 | 5 | 15 | ne. |
| Indiana | 46.5 | −2.0 | 4.24 | +1.38 | 2.9 | 13 | 13 | 4 | 13 | nw. |
| Upper Michigan | 38.9 | +0.9 | 0.82 | −1.27 | 2.8 | 5 | 15 | 6 | 9 | w. |
| Lower Michigan | 42.8 | −0.5 | 2.47 | +0.20 | 1.6 | 8 | 13 | 7 | 10 | nw |
| Ohio | 46.5 | −1.4 | 3.84 | +1.18 | 2.2 | 13 | 10 | 8 | 12 | ne. |
| Pennsylvania | 44.6 | −0.1 | 2.47 | +0.07 | 2.3 | 13 | 10 | 10 | 10 | w. |
| New York | 39.4 | −0.9 | 1.41 | −1.05 | 4.0 | 8 | 14 | 9 | 7 | nw. |
| Vermont | 39.6 | −2.5 | 0.87 | −1.06 | 6.1 | 5 | 13 | 10 | 7 | n. |

### TEMPERATURE.

Throughout the Upper Michigan Peninsula the mean temperature of the month averaged nearly a degree above the normal, but elsewhere there was a deficiency. Over the southern portions of the district the departure from the normal ranged between −1° and −2°, and in the extreme eastern sections between −2° and −3°. A deficiency of over 3° occurred in the valleys of the Ottawa and Saguenay Rivers in the lower Canadian Provinces, as well as in the region to the northwest of Lake Superior.

The mean daily range in temperature varied considerably in the different portions of the district, ranging from about 15° to 23°. In the Vermont sections the mean daily range was 23.3° and at Northfield 25.8°, showing a greater daily swing of temperature than has occurred in this region in any previous April of record. Here the daily mean temperatures throughout the greater portion of the month were lower for the season than elsewhere in the Lake region, which fact, together with the unusually small number of cloudy days, explains in a large measure the greater diurnal oscillation of temperature in the Champlain Valley. The absolute range for the month was from 86° at Fayetteville, N. Y., to −12°, the latter reading occurring at two stations, Humboldt, in the Upper Michigan Peninsula, and at Nehasane, N. Y.

The month opened with temperatures far below the seasonal normals in all portions of the district, and during the first three days the coldest weather of the month was experienced. Low temperatures continued until the 8th in the western and until the 12th in the eastern portions, except for a wave of warm weather on the 4th–7th, covering the sections from the eighty-fifth meridian to Vermont. This warm spell was occasioned by the southerly sweep of winds in advance of an atmospheric depression of considerable magnitude which passed across the Lower Michigan Peninsula from the southwest, thus affecting the eastern sections only. On the 15th–17th cold weather was again general, continuing over the Champlain watershed and northern Adirondacks until the 25th, and extending over the region south of the lake chain during the 22d–24th. Between the periods of cold weather mentioned the temperatures were, as a rule, above normal, but the most pronounced period of warmth covered the last five days of the month, when the highest readings in practically all portions of the district were recorded, and departures from the daily normals of from +10° to +17° were general.

### PRECIPITATION.

Precipitation in excess of the normal for the month fell over the southern portions of the upper Lake region, reaching a departure of slightly more than 1 inch in northern Indiana, northern Ohio, and the southwestern counties of Lower Michigan. There was also a small area of excess in the highland region to the northward of the Saginaw River basin. Generally, over the northern and eastern sections there was a deficiency of more than 1 inch in the monthly fall. The total amount for the month received over the portions of the district lying

within New York State, Vermont, and upper Michigan was the least occurring in any April for more than 10 years.

There were four distinct periods of precipitation over the western and middle sections of the district, extending over the 4th–7th, 11th–15th, 18th–22d, and 28th–30th, respectively. In the regions lying east of Lake Erie, however, the second and third of these periods merged into one, while precipitation occurred on the first two days of the month as well and in the last period on the 30th only.

*Snow.*—The snowfall was somewhat greater than that of the mean for the period 1901–1911 over the Minnesota, Wisconsin, Illinois, Indiana, and Vermont portions of the lake region, and slightly below elsewhere, except in the Upper Michigan Peninsula, where the deficiency reached nearly 5 inches. Most of the snowfall was confined to the first week of the period, except in the highlands of the east, where considerable snow fell on dates later in the month, single falls of 4 inches or more occurring, as follows:

| Station. | Amount. | Date. | Station. | Amount. | Date. |
|---|---|---|---|---|---|
| | *Inches.* | | | *Inches.* | |
| Angelica, N. Y. | 5.0 | 9 | Ithaca, N. Y. | 5.1 | 8–9 |
| Do | 4.0 | 16 | Nehasane, N. Y. | 4.0 | 16 |
| Perry City, N. Y. | 4.5 | 8–9 | Syracuse, N. Y. | 4.0 | 9 |
| Tupper Lake, N. Y. | 4.0 | 16–17 | Wedgewood, N. Y. | 5.5 | 8–9 |
| Northfield, Vt. | 4.0 | 9 | | | |

At the close of the month the ground was bare, except for the hill and forest sections of upper Michigan and the mountain regions of New York and Vermont. In the latter sections the use of sleighs and sleds was continued through the first decade.

## NAVIGATION AND ICE CONDITIONS.

The display of storm warnings on the Great Lakes was resumed on April 10. Navigation between Lakes Michigan and Huron became possible a few days later, and the first boats plying between Superior and Huron passed Sault Ste. Marie on the 22d. Between the lower and upper Lakes there was little activity until the 17th, after which date the number of boats passing through the Detroit River increased steadily. Local navigation, however, had been carried on at many of the harbors in all lakes during practically the entire month.

As a rule the harbors in Lake Superior were free of ice by the end of the second week, although floating ice was observed at Sault Ste. Marie until after the close of the month. In Lake Michigan, Green Bay was clear after the 2d, but the ice in Little Bay de Noquette remained solid until after the 8th, on which date teams were still crossing, although with considerable difficulty. By the 15th it had softened much and was somewhat broken up by the wind, and on the following day an ore boat succeeded in cutting her way into Escanaba. Within the next few days the ice gradually drifted out into the lake.

Ice fields covered the eastern end of Lake Erie during the entire month. Navigation at Buffalo opened on the 18th, and steamers experienced very little difficulty in passing through the fields. There was much ice in Ontario at the beginning of the month, 2 feet of solid ice being reported at Kingston, Ontario, on the 4th. Large fields passed out of the lake during the first half of the period, and ferry boats on the St. Lawrence encountered great difficulty at times in making their crossings.

## MISCELLANEOUS.

*Rivers.*—The excess of precipitation over the southwestern portions of the district during the latter part of the month caused a rise in the waters of most of the rivers therein, but flood stages were not reported from any station. The melting snows and the rains in the extreme east also caused much high water in the various streams, and high stages continued during most of the month. In localities considerable trouble was experienced in such industries as depended upon water power while the breaking up and running of the ice in these streams caused at times much apprehension. In northern New York State some injury to mills, gates, etc., occurred, but no extensive damage has been reported.

*Auroras* were observed at Escanaba on the 2d; at Oswego on the 9th; at Canton on the 2d, 18th, 19th, 20th, and 21st; and at Northfield on the 1st.

*Dense fog* occurred at Escanaba on the 12th, 13th, 28th, 29th, and 30th.

*Forest fires.*—The unusually dry weather during April permitted the outbreak of forest fires during the last week of the month in the southern portion of the Upper Peninsula of Michigan, and considerable smoke was reported in that region on the 27th and 28th.

TABLE 1.—*Climatological data for April, 1911. District No. 4, Lake Region.*

| Stations. | Counties. | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Sky. | | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall, unmelted. | Number of rainy days, 0.01 inch or more. | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| ***Minnesota.*** | | | | | | | | | | | | | | | | | | | | |
| Cloquet | Carlton | 800 | ---- | 39.8 | ..... | 75 | 27 | 8 | 7 | 48 | 1.75 | ..... | 0.75 | 8.6 | 10 | 12 | 6 | 12 | se. | D. P. Tierney. |
| Duluth | St. Louis | 1,133 | 40 | 38.2 | − 0.2 | 64 | 29 | 3 | 1 | 25 | 1.09 | − 1.05 | 0.48 | 4.3 | 10 | 10 | 7 | 13 | ne. | U. S. Weather Bureau. |
| Floodwood | ....do | 1,257 | 6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | M. H. Schussler. |
| Stephens Mine | ....do | 1,500 | 4 | 39.2 | ..... | 74 | 17 | −5 | 1 | 51 | 0.80 | ..... | 0.50 | ..... | 3 | 13 | 12 | 5 | s. | Oliver Iron Mining Co. |
| Two Harbors | Lake | 614 | 17 | 37.8 | − 1.3 | 59 | 27 | 5 | 1 | 34 | 1.22 | − 1.00 | 0.60 | 4.0 | 3 | 15 | 12 | 3 | ne. | G. W. Watts. |
| Virginia | St. Louis | 1,434 | 17 | 40.6 | + 1.1 | 74 | 17† | 2 | 1 | 53 | 0.86 | − 1.05 | 0.50 | ..... | 3 | 10 | 11 | 9 | se. | Oliver Iron Mining Co. |
| ***Wisconsin.*** | | | | | | | | | | | | | | | | | | | | |
| Appleton | Outagamie | 795 | 10 | 44.4 | + 1.4 | 76 | 27 | 15 | 1 | 33 | 1.16 | − 1.34 | 0.30 | 4.2 | 9 | 17 | 7 | 6 | s. | Wm. Thiede. |
| Ashland | Ashland | 647 | 20 | 40.7 | + 1.1 | 80 | 27 | 8 | 1 | 49 | 0.54 | − 1.57 | 0.23 | 2.0 | 4 | 18 | 6 | 6 | ne. | Sam Wheeler. |
| Bayfield | Bayfield | 635 | 2 | 40.0 | ..... | 70 | 27 | 8 | 1 | 37 | 1.14 | ..... | 0.50 | 5.0 | 4 | 14 | 12 | 4 | ne. | John P. Kiel. |
| Cecil | Shawano | 804 | 13 | 41.2 | − 1.6 | 74 | 27 | 8 | 1 | 38 | 1.66 | − 1.11 | 0.42 | 3.5 | 8 | 14 | 12 | 4 | se. | Louis W. Schmidt. |
| Florence | Florence | 1,293 | 20 | 39.8 | + 0.9 | 74 | 27 | 4 | 2 | 42a | T. | − 2.44 | T. | T. | 0 | 15 | 5 | 10 | nw. | Fred S. Evans. |
| Fond du Lac | Fond du Lac | 800 | 25 | 43.3 | − 1.2 | 76 | 27 | 10 | 7 | 43 | 1.43 | − 0.81 | 0.48 | 5.0 | 9 | 11 | 6 | 13 | se. | Geo. W. Marshall. |
| Grand River Locks | Marquette | 770 | 15 | 44.2 | ..... | 73 | 27 | 15 | 7 | 33 | 1.68 | − 0.92 | 0.50 | 7.5 | 9 | 14 | 7 | 9 | s. | Jerry Parkinson. |
| Green Bay | Brown | 617 | 25 | 43.0 | + 2.3 | 75 | 27 | 15 | 1 | 30 | 1.43 | − 1.01 | 0.49 | 2.7 | 10 | 7 | 11 | 12 | se. | U. S. Weather Bureau. |
| Iron River | Bayfield | 1,096 | 2 | 42.4 | ..... | 80 | 27 | − 7 | 1 | 55 | 2.52 | ..... | 0.50 | 4.6 | 7 | 19 | 0 | 11 | s. | Winfield E. Tripp. |
| Kewaunee | Kewaunee | 590 | 2 | 39.4 | ..... | 60 | 30 | 13 | 1 | 26 | 2.14 | ..... | 0.61 | 6.1 | 7 | 15 | 7 | 8 | s. | Eugene V. Kimball. |
| Manitowoc | Manitowoc | 616 | 60 | 40.8 | − 1.4 | 64 | 30 | 13 | 1 | 21 | 1.97 | − 0.52 | 0.58 | 5.5 | 11 | 12 | 8 | 10 | se. | Johanna Lups. |
| Menasha | Winnebago | 764 | 14 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.31 | − 0.55 | 0.41 | 6.0 | 6 | 17 | 6 | 7 | se. | Geo. T. Allanson. |
| Menomonee Falls | Waukesha | 842 | 2 | 43.2 | ..... | 73 | 27 | 15 | 1 | 30 | 3.28 | ..... | 1.08 | 2.3 | 11 | 13 | 8 | 9 | se. | Arthur H. Christman. |
| Milwaukee | Milwaukee | 681 | 40 | 42.4 | + 0.6 | 68 | 18 | 20 | 1 | 27 | 3.62 | + 0.92 | 1.04 | 1.1 | 12 | 11 | 8 | 11 | e. | U. S. Weather Bureau. |
| New London | Outagamie | 762 | 15 | 43.4 | − 1.9 | 75 | 27 | 11 | 1 | 36 | 1.74 | −1.06 | 0.45 | 3.0 | 5 | 10 | 7 | 13 | se. | August H. Pape. |
| Oconto | Oconto | 590 | 20 | 43.0 | − 0.1 | 75 | 27 | 11 | 1 | 34 | 1.36 | − 1.23 | 0.45 | T. | 6 | 13 | 11 | 6 | ne. | Wm. K. Smith. |
| Oshkosh | Winnebago | 744 | 22 | 43.5 | − 1.4 | 76 | 27 | 12 | 1 | 35 | 1.93 | − 0.68 | 0.60 | 6.0 | 4 | 20 | 9 | 1 | e. | Evan Vincent. |
| Pine River | Waushara | 900 | 16 | 43.6 | − 0.9 | 75 | 27 | 12 | 7 | 40 | 1.73 | − 0.82 | 0.66 | 4.6 | 9 | 5 | 20 | 5 | se. | Geo. H. Carpenter. |
| Plum Island | Door | 588 | 3 | 39.0 | ..... | 57 | 27† | 12 | 2 | 29 | 1.83 | ..... | 0.70 | 6.0 | 7 | 15 | 7 | 8 | s. | Geo. C. Robinson. |
| Plymouth | Sheboygan | 843 | 1 | 42.2 | ..... | 73 | 27 | 14 | 1 | 33 | 2.62 | ..... | 1.44 | 5.4 | 7 | 13 | 7 | 10 | se. | Paul O. Feldrappe. |
| Port Washington | Ozaukee | 713 | 18 | 40.8 | − 2.3 | 64 | 30 | 16 | 1 | 26 | 3.84 | + 0.86 | 0.95 | 6.0 | 7 | 10 | 10 | 10 | se. | Richard C. Kann. |
| Racine | Racine | 633 | 14 | 42.0 | − 2.7 | 68 | 18 | 17 | 1 | 31 | 3.35 | + 0.85 | 0.77 | 2.1 | 12 | 13 | 7 | 10 | se. | Daniel Davis. |
| Ripon | Fond du Lac | 935 | 1 | 44.8 | ..... | 73 | 27 | 18 | 1† | 28 | 1.46 | ..... | 0.63 | 5.0 | 3 | 15 | 6 | 9 | se. | Ripon College. |
| Sheboygan | Sheboygan | 831 | 12 | 41.0 | − 1.7 | 62 | 30 | 13 | 1 | 22 | 2.86 | + 0.51 | 1.30 | 13.0 | 7 | 17 | 4 | 9 | se. | Louis C. Meyer. |
| Sturgeon Bay | Door | 600 | 12 | 39.0 | − 0.4 | 62 | 26 | 9 | 1 | 31 | 2.36 | ..... | 0.91 | 3.5 | 7 | 12 | 11 | 7 | se. | Adam N. Dier. |
| Superior | Douglas | 671 | 2 | 36.7 | ..... | 54 | 29 | 7 | 1 | 26 | 0.90 | ..... | 0.40 | 4.2 | 6 | 14 | 10 | 6 | ne. | Edward B. Banks. |
| Waupaca | Waupaca | 857 | 16 | 43.0 | − 1.1 | 79 | 27 | 12 | 1 | 47 | 1.54 | − 1.12 | 0.47 | 4.0 | 8 | 10 | 9 | 11 | se. | James H. Flagg. |
| ***Illinois.*** | | | | | | | | | | | | | | | | | | | | |
| Chicago | Cook | 824 | 41 | 46.1 | + 0.2 | 70 | 27 | 27 | 1 | 18 | 3.03 | + 0.15 | 0.78 | 2.4 | 14 | 10 | 5 | 15 | ne. | U. S. Weather Bureau. |
| ***Indiana.*** | | | | | | | | | | | | | | | | | | | | |
| Auburn | Dekalb | 874 | 15 | 43.3 | − 3.2 | 69 | 27 | 17 | 2 | 38 | 4.64 | + 2.11 | 1.82 | ..... | 13 | 13 | 3 | 14 | nw. | Mrs. Josie B. Kuhlman. |
| Berne | Adams | 849 | 2 | 47.5 | ..... | 74 | 27† | 21 | 2 | 37 | 5.22 | ..... | 1.37 | 6.5 | 16 | 11 | 9 | 10 | nw. | Henry M. Reusser. |
| Elkhart | Elkhart | 801 | 9 | 48.4 | ..... | 75 | 27 | 21 | 1 | 31b | 4.58 | ..... | 1.00 | T. | 11 | 13e | 5e | 9e | ne. | Dr. Miles Medical Co. |
| Fort Wayne | Allen | 775 | 15 | 47.8 | − 1.5 | 76 | 27 | 21 | 2† | 43 | 4.05 | + 1.11 | 1.23 | 4.2 | 14 | 10 | 5 | 15 | sw. | Orion E. Mohler. |
| Hammond | Lake | 598 | 20 | 46.5 | − 1.0 | 73 | 26† | 18 | 9 | 40 | 4.02 | + 1.19 | 0.65 | 0 | 11 | 10 | 7 | 13 | ..... | Carson W. Whitney. |
| Howe | Lagrange | 886 | 6 | 46.2 | ..... | 73 | 27 | 21 | 2 | 38 | 3.50 | ..... | 1.79 | 3.0 | 10 | 16 | 1 | 13 | w. | James E. Zook. |
| South Bend | St. Joseph | 726 | 18 | 45.5 | − 2.5 | 72 | 27 | 22 | 2 | 33 | 3.78 | + 1.10 | 1.19 | 3.5 | 14 | 17 | 2 | 11 | se. | Henry H. Swaim. |
| Whiting | Lake | 606 | 2 | 47.0 | ..... | 75 | 29 | 27 | 7 | 26 | 4.13 | ..... | 0.96 | 3.0 | 13 | 14 | 3 | 13 | ne. | D. H. Boyd. |
| ***Michigan—Upper Peninsula.*** | | | | | | | | | | | | | | | | | | | | |
| Baraga | Baraga | 623 | 9 | ..... | ..... | 71 | 27 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 20 | 0 | 10 | w. | D., S. S. & A. Ry. |
| Bergland | Ontonagon | 1,300 | 1 | 39.0b | ..... | 82b | 27 | − 8b | 2 | 55b | 0.99 | ..... | 0.51 | 4.0 | 3 | 12b | 9b | 7b | nw.b | Frank McMonigal. |
| Blaney | Schoolcraft | ..... | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Dr. S. S. Hackwell. |
| Calumet | Houghton | 1,246 | 23 | 38.8 | + 1.5 | 69 | 27 | 11 | 1 | 27 | 0.69 | − 1.42 | 0.40 | 5.5 | 6 | 17 | 6 | 7 | e. | E. S. Grierson. |
| Chatham | Alger | 875 | 10 | 36.7 | + 0.6 | 75 | 28 | − 6 | 3 | 40 | 0.27 | − 1.61 | 0.12 | 2.0 | 5 | 13 | 7 | 10 | s. | U. P. Experiment Sta. |
| Deer Park | Luce | 610 | 10 | 36.7 | ..... | 74 | 27 | − 3 | 3 | 35 | ..... | ..... | ..... | ..... | ..... | 16 | 2 | 12 | s. | Mrs. Sara E. McGaw. |
| Detour | Chippewa | 585 | 10 | 39.0e | ..... | 70i | 29 | 4 | 1 | 30 | 1.75 | ..... | 0.80 | 2.0 | 4 | 17 | 1 | 12 | nw. | G. C. Reed. |
| Eagle Harbor | Keweenaw | 622 | 12 | 37.4 | 0.0 | 73 | 27 | 10 | 3 | 28 | 0.62 | − 1.52 | 0.40 | 4.0 | 5 | 13 | 13 | 4 | e. | John Nolen. |
| Escanaba | Delta | 612 | 38 | 37.9 | + 0.7 | 60 | 13 | 8 | 1 | 25 | 0.42 | − 1.65 | 0.21 | 0.2 | 7 | 11 | 9 | 10 | s. | U. S. Weather Bureau. |
| Ewen | Ontonagon | 1,147 | 10 | 38.2 | − 1.0 | 75 | 27 | 2 | 2 | 46 | 0.45 | − 1.31 | 0.30 | 3.0 | 3 | 18 | 1 | 11 | sw. | W. B. Hatfield. |
| Grand Marais | Alger | 610 | 10 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Mrs. Lena Truedell. |
| Green | Ontonagon | 622 | 0 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. A. Green. |
| Houghton | Houghton | 668 | 10 | 39.3 | + 2.5 | 70 | 27 | 10 | 3 | 33 | 0.67 | − 1.36 | 0.45 | 4.2 | 7 | 12 | 11 | 7 | e. | U. S. Weather Bureau. |
| Humboldt | Marquette | 1,536 | 14 | 37.2 | + 0.9 | 75 | 28 | −12 | 1† | 43 | 0.70 | − 1.05 | 0.40 | 3.0 | 2 | 16 | 5 | 9 | w. | D., S. S. & A. Ry. |
| Iron Mountain | Dickinson | 1,111 | 10 | 43.4 | + 2.4 | 80 | 27† | 7 | 1 | 45 | 0.30 | − 2.41 | 0.17 | 0.2 | 2 | 19 | 7 | 4 | nw. | Chapin Mining Co. |
| Iron River | Iron | 1,504 | 14 | 39.8 | + 1.2 | 74 | 27 | − 1 | 2 | 47 | 1.10 | − 2.33 | 0.50 | 2.0 | 4 | 16 | 7 | 7 | nw. | Victor D. Lang. |
| Ironwood | Gogebic | 1,520 | 8 | 41.0 | + 2.5 | 74 | 27 | 5 | 1 | 41 | 1.28 | − 0.38 | 0.63 | 4.0 | 6 | 20 | 3 | 7 | s. | Prof. J. V. Brennan. |
| Ishpeming | Marquette | 1,536 | 11 | 39.9f | + 1.1 | 74 | 27 | 1 | 1 | 43f | 0.57 | − 1.57 | 0.30 | 2.2 | 5 | 13 | 10 | 7 | w. | Cliv'd Cliffs Iron Co. |
| Isle Royale | Keweenaw | 610 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | J. A. Malone. |
| Mackinac Island | Mackinac | 831 | 10 | 38.3 | − 1.1 | 69 | 28 | 7 | 1 | 29 | 1.30 | − 0.99 | 0.53 | 0.7 | 7 | 6 | 10 | 14 | e. | M. I. S. P. Com. |
| Maple Ridge | Delta | ..... | 5 | 38.2 | ..... | 72 | 27 | − 4 | 3 | 41 | 0.60 | ..... | 0.40 | ..... | 2 | 18 | 3 | 9 | s. | Herman Johnson. |
| Marquette | Marquette | 734 | 40 | 38.9 | + 1.4 | 76 | 27 | 10 | 3 | 31 | 0.66 | − 1.33 | 0.21 | 3.4 | 6 | 8 | 10 | 12 | w. | U. S. Weather Bureau. |
| Menominee | Menominee | 581 | 12 | 40.6 | + 0.9 | 76 | 27 | 11 | 1 | 30b | 1.46 | − 0.29 | 0.48 | 2.2 | 6 | 22 | 1 | 7 | se. | C. & N. W. Ry. |
| Munising | Alger | ..... | 14 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Albert Oas. |
| Newberry | Luce | 773 | 9 | 39.1 | + 0.1 | 72 | 27 | 5 | 1 | 30 | 0.65 | − 0.40 | 0.30 | 1.6 | 3 | 15 | 6 | 9 | s. | John Brown. |
| Powers | Menominee | 868 | 11 | 39.6 | + 1.2 | 76 | 27 | 0 | 1 | 47 | ..... | ..... | ..... | ..... | ..... | 12 | 11 | 7 | e. | C. & N. W. Ry. |
| St. Ignace | Mackinac | 593 | 21 | 38.4 | 0.0 | 60 | 28 | 13 | 3 | 30 | 0.84 | − 1.42 | 0.42 | T. | 4 | 22 | 6 | 2 | w. | D., S. S. & A. Ry. |
| Sault Ste. Marie | Chippewa | 614 | 23 | 38.0 | + 2.3 | 74 | 27 | 6 | 1 | 36 | 1.22 | − 0.85 | 0.80 | 0.5 | 9 | 11 | 8 | 11 | w. | U. S. Weather Bureau. |
| Thomaston | Gogebic | 1,347 | 14 | 38.5 | + 0.6 | 75 | 27 | − 5 | 2 | 46 | 0.60 | − 1.06 | 0.40 | 6.0 | 2 | 5 | 16 | 9 | n. | D., S. S. & A. Ry. |
| Victoria | Ontonagon | 1,263 | 2 | 40.3 | ..... | 76 | 27 | 5 | 3 | 43 | 0.89 | ..... | 0.54 | 5.0 | 4 | 15 | 7 | 8 | n. | R. S. Schultz, jr. |
| Watersmeet | Gogebic | ..... | 2 | 39.0 | ..... | 75 | 27 | − 5 | 2 | 47 | 1.02 | ..... | 0.51 | 4.1 | 5 | 9 | 6 | 15 | s. | B. N. Grant. |
| Wetmore | Alger | 878 | 14 | 36.4 | + 0.9 | 78 | 29 | − 5 | 3 | 47 | ..... | ..... | ..... | ..... | ..... | 19 | 1 | 10 | s. | D., S. S. & A. Ry. |
| Whitefish Point | Chippewa | 610 | 21 | 34.8 | − 0.1 | 62 | 28 | 7 | 3 | 27 | 0.57 | − 1.18 | 0.27 | T. | 4 | 15 | 4 | 11 | nw. | Robert Carlson. |
| ***Michigan—Lower Peninsula.*** | | | | | | | | | | | | | | | | | | | | |
| Adrian | Lenawee | 770 | 33 | 45.6 | − 0.9 | 75 | 29 | 18 | 1† | 38 | 3.63 | + 0.96 | 2.05 | ..... | 7 | 12 | 5 | 13 | nw. | B. F. Gibbs. |
| Allegan | Allegan | 698 | 20 | 49.4 | + 2.8 | 77 | 27 | 18 | 3 | 39 | 4.28 | + 1.65 | 0.96 | 0 | 9 | 6 | 11 | 13 | s. | Pere Marquette Ry. |
| Alma | Gratiot | 750 | 24 | 43.6 | − 0.7 | 76 | 27 | 12 | 2 | 38 | 3.19 | + 0.81 | 0.80 | 1.0 | 9 | 13 | 8 | 9 | sw. | P. M. Smith. |
| Alpena | Alpena | 609 | 38 | 38.8 | + 0.8 | 72 | 28 | 11 | 2 | 28 | 1.86 | + 0.34 | 0.91 | 6.1 | 9 | 12 | 10 | 8 | se. | U. S. Weather Bureau. |
| Ann Arbor | Washtenaw | 930 | 31 | 44.4 | − 1.1 | 72 | 27 | 11 | 1 | 32 | 3.54 | + 1.30 | 1.53 | 0.6 | 14 | 12 | 6 | 12 | nw. | University of Michigan. |

TABLE 1.—*Climatological data for April, 1911. District No. 4*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahrenheit. Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Precipitation, in inches. Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall, unmelted. | Number of rainy days, 0.01 inch or more. | Sky. Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Michigan—Lower Peninsula*—Continued. | | | | | | | | | | | | | | | | | | | | |
| Arbela | Tuscola | 728 | 15 | 43.2 | − 1.4 | 78 | 27 | 9 | 1 | 40 | 2.14 | − 0.68 | 0.64 | 1.0 | 10 | 1 | 16 | 13 | ne. | Wm. Atkin. |
| Battle Creek | Calhoun | 822 | 27 | 45.7 | − 1.8 | 75 | 27 | 19 | 1 | 35 | 3.18 | + 1.02 | 1.05 | T. | 9 | 13 | 6 | 11 | se. | Elmer E. Sager. |
| Bay City | Bay | 593 | 15 | 38.8 | − 4.8 | 77 | 27 | 9 | 2 | 36 | 1.15 | − 1.13 | 0.40 | T. | 5 | 10 | 4 | 16 | ne. | Pere Marquette Ry. |
| Benzonia | Benzie | 615 | 15 | 41.0 | − 1.0 | 74 | 27 | 13 | 3 | 39 | 1.37 | − 1.24 | 0.55 | 6.0 | 5 | 12 | 6 | 12 | nw. | Martin S. Joiner. |
| Berlin | St. Clair | ..... | 22 | 42.4 | − 1.6 | 77 | 30 | 6 | 1 | 41 | 2.32 | + 0.22 | 0.60 | 1.6 | 12 | 4 | 16 | 10 | ne. | R. O. Gould. |
| *Michigan.* | | | | | | | | | | | | | | | | | | | | |
| Big Rapids | Mecosta | 906 | 15 | 42.4 | − 1.2 | 76 | 27 | 12 | 2 | 39 | 4.05 | + 1.56 | 1.33 | 3.0 | 9 | 17 | 3 | 10 | nw. | Charles Gray. |
| Bloomingdale | Van Buren | ..... | 7 | 45.1 | ..... | 74 | 27 | 18 | 1 | 32 | 2.25 | ..... | 0.58 | T. | 11 | 16 | 1 | 13 | nw. | John M. Haven. |
| Cadillac | Wexford | 1,293 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Water & Light Co. |
| Cassopolis | Cass | 903 | 10 | 46.1 | + 0.8 | 73 | 27 | 20 | 1 | 39 | 4.70 | + 1.51 | 1.30 | 1.0 | 10 | 17 | 0 | 13 | nw. | Mich. Central Ry. |
| Charlevoix | Charlevoix | 610 | 33 | 40.3 | − 0.4 | 77 | 26 | 8 | 2 | 37 | ..... | ..... | ..... | 4.0 | .... | 18 | 2 | 10 | nw. | Pere Marquette Ry. |
| Charlotte | Eaton | ..... | 7 | 43.4 | ..... | 80 | 27 | 14 | 1† | 42 | 1.03 | ..... | 0.58 | 0 | 3 | 16 | 5 | 9 | ne. | City of Charlotte. |
| Cheboygan | Cheyboygan | 611 | 21 | 39.0 | − 1.2 | 70 | 26 | 8 | 1 | 38 | 1.82 | − 0.23 | 0.70 | 3.0 | 5 | 15 | 8 | 7 | sw. | E. A. Bouchard. |
| Clinton | Lenawee | 830 | 21 | 46.4 | − 0.2 | 84 | 26 | 15 | 1 | 54 | 2.93 | + 0.48 | 1.05 | T. | 9 | 10 | 11 | 9 | se. | David Woodward. |
| Coldwater | Branch | 984 | 14 | 46.2 | − 0.3 | 74 | 27 | 20 | 2 | 36 | 3.47 | + 1.14 | 1.10 | 0.5 | 10 | 13 | 5 | 12 | nw. | L. S. & M. S. Ry. |
| Concord | Jackson | ..... | 6 | 45.0 | ..... | 76 | 27 | 14 | 1 | 36 | 2.36 | ..... | 1.02 | T. | 8 | 12 | 14 | 4 | nw. | Dr. W. N. Armstrong. |
| Croton | Newago | 685 | 3 | 44.0 | ..... | 75 | 27 | 17 | 2 | 38 | 4.68 | ..... | 1.02 | T. | 10 | 12 | 12 | 6 | nw. | G. R. Musk Power Co. |
| Detroit | Wayne | 730 | 40 | 46.0 | + 0.5 | 71 | 27 | 20 | 2 | 33 | 3.23 | + 0.89 | 1.38 | 1.2 | 12 | 8 | 11 | 11 | e. | U. S. Weather Bureau. |
| Durand | Shiawassee | 799 | 4 | ..... | ..... | 79[k] | 28 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | H. J. Tobin. |
| East Tawas | Iosco | 590 | 14 | 39.4 | − 1.9 | 66 | 30 | 8 | 2 | 30 | 1.70 | − 0.66 | 0.80 | 3.0 | 6 | 20 | 6 | 4 | w. | Detroit & Mack. Ry. |
| Eloise | Wayne | 640 | 14 | 45.2 | − 1.1 | 73 | 28† | 14 | 1 | 39 | 3.16 | + 1.07 | 1.27 | 1.0 | 13 | 10 | 12 | 8 | w. | John Gilmore. |
| Flint | Genesee | 730 | 22 | 43.8 | − 0.6 | 76[a] | 28 | 19 | 1† | 40[a] | 2.24 | 0.00 | 0.85 | 0 | 10 | 13 | 6 | 11 | s. | Wm. L. Fisher. |
| Frankfort | Benzie | 589 | 7 | 41.2 | ..... | 64 | 27 | 18 | 1† | 27 | 0.95 | ..... | 0.40 | 4.0 | 5 | 20 | 0 | 10 | s. | Capt. Geo. Morency. |
| Ganges | Allegan | 665 | 2 | 43.8 | ..... | 72 | 27 | 17 | 1 | 28 | 4.77 | ..... | 1.03 | 1.0 | 13 | 16 | 4 | 10 | nw. | H. H. Hutchins. |
| Gaylord | Otsego | 1,367 | 6 | ..... | ..... | 78 | 26 | ..... | ..... | ..... | ..... | ..... | ..... | 1.5 | .... | 16 | 0 | 14 | sw. | Mich. Central Ry. |
| Gladwin | Gladwin | 794 | 15 | 42.3 | − 2.1 | 80 | 27 | 5 | 2 | 43 | 1.20 | + 0.15 | 0.28 | 2.0 | 7 | 20 | 4 | 6 | s. | Geo. R. Smith. |
| Grand Haven | Ottawa | 628 | 30 | 42.8 | + 1.2 | 70 | 27 | 17 | 1 | 28 | 5.53 | + 3.09 | 2.19 | 1.3 | 13 | 19 | 12 | 9 | w. | U. S. Weather Bureau. |
| Grand Rapids | Kent | 707 | 22 | 45.8 | − 0.4 | 77 | 27 | 19 | 1 | 29 | 4.20 | + 1.75 | 1.77 | 0.6 | 14 | 10 | 9 | 11 | se. | Do. |
| Grape | Monroe | 625 | 21 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Joseph W. Morris. |
| Grass Lake | Jackson | 989 | 5 | 41.7 | ..... | 68 | 30 | 15 | 1 | 30 | 2.00 | ..... | 0.80 | T. | 9 | 13 | 2 | 15 | sw. | Menzo Conklin. |
| Grayling | Crawford | 1,147 | 21 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Dr. S. N. Insley. |
| Harbor Beach | Huron | 635 | 23 | 40.3 | − 0.7 | 70 | 28 | 8 | 2 | 40 | 1.35 | − 0.42 | 0.60 | ..... | 6 | 20 | 2 | 8 | n. | Pere Marquette Ry. |
| Harrison | Clare | 1,159 | 18 | 43.1 | ..... | 76 | 27 | 18 | 6 | 34 | 1.86 | ..... | 0.78 | 4.0 | 4 | 24 | 1 | 5 | sw. | Do. |
| Harrisville | Alcona | 616 | 27 | 36.8 | − 2.3 | 69 | 28 | 7 | 1† | 31 | 2.67 | − 0.10 | 0.70 | 6.1 | 7 | 14 | 8 | 8 | nw. | Dr. D. W. Mitchell. |
| Hart | Oceana | 698 | 19 | 37.8 | − 7.6 | 65 | 26 | 17 | 1 | 32 | 4.10 | + 1.70 | 2.00 | 2.0 | 4 | 15 | 7 | 8 | sw. | Pere Marquette Ry. |
| Hayes | Huron | 620 | 21 | 43.6 | + 0.2 | 76 | 27 | 13 | 2† | 36 | 1.60 | − 0.59 | 0.45 | 1.5 | 6 | 18 | 3 | 9 | ne. | C. F. Leipprandt. |
| Highland | Oakland | 830 | 19 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.03 | − 0.50 | 0.70 | ..... | 7 | ..... | ..... | ..... | ..... | A. D. DeGarmo. |
| Hillsdale | Hillsdale | 1,150 | 14 | 45.0 | − 0.4 | 71 | 27† | 18 | 2 | 33 | 2.34 | − 0.16 | 0.93 | 0.5 | 8 | 12 | 4 | 14 | se. | Prof. C. L. Herron. |
| Holland | Ottawa | 610 | 5 | 43.2 | ..... | 67 | 13† | 19 | 1 | 28 | 5.41 | ..... | 1.80 | T. | 15 | 4 | 22 | 4 | nw. | City of Holland. |
| Howell | Livingston | 924 | 19 | 44.6 | − 0.4 | 76 | 27 | 16 | 1† | 39 | 3.50 | + 1.22 | 0.85 | T. | 10 | 14 | 6 | 10 | sw. | Frank Sharp. |
| Ivan | Kalkaska | ..... | 22 | 39.5 | − 2.0 | 75 | 27 | − 3 | 2 | 40 | 0.80 | − 1.38 | 0.27 | 6.5 | 10 | 12 | 11 | 7 | nw. | O. L. Giddins. |
| Jackson | Jackson | 927 | 14 | 45.9 | − 0.8 | 79 | 27 | 17 | 2 | 36 | 2.57 | + 0.52 | 1.16 | T. | 12 | 15 | 8 | 7 | n. | City of Jackson. |
| Jeddo | St. Clair | 667 | 22 | 42.2 | − 0.8 | 75 | 27 | 10 | 1† | 32 | 1.79 | − 0.24 | 0.45 | T. | 8 | 11 | 7 | 12 | ne. | William Brice. |
| Kalamazoo | Kalamazoo | 955 | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Kalamazoo Asylum. |
| Lansing (Agr. College) | Ingham | 820 | 47 | 44.3 | − 1.3 | 75 | 27 | 10 | 1 | 33 | 2.11 | − 0.31 | 0.79 | 0.5 | 15 | 11 | 5 | 14 | se. | U. S. Weather Bureau. |
| Lansing (capitol) | ....do | 881 | 24 | 44.9 | − 0.9 | 76 | 27 | 17 | 1 | 33 | 2.23 | − 0.17 | 0.74 | 0.1 | 12 | 10 | 5 | 15 | nw. | State Board of Health. |
| Lapeer | Lapeer | 827 | 12 | 44.0 | − 0.1 | 78 | 27 | 13 | 1 | 38 | 1.62 | + 0.03 | 0.50 | T. | 7 | 8 | 14 | 8 | sw. | Michigan Home. |
| Ludington | Mason | 586 | 13 | 41.9 | + 0.7 | 65 | 27 | 19 | 1 | 32 | 1.43 | − 0.54 | 0.70 | 2.0 | 4 | 21 | 3 | 6 | w. | Pere Marquette Ry. |
| Luther | Lake | 1,028 | 1 | 41.6 | ..... | 76 | 27 | 7 | 2 | 42 | 3.47 | ..... | 1.04 | 6.0 | 14 | 14 | 8 | 8 | ne. | John W. Nichoson. |
| Mackinaw | Cheboygan | 592 | 15 | 39.6 | − 0.4 | 64 | 23† | 9 | 1 | 30 | ..... | ..... | ..... | 0 | .... | 18 | 6 | 6 | se. | G. R. & I. Ry. |
| Mancelona | Antrim | 1,121 | 15 | 39.2 | − 2.1 | 76 | 27 | 7 | 2 | 46 | 0.81 | − 1.05 | 0.80 | 8.0 | 2 | 17 | 6 | 7 | se. | Do. |
| Manistee | Manistee | 600 | 14 | 42.1 | − 1.4 | 72 | 27 | 17 | 2 | 30[b] | 2.69 | + 0.52 | 0.84 | 6.0 | 5 | 19[b] | 5[b] | 4[b] | nw. | Pere Marquette Ry. |
| Midland | Midland | 604 | 12 | 45.0 | + 0.4 | 80 | 27† | 15 | 2† | 39 | 0.30 | − 1.53 | 0.20 | T. | 2 | 14 | 12 | 4 | s. | Do. |
| Morenci | Lenawee | 811 | 4 | 46.2 | ..... | 74 | 30 | 20 | 1† | 39 | 4.03 | ..... | 1.92 | 1.0 | 12 | 12 | 3 | 15 | nw. | George J. Tripp. |
| Mount Clemens | Macomb | 615 | 11 | 41.2 | − 3.8 | 77 | 29 | 9 | 1 | 46 | 2.34 | + 1.13 | 0.80 | T. | 9 | 11 | 9 | 10 | se. | Water Works. |
| Mount Pleasant | Isabella | 826 | 12 | 43.6 | − 1.8 | 77 | 27 | 10 | 1 | 48 | 0.16 | − 2.00 | 0.16 | T. | 1 | 17 | 3 | 10 | w. | Pere Marquette Ry. |
| Muskegon | Muskegon | 587 | 15 | 43.0 | − 1.0 | 67 | 27 | 20 | 1† | 28 | 3.00 | + 1.29 | 0.60 | 1.0 | 8 | 13 | 3 | 14 | n. | G. R. & I. Ry. |
| Old Mission | Grand Traverse | 858 | 17 | 40.4 | − 2.3 | 76 | 27 | 14 | 1 | 35[a] | 1.57 | − 0.45 | 0.52 | 5.4 | 7 | 14[a] | 10[a] | 5[a] | n.[a] | E. O. Ladd. |
| Olivet | Eaton | 934 | 21 | 43.8 | − 1.6 | 73 | 27 | 17 | 1† | 30 | 2.72 | + 0.12 | 0.70 | 0.1 | 12 | 14 | 2 | 14 | n. | Prof. G. A. Knapp. |
| Omer | Arenac | 616 | 12 | 42.8 | + 1.0 | 75 | 27 | 12 | 3 | 26 | 1.00 | − 1.07 | 0.80 | 2.0 | 2 | 8 | 13 | 9 | w. | Detroit & Mack. Ry. |
| Onaway | Presque Isle | 826 | 8 | 38.8 | − 2.8 | 76 | 27 | 8 | 1 | 38 | 2.70 | + 1.07 | 1.00 | 6.0 | 5 | 17 | 0 | 13 | n. | Do. |
| Owasso | Shiawassee | 731 | 14 | 47.6[d] | + 2.4 | 77 | 28 | 19 | 1 | 37[d] | 2.29 | − 0.18 | 0.50 | T. | 10 | 10[d] | 10[d] | 6[d] | s. | Owasso Sugar Co. |
| Petoskey | Emmet | 660 | 21 | 40.0 | − 0.5 | 75 | 27 | 10 | 1 | 32 | 0.55 | − 1.28 | 0.20 | 1.0 | 4 | 8 | 14 | 8 | w. | G. R. & I. Ry. |
| Plymouth | Wayne | 725 | 14 | 44.5 | − 1.2 | 75 | 30 | 20 | 9 | 42[c] | ..... | ..... | ..... | T. | .... | 18[b] | 0[b] | 10[b] | sw. | Pere Marquette Ry. |
| Pontiac | Oakland | 935 | 11 | 44.4 | − 2.5 | 73 | 27 | 18 | 1 | 38 | 3.31 | + 0.43 | 0.82 | T. | 10 | 16 | 7 | 7 | sw. | Fred W. Shaw. |
| Port Austin | Huron | 618 | 14 | ..... | ..... | 77[e] | 28 | ..... | ..... | ..... | 0.85 | − 0.49 | 0.45 | 0 | 3 | 16[e] | 1[e] | 10[e] | sw. | Pere Marquette Ry. |
| Port Huron | St. Clair | 639 | 36 | 42.4 | + 0.2 | 72 | 27 | 15 | 1 | 29 | 1.72 | − 0.35 | 0.59 | T. | 11 | 12 | 7 | 11 | ne. | U. S. Weather Bureau. |
| Reed City | Osceola | 1,033 | 14 | ..... | ..... | 76 | 27 | ..... | ..... | ..... | ..... | ..... | ..... | 2.5 | .... | 4 | 19 | 7 | nw. | Pere Marquette Ry. |
| Roscommon | Roscommon | 1,141 | 7 | 37.2 | ..... | 72 | 18 | − 7 | 3 | 45 | 2.33 | ..... | 1.02 | 7.6 | 7 | 12 | 11 | 7 | nw. | State Forestry Com. |
| Saginaw | Saginaw | 601 | 9 | 45.8 | ..... | 81 | 28 | 17 | 3 | 36 | 2.43 | ..... | 0.77 | 0.5 | 9 | 10 | 13 | 7 | ne. | Postmaster. |
| Saginaw, W. S | ....do | 601 | 16 | 45.0 | − 0.2 | 79 | 27 | 17 | 1† | 35[a] | 2.11 | − 0.38 | 0.51 | 0.2 | 10 | 18 | 4 | 8 | nw. | Robert B. Hudson. |
| St. James | Charlevoix | 681 | 5 | 39.0 | ..... | 69 | 27 | 12 | 1 | 32 | 0.98 | ..... | 0.40 | 0 | 5 | 14 | 6 | 10 | nw. | Rev. James Malone. |
| St. Joseph | Berrien | 593 | 24 | 45.2 | − 1.2 | 70 | 27 | 18 | 1 | 28 | 3.60 | + 1.08 | 1.70 | 1.2 | 10 | 12 | 7 | 11 | nw. | City of St. Joseph. |
| Sandusky | Sanilac | 790 | 2 | 41.0 | ..... | 78 | 27 | 7 | 1 | 37 | 1.44 | ..... | 0.37 | 0 | 8 | 13 | 8 | 9 | ne. | Pere Marquette Ry. |
| Saranac | Ionia | 639 | 16 | 44.6 | 0.0 | 79 | 27 | 12 | 1 | 38 | 3.32 | + 0.68 | 0.60 | T. | 10 | 9 | 1 | 20 | ne. | John Wallington. |
| South Haven | Van Buren | 585 | 15 | 40.2 | − 4.2 | 68 | 28† | 16 | 1 | 30 | 2.60 | + 0.36 | 0.60 | 0 | 8 | 18 | 5 | 7 | se. | Mrs. M. E. DeDiemar. |
| Stanton | Montcalm | 880 | 17 | 45.0 | + 0.2 | 78 | 26† | 20 | 3† | 46 | 0.70 | − 1.17 | 0.16 | 1.2 | 6 | 14 | 6 | 10 | nw. | City of Stanton. |
| Thornville | Lapeer | 975 | 34 | 43.0 | − 3.1 | 70 | 29 | 11 | 1 | 37 | 1.48 | − 0.99 | 0.45 | 2.5 | 8 | 9 | 8 | 13 | nw. | Dr. J. S. Caulkins. |
| Traverse City | Grand Traverse | 588 | 14 | ..... | ..... | ..... | ..... | 21[e] | 10 | ..... | ..... | ..... | ..... | ..... | .... | 7[e] | 13[e] | 7[e] | n. | G. R. & I. RY. |
| Vassar | Tuscola | 641 | 10 | 43.8 | − 1.2 | 77 | 27 | 9 | 1† | 39 | ..... | ..... | ..... | 0 | .... | 8[a] | 11[a] | 10[a] | nw. | Pere Marquette Ry. |
| Wasepi | St. Joseph | 842 | 14 | ..... | ..... | 73 | 27 | ..... | ..... | ..... | 4.60 | + 2.24 | 1.58 | 0 | 12 | 14 | 0 | 16 | sw. | Chas. A. Palmer. |
| West Branch | Ogemaw | 973 | 7 | 40.4 | ..... | 78 | 27 | 10 | 3 | 37 | 1.57 | ..... | 0.40 | 1.0 | 7 | 10 | 11 | 9 | nw. | Mich. Central Ry. |
| Woodlawn | Montmorency | ..... | 9 | 36.6 | − 4.2 | 75 | 27 | −11 | 2 | 43 | 2.56 | + 0.14 | 0.82 | 9.5 | 8 | 14 | 7 | 9 | se. | T. C. Mathews. |
| Ypsilanti | Washtenaw | 736 | 26 | 44.6 | − 1.5 | 73 | 30 | 10 | 1 | 34 | 3.56 | + 1.10 | 1.50 | 1.0 | 12 | 6 | 21 | 3 | ne. | Orin J. Bemiss. |
| *Ohio.* | | | | | | | | | | | | | | | | | | | | |
| Akron | Summit | 1,081 | 24 | 45.6[e] | − 2.2 | 74 | 6 | 19 | 2 | 37[e] | 3.24 | + 0.52 | 1.22 | 3.0 | 19 | 9 | 6 | 15 | sw. | Prof. C. R. Olin. |
| Benton Ridge | Hancock | 800 | 18 | 47.5 | − 1.8 | 75 | 30 | 17 | 1 | 37 | 3.64 | + 0.80 | 0.95 | 4.0 | 14 | 10 | 13 | 7 | sw. | J. W. Powell. |
| Bowling Green | Wood | 670 | 30 | 46.9 | − 1.1 | 72 | 30 | 19 | 2 | 36 | 4.15 | + 1.16 | 1.75 | 1.5 | 16 | 10 | 6 | 14 | se. | G. C. Houskeeper. |
| Bucyrus | Crawford | 1,000 | 17 | 47.2 | − 1.4 | 74 | 6† | 16 | 1 | 39 | 4.68 | + 1.78 | 0.90 | 4.0 | 14 | 11 | 6 | 13 | sw. | James R. Hopley. |
| Cleveland (1) | Cuyahoga | 762 | 40 | 45.6 | − 0.4 | 73 | 6 | 21 | 2 | 38 | 3.42 | + 1.11 | 1.22 | 1.8 | 15 | 8 | 9 | 13 | se. | U. S. Weather Bureau. |
| Cleveland (2) | ....do | 754 | 14 | 45.6 | − 0.3 | 74 | 28 | 20 | 1 | 35 | 3.71 | + 1.75 | 1.06 | 0.6 | 14 | 12 | 5 | 13 | nw. | Rev. F. L. Odenbach, S. J. |
| Conneaut | Ashtabula | 675 | 1 | 45.6 | ..... | 74 | 28 | 20 | 1 | 37 | 2.80 | ..... | 0.66 | 1.0 | 10 | 10 | 6 | 14 | ne. | E. L. Ransom. |

TABLE 1.—*Climatological data for April, 1911. District No. 4*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahrenheit. Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Precipitation, in inches. Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall, unmelted. | Number of rainy days, 0.01 inch or more. | Sky. Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Ohio*—Continued. | | | | | | | | | | | | | | | | | | | | |
| Defiance | Defiance | 712 | 17 | 45.6 | − 2.5 | 73 | 27 | 17 | 2 | 41 | 3.51 | + 0.80 | 1.60 | 1.5 | 12 | 13 | 4 | 13 | se. | John F. Heilshorn. |
| Findlay | Hancock | 776 | 22 | 47.6 | − 1.6 | 75 | 26† | 19 | 2 | 44 | 3.88 | + 1.01 | 1.08 | 5.0 | 16 | 17 | 8 | 5 | se. | Dr. E. A. Moser. |
| Fremont | Sandusky | 628 | 9 | 48.0 | ..... | 74 | 28† | 20 | 2 | 37 | 3.72 | ..... | 1.72 | 0.5 | 11 | 10 | 10 | 10 | ne. | E. Stanley Thomas. |
| Hedges | Paulding | 725 | 17 | 47.0 | − 1.9 | 84 | 30 | 15 | 1 | 42 | 4.89 | + 2.25 | 1.87 | 3.0 | 10 | 13 | 8 | 9 | sw. | Charles Stutzman. |
| Hillhouse | Lake | 997 | 18 | 43.7 | − 1.1 | 74 | 28 | 8 | 1 | 38 | 4.39 | + 1.71 | 0.71 | 1.2 | 13 | 9 | 11 | 10 | sw. | J. W. Doncaster. |
| Hiram | Portage | 1,260 | 31 | 45.6 | − 0.9 | 71 | 6† | 16 | 2 | 28 | 3.64 | + 0.61 | 0.76 | 1.5 | 13 | 6 | 12 | 12 | nw. | Prof. G. H. Colton. |
| Hudson | Summit | 1,153 | 50 | 45.8 | − 0.7 | 76 | 28 | 12 | 2 | 37 | 4.65 | + 1.95 | 0.85 | ..... | 15 | 14 | 9 | 7 | n. | Dr. W. I. Chamberlain. |
| Lima | Allen | 875 | 12 | 47.6 | − 0.8 | 73 | 28† | 20 | 2 | 35[a] | 3.83 | + 0.39 | 1.04 | 2.0 | 8 | 11 | 12 | 7 | nw. | Miss Ollie DeLong. |
| Medina | Medina | 944 | 23 | 45.8 | − 1.7 | 74 | 6† | 13 | 2 | 43 | 3.83 | + 0.69 | 1.00 | 2.0 | 12 | 8 | 7 | 15 | s. | F. W. Clark. |
| Montpelier | Williams | 880 | 19 | 46.7 | − 1.0 | 74 | 30 | 16 | 2 | 40 | 3.78 | + 0.71 | 2.00 | ..... | 8 | 12 | 5 | 13 | n. | G. L. Laser. |
| Napoleon | Henry | 680 | 24 | 47.2 | − 1.3 | 72 | 27 | 19 | 2 | 37 | 3.41 | + 0.74 | 1.40 | 2.0 | 13 | 12 | 2 | 16 | ne. | A. C. Senter. |
| New Bremen | Auglaize | 1,038 | 18 | 48.2 | − 1.6 | 75 | 30 | 22 | 2 | 35 | 3.31 | + 0.75 | 0.65 | 4.0 | 10 | 10 | 7 | 13 | sw. | Miss Lillian Grothaus. |
| North Royalton | Cuyahoga | 1,000 | 18 | 44.9 | − 2.1 | 71 | 6† | 13 | 1 | 31 | 3.61 | + 0.87 | 1.05 | 2.0 | 11 | 11 | 9 | 10 | ne. | W. S. Edgerton. |
| Norwalk | Huron | 719 | 25 | 46.0 | − 1.3 | 75 | 28† | 17 | 2 | 43 | 4.00 | + 1.54 | 1.43 | 1.0 | 17 | 12 | 9 | 9 | w. | Dr. Albert Sheldon. |
| Oberlin | Lorain | 855 | 36 | 46.0 | − 1.3 | 75 | 6 | 15 | 1 | 42 | 3.18 | + 0.57 | 0.95 | ..... | 12 | 7 | 5 | 18 | ne. | Prof. F. F. Jewett. |
| Ottawa | Putnam | 720 | 16 | 47.4 | − 2.2 | 73 | 26† | 11 | 1 | 39 | 3.84 | + 1.01 | 1.30 | ..... | 11 | 1 | 14 | 15 | nw. | Prof. J. T. Maidlow. |
| Sandusky | Erie | 629 | 34 | 46.8 | − 0.5 | 72 | 6 | 22 | 1 | 34 | 3.46 | + 0.91 | 1.66 | 1.0 | 13 | 11 | 4 | 15 | e. | U. S. Weather Bureau. |
| Tiffin | Seneca | 775 | 29 | 47.2 | − 1.6 | 73 | 30 | 22 | 2 | 33 | 3.98 | + 1.12 | 1.64 | 1.5 | 16 | 10 | 10 | 10 | s. | Prof. T. H. Sonnedecker. |
| Toledo (1) | Lucas | 769 | 40 | 47.2 | − 0.1 | 73 | 30 | 22 | 1 | 33 | 4.16 | + 1.88 | 2.24 | 0.4 | 14 | 12 | 6 | 12 | s. | U. S. Weather Bureau. |
| Toledo (2) | ....do | 606 | 7 | 46.6 | ..... | 72 | 28† | 21 | 1 | 29 | 3.23 | ..... | 1.51 | T. | 15 | 11 | 7 | 12 | ne. | J. A. Krance, S. J. |
| Upper Sandusky | Wyandot | 854 | 28 | 47.3 | − 2.6 | 74 | 6 | 17 | 1 | 38 | 5.82 | + 2.92 | 1.30 | 8.5 | 18 | 6 | 13 | 11 | sw. | Robert E. Tracht. |
| Vickery | Sandusky | 588 | 18 | 46.3 | − 1.4 | 75 | 29 | 20 | 2 | 41 | 3.77 | + 1.21 | 1.69 | 1.6 | 14 | 8 | 9 | 13 | ne. | John W. Barr. |
| Wauseon | Fulton | 780 | 39 | 45.7 | − 1.4 | 73 | 30 | 19 | 1† | 39 | 4.03 | + 0.97 | 2.22 | 3.1 | 17 | 10 | 8 | 12 | s. | Thomas Mikesell. |
| Wellington | Lorain | 856 | 17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | W. D. Warren. |
| Willoughby | Lake | 649 | 17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.61 | + 1.48 | 0.99 | 1.1 | 16 | 11 | 8 | 11 | n. | C. M. Richardson. |
| *Pennsylvania.* | | | | | | | | | | | | | | | | | | | | |
| Erie | Erie | 658 | 38 | 44.6 | − 0.1 | 73 | 27 | 20 | 3 | 36 | 2.47 | + 0.07 | .91 | 2.3 | 13 | 10 | 10 | 10 | w. | U. S. Weather Bureau. |
| *New York.* | | | | | | | | | | | | | | | | | | | | |
| Adams Center | Jefferson | 540 | 20 | 43.4 | + 3.3 | 80 | 29 | 8 | 2 | 36 | 1.43 | − 1.22 | .24 | 3.0 | 8 | 15 | 10 | 5 | w. | A. E. Cooley. |
| Angelica | Allegany | 1,340 | 28 | 41.0 | − 2.3 | 79 | 26 | 9 | 3 | 54[a] | 1.83 | − 1.09 | .45 | 9.0 | 10 | 7 | 4 | 19 | nw. | Charles P. Arnold. |
| Appleton | Niagara | 270 | 20 | 43.2 | − .9 | 71 | 30 | 21 | 2 | 32 | 0.69 | − 1.59 | .25 | .5 | 6 | 15 | 9 | 6 | nw. | H. A. Van Wagoner. |
| Auburn | Cayuga | 715 | 42 | 44.6 | − .4 | 81 | 29 | 16 | 3 | 36 | 1.61 | − .91 | .57 | 3.0 | 8 | 23 | 5 | 2 | n. | A. H. Underwood. |
| Avon | Livingston | 585 | 16 | 44.6 | − .2 | 78 | 28† | 14 | 2 | 35 | 1.10 | − .99 | .50 | 3.0 | 6 | 15 | 10 | 5 | ..... | W. G. Markham. |
| Blue Mountain Lake | Hamilton | 1,750 | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.07 | − 1.78 | .57 | 7.0 | 5 | 19 | 2 | 9 | w. | B. F. Merwin. |
| Brockport | Monroe | 537 | 15 | 44.2 | − .4 | 77 | 30 | 13 | 3 | 33 | 1.00 | − 1.85 | .20 | 2.0 | 11 | 10 | 16 | 4 | w. | W. H. Lennon. |
| Buffalo | Erie | 767 | 60 | 42.8 | + .5 | 70 | 27 | 18 | 1 | 30 | 1.65 | − .80 | .53 | .7 | 13 | 8 | 9 | 13 | sw. | U. S. Weather Bureau. |
| Canton | St. Lawrence | 448 | 17 | 40.7 | − 1.8 | 80 | 29 | 1 | 3 | 34 | 1.08 | − 1.18 | .36 | 2.0 | 6 | 13 | 8 | 9 | ne. | Do. |
| Cape Vincent | Jefferson | 246 | 6 | 39.4 | ..... | 73 | 30 | 7 | 3 | 29 | 1.06 | ..... | .48 | ..... | 5 | 17 | 8 | 5 | s. | Verne M. Rice. |
| Carvers Falls | Washington | 243 | 13 | 41.4 | − 1.5 | 81 | 30 | 7 | 1 | 44 | 0.61 | − 1.77 | .41 | 2.0 | 2 | 21 | 5 | 4 | n. | Washburn Fancher, C. E. |
| Chazy | Clinton | 151 | 11 | 41.0 | − 1.5 | 83 | 29 | 3 | 4 | 42 | 0.33 | − 1.25 | .20 | 3.0 | 3 | 17 | 7 | 6 | s. | W. R. North. |
| Dannemora | ....do | 1,490 | 6 | 40.1 | ..... | 79 | 29 | 3 | 2 | 33 | 0.74 | ..... | .47 | 3.2 | 6 | 15 | 6 | 9 | w. | Dr. W. N. Thayer. |
| Elba | Genesee | 500 | 12 | 42.4 | − .2 | 76 | 28 | 12 | 3 | 38 | 1.30 | − 1.84 | .45 | 3.0 | 5 | 17 | 6 | 7 | nw. | Joseph S. Wilford. |
| Fayetteville | Onondaga | 530 | 10 | 45.3 | ± .0 | 86 | 29 | 8 | 3 | 38 | 1.23 | − 1.52 | .30 | 3.5 | 7 | 14 | 8 | 8 | w. | Dana H. Wells. |
| Faust | Franklin | 1,550 | ..... | 35.9 | ..... | 78 | 29 | − 8 | 3 | 46 | 0.73 | ..... | 0.27 | ..... | 6 | ..... | ..... | ..... | ..... | ..... |
| Gabriels | ....do | 1,729 | 9 | 36.0 | ..... | 79 | 29 | − 8 | 4 | 47 | 0.80 | ..... | .23 | 4.5 | 6 | 18 | 9 | 3 | nw. | Gabriels Sanitarium. |
| Harkness | Clinton | 622 | 9 | 40.4 | − 1.2 | 82 | 30 | 5 | 4 | 35 | 0.56 | − 1.12 | .29 | 5.0 | 3 | 27 | 2 | 1 | w. | J. W. Harkness. |
| Hemlock Lake | Livingston | 900 | 13 | 41.9 | − 2.0 | 74 | 28† | 14 | 3 | 35 | 1.59 | − .97 | .60 | 2.0 | 6 | 15 | 8 | 7 | nw. | D. H. Westbury. |
| Hunt | ....do | 1,321 | 12 | 44.2 | − .3 | 82 | 28 | 10 | 3 | 39 | 1.82 | − 1.14 | .39 | 2.0 | 9 | 6 | 19 | 5 | ne. | W. S. Barager. |
| Ithaca | Tompkins | 928 | 33 | 44.4 | + .2 | 82 | 28 | 16 | 2 | 39 | 2.05 | − .24 | .42 | 6.3 | 17 | 10 | 9 | 11 | nw. | U. S. Weather Bureau. |
| Keene Valley | Essex | 1,000 | 13 | 40.1 | − .8 | 85 | 28† | − 1 | 4 | 50 | 1.69 | − 1.04 | .47 | 9.0 | 10 | 19 | 8 | 3 | nw. | E. R. Wells. |
| King Ferry | Cayuga | ..... | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.92 | − .66 | .36 | 3.2 | 9 | 15 | 6 | 9 | se. | Lucius A. Goodyear. |
| Lake George | Warren | 350 | 14 | 42.4 | − 1.3 | 84 | 29 | 5 | 2 | 44 | 1.07 | − 1.66 | .60 | 2.3 | 5 | 14 | 12 | 4 | ne. | Charles Forsell. |
| Lake Placid Club | Essex | 1,864 | 3 | 31.3 | ..... | 70 | 29 | −10 | 4 | 43 | 1.95 | ..... | .35 | 7.0 | 9 | 16 | 8 | 6 | nw. | Henry van Hoeventerg. |
| Le Roy | Genesee | 920 | 21 | 44.4 | + 1.0 | 80 | 28 | 15 | 3 | 37 | 1.39 | − 1.67 | .24 | 3.4 | 12 | 10 | 5 | 15 | sw. | F. W. Ball. |
| Lockport | Niagara | 650 | 24 | 43.4 | − 2.3 | 76 | 29 | 15 | 3 | 31[b] | 0.75 | − 1.48 | .17 | 2.5 | 10 | 13 | 3 | 14 | sw. | J. E. Wakeman. |
| Lowville | Lewis | 900 | 44 | 38.7 | − 3.9 | 81 | 29 | 5 | 3 | 42 | 1.41 | − .83 | .75 | ..... | 5 | 17 | 6 | 7 | n. | Charles J. Rice. |
| Moira | Franklin | 200 | 11 | 41.8 | − .8 | 80 | 29 | 5 | 4 | 35 | 1.09 | − 1.39 | .30 | 9.0 | 6 | 17 | 11 | 2 | w. | C. E. McBride. |
| Nehasane | Herkimer | 1,750 | 3 | 33.9 | ..... | 77 | 29 | −12 | 3 | 50 | 2.48 | ..... | .70 | 12.5 | 13 | 12 | 13 | 5 | n. | L. W. Brown. |
| North Lake | ....do | 1,822 | 10 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Ogdensburg | St. Lawrence | 175 | 27 | 41.0 | − 3.1 | 78 | 29 | 5 | 3 | 35 | 1.16 | − .93 | .60 | T. | 4 | 18 | 8 | 4 | s. | State Hospital. |
| Old Forge | Herkimer | 1,733 | 3 | 35.8 | ..... | 78 | 29 | − 9 | 3 | 47 | 1.33 | ..... | .60 | 4.5 | 7 | 7 | 14 | 9 | s. | Mrs. S. W. Nelson. |
| Oswego | Oswego | 335 | 41 | 42.4 | − .8 | 73 | 30 | 20 | 2 | 26 | 1.79 | − .47 | .48 | 2.1 | 10 | 11 | 5 | 14 | s. | U. S. Weather Bureau. |
| Otto | Cattaraugus | 1,410 | 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Palermo | Oswego | 460 | 52 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.57 | − .63 | .40 | 6.5 | 11 | 19 | 4 | 7 | nw. | E. B. Bartlett. |
| Perry City | Schuyler | 1,038 | 31 | 41.5 | − 1.6 | 77 | 27† | 7 | 3 | 42 | 2.57 | − .18 | .66 | 6.1 | 12 | 7 | 9 | 14 | nw. | W. H. Jeffers. |
| Philadelphia | Jefferson | 485 | 5 | 41.8 | ..... | 79 | 29† | 0 | 3 | 35 | 1.42 | ..... | .53 | T. | 5 | 10 | 17 | 3 | w. | E. D. Babcock. |
| Potsdam | St. Lawrence | 300 | 35 | 41.6 | − 1.7 | 83 | 30 | 0 | 3 | 41 | 1.31 | − .55 | .48 | ..... | 7 | ..... | ..... | ..... | ..... | A. E. Sutherland. |
| Raquette Lake | Hamilton | ..... | 3 | 35.2 | ..... | 73 | 29 | − 5 | 4 | 44 | 1.70 | ..... | .41 | 6.8 | 8 | 13 | 4 | 13 | nw. | R. J. Dunning. |
| Rochester | Monroe | 523 | 82 | 44.3 | + .5 | 76 | 28 | 19 | 2 | 28 | 1.80 | − 6.4 | .34 | 4.7 | 12 | 9 | 8 | 13 | w. | U. S. Weather Bureau. |
| Romulus | Seneca | 719 | 19 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Shortsville | Ontario | 740 | 12 | 43.6 | − .4 | 78 | 28† | 15 | 2 | 34 | 1.31 | − 1.00 | .35 | 2.0 | 6 | 11 | 11 | 8 | nw. | C. H. Latting. |
| Skaneateles | Onondaga | ..... | 16 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.94 | − 0.94 | 0.42 | ..... | 12 | ..... | ..... | ..... | ..... | Edward Conron. |
| Syracuse | ....do | 597 | 9 | 43.6 | − 0.8 | 80 | 29 | 16 | 2 | 31 | 2.03 | − 0.28 | 0.74 | 6.2 | 12 | 9 | 10 | 11 | nw. | U. S. Weather Bureau. |
| Ticonderoga | Essex | 344 | 13 | 39.4 | − 5.2 | 82 | 29 | 4 | 3 | 40 | 0.14 | − 1.78 | 0.11 | 1.0 | 3 | 21 | 4 | 5 | n. | Miss Eva M. De Lano. |
| Tupper Lake | Franklin | 1,522 | 11 | 35.6 | − 3.0 | 78 | 29 | − 8 | 3 | 46 | 0.56 | − 1.51 | 0.30 | 4.0 | 3 | 17 | 4 | 9 | w. | Rev. A. W. Maddox. |
| Volusia | Chautauqua | 1,167 | 12 | 42.4 | + 0.1 | 74 | 28 | 9 | 3 | 34 | 2.23 | − 0.60 | 0.52 | 6.0 | 10 | 7 | 16 | 7 | s. | Benjamin Breads. |
| Wanakena | St. Lawrence | ..... | 1 | 35.9 | ..... | 80 | 28† | − 7 | 3 | 48 | 1.34 | ..... | 0.50 | 4.5 | 5 | 12 | 6 | 12 | w. | J. Otto Hamele. |
| Watertown | Jefferson | 737 | 19 | 42.5 | − 1.7 | 78 | 29 | 7 | 3 | 36 | 0.99 | − 1.37 | 0.43 | T. | 4 | 14 | 11 | 5 | s. | L. L. Allen. |
| Wedgewood | Schuyler | 1,430 | 22 | 42.6 | − 1.2 | 78 | 29 | 13 | 2 | 32 | 2.02 | − 0.85 | 0.39 | 6.0 | 10 | 18 | 8 | 4 | nw. | O. F. Corwin. |
| Westfield | Chautauqua | 837 | 15 | 44.4 | − 0.3 | 76 | 28 | 17 | 3 | 32 | 2.41 | − 0.05 | 0.41 | 1.5 | 10 | ..... | ..... | ..... | ..... | John R. Rogers. |
| Youngstown | Niagara | ..... | 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.71 | ..... | 0.37 | 1.0 | 4 | 7 | 23 | 0 | e. | B. V. Brookins. |
| *Vermont.* | | | | | | | | | | | | | | | | | | | | |
| Burlington | Chittenden | 404 | 4 | 40.2 | − 0.5 | 80 | 30 | 6 | 4 | 37 | 0.83 | − 1.04 | 0.38 | 7.2 | 6 | 11 | 9 | 10 | nw. | U. S. Weather Bureau. |
| Cornwall | Addison | 507 | 17 | 42.4 | − 2.9 | 84 | 28† | 5 | 2 | 39 | 0.78 | − .78 | 0.40 | 5.0 | 3 | 18 | 6 | 6 | n. | C. H. Lane. |
| Enosburg Falls | Franklin | 601 | 19 | 38.4 | − 4.3 | 82 | 30 | − 7 | 2† | 48 | 0.76 | − 1.48 | 0.35 | 1.0 | 6 | 14 | 9 | 7 | n. | L. H. Pomeroy. |
| Northfield | Washington | 876 | 24 | 36.9 | − 3.3 | 80 | 29 | − 1 | 4 | 46 | 1.10 | − .99 | 0.44 | 10.2 | 7 | 10 | 12 | 8 | s. | U. S. Weather Bureau. |
| Wells | Rutland | 750 | 19 | 40.3 | − 1.5 | 76 | 29† | 8 | 2 | 43[b] | 0.88 | − 1.00 | 0.29 | 7.0 | 5 | 11 | 15 | 4 | s. | E. R. Pember. |

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.
† Also on other dates.
‖ Estimated by observer.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for April, 1911. District No. 4, Lake Region.*

| Stations. | Watershed. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| ***Minnesota.*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cloquet | Lake | | | | .05 | .75 | | | .06 | | | .08 | .24 | .19 | T. | | | | .04 | .31 | | | | | | | | .1 | T. | T. | .02 | 1.75 |
| Duluth | do | | | | .18 | .30 | | | .01 | | | .10 | .09 | .22 | T. | | | | .06 | T. | | .04 | | | | | | | T. | .06 | .03 | 1.09 |
| Floodwood | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stephens Mine | do | T. | | | | .50 | T. | | | | | | .20 | .10 | T. | | | | | | | | | | | | | | | | | 0.80 |
| Two Harbors | do | | | | | .55 | | | | | | | .07 | .60 | | | | | | | | | | | | | | | | | T. | 1.22 |
| Virginia | do | | | | | .50 | | | | | | | .12 | .24 | | | | | | | | | | | | | | | | | | 0.86 |
| ***Wisconsin.*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Appleton | Fox | | | | .16 | .13 | .17 | | | | | | .02 | .29 | | .03 | | | | .30 | T. | .03 | T. | | | | | | .03 | T. | T. | 1.16 |
| Ashland | Lake | | | | T. | .23 | | | | | | | .03 | | | | | | | .08 | | | | | | | | | | | .20 | 0.54 |
| Bayfield | do | | | | | .50 | | | T. | | | | .05 | T. | T. | | | | | .50 | | T. | | | | | | | T. | | .09 | 1.14 |
| Cecil | Fox | | | | .18 | .21 | .21 | | | | | T. | T. | .18 | | .02 | | | | .42 | .26 | T. | | | | | | | T. | | .18 | 1.66 |
| Florence ‡‡ | Menominee | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. |
| Fond du Lac | Fox | | T. | | .18 | | .48 | | | | | | .03 | .25 | | T. | | | T. | .38 | .03 | T. | | | | | | | .03 | .03 | .02 | 1.43 |
| Grand River Locks | do | | .02 | | .12 | .10 | .28 | | | | | | .05 | .50 | | | | | | .50 | .05 | .06 | | | | | | | T. | T. | | 1.68 |
| Green Bay | Lake | | | | .20 | .13 | .21 | | | | | | .02 | .33 | | | | | .14 | .35 | .01 | T. | | | | | | | .02 | | .02 | 1.43 |
| Iron River | do | | | | .11 | .40 | | | 0.01 | | | T. | .50 | | | | | | | .50 | | .50 | | | | | | | | T. | .50 | 2.52 |
| Kewaunee | do | .18 | | | .41 | | .43 | | | | | | .03 | .36 | | | | | | .61 | | | | | | | | | .12 | | | 2.14 |
| Manitowoc | do | .07 | | | .38 | | .58 | | | | | | .03 | .24 | | | | | | .52 | .09 | .01 | | | | | | | .05 | | | 1.97 |
| Menasha | Fox | .04 | | | .41 | | .09 | | | | | | | .34 | | .03 | | | | .40 | T. | T. | T. | | | | | | T. | T. | | 1.31 |
| Menomonee Falls | Lake | | .04 | | .30 | .44 | .27 | | | | | | .28 | .46 | | T. | | | | 1.08 | .04 | .10 | | | | | | | .03 | .24 | T. | 3.28 |
| Milwaukee | do | | .02 | T. | .82 | .18 | .30 | | | | | | .09 | .55 | | T. | | | .04 | .45 | .10 | .01 | | | | | | T. | .02 | 1.04 | T. | 3.62 |
| New London | Fox | | | | * | .39 | .25 | | | | | | | .45 | | T. | | | | .35 | | T. | | | | | | | T. | | .30 | 1.74 |
| Oconto | Lake | | | | .07 | | | | | | | | .38 | | | | | | .45 | .34 | | | | | | | | | .03 | .09 | | 1.36 |
| Oshkosh | Fox | | | | | .55 | .60 | | | | | | | .30 | | T. | | | | .48 | T. | T. | | | | | | | T. | | | 1.93 |
| Pine River | do | | T. | | * | .24 | .32 | | | | | | T. | .66 | T. | .06 | | | * | .34 | .01 | .04 | | | | | | T. | T. | T. | .06 | 1.73 |
| Plum Island | Lake | .10 | | | .20 | .50 | .40 | | | | | | .07 | .43 | | T. | | | | .13 | | | | | | | | | T. | | | 1.83 |
| Plymouth | do | T. | T. | | .13 | .16 | .53 | | | | | | .02 | .33 | | T. | | | | 1.44 | T. | T. | | | | | | | T. | .01 | | 2.62 |
| Port Washington | do | | | | .28 | .41 | .60 | | | | | | .68 | .62 | | | | | | .95 | | | | | | | | | | | .30 | 3.84 |
| Racine | do | T. | .03 | | .28 | .69 | .18 | | | | | | .11 | .60 | .03 | T. | | | | .20 | .08 | .10 | | | | | | | | .28 | .77 | 3.35 |
| Ripon | Fox | T. | T. | | T. | | .50 | | | | | | | .33 | | T. | | | | .63 | T. | T. | | | | | | | T. | | | 1.46 |
| Sheboygan | Lake | | | | .13 | .32 | 1.30 | | | | | | .03 | .36 | | T. | | | | .59 | .13 | | T. | | | | | | T. | T. | | 2.86 |
| Sturgeon Bay | do | | | | .20 | .41 | .32 | | | | | | .04 | .91 | | T. | | | | .43 | | | | | | | | | .05 | | | 2.36 |
| Superior ‖ | do | | | | | .40 | | | .02 | | | | | .31 | | | | | | .12 | | | | | | | | | | .01 | .04 | 0.90 |
| Waupaca | Fox | | | | .21 | | .24 | | | | | | | .44 | | T. | | | .30 | .17 | | .07 | | | | | | | .02 | | .09 | 1.54 |
| ***Illinois.*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chicago | Lake | | .24 | .01 | .77 | | .05 | | T. | | | .05 | .04 | .62 | | T. | T. | | .06 | .33 | .05 | .23 | | | | | | T. | .23 | .31 | .04 | 3.03 |
| ***Indiana.*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Auburn ‖ | Maumee | .25 | T. | .15 | .18 | .83 | | | | | | | .37 | .15 | .40 | | | T. | | .16 | 1.82 | .05 | | T. | | | | | .03 | .10 | .15 | 4.64 |
| Berne | do | T. | .45 | .03 | .80 | .07 | .02 | | | | | .03 | .40 | .21 | .35 | T. | | | | 1.37 | .04 | .15 | .01 | T. | | | | | .31 | .19 | .79 | 5.22 |
| Elkhart | St. Joseph | | | 1.00 | .68 | .12 | T. | | | | | | .13 | .34 | .47 | .12 | | | | .79 | .55 | | | | | | | | .07 | .31 | | 4.58 |
| Fort Wayne | Maumee | .05 | .29 | | .85 | .06 | .01 | | | | | | .38 | .26 | .26 | T. | | .01 | | 1.23 | .16 | T. | T. | | | | | | .15 | .11 | .23 | 4.05 |
| Hammond | Lake Michigan | | | | .38 | .40 | .11 | | | | | | .65 | .64 | | | | | .02 | .60 | .08 | .20 | | | | | | | T. | .44 | .50 | 4.02 |
| Howe ‖ | St. Joseph | .10 | | .20 | .42 | .10 | | | | | | | .20 | .28 | | | | | | | 1.79 | | | | | | | | .08 | .15 | .18 | 3.50 |
| South Bend ‖ | do | .04 | | .28 | .30 | .15 | T. | | | | | | .28 | .33 | .56 | | .01 | | | .10 | 1.19 | | .03 | | | | | | .05 | .36 | .10 | 3.78 |
| Whiting | Lake Michigan | | .30 | T. | .74 | .20 | .04 | | | | | | .08 | .15 | .96 | | | | | .78 | .10 | .03 | | | | | | | .19 | .26 | .30 | 4.13 |
| ***Michigan—Upper Peninsula.*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Baraga | Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bergland | Ontonagon | | | | T. | .51 | | | | | | | T. | | .31 | | | | | | | | | | | | | | | .17 | T. | 0.99 |
| Blaney | Manistique | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Calumet | Lake | | | | | .40 | T. | T. | | | | | T. | .07 | .04 | T. | | | | | | | | | | | | .06 | | .01 | .11 | 0.69 |
| Chatham | do | | | | | .12 | | | .04 | | | | T. | .06 | | .04 | | | | | | | | | | | | | | | .01 | 0.27 |
| Deer Park | do | T. | | | | | | | | | | | | T. | | T. | | | | | | | | | | | | | | | T. | |
| Detour | St. Marys | | | | | .15 | .20 | | | | | | .60 | .80 | | | | | | | | | | | | | | | | | | 1.75 |
| Eagle Harbor | Lake | | | | | .40 | T. | T. | | | | | T. | .02 | .02 | T. | | | | | | | | | | | .02 | | | T. | .16 | 0.62 |
| Escanaba | do | | | | .08 | .08 | .02 | | | | | | .05 | .16 | | T. | | | T. | T. | T. | | | | | | | | .01 | .02 | T. | 0.42 |
| Ewen | Ontonagon | | | | T. | | | | | | | | | | T. | .30 | | | | T. | T. | T. | | | | | | | | .10 | .05 | 0.45 |
| Grand Marais | Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Green | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Houghton | do | | | | .10 | .35 | | T. | | | | | T. | .02 | .02 | T. | | | | | T. | | | | | | | .04 | T. | .07 | .07 | 0.67 |
| Humboldt | Escanaba | | | | | .30 | | | T. | | | | | | | .40 | | | | | | | | | | | | | | | T. | 0.70 |
| Iron Mountain | Menominee | | | | | .17 | | | | | | | | .13 | | T. | | | | | T. | | | | | | | | | | T. | 0.30 |
| Iron River | do | | | | T. | .50 | | | T. | | | | T. | .30 | | .10 | | | | .20 | | | | | | | | | | | T. | 1.10 |
| Ironwood | Lake | | | | | .63 | T. | | | T. | | | .23 | T. | | .11 | | | | .10 | | | | | | | | | T. | .17 | .04 | 1.28 |
| Ishpeming | Escanaba | .02 | | | | .10 | | | | | | | T. | .30 | | .10 | | | | T. | | | | | | | | | | | .05 | 0.57 |
| Isle Royale | Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mackinac Island | do | | | | .02 | .53 | .07 | | | | | | .22 | .41 | | .04 | | | | | | | T. | | | | | | | .01 | | 1.30 |
| Maple Ridge | do | | | | | .40 | | | | | | | | .20 | | | | | | | | | | | | | | | | | | 0.60 |
| Marquette | do | | | | .08 | .17 | | T. | T. | | | | T. | .09 | .10 | .01 | | | | | | | | | | | | | T. | 0 | .21 | 0.66 |
| Menominee | Menominee | | | | .20 | | .25 | | | | | | .08 | .40 | | | | | | .48 | T. | | | | | | | | | T. | | .05 | 1.46 |
| Munising | Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Newberry | Tequamenon | .09 | T. | | T. | .30 | .06 | T. | | | | | T. | .20 | | T. | | | | | | | | | | | | | | | T. | 0.65 |
| Powers | Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| St. Ignace | do | | | | T. | .42 | T. | | | | | | .12 | .10 | .20 | T. | | | | | | | | | | | | | | T. | T. | 0.84 |
| Sault Ste. Marie | St. Marys | .01 | | | .03 | .12 | .03 | T. | | | | | .09 | .80 | T. | .03 | | | | | | | .05 | | | | | | | | .06 | 1.22 |
| Thomaston | Lake | | | | T. | .40 | | | | | | | | | | .20 | | | | | | | | | | | | | T. | T. | T. | 0.60 |
| Victoria | Ontonagon | T. | | | T. | .54 | T. | | | | | | | | T. | .04 | | | | T. | | | | | | | | | | .10 | .21 | 0.89 |
| Watersmeet | do | | | | | .51 | | | | | | | | T. | | .01 | | | | .23 | | | | | | | | | | .07 | .20 | 1.02 |
| Wetmore | Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Whitefish Point | do | T. | | | | .23 | .02 | | | | | | T. | .27 | | .05 | | | | | | | T. | | | | | | | T. | | 0.57 |
| ***Michigan—Lower Peninsula.*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrain | Raisin | | | | .52 | | | | | | | | .30 | | .27 | | | | | 2.05 | | .09 | | | | | | | .25 | | .15 | 3.63 |
| Allegan | Kalamazoo | | | | .90 | .71 | .17 | | | | | | .32 | .19 | | | | | | .81 | .17 | | | | | | | T. | | .11 | .84 | 4.28 |
| Alma | Saginaw | | | | .30 | .80 | .45 | | | | | | .20 | .35 | .30 | T. | | | | .15 | | .05 | T. | T. | | | | | | .04 | .55 | 3.19 |
| Alpena | Lake | .01 | | | .71 | .20 | .50 | T. | | | | | .03 | .30 | .06 | .04 | T. | | | | | | | | | | | | | | .01 | 1.86 |
| Ann Arbor | Huron | .03 | T. | | .73 | .11 | .02 | | | | | | .44 | .05 | .08 | .05 | | | | 1.53 | .08 | T. | .18 | .01 | | | | | T. | .20 | .03 | 3.54 |
| Arbela | Saginaw | | | | .64 | .26 | .22 | | | | | | .14 | .05 | .09 | .14 | | | | .17 | | | | | | | | | | .24 | .19 | 2.14 |
| Battle Creek | Kalamazoo | T. | | | .78 | T. | .10 | | T. | | | | .17 | .23 | .52 | T. | | | T. | 1.05 | .05 | T. | T. | | | | | | T. | .13 | .15 | 3.18 |
| Bay City | Saginaw | | | | .10 | | T. | | | | | | .25 | | .40 | T. | | | | .20 | | | | | | | | | | .20 | | 1.15 |
| Benzonia | Betsie | | | | .08 | .34 | .55 | | | | | | | .23 | | | | | | T. | | | | | | | | | T. | .17 | | 1.32 |
| Berlin | Clinton | T. | | | .60 | .15 | .04 | | | | | | .44 | .08 | .08 | .01 | T. | | | .22 | | .07 | .27 | T. | | | | | | .21 | .15 | 2.37 |

TABLE 2.—*Daily precipitation for April, 1911. District No. 4*—Continued.

| Stations. | Watershed. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| *Michigan—Lower Peninsula*—Con. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Big Rapids | Muskegon | T. | T. | T. | .15 | 1.33 | .35 | T. | | | | .17 | .72 | .78 | | | | | | .06 | | | | | | | | | | .05 | .44 | 4.05 |
| Bloomingdale | Lake | | T. | | .30 | .10 | .10 | | T. | | | | | .20 | .58 | T. | T. | | | .54 | .16 | .03 | | | | | | | .02 | .05 | .17 | 2.25 |
| Cadillac | Manistee | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cassopolis | St. Joseph | | .10 | | .80 | .20 | | | | | | | .25 | .80 | .35 | | | | | 1.30 | | | | | | | | | .20 | .30 | .40 | 4.70 |
| Charlevoix | Lake | | | | | | .40 | | | | | | | | | T. | | | | | | | | | | | | | | | | |
| Charlotte | Kalamazoo | | | | | | | | | | | | T. | .09 | .36 | | | | | .58 | | | | | | | | | | | | 1.03 |
| Cheboygan | Cheboygan | | | | T. | .70 | .30 | | | | | | | .30 | .42 | .10 | | | | | | | | | | | | | | | | 1.82 |
| Clinton | Raisin | T. | | | .65 | .20 | T. | | | | | | .52 | T. | .10 | .10 | | | | 1.05 | .18 | | .05 | | | | | | | .08 | T. | 2.93 |
| Coldwater | St. Joseph | T. | | .05 | .51 | | .10 | | | | | | .20 | .25 | .30 | | | | | 1.10 | .60 | .06 | | | | | | | | .30 | | 3.47 |
| Concord | Kalamazoo | | | | .50 | | .12 | | | | | | .10 | .07 | .22 | T. | | | | 1.02 | .30 | T. | | | | | | | | .03 | T. | 2.36 |
| Croton | Muskegon | | | | .08 | .99 | .40 | | | | | | .55 | .50 | .84 | T. | | | | .14 | | | .03 | | | | | | T. | .13 | 1.02 | 4.68 |
| Detroit | Detroit | T. | | | .84 | .03 | T. | | | | | | .24 | .06 | .06 | .02 | | | T. | 1.38 | | .09 | .21 | .01 | | | | | T. | .22 | .06 | 3.22 |
| Durand | Saginaw | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| East Tawas | Lake | T. | | | .80 | .20 | .25 | | | | | | .10 | .05 | | | | | | | | | | | | | | | | | .30 | 1.70 |
| Eloise | Rouge | .05 | | | .67 | .20 | | | | | | | .28 | .05 | .12 | .03 | .01 | | | 1.27 | .23 | T. | .12 | | | | | | | .05 | .08 | 3.16 |
| Flint | Saginaw | | | | .20 | .85 | | .15 | | | | | .07 | .10 | .22 | | | | | .15 | | | .12 | | | | | | | .20 | .18 | 2.24 |
| Frankfort | Betsie | | | | .10 | .25 | .40 | | | | | | .10 | .10 | | | | | | | | | | | | | | | | | | 0.95 |
| Ganges | Lake | .06 | | | .70 | .32 | .19 | | | | | | .22 | .18 | 1.03 | .02 | | | | .88 | | .08 | | | | | | | .04 | .15 | .90 | 4.77 |
| Gaylord | Cheboygan | | | | | | .10 | | | | | | | | | | | | | | | | .05 | | | | | | | | | |
| Gladwin | Saginaw | | | | .10 | .20 | .25 | | | | | | .20 | | | | | | | .10 | | | | | | | | | | .10 | .25 | 1.20 |
| Grand Haven | Grand | .03 | | | .98 | .09 | .30 | | | | | T. | .20 | 1.23 | | .01 | | | .01 | .37 | .01 | | T. | | | | | | .11 | 2.02 | .17 | 5.53 |
| Grand Rapids | do | .03 | | T. | .65 | .03 | .16 | | T. | | | T. | .14 | .84 | .02 | .02 | | | .01 | .39 | T. | T. | .03 | T. | | | | | .10 | 1.40 | .32 | 4.20 |
| Grape | Raisin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grass Lake | Grand | T. | | | .80 | .15 | T. | | | | | | .26 | .12 | | .15 | | | | .15 | .10 | T. | T. | | | | | | .12 | .15 | T. | 2.00 |
| Grayling | Au Sable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harbor Beach | Lake | | | | .60 | .20 | .20 | | | | | | .20 | .10 | | | | | | | | | | | | | | | | .05 | | 1.35 |
| Harrison | Saginaw | | | .68 | .10 | .30 | | | | | | | | | | | | | | .78 | | | | | | | | | | | | 1.86 |
| Harrisville | Lake | | | | .37 | .70 | .60 | | | | | | .10 | .28 | .05 | T. | | | | | | | | | | | | | | T. | .57 | 2.67 |
| Hart | Pentwater | .20 | | | .50 | 1.40 | T. | | | | | | | | | T. | | | | 2.00 | | | | | | | | | | | [illegible] | 4.10 |
| Hayes | Pigeon | | | | .35 | .45 | .40 | | | | | | .10 | .15 | | | | | | | | | | | | | | | | | .15 | 1.10 |
| Highland | Huron | | | | | | | | | | | .11 | .12 | .31 | | T. | | | | .70 | | | .21 | | | | | | | .35 | .23 | 2.03 |
| Hillsdale | St. Joseph | T. | .05 | | .80 | .06 | .05 | | | | | | T. | T. | | T. | | | T. | .93 | .06 | .16 | T. | | | | | | T. | .23 | | 2.34 |
| Holland | Lake | T. | | | 1.01 | .17 | .25 | T. | | | | .10 | .18 | .34 | .64 | .03 | | | | .68 | .02 | .03 | .02 | | | | | .01 | T. | .13 | 1.80 | 5.41 |
| Howell | Saginaw | T. | | | .75 | .35 | .25 | | | | | | .20 | .05 | .10 | T. | | | | .85 | .80 | | T. | | | | | | | .08 | .07 | 3.50 |
| Ivan | Manistee | T. | T. | | .11 | | .27 | | | | | | .03 | .08 | .10 | .03 | | | | T. | | .02 | .05 | | | | | | T. | .05 | .00 | 0.80 |
| Jackson | Grand | .02 | | | .42 | .03 | .02 | | | | | | .18 | .12 | .22 | T. | | | | 1.16 | .10 | .04 | .02 | | | | | | T. | .12 | .12 | 2.57 |
| Jeddo | St. Clair | | | | .44 | .25 | T. | | | | | | .09 | .12 | .14 | T. | | | | T. | | T. | .45 | | | | | | | .10 | .20 | 1.79 |
| Kalamazoo | Kalamazoo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lansing (Agr. Col.) | Grand | .03 | | | .79 | .02 | .08 | | | | | | .19 | .18 | .17 | | | | .01 | .37 | | .01 | .04 | .01 | | | | | .04 | .05 | .12 | 2.11 |
| Lansing | do | .01 | | | .74 | .06 | .09 | | | | | | .22 | .16 | .22 | T. | | | | .40 | .02 | T. | .06 | T. | | | | | T. | .10 | .15 | 2.23 |
| Lapeer | Saginaw | | | | .50 | | .35 | | | | | | .05 | | | T. | | | | .18 | | T. | .32 | | | | | | | .12 | .10 | 1.62 |
| Ludington | Pere Marquette | | | | .10 | .30 | .70 | | | | | | | .33 | | | | | | | | | | | | | | | | | | 1.43 |
| Luther | Manistee | | | | .18 | .93 | .41 | .01 | | | | | .10 | .37 | 1.04 | .05 | | | | .04 | | .02 | .01 | | | | | | .02 | .06 | .23 | 3.47 |
| Mackinaw | Lake | | | | | | | | | | | | .08 | .05 | | | | | | | | | | | | | | | | | | |
| Mancelona | do | | | | .01 | T. | .80 | | | | | | T. | T. | | T. | | | | | | T. | T. | T. | | | | | | T. | | 0.81 |
| Manistee | Manistee | | | | .60 | .25 | .60 | | | | | | T. | .40 | .84 | | | | | | | | | | | | | | T. | | | 2.69 |
| Midland | Saginaw | | | | .20 | .10 | T. | T. | T. | | | | T. | T. | | T. | | | | | | T. | | | | | | | | T. | T. | 0.30 |
| Morenci | Maumee | | .05 | | .78 | .11 | | | | | | | .36 | .14 | .18 | .06 | | | | 1.92 | | .08 | .06 | | | | | | | .17 | .12 | 4.03 |
| Mount Clemens | Clinton | | | | .80 | .15 | .03 | | | | | | .30 | .10 | .09 | | | | | .60 | T. | .02 | T. | T. | | | | | | .25 | T. | 2.34 |
| Mount Pleasant | Saginaw | | | | | T. | T. | | | | | | T. | T. | | T. | | | | T. | | T. | .16 | | | | | | | | | 0.16 |
| Muskegon | Muskegon | T. | | | .20 | .60 | .40 | | | | | | .10 | .50 | .30 | | | | | .30 | T. | | T. | | | | | | T. | T. | .60 | 3.00 |
| Old Mission | Lake | .04 | | | .12 | .50 | .52 | | | | | | | .27 | .07 | .05 | | | | | | | | | | | | | | | | 1.57 |
| Olivet | Kalamazoo | .01 | | | .67 | T. | T. | | T. | | | | .11 | .28 | .50 | T. | | | | .70 | .04 | .03 | .01 | | | | | | .03 | .14 | .20 | 2.72 |
| Omer | Lake | | | | .80 | | .20 | | | | | | | | | T. | | | | | | | | | | | | | | | | 1.00 |
| Onaway | Cheboygan | | | | | 1.00 | .60 | | | | | | .10 | .20 | .80 | | | | | | | | | | | | | | | | | 2.70 |
| Owosso | Saginaw | | | | .50 | .47 | .29 | | | | | | .17 | .05 | .18 | T. | | | | .31 | .01 | .18 | | | | | | | | | .13 | 2.29 |
| Petoskey | Lake | T. | | | .15 | .10 | .10 | | | | | | T. | .20 | | | | | | | | | T. | | | | | | | | | 0.55 |
| Plymouth | Rouge | | | | .50 | 1.00 | | | | | | | | | | | | | | | | | T. | | | | | | | | | |
| Pontiac | Clinton | T. | | | .82 | .26 | .03 | | | | | | .57 | T. | T. | T. | .25 | | | .56 | T. | .03 | .27 | T. | | | | | | .12 | .40 | 3.31 |
| Port Austin | Lake | | | | .25 | | | | | | | | .45 | .15 | | | | | | | | | | | | | | | | | | 0.85 |
| Port Huron | St. Clair | | | | .57 | .02 | .02 | | | | | | .15 | .12 | .08 | T. | | | | .14 | | .04 | .28 | | | | | | T. | .21 | .09 | 1.72 |
| Reed City | Muskegon | | | | | | 2.50 | | | | | | | | | | | | | | | | | | | | | | | | .03 | |
| Roscommon | Au Sable | | | | .01 | 1.02 | .75 | | | | | | | .18 | .35 | .01 | | | | | | | | | | | | | | .01 | | 2.33 |
| Saginaw | Saginaw | | | .47 | .77 | .25 | | | | | | | T. | .10 | .25 | .05 | | | | .12 | | T. | .07 | | | | | | T. | .35 | T. | 2.43 |
| Saginaw, W. S | do | | | | .44 | .51 | .31 | | | | | | .12 | T. | .16 | .03 | T. | | | .11 | | T. | .07 | | | | | | | .24 | .12 | 2.11 |
| St. James | Lake | | | | T. | .40 | .11 | | | | | | .05 | .35 | | .07 | | | | | | | | | | | | | | | | 0.98 |
| St. Joseph | St. Joseph | .02 | .10 | T. | .70 | | | | | | | | .04 | .06 | .50 | T. | | | | 1.70 | | | | | | | | | .30 | .10 | .08 | 3.00 |
| Sandusky | Lake | | | | .22 | .37 | .26 | | | | | | .12 | .05 | | T. | | | | | .16 | .08 | | | | | | | | | .18 | 1.44 |
| Saranac | Grand | | | | .47 | .60 | .18 | | | | | | .25 | .30 | .44 | T. | | | | .40 | .04 | | | | | | | | | .11 | .53 | 3.32 |
| South Haven | Lake | | | T. | .40 | .60 | | | | | | | .20 | .40 | | | | | | .20 | | | | | | | | | .20 | .20 | .40 | 2.60 |
| Stanton | Grand | | | | .12 | .12 | .12 | | | | | | .08 | .16 | | T. | | | | .10 | | | | | | | | | | | | 0.70 |
| Thornville | Saginaw | | | | .45 | | .12 | | | | | .12 | | | T. | | .05 | | | .12 | | T. | .12 | T. | | | | | | .20 | .30 | 1.48 |
| Traverse City | Lake | | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | .01 | | |
| Vassar | Saginaw | | | | | .30 | .37 | | | | | .10 | | .10 | | | | | | .27 | | | .21 | | | | | | | .20 | .09 | |
| Wasepi | St. Joseph | .07 | .03 | .07 | .70 | | .12 | | | | | | .29 | .56 | .36 | | | | | 1.58 | | | | | | | | | .43 | .28 | .11 | 4.60 |
| West Branch | Lake | | | | .28 | .18 | | | | | | | .17 | .29 | .40 | .10 | | | | T. | | T. | | | | | | | | T. | .15 | 1.57 |
| Woodlawn | Au Sable | .05 | .10 | | .32 | .40 | .50 | | | | | | .05 | .12 | .82 | .20 | | | | | | | T. | | | | | | | T. | T. | 2.56 |
| Ypsilanti | Lake | .10 | | | .45 | .15 | T. | | | | | | .26 | .06 | .20 | .06 | | | | 1.50 | .14 | | .33 | T. | | | | | T. | .20 | .11 | 3.65 |
| *Ohio.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Akron ‖ | Lake | .03 | .02 | .02 | .02 | .32 | | .14 | | .20 | | | .13 | .20 | .30 | .09 | .12 | T. | | .04 | 1.22 | .03 | .05 | .16 | | | | | | .06 | .09 | 3.24 |
| Benton Ridge | Maumee | .20 | .20 | | .60 | .04 | .03 | | | | | | .24 | .12 | .17 | .05 | | | | .95 | .21 | T. | .08 | | | | | | | .31 | .44 | 3.04 |
| Bowling Green | Lake | .05 | .06 | .04 | .60 | .05 | .05 | | | | | | .21 | .05 | .10 | .02 | | | | 1.75 | .45 | .13 | .27 | T. | | | | | | .27 | .05 | 4.15 |
| Bucyrus ‖ | Sandusky | .20 | T. | .20 | .50 | .55 | T. | .10 | | | | | .20 | T. | .50 | .10 | T. | .05 | | .30 | .90 | T. | .25 | .03 | | | | | | T. | .80 | 4.68 |
| Cleveland (1) | Lake | T. | .04 | | .64 | .06 | .07 | | .08 | | | T. | .05 | .04 | .14 | .08 | | | T. | 1.20 | .02 | .01 | .25 | | | | | | T. | .72 | .02 | 3.42 |
| Cleveland (2) | do | | .05 | | .68 | | .16 | | .06 | | | | .05 | .05 | .17 | .13 | | | | 1.06 | .02 | .12 | .16 | | | | | | | .85 | .15 | 3.71 |
| Conneaut | do | | | | .58 | .05 | | .24 | | .05 | | | .21 | | .10 | | | | | .60 | .06 | | T. | | | | | | | .18 | .12 | 2.80 |
| Defiance ‖ | Maumee | .04 | T. | .10 | .64 | | | T. | | | | | .37 | .03 | .38 | | .05 | .03 | | .18 | 1.60 | | T. | T. | T. | | | | T. | .06 | .03 | 3.51 |
| Findlay ‖ | do | .10 | | .40 | .70 | .27 | | | | | | | .22 | .02 | .26 | | | .08 | | .25 | 1.08 | .02 | .10 | .05 | .01 | | | | | .10 | .22 | 3.88 |
| Fremont | Sandusky | T. | .12 | | .81 | .04 | | | | | | | .20 | .10 | .11 | .03 | | | | | 1.72 | | .17 | | | | | | | .38 | .04 | 3.72 |
| Hedges | Maumee | | .30 | | 1.00 | | | | | | | | .40 | .18 | .35 | .07 | | .10 | | 1.87 | .32 | | | | | | | | | | .30 | 4.89 |
| Hillhouse | Lake | T. | T. | T. | .35 | .15 | .30 | .07 | | .11 | | .40 | T. | .16 | | | .18 | | | .60 | .71 | | .26 | | | | | | | .66 | .44 | 4.39 |
| Hiram | do | | | | .52 | .05 | | .20 | T. | .18 | | | .59 | .01 | .16 | T. | .15 | .05 | | .76 | .39 | | .22 | | | | | | T. | T. | .36 | 3.64 |
| Hudson | do | .01 | | | .85 | .24 | | .14 | | .18 | | | .50 | .10 | .25 | | .24 | | | .80 | .46 | .02 | .19 | | | | | | | .21 | .46 | 4.65 |
| Lima | Maumee | T. | .20 | 1.00 | | .10 | | | T. | | | | .35 | .24 | | T. | | | | 1.04 | .03 | T. | | | | | | | T. | .87 | | 3.53 |
| Medina | Lake | .12 | | | .47 | .26 | | .11 | T. | | | | .39 | T. | .31 | | .13 | | | 1.00 | .47 | T. | .22 | | | | | | | .24 | .10 | 3.83 |
| Montpelier | Maumee | | | .10 | .50 | .18 | T. | | | | | | .28 | .20 | .22 | T. | | | | 2.00 | T. | T. | T. | | | | | | .10 | T. | T. | 3.78 |
| Napoleon | do | | T. | .20 | .50 | .07 | .05 | | | | | | .36 | .10 | .14 | .10 | | | T. | 1.40 | .22 | T. | .04 | | | | | | T. | .19 | .04 | 3.41 |

TABLE 2.—*Daily precipitation for April, 1911. District No. 4*—Continued.

| Stations. | Watershed. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| *Ohio*—Continued. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New Bremen | Maumee | | .40 | | .65 | T. | | | T. | | | .15 | | .35 | .34 | T. | | | | .50 | | .28 | | | | | | | .09 | .20 | .35 | 3.31 |
| North Royalton | Lake | .10 | T. | T. | .75 | | T. | .18 | | .10 | | | .34 | T. | .22 | T. | | | | 1.05 | .18 | .04 | .30 | | | | | | | | .35 | 3.61 |
| Norwalk ‖ | do | | | .10 | .30 | .40 | | .02 | | .02 | | | .08 | .01 | .25 | .05 | .02 | | | .26 | 1.43 | .07 | .08 | .08 | | | | | | .30 | .53 | 4.00 |
| Oberlin | do | .11 | T. | T. | .51 | .12 | | .04 | .10 | | | | | .20 | .12 | T. | | | | .95 | | .44 | .20 | | | | | | | .16 | .2[illegible] | 3.18 |
| Ottawa | Maumee | T. | .60 | | .50 | .05 | | | | | | | .35 | .09 | | T. | T. | .20 | .20 | 1.30 | .10 | .15 | T. | | | | | | T. | .22 | .2[illegible] | 3.84 |
| Sandusky | Lake | T. | .05 | | .73 | .02 | | | | | | .01 | .07 | .16 | .02 | .04 | | | T. | 1.66 | | .02 | .04 | | | | | | T. | .48 | .16 | 3.46 |
| Tiffin | Sandusky | .03 | .12 | T. | .70 | .11 | T. | | T. | | | T. | .23 | .12 | .09 | .06 | .02 | .03 | | 1.64 | .16 | .05 | .14 | | | | | | T. | .29 | .19 | 3.98 |
| Toledo (1) | Maumee | .05 | T. | | .67 | .03 | .04 | | | | | .02 | .07 | .05 | .13 | .10 | | | T. | 2.24 | | .06 | .07 | T. | | | | | T. | .33 | .30 | 5.16 |
| Toledo (2) | do | .09 | T. | T. | .39 | .02 | .04 | | | | | | .24 | .02 | .12 | .09 | .02 | | | 1.51 | .24 | .02 | .06 | | | | | | | .32 | .05 | 3.23 |
| Upper Sandusky | Sandusky | .40 | .30 | .10 | .50 | .25 | | .10 | .05 | | | | .25 | .10 | .12 | T. | .05 | | | 1.20 | .10 | .10 | .10 | | | | | | T. | 1.30 | .80 | 5.82 |
| Vickery | Lake | .04 | .07 | .05 | .83 | .09 | | | | | | | .10 | .18 | .09 | .11 | | | | 1.30 | .39 | .10 | .07 | | | | | | T. | .35 | | 3.77 |
| Wauseon ‖ | Maumee | .02 | .01 | .28 | .35 | .29 | T. | .01 | | | | | .33 | .06 | .13 | | .04 | | | .30 | 1.92 | .02 | .05 | .01 | | | | | T. | .11 | .13 | 4.03 |
| Wellington | Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Willoughby ‖ | do | .02 | | | .62 | .08 | .08 | .07 | | .11 | | | .11 | .04 | .13 | .14 | .04 | | | .99 | .40 | | .25 | | | | | | | .20 | .33 | 3.61 |
| *Pennsylvania.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Erie | Lake | T. | | | .47 | .09 | .17 | | .19 | .03 | | | .08 | T. | .15 | .01 | | | | .84 | .07 | T. | T. | .04 | | | | | | .03 | .30 | 2.47 |
| *New York.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adams Center | Lake Ontario | .20 | | | .14 | .20 | .18 | .29 | | .10 | | | | | .24 | | | T. | T. | | | T. | .08 | | | | | | | | | 1.43 |
| Angelica | Genesee | .01 | | | .11 | .14 | | .37 | | .29 | | | | | .13 | | .22 | | | T. | | .45 | .04 | .07 | | | | | | | T. | 1.83 |
| Appleton | Lake Ontario | | T. | | .10 | .25 | .03 | | | | | | T. | T. | .18 | T. | .05 | | | T. | | T. | T. | | | | | | | | .08 | 0.69 |
| Auburn | Oswego | .20 | | | .15 | | .03 | | .12 | | | | | | .57 | | .07 | | | | | .12 | .35 | | | | | | | | | 1.61 |
| Avon | Genesee | T. | T. | | .10 | | | | .10 | .05 | | | | | | T. | T. | | | | | .50 | .25 | | | | | | | | .10 | 1.10 |
| Blue Mountain Lake | Raquette | | | | * | .57 | | | .20 | | | | | | .10 | .20 | | | | | | | | | | | | | | | | 1.07 |
| Brockport | Lake Ontario | .02 | .05 | | .10 | .12 | | .20 | | | | | | | .16 | | .03 | | | | | .16 | .09 | .04 | | | | | | | .03 | 1.00 |
| Buffalo | Lake Erie | .02 | T. | | .10 | .06 | .21 | T. | .05 | T. | | | .11 | T. | .33 | T. | T. | | | .52 | .01 | .01 | .03 | | | | | | | .03 | .17 | 1.65 |
| Canton | Grass | | | | .20 | .21 | .30 | T. | | | | | | T. | .24 | T. | .11 | | | | | | | | | | | | | | .02 | 1.08 |
| Cape Vincent | St. Lawrence | | | | .30 | .15 | .06 | | | | | | | .07 | .48 | | | T. | T. | | | | | | | | | | | | | 1.06 |
| Carvers Falls | LakeChamplain | | | | | | | | .20 | | | | | | .41 | | | | | | | | | | | | | | | | | 0.61 |
| Chazy | do | | | | | .20 | | | | .10 | | | | | .03 | | | | | | | | | | | | | | | | | 0.33 |
| Dannemora | do | | T. | | | .47 | T. | .04 | | T. | .01 | | | | .15 | T. | T. | .05 | T. | | | .02 | | | | | | | | | T. | 0.74 |
| Elba | Lake Ontario | T. | .30 | | T. | .45 | | .35 | | T. | | | T. | | .10 | T. | T. | T. | | | | T. | .10 | | | | | | | | T. | 1.30 |
| Faust | Raquette | | | | | .16 | .11 | .14 | | | | | | | .27 | .03 | .02 | | | | | | | | | | | | | | | 0.73 |
| Fayetteville | Oswego | .04 | T. | | .21 | | | .30 | | .28 | | | | | .16 | | .04 | T. | | | T. | T. | .20 | T. | | | | | | | T. | 1.23 |
| Gabriels | St. Regis | T. | | | | T. | | .23 | | .16 | | | | | .17 | .02 | .10 | .10 | | | .02 | | | | | | | | | | | 0.80 |
| Harkness | LakeChamplain | | | | | .29 | | | | .15 | | | | | .12 | | | | | | T. | | | | | | | | | | | 0.56 |
| Hemlock Lake | Genesee | | | | .24 | | | | | .10 | | | | | .60 | | | | | | | * | .39 | | | | | | | | .26 | 1.59 |
| Horseshoe | St. Lawrence | | | | | .28 | | .04 | .08 | .13 | | | | | .32 | .11 | .11 | | | | T. | | | | | | | | | | | 1.07 |
| Hunt | Genesee | | | | .27 | | .39 | | * | .21 | | | | | .08 | | | | | .06 | | .35 | .19 | | | | | | | | .27 | 1.82 |
| Ithaca | Oswego | .04 | .01 | | .40 | T. | .06 | .22 | .02 | .39 | | | | | .15 | | .07 | .01 | .02 | .06 | .10 | .10 | .35 | .03 | | | | | | | .02 | 2.05 |
| Keene Valley | Ausable | | | | .28 | .47 | .37 | .11 | | .23 | | | | | .08 | .03 | .04 | .06 | | | .02 | | | | | | | | | | T. | 1.69 |
| King Ferry | Oswego | | | | .22 | .18 | | .18 | | .24 | | | | | .36 | | .03 | T. | | | | .23 | .44 | T. | | | | | | | .04 | 1.92 |
| Lake George | LakeChamplain | | | | .11 | .60 | | .07 | | .23 | | | | | .06 | | | | | | | | | | | | | | | | | 1.07 |
| Lake Placid Club | Ausable, W. Br. | | | | .15 | .31 | .25 | .15 | | .35 | | | | | .15 | T. | .12 | .26 | | | .21 | T. | | | | | | | | | T. | 1.95 |
| Le Roy | Genesee | .02 | .05 | | .13 | .16 | .06 | T. | | .22 | | | | T. | .17 | .03 | .02 | T. | | T. | | .15 | .24 | | | | | | | | .14 | 1.39 |
| Lockport | Lake Ontario | T. | .06 | | .07 | .17 | | .01 | | | | | .07 | | .14 | .07 | .07 | | | T. | | T. | .03 | | | | | | | | .06 | 0.75 |
| Lowville | Black | | | | | .75 | | .33 | | | | | | | .18 | .10 | | | | T. | | | | | | | | | | | .05 | 1.41 |
| Moira | St. Lawrence | | T. | | | .22 | | .17 | | | | | | | .20 | .10 | .30 | .10 | | | | | | | | | | | | | | 1.09 |
| Nehasane | Black | .07 | .04 | | .05 | .70 | .12 | .42 | | .21 | | | | T. | .34 | .07 | .25 | .15 | .02 | .04 | T. | | | | | | | | | | T. | 2.48 |
| Ogdensburg | St. Lawrence | | | | T. | .60 | | .20 | | | | | | | .25 | | .07 | T. | | | | | | | | | | | | | .04 | 1.16 |
| Old Forge | Black | .17 | .02 | | | .60 | .23 | | | .20 | | | | | .09 | T. | | .02 | | | | | | | | | | | | | | 1.33 |
| Oswego | Lake Ontario | .05 | .01 | | .33 | .15 | .23 | .01 | | .10 | | | | T. | .43 | T. | T. | T. | | T. | | | .41 | | | | | | | | .07 | 1.79 |
| Otto | Lake Erie | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Palermo | Lake Ontario | .40 | | | .10 | .20 | .05 | | | .20 | | | | .02 | .10 | .02 | .05 | .03 | | | | T. | .40 | | | | | | | | | 1.57 |
| Perry City | Oswego | | .05 | | .22 | .44 | .19 | | | .45 | | | | | .24 | | .06 | T. | .05 | | .27 | .18 | .37 | .05 | | | | | | | T. | 2.57 |
| Philadelphia | St. Lawrence | | | | T. | .53 | | .33 | | | | | | T. | .51 | .04 | T. | T. | | | | | T. | | | | | | | | .01 | 1.42 |
| Potsdam ‖ | Raquette | .02 | | | | .48 | .03 | .40 | | | | | | | .02 | .25 | | .11 | | | | | | | | | | | | | | 1.31 |
| Raquette Lake | do | .06 | | | | .41 | .17 | .30 | | | | | | T. | .18 | | .32 | .16 | .10 | | | | | | | | | | | | T. | 1.70 |
| Rochester | Genesee | .10 | .14 | | .30 | T. | .15 | T. | T. | .12 | | | | .03 | .20 | .08 | .06 | T. | T. | T. | | .11 | .17 | | | | | | | | .34 | 1.80 |
| Romulus | Oswego | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Scottsville | do | | | | | | | | | | | .11 | | | .19 | | | | | | | .22 | .17 | .04 | | | | | | | .22 | 0.95 |
| Shortsville | do | | | | .29 | | | T. | | .20 | | | | | .17 | T. | T. | | T. | | | .20 | .35 | | | | | | | | .10 | 1.31 |
| Skaneateles | do | .05 | .12 | T. | .42 | .07 | .20 | .05 | | .24 | | | | | .30 | | .07 | | | | .05 | .07 | .30 | T. | | | | | | | T. | 1.94 |
| Syracuse | do | .11 | .04 | | .50 | .24 | .14 | .08 | .12 | .19 | | | | | .22 | T. | .02 | | | T. | T. | .01 | .36 | | | | | | | | T. | 2.03 |
| Ticonderoga | LakeChamplain | | | | T. | T. | | | | .11 | | | | | .02 | .01 | T. | T. | | | | | | | | | | | | | | 0.14 |
| Tupper Lake | Raquette | | | | T. | .16 | | T. | | | | | | | T. | T. | .30 | .10 | | | | | | | | | | | | | | 0.56 |
| Volusia | Lake Erie | T. | | | .30 | .33 | | .19 | | .20 | | | | | .18 | | .08 | | | .12 | .52 | | | .15 | | | | | | | .16 | 2.23 |
| Wanakena | Oswegatchie | | | | | .50 | | .25 | | .13 | | | | | .22 | | .24 | T. | | | | | | | | | | | | | | 1.34 |
| Wards Creek | Raquette | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Watertown | Black | | | | .10 | .43 | | .18 | | | | | | | .28 | T. | | | | | | | T. | | | | | | | | T. | 0.99 |
| Wedgewood | Oswego | T. | T. | | .14 | .18 | | .28 | | .38 | | | | | .15 | | T. | T. | T. | T. | .39 | .14 | .29 | .04 | | | | | | | .03 | 2.02 |
| Westfield | Lake Erie | T. | | | .41 | .17 | .33 | .16 | | .29 | | | T. | | .37 | | .12 | | | .21 | | | | .23 | | | | | | | .12 | 2.41 |
| Youngstown | Lake Ontario | T. | 03 | | .37 | | | | | | | | T. | T. | .25 | | | | | | | | T. | | | | | | | | .06 | 0.71 |
| *Vermont.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Burlington | Champlain | | T. | | .22 | .16 | T. | .T | | .15 | | | | | .23 | | .04 | T. | | | T. | | | | | | | | | | .03 | 0.83 |
| Cornwall | do | | | | .40 | | | | | .18 | | | | | .20 | | | | | | | | | | | | | | | | | 0.78 |
| Enosburg Falls | do | .02 | | | | .14 | | | | .12 | | | | | .35 | | .07 | .06 | | | | T. | | | | | | | | | | 0.76 |
| Northfield | do | T. | T. | | .18 | .27 | .01 | | | .37 | | | | | .11 | T. | .12 | T. | | | .04 | T. | | | | | | | | | | 1.10 |
| Wells | do | 04 | | | | .29 | .07 | | | .26 | | | | | .22 | | | T. | T. | | | | | | | | | | | | | 0.88 |

* Precipitation included in that of the next measurement.
‡ Separate dates of falls not recorded.
‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—*Maximum and minimum temperatures at selected stations for April, 1911. District No. 4, Lake Region.*

| Date. | Duluth, Minn. | | Wisconsin. Florence. | | Green Bay. | | Milwaukee. | | Chicago, Ill. | | Fort Wayne, Ind. | | Michigan. Escanaba. | | Ewen. | | Houghton. | | Marquette. | | Sault Ste. Marie. | | Alpena. | | Battle Creek. | | Cadillac. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1 | 28 | 3 | 26 | 5 | 32 | 15 | 36 | 20 | 34 | 27 | 37 | 24 | 29 | 8 | 30 | 3 | 25 | 15 | 25 | 11 | 19 | 6 | 25 | 11 | 32 | 19 | ..... | ..... |
| 2 | 25 | 17 | 31 | 4 | 32 | 23 | 32 | 26 | 35 | 29 | 38 | 21 | 30 | 13 | 32 | 2 | 24 | 11 | 24 | 15 | 23 | 10 | 32 | 11 | 33 | 21 | ..... | ..... |
| 3 | 30 | 22 | 35 | 9 | 36 | 25 | 37 | 30 | 38 | 32 | 37 | 28 | 33 | 8 | 28 | 6 | 34 | 10 | 33 | 10 | 33 | 11 | 31 | 16 | 40 | 25 | ..... | ..... |
| 4 | 30 | 27 | 34 | 24 | 33 | 30 | 35 | 32 | 39 | 33 | 47 | 32 | 32 | 23 | 29 | 20 | 32 | 27 | 31 | 25 | 36 | 22 | 33 | 29 | 36 | 30 | ..... | ..... |
| 5 | 34 | 26 | 35 | 27 | 36 | 32 | 40 | 34 | 45 | 36 | 59 | 39 | 40 | 31 | 28 | 20 | 34 | 29 | 35 | 29 | 35 | 30 | 40 | 33 | 56 | 36 | ..... | ..... |
| 6 | 29 | 18 | 37 | 27 | 38 | 28 | 38 | 30 | 41 | 33 | 69 | 40 | 41 | 27 | 40 | 22 | 34 | 28 | 37 | 27 | 35 | 27 | 36 | 29 | 54 | 35 | ..... | ..... |
| 7 | 39 | 15 | 40 | 18 | 40 | 22 | 38 | 25 | 37 | 29 | 46 | 27 | 39 | 23 | 45 | 26 | 35 | 23 | 32 | 25 | 32 | 23 | 38 | 21 | 45 | 26 | ..... | ..... |
| 8 | 34 | 29 | 41 | 24 | 44 | 31 | 42 | 31 | 39 | 34 | 44 | 29 | 38 | 27 | 44 | 28 | 41 | 19 | 41 | 25 | 39 | 19 | 36 | 24 | 41 | 29 | ..... | ..... |
| 9 | 48 | 28 | 53 | 22 | 48 | 28 | 44 | 32 | 42 | 35 | 55 | 25 | 41 | 30 | 52 | 35 | 45 | 24 | 41 | 25 | 42 | 22 | 48 | 24 | 53 | 25 | ..... | ..... |
| 10 | 47 | 34 | 52 | 26 | 53 | 34 | 44 | 36 | 49 | 39 | 60 | 21 | 42 | 39 | 55 | 25 | 55 | 28 | 49 | 30 | 48 | 25 | 43 | 29 | 56 | 27 | ..... | ..... |
| 11 | 49 | 36 | 55 | 29 | 57 | 37 | 50 | 37 | 59 | 41 | 67 | 32 | 47 | 34 | 58 | 33 | 54 | 33 | 50 | 33 | 47 | 31 | 44 | 34 | 63 | 36 | ..... | ..... |
| 12 | 45 | 37 | 45 | 35 | 51 | 41 | 49 | 39 | 60 | 43 | 63 | 47 | 40 | 35 | 58 | 41 | 49 | 39 | 47 | 38 | 39 | 36 | 40 | 37 | 55 | 43 | ..... | ..... |
| 13 | 45 | 30 | 62 | 39 | 62 | 43 | 65 | 44 | 68 | 53 | 61 | 52 | 60 | 38 | 52 | 38 | 64 | 35 | 64 | 38 | 45 | 37 | 47 | 37 | 60 | 51 | ..... | ..... |
| 14 | 49 | 27 | 49 | 31 | 52 | 34 | 53 | 37 | 55 | 40 | 60 | 44 | 52 | 33 | 46 | 23 | 43 | 28 | 43 | 32 | 42 | 31 | 48 | 38 | 59 | 41 | ..... | ..... |
| 15 | 44 | 25 | 47 | 25 | 43 | 31 | 48 | 35 | 53 | 39 | 59 | 38 | 40 | 29 | 38 | 15 | 36 | 30 | 35 | 28 | 36 | 27 | 40 | 28 | 45 | 33 | ..... | ..... |
| 16 | 47 | 24 | 42 | 22 | 50 | 30 | 51 | 36 | 54 | 37 | 56 | 31 | 42 | 24 | 40 | 13 | 39 | 26 | 34 | 27 | 35 | 25 | 41 | 25 | 49 | 26 | ..... | ..... |
| 17 | 53 | 33 | 64 | 22 | 60 | 30 | 48 | 34 | 55 | 40 | 62 | 28 | 40 | 25 | 68 | 22 | 57 | 26 | 53 | 28 | 47 | 23 | 45 | 26 | 56 | 27 | ..... | ..... |
| 18 | 53 | 35 | 73 | 31 | 67 | 42 | 68 | 43 | 64 | 52 | 62 | 34 | 53 | 34 | 72 | 35 | 69 | 36 | 64 | 39 | 51 | 29 | 47 | 33 | 66 | 40 | ..... | ..... |
| 19 | 48 | 35 | 60 | 41 | 48 | 39 | 49 | 41 | 55 | 45 | 57 | 52 | 52 | 37 | 58 | 33 | 55 | 37 | 51 | 38 | 61 | 35 | 50 | 34 | 57 | 47 | ..... | ..... |
| 20 | 60 | 38 | 56 | 30 | 59 | 39 | 56 | 41 | 56 | 44 | 64 | 42 | 53 | 34 | 53 | 28 | 51 | 34 | 44 | 36 | 54 | 36 | 55 | 37 | 64 | 37 | ..... | ..... |
| 21 | 49 | 34 | 50 | 34 | 50 | 36 | 49 | 40 | 54 | 42 | 60 | 43 | 46 | 33 | 48 | 25 | 45 | 34 | 42 | 35 | 51 | 34 | 48 | 38 | 57 | 41 | ..... | ..... |
| 22 | 48 | 29 | 51 | 27 | 50 | 33 | 50 | 35 | 49 | 39 | 55 | 35 | 46 | 34 | 52 | 19 | 43 | 32 | 44 | 34 | 49 | 34 | 50 | 34 | 56 | 34 | ..... | ..... |
| 23 | 52 | 34 | ..... | ..... | 52 | 32 | 47 | 35 | 47 | 39 | 57 | 31 | 50 | 33 | 54 | 19 | 51 | 29 | 46 | 33 | 51 | 33 | 54 | 37 | 56 | 33 | ..... | ..... |
| 24 | 57 | 32 | 63 | 27 | 59 | 34 | 52 | 36 | 51 | 41 | 64 | 32 | 52 | 32 | 65 | 22 | 57 | 30 | 47 | 35 | 53 | 32 | 60 | 33 | 64 | 34 | ..... | ..... |
| 25 | 59 | 35 | 68 | 31 | 64 | 37 | 54 | 40 | 53 | 45 | 67 | 33 | 51 | 35 | 70 | 24 | 64 | 31 | 53 | 41 | 64 | 31 | 62 | 36 | 65 | 33 | ..... | ..... |
| 26 | 54 | 41 | 65 | 29 | 64 | 42 | 54 | 43 | 60 | 47 | 75 | 32 | 56 | 36 | 67 | 32 | 66 | 38 | 63 | 41 | 66 | 30 | 51 | 36 | 69 | 34 | ..... | ..... |
| 27 | 59 | 46 | 74 | 42 | 74 | 49 | 63 | 46 | 70 | 59 | 76 | 46 | 57 | 41 | 75 | 38 | 70 | 46 | 76 | 45 | 74 | 40 | 57 | 45 | 75 | 47 | ..... | ..... |
| 28 | 52 | 43 | 63 | 46 | 58 | 52 | 55 | 45 | 60 | 52 | 66 | 47 | 52 | 44 | 63 | 50 | 66 | 43 | 65 | 49 | 74 | 39 | 72 | 44 | 68 | 53 | ..... | ..... |
| 29 | 64 | 44 | 67 | 51 | 60 | 51 | 52 | 45 | 65 | 55 | 71 | 56 | 55 | 44 | 64 | 37 | 61 | 50 | 64 | 45 | 68 | 48 | 56 | 43 | 71 | 56 | ..... | ..... |
| 30 | 48 | 31 | 61 | 34 | 67 | 38 | 63 | 36 | 58 | 42 | 73 | 59 | 55 | 35 | 47 | 28 | 51 | 32 | 52 | 31 | 66 | 38 | 56 | 43 | 71 | 53 | ..... | ..... |
| Mns. | 46.0 | 30.3 | 51.7 | 28.0 | 51.3 | 34.6 | 48.7 | 36.1 | 51.5 | 40.7 | 58.9 | 36.7 | 45.5 | 30.3 | 51.0 | 25.4 | 48.5 | 30.1 | 46.2 | 31.6 | 47.2 | 28.8 | 46.2 | 31.5 | 55.7 | 35.7 | ..... | ..... |

| Date. | Michigan. Detroit. | | Muskegon. | | Saginaw, West Side. | | Ohio. Cleveland. | | Lima. | | Sandusky. | | Toledo. | | Erie, Pa. | | New York. Buffalo. | | Canton. | | Rochester. | | Syracuse. | | Vermont. Burlington. | | Northfield. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min |
| 1 | 27 | 21 | 32 | 20 | 29 | 17 | 31 | 23 | 36 | 24 | 32 | 22 | 33 | 22 | 30 | 23 | 27 | 18 | 25 | 14 | 27 | 19 | 27 | 18 | 28 | 12 | 30 | 6 |
| 2 | 34 | 20 | 32 | 20 | 34 | 17 | 32 | 21 | 37 | 20 | 36 | 22 | 40 | 24 | 30 | 22 | 28 | 20 | 25 | 12 | 27 | 19 | 27 | 16 | 25 | 10 | 23 | 2 |
| 3 | 36 | 25 | 39 | 23 | 36 | 18 | 38 | 25 | 37 | 29 | 35 | 28 | 33 | 27 | 34 | 20 | 34 | 21 | 29 | 1 | 33 | 20 | 30 | 19 | 27 | 7 | 28 | 1 |
| 4 | 52 | 31 | 36 | 30 | 35 | 27 | 55 | 35 | 56 | 33 | 56 | 34 | 58 | 33 | 45 | 29 | 43 | 25 | 38 | 9 | 40 | 24 | 36 | 21 | 37 | 6 | 36 | −1 |
| 5 | 54 | 40 | 40 | 34 | 53 | 34 | 61 | 43 | 61 | 43 | 62 | 43 | 60 | 42 | 65 | 40 | 57 | 36 | 54 | 31 | 64 | 37 | 61 | 35 | 44 | 28 | 37 | 26 |
| 6 | 68 | 35 | 37 | 33 | 40 | 33 | 73 | 35 | 72 | 40 | 72 | 38 | 69 | 36 | 71 | 35 | 65 | 35 | 62 | 37 | 69 | 41 | 68 | 41 | 54 | 38 | 53 | 37 |
| 7 | 44 | 31 | 34 | 30 | 43 | 27 | 38 | 33 | 45 | 28 | 40 | 33 | 45 | 30 | 38 | 34 | 39 | 32 | 50 | 32 | 45 | 32 | 57 | 31 | 54 | 33 | 61 | 32 |
| 8 | 40 | 32 | 38 | 29 | 39 | 29 | 41 | 31 | 44 | 25 | 38 | 34 | 40 | 31 | 38 | 29 | 42 | 28 | 38 | 27 | 41 | 30 | 41 | 28 | 38 | 28 | 39 | 27 |
| 9 | 45 | 29 | 45 | 30 | 53 | 25 | 39 | 32 | 59 | 27 | 45 | 32 | 46 | 28 | 42 | 30 | 44 | 28 | 44 | 28 | 45 | 29 | 42 | 30 | 37 | 26 | 37 | 24 |
| 10 | 54 | 35 | 53 | 25 | 57 | 29 | 48 | 33 | 57 | 44 | 48 | 34 | 52 | 34 | 48 | 33 | 47 | 29 | 44 | 28 | 48 | 32 | 45 | 32 | 44 | 28 | 41 | 19 |
| 11 | 58 | 37 | 63 | 37 | 62 | 34 | 61 | 40 | 63 | 37 | 62 | 38 | 58 | 37 | 61 | 39 | 56 | 34 | 44 | 22 | 52 | 36 | 51 | 29 | 39 | 24 | 40 | 17 |
| 12 | 50 | 41 | 59 | 43 | 53 | 42 | 51 | 44 | 57 | 46 | 54 | 46 | 55 | 44 | 53 | 42 | 54 | 39 | 56 | 26 | 58 | 37 | 56 | 34 | 54 | 23 | 48 | 16 |
| 13 | 56 | 48 | 61 | 50 | 59 | 48 | 61 | 48 | 60 | 51 | 58 | 50 | 59 | 52 | 63 | 46 | 59 | 47 | 60 | 40 | 62 | 44 | 63 | 38 | 59 | 34 | 58 | 24 |
| 14 | 57 | 39 | 50 | 37 | 58 | 43 | 60 | 41 | 60 | 44 | 60 | 43 | 58 | 43 | 60 | 41 | 57 | 34 | 57 | 39 | 58 | 41 | 58 | 45 | 51 | 43 | 52 | 36 |
| 15 | 46 | 32 | 45 | 35 | 44 | 31 | 48 | 34 | 58 | 39 | 50 | 34 | 50 | 35 | 51 | 32 | 43 | 33 | 53 | 32 | 53 | 34 | 53 | 32 | 54 | 37 | 51 | 33 |
| 16 | 45 | 31 | 42 | 32 | 50 | 24 | 42 | 33 | 52 | 34 | 44 | 31 | 52 | 33 | 40 | 32 | 35 | 29 | 35 | 29 | 40 | 28 | 39 | 27 | 37 | 30 | 38 | 29 |
| 17 | 51 | 32 | 45 | 30 | 53 | 26 | 43 | 35 | 56 | 30 | 48 | 36 | 54 | 32 | 41 | 32 | 38 | 30 | 36 | 24 | 40 | 29 | 39 | 30 | 41 | 31 | 40 | 28 |
| 18 | 65 | 38 | 61 | 38 | 71 | 36 | 63 | 34 | 63 | 39 | 63 | 37 | 64 | 40 | 61 | 31 | 55 | 30 | 50 | 26 | 54 | 29 | 49 | 29 | 46 | 30 | 44 | 27 |
| 19 | 54 | 46 | 59 | 50 | 61 | 45 | 58 | 41 | 54 | 40 | 56 | 42 | 55 | 43 | 58 | 39 | 60 | 44 | 55 | 28 | 60 | 42 | 58 | 39 | 55 | 28 | 56 | 23 |
| 20 | 60 | 45 | 52 | 40 | 58 | 36 | 50 | 40 | 57 | 42 | 55 | 43 | 59 | 42 | 50 | 37 | 55 | 39 | 51 | 31 | 52 | 38 | 54 | 41 | 49 | 30 | 52 | 25 |
| 21 | 53 | 38 | 50 | 37 | 56 | 42 | 47 | 42 | 54 | 42 | 50 | 43 | 56 | 42 | 48 | 39 | 44 | 35 | 48 | 25 | 46 | 40 | 50 | 35 | 48 | 28 | 46 | 24 |
| 22 | 50 | 33 | 48 | 35 | 52 | 34 | 42 | 34 | 47 | 37 | 45 | 38 | 51 | 34 | 39 | 36 | 40 | 35 | 49 | 32 | 41 | 35 | 42 | 32 | 49 | 27 | 45 | 27 |
| 23 | 51 | 33 | 50 | 34 | 53 | 31 | 45 | 38 | 54 | 32 | 48 | 40 | 50 | 34 | 46 | 36 | 49 | 35 | 47 | 30 | 46 | 34 | 43 | 32 | 45 | 31 | 45 | 28 |
| 24 | 61 | 38 | 54 | 34 | 63 | 32 | 51 | 40 | 57 | 34 | 58 | 41 | 59 | 39 | 49 | 37 | 42 | 33 | 63 | 30 | 62 | 36 | 58 | 36 | 61 | 29 | 59 | 22 |
| 25 | 62 | 40 | 56 | 35 | 68 | 33 | 56 | 41 | 67 | 32 | 58 | 43 | 60 | 42 | 52 | 38 | 46 | 34 | 63 | 31 | 64 | 38 | 59 | 39 | 58 | 38 | 58 | 25 |
| 26 | 65 | 47 | 65 | 40 | 70 | 39 | 59 | 43 | 70 | ..... | 60 | 44 | 64 | 46 | 59 | 41 | 67 | 44 | 70 | 38 | 65 | 41 | 67 | 39 | 70 | 35 | 68 | 25 |
| 27 | 71 | 50 | 67 | 48 | 79 | 46 | 70 | 52 | 71 | 46 | 71 | 50 | 70 | 50 | 73 | 53 | 70 | 50 | 72 | 44 | 73 | 45 | 75 | 53 | 75 | 38 | 75 | 30 |
| 28 | 71 | 57 | 60 | 48 | 75 | 56 | 71 | 58 | 73 | 48 | 71 | 57 | 71 | 57 | 71 | 58 | 70 | 57 | 78 | 44 | 76 | 52 | 78 | 56 | 78 | 45 | 77 | 36 |
| 29 | 68 | 55 | 60 | 54 | 71 | 56 | 68 | 56 | 71 | 50 | 69 | 57 | 70 | 56 | 70 | 58 | 68 | 58 | 80 | 48 | 75 | 51 | 80 | 49 | 80 | 45 | 80 | 34 |
| 30 | 71 | 58 | 65 | 48 | 72 | 59 | 69 | 60 | 73 | 58 | 72 | 60 | 73 | 58 | 72 | 59 | 67 | 55 | 76 | 52 | 74 | 57 | 73 | 55 | 80 | 52 | 78 | 38 |
| Mns. | 54.0 | 37.9 | 49.9 | 36.0 | 54.9 | 35.0 | 52.4 | 38.8 | 57.4 | a37.7 | 53.9 | 39.8 | 55.5 | 38.9 | 51.9 | 37.4 | 50.0 | 35.6 | 51.7 | 29.7 | 53.0 | 35.7 | 52.6 | 34.7 | 50.6 | 29.8 | 49.8 | 24.0 |

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.