CLIMATOLOGICAL DATA FOR MAY, 1911.

DISTRICT NO. 5, UPPER MISSISSIPPI VALLEY.

GEO. M. CHAPPEL, District Editor.

GENERAL SUMMARY.

With the exception of the first 4 or 5 days, May, 1911, was a very pleasant month, favorable for all outdoor occupations and the rapid growth of vegetation. A cool wave spread over the upper Mississippi Valley on the 1st and continued until the 5th. It was attended by snow flurries over a part of the northern half of the district on the 1st and by freezing temperatures and killing frost on the morning of the 2d over all sections, except the extreme southern portion of Illinois; but vegetation was not far enough advanced generally to be injured. After the 4th, in the northwestern, and the 5th, in the eastern sections, the weather was unusually warm, the temperature being above the normal, except on 2 or 3 days between the 5th and 31st. It was exceptionally warm during the last decade, when maximum temperatures above 95° were recorded on 1 or more days in all sections.

The conditions during the second and third decades of the month were probably the most favorable that were ever experienced in this section of the country for planting, rapid germination of seed, and the growth of vegetation. The only thing lacking, from the viewpoint of the agriculturist, to have made the conditions perfect, was a sufficient amount of rainfall over the southern and middle sections of the district. The deficiency of moisture was not, however, enough to cause any material damage until near the end of the month, and then only in the southern third of the district. On the other hand, there was an excess of rainfall for the month in the extreme northern sections, where the drought was the most severe in the summer of 1910; and at the close of the month vegetation and soil conditions were never better in North Dakota, at that season of the year.

TEMPERATURE.

There was an excess of temperature in all of the States of the upper Mississippi Valley, and in many localities the maximum temperature was higher than was ever before recorded during the month of May. The monthly means for the several States are as follows: North Dakota, 55.1°, Minnesota, 60.2°; Wisconsin, 61.4°; Iowa, 65.3°; Missouri, 68.6°; Indiana, 65.6°; and Illinois, 67.8°, and the average departures ranged from +3.2° in North Dakota to +6° in Indiana. The first 4 or 5 days were cold in all parts of the district, and freezing temperatures and killing frosts were general on the morning of the 2d, and light frost on the 3d and 4th, well toward the southern limits of Illinois. After the 5th, the temperature rose rapidly, and, except on 2 or 3 days, was above the normal over the middle and southern sections, during the remainder of the month; freezing temperatures, however, occurred on the 11th and 12th in North Dakota and northern Minnesota, and killing frost occurred in Wisconsin as late as the 13th. Most of the time during the last decade, the temperature was excessively high, maximum temperatures above 95° being recorded on 1 or more days in all sections, except North Dakota, where the maximum for the month was recorded on the 14th.

The monthly mean temperature for the district, as shown by the records of 293 stations, is 63°, which is 5.4° above the normal. The highest monthly mean was 72.4° at Cairo, Ill., and the lowest, 50.6°, at Willow City, N. Dak. The highest temperature was 101° at Carbondale, Ill., on the 28th, and the lowest, 8°, at McKinney, N. Dak., on the 2d.

PRECIPITATION.

The precipitation was below the normal in all of the States in the district, except North Dakota and Wisconsin, the excess being quite general in North Dakota, but was made up in Wisconsin by heavy rains over a strip extending from the northeastern to the southwestern corner of the State, the southeastern and northwestern counties reporting a deficiency for the month. In Minnesota there was less than the normal rainfall over the southwestern and west-central counties, but there was an excess over the southeastern, east-central, and northern counties. In Iowa there was quite a large area in the northeastern quarter of the State, where the rainfall was considerably above the normal; but from Dubuque County southward to Missouri and over the Des Moines River Valley there was a decided deficiency, and the average for the section was below the normal. In Missouri and Indiana it was below the average at all stations, and there were only two stations in Illinois that reported an excess. The average amounts, with the departures from the normal, for the various States, are as follows: North Dakota, 3.52 inches, +1.28 inches; Minnesota, 3.46 inches, −0.20 inch; Wisconsin, 4.80 inches, +0.85 inch; Iowa, 4.05 inches, −0.44 inch; Missouri, 1.73 inches, −3.13 inches; Indiana, 2.75 inches, −1.44 inches; Illinois, 2.13 inches, −1.99 inches. Over the southern, middle, and eastern sections there was more or less precipitation on the 1st, part of which was in the form of snow over the northern portion of the central sections; but there was little or no rain in North Dakota and northern Minnesota until after the 7th, when showers were frequent and well distributed, and the amounts of rainfall exceeded the average for those sections. In other States in the district showers were

generally light and scattered between the 7th and 15th; but from the 19th to 23d, and from the 27th to 31st, the showers were quite general and the rainfall copious. In fact, most of the rain fell during the latter half of the month, and at the close of the month all vegetation was in fine condition, except in southern Illinois, where droughty conditions prevailed.

The average precipitation for the district, as shown by the records of 309 stations, is 3.56 inches, which is 0.52 inch below the normal. The greatest amount, 8.73 inches, occurred at Fayette, Iowa, and the least, 0.22 inch, at Cairo, Ill. The greatest amount in 24 consecutive hours, 4.20 inches, occurred at New London, Minn., on the 15th.

The average depth of unmelted snowfall was 0.3 inch. The greatest depth was 7 inches, at Hannah, N. Dak., and at many stations in all sections none occurred. Measurable precipitation occurred on an average of 9 days.

SUNSHINE AND CLOUDINESS.

The average number of clear days was 16; partly cloudy, 9; cloudy, 6. The duration of sunshine was considerably above the normal.

WIND.

Southwest winds prevailed. The highest velocity reported was 48 miles per hour, from the northeast, at Devils Lake, N. Dak., on the 26th.

SEVERE LOCAL STORMS.

Mr. Clarence J. Root, section director at Springfield Ill., reports that damaging local storms occurred in Tazewell and Woodford Counties, Ill., on the 28th, and that reports of deaths and damage by lightning were received at various times from different places in that State.

Mr. M. L. Fuller, local forecaster, Peoria, Ill., has kindly furnished the following report on the storm of the 28th at Pekin, Tazewell County, Ill.:

About 2 p. m. of May 28, unusually severe thunderstorms visited portions of Tazewell County, Ill., with heavy local downpours of rain, causing floods and washouts in places, and with hail or wind reported from some points. At Pekin, Ill., damage was done by wind to an amount variously estimated at $25,000 to $50,000. Many trees in the city, some of them a foot to 18 inches in diameter, were blown down, one street being rendered temporarily impassable. A few awnings, plate-glass windows, and roofs of buildings were wrecked. Along the river a pumping station built of concrete blocks was demolished, a railroad depot unroofed, and two or three ice houses badly broken up. Near one of the ice houses, two boys, Clyde Sakers, aged 17 years, and Frank Woodley, aged 13, were killed by flying wreckage. A total of seven other persons in the city were more or less injured. The damage wrought was chiefly to larger or exposed trees and exposed portions of buildings. The greatest destruction was along the river bank which rises somewhat abruptly 15 feet or so above a level mile or two of bottom lands. All wreckage appears to have been scattered in the same general direction. Although reported in the press as a "cyclone," the storm appears to have been a straight blow accompanied by the usual thunder-squall roll of agitated wind cloud.

The following is an extract from an account of a severe local storm at Cedar Rapids, Iowa, on May 19, 1911, as published in the Republican of that city, on May 20:

The most destructive storm in many years struck west Cedar Rapids last evening at about 6.45 o'clock, and the damage done to property will run up into the thousands of dollars, not counting the destruction of shade and fruit trees. The storm track was about two blocks wide, and extended diagonally toward the river. There was plenty of warning, as the black-looking clouds plainly heralded the storm's approach. The gusts of wind became stronger, and, when in a sudden fury, the gale swept with resistless force, trees were snapped and twisted off as easily as if they were made of glass. Wires were tangled and broken, putting the telephone and light service completely out of commission. The whole northwest portion of the west side was cut off from telephonic communication and thrown into darkness by the wrecking of a pole carrying the supply and feed wires up Fourth Street and throwing them across the trolley wire of the street railway company, on G Avenue. Great damage was done to the buildings at the Alamo. The skating rink and several other buildings were blown down, and others were badly damaged. Much of the fence surrounding the park was also blown down. In the vicinity of Kenwood, and between there and Twentieth Street, the storm seemed to concentrate its fury, and the damage done to houses and property will amount to several hundred dollars. Barns were unroofed, and doors and trees were scattered all along the boulevard. The building of the King-Crown Plaster Co. was badly wrecked. The lower two stories were constructed of concrete blocks, and the upper stories of wooden framework. The whole wooden top was caved in on the south and west sides and rent asunder and the concrete blocks were crushed. Large pieces of the building were carried more than a block, and timbers and boards went as far as the river. Several courses of the concrete blocks were caved in by the force of the wind, and the whole building was rendered a mass of ruins. Much minor damage was done, but no lives were lost, although several people were injured, and one seriously.

RIVERS.

Rivers are still below the normal stage, but a rise occurred during the latter half of the month.

Owing to good rains in the headwaters, both the Mississippi and Wisconsin Rivers rose steadily from about the middle of the month to near the close. The Wisconsin at Wausau, Wis., rose from 3.9 feet, on the 12th, to 6.7 feet on the 24th, and at Portage, Wis., from 3.6 feet on the 11th to 7.9 feet on the 28th. The Mississippi at La Crosse, Wis., rose from 2.1 feet on the 19th to 5 feet on the 27th; at Prairie du Chien, Wis., from 2.5 feet on the 15th to 6.4 feet on the 31st, and at Dubuque, Iowa, from 3 feet on the 20th to 6.7 feet on the 31st. After a year of very low water this rise was of decided benefit to most river interests, but higher water is needed for navigation.—*J. H. Spencer, local forecaster.*

Mr. J. M. Sherier, local forecaster, in charge of the Davenport, Iowa, river district, reports as follows:

Steadily rising stages in this river district during the last decade of May resulted from copious rains over the extreme northern portion of the watershed about the middle of the month. At the end of the month the stage of the Mississippi River at Muscatine, Iowa, was still lower than the corresponding time in 1910, but gauge readings between Dubuque and Davenport, Iowa, were generally higher than those of a year ago. The reading of 4.6 feet at Davenport on the 31st was exactly the same as recorded on that date last year.

The following item relative to steamboat traffic, on the Mississippi River in the vicinity of Burlington, Iowa, appeared in the Times-Republican, Marshalltown, Iowa, on May 8:

With the river showing an increased stage of water the steamboat men are feeling more encouraged, and last week was marked by a general awakening in traffic circles. The *St. Paul* and *Quincy*, huge liners of the Streckfus Co., were taken to St. Louis for alterations, and Capt. Blair went South en route to New Orleans with a large party of excursionists on the *Morning Star*. The *Helen Blair* has resumed her place in the Burlington-Davenport trade, and the *Keokuk* has started daily service south of Keokuk. The *Black Hawk* is coming every day from the south, and later on the *Columbia* will probably be put in the trade establishing a daily service from Davenport to this city.

ENGINEERING NOTES.

Muck work is being done on the streams in Iowa, with the view of conserving and developing the water power. Plans are already drawn and work will begin as soon as possible on a 4,000 to 6,000 horsepower hydroelectric plant, 10 miles below Fort Dodge Iowa, on the Des Moines River. The plant will cost approximately $600,000, and the dam will be the second largest in the State, rivaled only by the one on the Mississippi River, at Keokuk, Iowa. The dam will be built after the plan of the big Spear Fish project, and will develop a 40 or 50 foot head of water. The banks on both sides of the river for some distance above the site of the dam are high, but

TABLE 1.—*Climatological data for May, 1911. District No. 5, Upper Mississippi Valley.*

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.
North Dakota.																				
Amenia	Cass	954	14	57.7	+ 3.1	90	14†	18	2	49	6.25	+ 3.52	2.25	0	6	17	1	13	nw.	C. E. Wood.
Bottineau	Bottineau	1,638	16	52.6	+ 0.9	86	17	16	1	49	2.28	+ 0.11	0.96	T.	12	14	6	11	se.	J. A. Kemp.
Cando	Towner	1,488	10	53.7[h]	+ 3.1	85	17	13	11	51[h]	2.67	+ 0.63	0.82	0	9	.....	.....	.....	.....	E. T. Judd.
Crosby	Divide	.....	5	51.6[h]	.....	88[h]	5	19[h]	2	51[h]	3.70	.....	1.17	T.	.....	.....	.....	.....	.....	H. C. Kaschau.
Devils Lake	Ramsey	1,482	6	54.0	+ 1.3	88	17	19	2	37	3.13	+ 0.93	0.84	T.	11	9	15	7	se.	U. S. Weather Bureau.
Donnybrook	Ward	1,760	12	53.3	+ 5.1	89	6	12	2	48	2.58	− 0.08	1.37	T.	9	16	9	6	nw.	C. J. De Vore.
Dunseith	Rolette	.....	14	52.8	− 0.8	85	5	15	1	52	1.92	+ 0.29	0.35	0	8	17	3	11	s.	L. H. Trowbridge.
Edmore	Ramsey	1,524	6	54.8	.....	92	17	17	1†	47	3.37	.....	1.10	0	11	16	12	3	n.	H. R. Aslakson.
Forman	Sargent	1,249	17	61.6	+ 6.1	99	14	20	2	44	2.37	− 0.30	1.00	0	6	14	9	8	nw.	A. Maltby.
Grafton	Walsh	827	20	56.6	+ 3.7	91	17	20	2	46	3.76	+ 2.02	1.02	T.	11	14	9	8	se.	A. R. T. Wylie.
Granville	McHenry	1,504	5	54.0	.....	92	13	13	2	48	1.73	.....	0.59	0	6	9	14	8	nw.	W. A. Christiansen
Hannah	Cavalier	1,568	6	50.8	.....	87	17	12	2	52	3.56	.....	0.69	7.0	9	11	10	10	s.	J. Moffatt.
Hansboro	Towner	.....	3	52.1	.....	86	17	14	1†	48	2.95	.....	0.80	T.	12	16	5	10	nw.	Geo. Dale.
Hillsboro	Traill	901	6	58.1	.....	89	17	21	2	50	6.49	.....	1.46	0	11	19	7	5	nw.	F. E. Mayall.
Lakota	Nelson	1,519	5	52.4	.....	85	17	18	1†	43	4.42	.....	1.40	0	12	13	13	5	se.	C. R. Pettes.
Langdon	Cavalier	1,615	16	50.8	.....	83	18	18	1	48	2.79	.....	0.79	0	10	16	0	15	nw.	J. Woolner.
Larimore	Grand Forks	1,134	16	55.6	+ 3.3	87	18	19	2	45	7.54	+ 5.50	1.99	0	13	18	4	9	.....	J. Dexter Pierce.
Lisbon	Ransom	1,091	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. K. Adams.
McKinney	Renville	1,640	17	53.2	+ 0.8	89	5	8	2	55	2.76	+ 0.86	1.25	0	7	13	8	10	se.	N. P. Swenson.
Manfred	Wells	1,605	10	55.2	.....	89	17	13	1	68	2.20	.....	0.43	0	9	18	2	11	se.	P. B. Anderson.
Mayville	Traill	975	15	63.3	+ 8.3	89	17	24	1	42	5.22	+ 2.57	1.41	T.	10	22	2	7	nw.	W. C. Gould.
Minot	Ward	1,557	13	54.8	+ 1.6	88	6	13	2	48	2.09	− 0.37	0.70	0	9	21	2	8	e.	J. J. Bates.
Minto	Walsh	820	18	59.0[d]	+ 5.4	90	17	30	12	48[e]	5.03	+ 2.96	2.00	0	10	14	10	7	s.	S. S. Marsh.
Oriska	Barnes	1,270	6	57.3	.....	88	17	20	2	50	6.59	.....	2.18	0	8	19	7	5	n.	W. E. Williams.
Park River	Walsh	998	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Heyward.
Pembina	Pembina	789	13	54.2	.....	88	17	16	2	47	5.18	.....	1.80	.....	12	15	2	14	sw.	C. W. Shumaker.
Power	Richland	1,020	19	58.1	+ 3.3	95	17	16	2	46	5.02	+ 2.62	1.65	0	6	16	5	10	nw.	J. A. Power.
Pratt	McHenry	.....	6	53.8	.....	89	13	12	2	66	1.67	.....	0.49	0	8	16	8	7	nw.	W. B. Ahern.
Towner	....do	.....	3	55.1	.....	88	13†	12	1	51	1.90	.....	0.51	0	7	15	11	5	nw.	B. Bagley.
University	Grand Forks	830	19	57.1	+ 3.4	89	17	18	2	49	3.28	+ 0.74	1.02	0	12	19	7	5	n.	H. E. Simpson.
Wahpeton	Richland	962	19	58.4	+ 1.9	92	17	18	2	48	1.41	− 1.50	1.04	0	5	18	7	6	nw.	E. G. Burch.
Walhalla	Pembina	966	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. H. Lee.
Westhope	Bottineau	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. W. Clark.
Willow City	....do	1,471	18	50.6	.....	88	17	10	1†	61	1.59	.....	0.39	0	8	10	14	7	nw.	M. A. Ostby.
Minnesota.																				
Albert Lea	Freeborn	1,229	20	63.2	+ 5.6	91	25	29	3	39	4.90	+ 0.68	1.70	T.	8	14	16	1	se.	Edward Carey.
Alexandria	Douglas	1,391	17	60.2	+ 6.5	93	18	26	3	46	2.54	− 0.74	1.20	0	11	13	3	15	nw.	P. O. Unumb.
Angus	Polk	870	9	56.0	.....	90	17	15	2	49	2.71	.....	0.85	1.0	11	18	7	6	n.	John Nadvornik.
Bagley	Clearwater	.....	5	55.4	.....	89	17	18	3	53	3.63	.....	1.00	2.0	10	8	18	5	sw.	Jens. Nelson.
Beardsley	Bigstone	1,090	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Roy A. Smith.
Beaulieu	Mahnomen	1,200	9	59.0	.....	89	17†	18	3	47	5.36	.....	2.20	2.0	8	12	13	6	w.	Dr. P. A. Slattery.
Bird Island	Renville	1,039	21	62.1	+ 5.8	94	26	19	2	53	2.05	− 1.10	0.68	0	7	15	10	6	nw.	Dr. F. L. Puffer.
Caledonia	Houston	1,179	18	63.0	+ 6.0	90	26	28	2	29	5.04	+ 0.21	1.55	6.0	14	20	5	6	sw.	W. D. Belden.
Campbell	Wilken	984	2	58.8	.....	96	14	15	2	54	4.17	.....	1.10	0	10	17	2	12	nw.	J. T. Neisess.
Cass Lake	Cass	1,300	4	.....	.....	.....	.....	.....	.....	.....	5.45	.....	2.00	0	5	.....	.....	.....	.....	C. W. Burns.
Collegeville	Stearns	1,282	18	62.7	+ 6.8	89	10†	28	1†	43	3.62	+ 0.74	2.16	0	8	19	6	6	nw.	Fridolin Tembreul.
Crookston	Polk	863	21	56.9	+ 3.6	89	17	21	1†	42	3.81	+ 0.93	0.56	.....	11	13	5	13	n.	A. G. Andersen.
Detroit	Becker	1,364	15	58.9	+ 6.4	96	26	18	3	51	3.18	− 0.50	1.10	.....	7	14	11	6	nw.	G. W. Peoples.
Ely	St. Louis	.....	.....	55.8	.....	89	25	25	1	44	3.90	.....	0.78	0	12	18	2	11	e.	Rev. W. H. Farrell.
Fairmont (near)	Martin	1,240	24	62.5	+ 6.2	89	17†	28	2	37	1.57	− 2.65	0.36	1.0	8	14	13	4	s.	W. F. Wherland.
Faribault	Rice	1,003	14	62.8	+ 6.2	91	10†	28	2†	42	2.95	− 0.53	1.15	0	10	17	9	5	sw.	Dr. A. C. Tanner.
Farmington	Dakota	902	23	64.2	+ 8.0	94	18	27	2	45	2.89	− 0.61	1.06	0	10	15	7	9	sw.	E. D. Akin.
Fergus Falls	Ottertail	1,210	19	60.8	+ 5.8	90	26	22	2	37	3.11	− 0.04	1.62	0	9	13	14	4	n.w.	C. E. Kissinger.
Fort Ripley	Crow Wing	1,136	4	60.0	.....	94	26	21	3	54	3.40	+ 0.24	1.30	0	6	20	2	9	n.	J. J. Tucker.
Fosston	Polk	1,289	2	56.8	.....	87	17	18	2	43	4.72	.....	1.46	1.9	13	15	13	3	nw.	O. N. Hem
Fram	Marshall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. W. Clark.
Glencoe	McLeod	1,000	15	63.6	+ 7.6	91	17†	26	2†	46	1.64	− 2.35	0.50	0	6	19	11	1	s.	F. B. Reed.
Grand Meadow	Mower	1,338	23	61.4	+ 6.1	90	17†	26	1	41	6.57	+ 1.80	3.73	2.0	9	15	9	7	s.	C. F. Greening.
Gull Lake Dam	Cass	1,215	.....	61.5	.....	93	25	25	3	51	2.29	.....	0.88	0	8	14	16	1	s.	G. A. Williams.
Hallock	Kittson	815	12	55.7	+ 3.2	88	17	17	2	50	4.34	+ 1.90	1.30	.....	10	13	5	13	s.	D. A. Robertson.
Halstad	Norman	870	5	56.8	.....	89	17	15	2	48	5.76	.....	1.68	0	9	15	7	9	se.	A. G. Holstrom.
Hinckley	Pine	1,050	6	58.8	.....	91	26	24	2	47	3.79	.....	1.10	0	7	13	10	8	sw.[b]	W. R. Newman.
International Falls	Koochiching	1,112	3	56.0	.....	92	17	22	1	46	2.07	.....	0.48	T.	7	15	8	8	ne.	Rees Roe.
Itasca State Park	Clearwater	1,500	.....	60.4[d]	.....	96	18	19	3	53[d]	4.93	.....	2.00	.....	12	.....	.....	.....	sw.[b]	J. A. Stillwell.
Kelliher	Beltrami	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Gilmour.
Lake Crystal	Blue Earth	.....	4	62.8	.....	91	26	28	2	35	2.30	.....	0.85	0	10	17	12	2	nw.	W. P. Cobb.
Leech Lake Dam	Cass	1,301	23	56.2	+ 5.5	88	17†	19	4	49	3.93	+ 0.59	1.35	0	12	5	22	4	w.	Hans Olson.
Litchfield	Meeker	1,134	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	N. Y. Taylor.
Little Fork	Koochiching	.....	.....	54.8	.....	92	17	15	3	54	1.73	.....	0.60	0	7	16	12	3	.....	O. C. Olson.
Long Prairie	Todd	1,299	19	60.6	+ 6.2	96	26	21	2	51	2.33	− 0.91	1.33	0	3	11	13	7	s.	A. L. Sheets.
Lynd	Lyon	1,175	19	61.8	+ 5.8	93	19	23	3	46	1.69	− 2.12	0.55	0	5	22	8	1	sw.	J. W. Rouse.
Mankato	Blue Earth	758	12	.....	.....	.....	.....	.....	.....	.....	2.48	− 1.10	0.90	T.	7	18	7	6	sw.	Sadie H. Blake.
Maple Plain	Hennepin	1,023	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. W. Richards.
Milaca	Millelacs	1,072	13	56.8[e]	+ 3.2	91	26	22	2	47[e]	4.66	+ 1.46	2.78	0	6	11[e]	14[e]	3[e]	nw.[e]	C. H. Foss.
Milan	Chippewa	955	17	61.4	+ 5.0	94	17†	20	2	46	1.05	− 2.25	0.35	0	7	3	26	2	se.	O. K. Opjorden.
Minneapolis	Hennepin	918	20	63.6	+ 6.1	92	26	30	2	39	4.10	+ 0.18	2.10	0	9	10	11	10	s.	U. S. Weather Bureau.
Montevideo	Chippewa	900	21	62.6	+ 6.3	97	18	23	2†	50	1.25	− 2.15	0.42	0	9	14	11	6	nw.	L. G. Moyer.
Moorhead	Clay	935	30	58.0	+ 3.2	93	26	21	2	49	3.92	+ 0.97	1.02	0.2	11	15	9	7	nw.	U. S. Weather Bureau.
Mora	Kanabec	.....	6	58.8	.....	96	18	23	3	57	4.03	.....	1.48	0	11	18	10	3	nw.	Hans Peterson.
Morris	Stevens	1,170	26	61.3	+ 5.8	93	10†	18	2	52	3.72	+ 0.75	2.85	0	9	22	6	3	s.	D. T. Wheaton.
New London	Kandiyohi	1,215	17	59.0	+ 4.0	90	10†	26	1	35	6.31	+ 3.24	4.20	0	8	20	10	1	sw.	Harold Swensen.
New Richland	Waseca	1,180	17	64.0	+ 6.6	90	17†	27	2	41	4.08	.....	1.95	.....	9	13	17	1	s.	N. O. Tyrholm.
New Ulm	Brown	791	31	63.3	+ 3.8	95	26	27	3	48	2.85	− 0.69	0.68	0	11	20	0	11	s.	A. L. Henle.
Osakis	Douglas	1,343	4	60.1	.....	92	26	21	3	42	2.24	.....	1.27	0	6	15	12	4	s.	J. B. Johnson.
Park Rapids	Hubbard	1,426	21	56.4[d]	+ 4.1	92	26	21	2	46[e]	3.16	− 0.05	1.03	.....	14	13[d]	2[d]	12[d]	nw.	Dr. P. A. Walling.
Pine River Dam	Crow Wing	1,251	24	58.6	+ 6.5	91	26	21	1†	50	2.42	− 1.12	0.78	0	5	13	11	7	s.	Neil McKay.
Pokegama Falls	Itasca	1,280	24	56.2	+ 6.0	88	17†	19	2	48	3.50	+ 0.18	1.21	0	9	16	9	6	se.	A. L. Mampel.
Red Lake	Beltrami	1,152	3	56.8	.....	90	17	28	2†	44	2.07	.....	0.50	0	6	5	22	4	w.	A. C. Goddard.
Red Wing	Goodhue	680	15	.....	.....	.....	.....	.....	.....	.....	3.28	− 0.51	1.50	0	10	14	5	12	sw	Louis Bach.
Redwood Falls	Redwood	1,050	4	64.6	.....	94	17†	26	2	46	1.16	− 2.92	0.34	0	6	23	6	2	se.	N. B. Andersen.
Reeds Landing	Wabasha	681	16	.....	.....	.....	.....	.....	.....	.....	3.98	− 0.02	1.56	0	7	20	0	11	nw.	John Deschneau.
Rochester	Olmstead	991	6	63.3	.....	91	17	30	3	48	4.17	.....	1.22	0	7	16	2	13	s.	S. R. Case.
Roseau	Roseau	1,040	3	56.3	.....	90	17	18	2	51	3.52	.....	0.70	0	10	23	0	8	sw.	A. Waag.
St. Charles	Winona	850	20	63.4	+ 7.4	90	18	27	3†	41	4.33	+ 0.67	1.10	2.0	11	19	7	5	n.	S. W. Gleason.

TABLE 1.—*Climatological data for May, 1911. District No. 5*—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.
Minnesota—Continued.																				
St. Cloud	Sherburne	1,020	33	62.7	+ 6.6	92	10†	26	2	49	5.86	+ 2.16	2.41	0	8	15	10	6	se.	J. H. Capser.
St. Paul	Ramsey	837	40	62.7	+ 4.5	90	17	29	2	37	3.99	+ 0.37	2.34	0	9	10	18	3	s.	U. S. Weather Bureau.
St. Peter	Nicollet	825	17	64.4	+ 7.0	89	18†	25	3	43	3.57	− 0.09	1.90	0	7	14	10	7	s.	F. W. Kruger.
Sandy Lake Dam	Aitkin	1,234	18	53.8	+ 1.8	84	25	21	2	38	3.47	+ 0.34	1.63	0	8	8	17	6	sw.	A. Newstrom.
State Sanatorium	Cass		3	58.9		89	17†	24	2	38	3.95		1.27	0	13	18	9	4	e.	Dr. W. J. Marcley.
Stillwater	Washington	694	6								2.04		7.64	0	13	15	6	10	sw.	Oscar Ostrom.
Taylors Falls	Chisago	759	4	62.7		92	18	23	3	48	3.39		1.60	0	8	14	10	7	s.	Minneapolis Gen. Elec. Co.
Warroad	Roseau	1,069	2	55.2		89	17	14	3	49	3.12		0.78		8	17	7	7	e.	J. H. Sawyer.
West Concord	Dodge	1,232	3	62.7		90	17	27	2†	44	4.09		1.33	1.0	7	11	15	5	se.	H. H. Orcutt.
Winnebago	Faribault	1,100	12	64.4	+ 6.6	95	18	27	3	48	2.43	− 2.13	0.85	3.0	11	15	12	4	se.	H. H. Haight.
Winnibigoshish	Itasca	1,300	23	57.7	+ 6.2	89	17	26	1†	43	4.11	+ 0.19	1.04	0	14	18	7	6	nw.	John Duncan.
Winona	Winona	700	15	66.1	+ 6.7	94	26†	29	2	46	4.02	− 0.77	1.33	3.0	9	16	6	9	s.	P. C. Myers.
Worthington	Nobles	1,593	16	62.0	+ 6.0	90	9†	26	2	46	2.43	− 1.54	1.04	0	7	20	5	6	s.	M. P. Manu.
Zumbrota	Goodhue	917	15	62.8	+ 5.3	89	18	27	3	43	5.39		2.65		9	15	13	3	nw.	W. C. Rowell.
South Dakota.																				
Milbank	Grant	1,148	20	60.4	+ 4.9	95	17†	17	2	55	1.52	− 1.88	0.46	0	7	17	3	11	nw.	I. T. Patridge.
Wisconsin.																				
Antigo	Langlade	1,489	17	58.7	+ 4.8	89	26	19	2	44	5.47		1.14	1.0	10	16	5	10	se.	Elton C. Larzelere.
Barron	Barron	1,115	20	60.1	+ 7.2	88	26	22	2†	45	3.68	− 0.61	1.20	0	10	18	12	1	sw.	Wm. A. Kent.
Beloit	Rock	750	45	64.2	+ 5.5	89	27	29	2	31	2.71	− 0.85	0.83	0	5	23	0	8	s.	Smith Observatory.
Big St. Germain Dam	Vilas	1,590	1	57.7		91	26	13	2	49	4.08		0.75	0	15	14	11	6	sw.	Oscar Brehmer.
Brodhead	Green	812	13	65.0	+ 5.8	92	25†	26	2	38	2.98	− 0.85	0.72	T.	8	18	11	2	sw.	Hector D. Kirkpatrick.
Burnett	Dodge	880	7	61.9		87	26†	27	2	33	4.75		0.77	T.	13	12	10	9	sw.	Geo. W. Smith.
Cottage Grove	Dane	888									4.04		1.87	T.	9	14	9	8	sw.	John E. Mellish.
Darlington	Lafayette	867	5	63.3		91	26†	24	2	49	4.05		1.10	0	7	13	14	4	se.	S. P. Nelson.
Deerskin Dam	Forest	1,625	1	54.6		90	26	12	2	51	7.28		1.42	0	15	11	16	4	sw.	Wm. E. O'Neal.
Delavan	Walworth	920	20	64.0	+ 6.5	93	26	26	2	41	1.47	− 2.36	0.45	T.	11	16	10	5	sw.	Elwood S. Austin.
Dodgeville	Iowa	1,116	11																	Geo. H. Butler.
Downing	Dunn	983	9	60.9[d]		90[d]	17†	20[d]	4	49[d]	4.44[d]		1.30[d]	T.	6[e]	3[e]	8[e]	17[e]	w.	Eugene F. Stoddard.
Eau Claire	Eau Claire	800	20	63.5	+ 6.5	92	26	27	2	43	5.52	+ 1.15	1.76	T.	15	15	14	2	sw.	Robert D. Whitford.
Grand Rapids	Wood	1,021	12	61.1	+ 4.8	91	26	21	2	44	6.93	+ 2.76	1.23	T.	14	16	5	10	s.	Willis B. Raymond.
Grantsburg	Burnett	1,095	20	61.2	+ 6.6	94	25	20	2	49	3.15	− 0.96	1.35	0	8	11	8	12	sw.	Theodore Olsen.
Hancock	Waushara	1,091	19	63.2	+ 6.6	93	26	23	2	41	7.40	+ 3.40	1.85	T.	14	14	7	10	sw.	Frederick B. Hamilton.
Hatfield	Jackson	973	17	60.4	+ 1.6	92	26	20	2	45	7.55	+ 2.92	1.72	0.2	13	11	13	7	w.	Walter S. Woods.
Hayward	Sawyer	1,197	20	59.2	+ 6.0	91	26	18	3	45	2.93	− 0.64	1.00	0	9	11	6	14	s.	William E. Swain.
Hillsboro	Vernon	1,000	20	61.0	+ 5.4	91	25	21	2	44	6.37	+ 2.03	1.55	1.0	12	14	11	6	sw.	Emil V. Wernick.
Koepenick	Langlade	1,683	20	57.0	+ 2.5	87	26	13	2	46	4.82	+ 1.20	0.90	2.0	12	0	24	7	sw.	Edward S. Koepenick.
Lac du Flambeau	Vilas		1	59.2		93	26	22	2	39	4.57		1.74	0	10	17	5	9	s.	W. J. Lovett.
La Crosse	La Crosse	714	39	64.2	+ 4.7	91	26	26	2	36	5.20	+ 1.45	1.53	5.2	13	9	12	10	se.	U. S. Weather Bureau.
Lake Mills	Jefferson	897	20	63.6	+ 6.6	91	27	27	2	35	2.96	− 1.19	0.90	0.4	10	12	15	4	sw.	S. Newton Dexter Smith.
Lancaster	Grant	1,070	20	64.4	+ 6.2	90	25†	26	2	35	5.74	+ 1.39	2.63	0	10				sw.	Edward Pollock.
Long Lake	Oneida	1,592	3	56.5		92	26	9	2	55	4.88		0.95	0	18	17	6	8	s.	Louie Frank.
Madison	Dane	974	42	63.4	+ 5.8	88	26	31	2	30	2.63	− 0.99	0.63	T.	10	12	10	9	sw.	U. S. Weather Bureau.
Mather	Juneau	962	7	61.2		91	26	16	2	41	7.49		1.08	T.	14	11	9	11	w.	Frank Evans.
Mauston	do	882	15	63.5	+ 7.4	90	26	27	2	41	7.12	+ 2.76	1.50	T.	12	16	9	6	sw.	Eugene L. Hitchcock.
Meadow Valley	do	974	20	61.6	+ 5.4	91	26	13	2	44	6.39	+ 2.10	0.88	4.0	12	6	24	1	se.	Charles H. Johnson.
Medford	Taylor	1,420	22	59.8	+ 5.9	88	26	20	2	42	5.60	+ 1.34	1.80	0	9	22	6	3	w.	Wm. Zeit.
Merrill	Lincoln	1,267	5																	Wm. T. Hunter.
Minocqua	Oneida	1,604	7	58.0		91	26	18	2	45	3.84		0.80	0	18	12	13	6	s.	Benjamin W. Applebee.
Mondovi	Buffalo	738	3	62.6		91	17	26	4	44	5.86		2.25	0.5	12	13	13	5	sw.	Dr. Charles Hebard.
Mount Horeb	Dane	1,226	7	63.1		88	25†	22	2	33	3.33		0.82	T.	7	18	2	11	s.	W. M. Lewis.
Muscoda	Grant	666	2	65.7		95	25	25	2	46	3.72		0.91	0	10	15	7	9	s.	Wm. Hessler.
Neillsville	Clark	996	21	62.6	+ 7.1	94	26	22	2	45	7.56	+ 3.32	1.59	T.	10	14	1	16	nw.	Wm. Heaslett.
New Richmond	St. Croix	990	6	62.2		93	17†	24	6	52	2.59		0.67	0	13				sw.	Franc A. R. Van Meter.
Osceola	Polk	806	20	60.8	+ 6.2	92	25	20	5	60	2.93	− 1.34	1.55	0	7	11	9	11	s.	Charles W. Staples.
Park Falls	Price	1,492	20	57.8		91	26	15	2	48	3.10		0.87	0	13	4	22	5	nw.	Flambeau Paper Co.
Portage	Columbia	809	22	64.7	+ 6.0	91	25†	27	2	42	6.16	+ 2.15	1.47	T.	10	19	8	4	sw.	James H. Martin.
Port Edwards	Wood	969	1	66.2		92	26	26	2	36	6.68		1.20	0	11	8	0	23	nw.	Nekoosa-Edwards Paper Co.
Prairie du Chien	Crawford	690	20	64.7	+ 4.3	94	25	28	3	44	4.83	+ 0.50	1.28	T.	11	15	3	13	s.	James A. Gillis.
Prentice	Price	1,551	13	56.6	+ 4.0	87	26†	16	2	44	4.53	+ 0.95	1.55	0.2	8	12	5	14	s.	Joseph G. Lash.
Rhinelander	Oneida	1,550	5	59.4		90[d]	26	18	2	46	5.89		1.96	T.	16	11	7	13	sw.	Rhinelander Power Co.
Sauk City	Sauk	758	3	65.2		95	19	22	2†	41	4.50		1.82	T.	4	13[e]	11[e]	4[e]		Kilien Derleth.
Shullsburg	Lafayette	1,019	5	63.6		87	10†	25	2	39	3.95		1.32	T.	8	16	7	8	sw.	Harrison B. Chamberlain.
Solon Springs	Douglas	1,083	5	56.5		93	26	18	4	51	3.80		1.20	0	8	13	4	14	sw.	John M. Sayles.
Spooner	Washburn	1,104	17	60.2	+ 5.7	90	18†	23	1†	41	2.94	− 0.58	0.80	T.	12	13	9	9	s.	Horace A. Bresee.
Stanley	Chippewa	1,082	7	60.7		88	26	23	2	40	4.60		0.85	1.0	10	16	10	5	nw.	W. Humphrey Scott.
Stevens Point	Portage	1,113	18	61.6	+ 5.4	92	27	14	2	45	5.99	+ 1.90	2.10	2.0	10	16	9	6	nw.	Garry E. Culver.
Sugar Camp Dam	Oneida	1,582	1								3.67		0.80	0	14				s.	Robert Hayes.
Twin Lakes Dam	Vilas	1,625	1								5.44		1.30	0	12	12	12	7	nw.	Albert D. Hansen.
Valley Junction	Monroe	930	19	62.4	+ 6.1	92	26	20	2	41	8.10	+ 3.13	1.21	3.0	15	12	10	9	se.	Frederick Muermann.
Viroqua	Vernon	1,412	21	64.2	+ 7.4	88	25†	30	1†	33	5.59	+ 0.73	1.30	1.0	14	12	12	7	s.	Henry E. Rogers.
Vudesare	Vilas	1,600	3	55.4		90	26	12	2	48	4.32		1.02	0.5	10	19	11	1	w.	Louis L. Thomas.
Watertown	Jefferson	824	20	63.3	+ 6.5	90	27	27	2	34	3.19	− 0.63	0.90	T.	10	15	13	3	s.	Charles J. Salick.
Waukesha	Waukesha	864	20	63.0	+ 5.8	92	25†	25	2	38	1.80	− 1.85	0.58	T.	6	11	19	1	sw.	Carroll College.
Wausau	Marathon	1,212	16	60.4	+ 5.0	90	26	21	2	40	6.03	+ 1.92	0.98	T.	12	15	9	7	s.	George H. Halder.
Weyerhaeuser	Rusk	1,297	9	58.7		89	18†	19	2	46	3.85		1.25	0	12	14	14	3	sw.	Miss Etta Stiles.
Whitehall	Trempealeau	675	20	63.3	+ 6.3	90	26†	24	3	43	6.90	+ 2.84	1.60	0	9	17	0	14	nw.	Hans J. Haugh.
Iowa.																				
Albia	Monroe	959	13	66.8	+ 5.8	92	25†	32	2	38	4.52	+ 0.19	1.13		13	15	8	8	sw.	J. I. Chenoweth.
Algona	Kossuth	1,213	37	64.2	+ 4.7	90	10†	30	1†	34	5.17	+ 1.49	2.12	2.0	9	22	3	6	s.	Dr. F. T. Seeley.
Alta	Buena Vista	1,513	20	63.6	+ 5.6	92	25	29	1	38	3.27	− 1.51	1.44	1.5	9	17	11	3	s.	David E. Hadden.
Amana	Iowa	721	35	65.8	+ 5.8	91	25†	30	2	36	4.35	− 0.05	0.88	T.	13	17	9	5	se.	C. Schadt.
Ames	Story	926	35	66.6	+ 7.1	94	18†	32	1†	38	7.04	+ 2.72	1.59		14				s.	Iowa State College.
Baxter	Jasper	998	11	65.8	+ 5.4	95	8†	30	2	37	4.60	− 0.60	1.53	T.	14	16	10	5	sw.	W. R. Vandike.
Belle Plaine	Benton	828	21	65.3	+ 5.8	93	25	29	2	36	4.04	− 0.62	1.06	T.	15	15	12	4	se.	S. P. Van Dike.
Belmond	Wright		1	63.4		91	25	29	3	37	4.61		1.65	1.4	8	7	15	9	sw.	Geo. P. Hardwick.
Bloomfield	Davis		4			94[h]	24†			41[h]										Albert Power.
Bonaparte	Van Buren		20	67.0	+ 4.7	91	25	30	2	38	2.61	− 1.42	0.84		9					Hon. B. R. Vale.
Boone	Boone	1,134	6	65.4		93	25	31	1†	39	6.07		1.57		11	19	6	6	s.	Carl Fritz Henning.
Britt	Hancock	1,236	14	62.8	+ 4.8	91	25	29	2†	39	5.17	+ 0.91	1.66		12	16	11	4	s.	L. M. Goodman.
Buckingham	Tama		11								5.62	+ 1.82	1.46		9					J. S. Guynn.

TABLE 1.—*Climatological data for May, 1911. District No. 5*—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.
Iowa—Continued.																				
Burlington	Des Moines	544	15	67.6	+ 3.8	95	25†	31	2	40	1.23	− 2.62	0.35	.....	11	20	4	7	sw.	Max E. Poppe, jr.
Carroll	Carroll	1,265	21	63.7	+ 4.8	92	24	28	1	36	3.05	− 1.51	0.70	.....	10	18	5	8	nw.	Mrs. Jos. J. Wolfe.
Cedar Rapids	Linn	733	29	66.2	+ 6.2	95	25†	31	4	35	3.64	− 0.94	1.08	T.	12	23	1	7	s.	R. S. Toogood.
Charles City	Floyd	1,015	20	63.4	+ 3.9	91	25	30	1	35	5.87	+ 0.93	1.50	2.0	12	6	13	12	sw.	U. S. Weather Bureau.
Clear Lake	Cerro Gordo	1,241	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Oscar Stevens.
Clinton	Clinton	593	44	66.2	+ 6.0	93	25†	28	2	40	2.15	− 1.91	1.12	.....	7	17	11	3	s.	Luke Roberts.
Columbus Junction	Louisa	595	10	67.3	+ 5.1	93	25	31	2	35	2.26	− 1.62	0.58	.....	7	24	5	2	s.	J. B. Johnston.
Davenport	Scott	580	40	68.0	+ 6.5	93	25	33	2	34	2.25	− 1.94	1.33	0	9	17	9	5	sw.	U. S. Weather Bureau.
Decorah	Winnishiek	875	18	64.6	+ 5.4	97	25	23	3	41	5.69	+ 1.02	0.99	.....	11	.....	.....	.....	.....	F. H. Baker.
Delaware	Delaware	1,083	20	64.4	+ 6.1	89	25†	28	2	34	5.33	+ 1.14	1.53	.....	10	15	13	3	s.	William Ball.
Des Moines	Polk	861	33	65.9	+ 4.3	93	25	34	1	36	2.44	− 2.12	0.65	T.	11	7	9	15	sw.	U. S. Weather Bureau.
Dubuque	Dubuque	639	38	65.9	+ 5.1	91	25	31	2	31	2.84	− 1.48	0.83	T.	12	12	12	7	s.	Do.
Earlham	Madison	.....	9	65.4	.....	91	10†	31	2	42	3.25	.....	1.34	T.	8	15	4	12	s.	George Phillips.
Elkader	Clayton	727	32	65.7	+ 5.2	94	26	27	2†	44	5.69	+ 1.55	1.27	0.5	13	17	11	3	se.	Chas. Reinecke.
Elma	Howard	.....	2	62.7	.....	90	25†	26	3	40	5.02	.....	1.20	4.0	12	9	20	2	se.	H. A. Moore.
Estherville	Emmet	1,298	16	62.4	+ 5.2	92	17	29	2†	43	2.76	− 1.42	1.10	.....	9	25	0	6	s.	A. O. Peterson.
Fairfield	Jefferson	.....	27	67.0	+ 6.8	91	25	33	2	32	2.55	− 2.73	0.52	0	11	20	7	4	sw.	R. Monroe McKenzie.
Fayette	Fayette	1,003	21	63.4	+ 6.0	90	25†	27	2	40	8.73	+ 3.94	1.90	.....	13	17	7	7	sw.	R. Z. Latimer.
Forest City	Winnebago	1,226	17	63.4	+ 5.1	93	25	29	2†	42	4.62	+ 0.23	1.75	1.0	8	15	10	6	s.	J. A. Peters.
Fort Dodge	Webster	1,126	11	64.8	+ 4.8	98	25	30	1	41	4.71	+ 0.16	2.00	0.5	9	16	5	10	s.	J. F. Monk.
Fort Madison	Lee	516	62	.....	.....	.....	.....	.....	.....	.....	2.79	− 1.61	1.78	.....	5	9	16	6	sw.	Miss L. A. McCready.
Gilman	Marshall	1,052	12	.....	.....	.....	.....	.....	.....	.....	4.29	+ 0.47	1.08	.....	8	.....	.....	.....	.....	J. L. Wylie.
Grand Meadow	Clayton	1,180	20	63.6	+ 5.5	87	25†	30	1†	38	5.65	+ 0.79	1.24	2.0	13	13	12	6	se.	F. L. Williams.
Greene	Butler	.....	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. L. Cole.
Grinnell	Poweshiek	1,023	19	65.9	+ 6.2	93	25	30	2	37	3.47	− 1.12	0.73	T.	14	17	8	6	sw.	D. W. Brainard.
Grundy Center	Grundy	976	20	65.3	+ 6.8	98	27	30	1	40	6.38	+ 1.22	1.80	.....	11	21	0	10	s.	J. B. Calderwood.
Guthrie Center	Guthrie	1,077	16	65.2	+ 4.6	93	25	31	2	38	4.96	− 0.00	2.12	T.	10	17	5	9	sw.	D. G. Beardsley.
Hampton	Franklin	1,155	21	64.6	+ 6.3	93	25	29	1	38	5.50	+ 0.92	2.20	0	10	11	15	5	sw.	E. C. Grenelle.
Humboldt	Humboldt	1,095	23	64.6	+ 5.2	93	25	29	2†	40	3.49	− 0.87	1.79	.....	8	22	7	2	sw.	Henry S. Wells.
Independence	Buchanan	921	47	64.6	+ 5.4	90	25	30	2	35	5.58	+ 1.42	2.25	T.	9	21	5	5	s.	R. E. Dudley.
Indianola	Warren	969	20	66.3	+ 5.6	92	25	33	2	35	2.53	− 2.11	0.75	T.	11	10	9	12	sw.	Prof. J. L. Tilton.
Iowa City	Johnson	683	51	64.8	+ 4.5	91	25	30	2†	35	4.74	+ 0.37	1.70	.....	11	16	1	14	sw.	Prof. A. G. Smith.
Iowa Falls	Hardin	1,170	18	63.1	+ 4.4	92	25	28	3	40	5.21	+ 1.01	1.08	1.5	11	18	3	10	sw.	J. B. Parmelee.
Jefferson	Greene	.....	12	66.4	.....	94	25	31	2	42	3.38	− 1.63	0.83	0	8	.....	.....	.....	se.	M. E. Hall.
Keokuk	Lee	547	40	70.2	+ 7.0	94	25	35	2	34	0.42	− 3.93	0.23	0	6	17	12	2	s.	U. S. Weather Bureau.
Keosauqua	Van Buren	644	19	67.1	+ 4.5	95	25†	30	2†	44	2.14	− 2.23	0.59	.....	10	7	16	8	.....	J. H. Landes.
Knoxville	Marion	920	16	66.6	+ 4.4	92	25	33	2	38	3.37	− 0.20	1.35	.....	9	12	10	9	sw.	Casey & Bellville.
Lacona	Warren	.....	12	.....	.....	.....	.....	.....	.....	.....	3.56	− 1.66	1.48	0	14	5	20	6	.....	J. B. Alter.
Le Claire	Scott	576	11	.....	.....	.....	.....	.....	.....	.....	2.62	− 1.17	1.41	0	11	.....	.....	.....	.....	Miss M. T. Disney.
Marshalltown	Marshall	947	19	66.2	+ 6.5	94	25	31	2	38	6.96	+ 2.23	2.30	.....	16	17	6	8	s.	Ralph B. Reasoner.
Mason City	Cerro Gordo	1,132	14	63.1	+ 4.7	91	25	28	3	38	5.38	+ 0.72	1.68	.....	9	15	11	5	s.	J. S. Mills.
Mount Pleasant	Henry	729	30	67.0	+ 4.8	92	26	31	2	37	3.03	− 1.15	1.02	0	10	15	14	2	sw.	J. W. Edwards.
Muscatine	Muscatine	.....	51	.....	.....	.....	.....	.....	.....	.....	2.65	− 1.73	1.11	0	13	.....	.....	.....	.....	William Molis.
New Hampton	Chickasaw	1,169	14	63.6	+ 5.7	91	25	28	1	37	4.74	+ 0.10	1.12	.....	8	20	6	5	s.	A. F. Kemman.
Newton	Jasper	944	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. P. Beatty.
Northwood	Worth	1,222	15	62.2	+ 4.3	87	15	29	1†	36	4.46	− 0.52	.....	3.0	4	15	12	4	s.	Chas. H. Dwelle.
Olin	Jones	760	13	64.9	+ 4.9	94	26	24	2	40h	4.86	+ 0.37	2.46	.....	8	.....	.....	.....	.....	M. H. Crissman.
Osage	Mitchell	1,184	24	64.8	+ 7.7	92	25	29	1	39	6.29	+ 1.53	2.50	.....	5	15	12	4	nw.	Dr. A. D. Bundy.
Oskaloosa	Mahaska	843	35	66.6	+ 6.2	92	25	32	2	35	2.63	− 1.05	1.10	T.	9	17	1	13	.....	Joseph Boyd.
Ottumwa	Wapello	649	16	.....	.....	.....	.....	32	2	.....	1.48	− 3.16	0.70	.....	5	18	5	8	w.	Chester Potter.
Pella	Marion	877	9	66.4	.....	92	25	30	2	39	3.74	.....	1.03	T.	11	26	1	4	s.	J. H. Ver Steeg.
Perry	Dallas	975	10	65.2	+ 3.3	93	25	31	2	33	3.85	− 1.15	1.18	T.	9	15	8	8	s.	Ed. S. Gray.
Plover	Pocahontas	1,426	15	64.4	+ 5.3	93	26	29	2†	37	3.56	− 0.71	1.10	.....	9	22	8	1	s.	J. S. Smith.
Pocahontas	do	1,248	7	63.6	.....	91	25	29	2	36	3.74	.....	1.30	.....	11	20	7	4	s.	F. E. Hronek.
Ridgeway	Winneshiek	1,215	13	64.4	+ 4.8	91	25	33	1†	37	4.50	− 0.87	1.10	2.5	13	21	7	3	s.	Arthur Betts.
Rockwell City	Calhoun	.....	15	63.6	+ 4.1	94	25	29	2	40	5.35	+ 0.61	1.62	2.0	10	20	10	1	.....	C. M. Randall.
Sac City	Sac	1,278	35	64.5	+ 5.9	91	25	31	1†	35	3.70	− 0.53	1.17	3.0	10	14	8	9	sw.	E. N. Baily.
Saint Charles	Madison	1,070	10	66.0	+ 4.1	93	25	32	2	36	2.42	− 2.50	0.57	0	10	19	10	2	s.	R. D. Minard.
Sigourney	Keokuk	877	15	66.8	+ 3.8	92	16†	30	2	38	3.13	− 1.00	1.00	T.	11	3	26	2	sw.	J. T. Parker.
Stockport	Van Buren	745	9	67.0	.....	92	25†	29	2†	40	3.07	− 0.69	0.64	0	10	17	10	4	s.	C. L. Beswick.
Storm Lake	Buena Vista	1,440	22	63.5	+ 5.9	88	18†	30	1†	32	2.48	− 1.40	1.26	T.	8	13	11	7	s.	Prof. Warren Ingold.
Stuart	Guthrie	1,216	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. P. Fox.
Tipton	Cedar	807	12	68.2	+ 7.7	94	25†	32	2	34	2.52	− 2.66	1.37	0	7	20	10	1	sw.	F. K. Gregg.
Toledo	Tama	856	17	65.7	+ 5.0	91	25	31	2	38	4.89	+ 0.70	1.35	T.	8	20	5	6	se.	I. F. Giger.
Wapello	Louisa	588	13	67.2	+ 4.6	89	25†	33	2	31	1.94	− 1.95	1.18	.....	6	22	8	1	s.	G. W. Schofield.
Washington	Washington	769	29	67.8	+ 6.8	93	25	34	2	35	2.40	− 1.11	1.05	.....	6	11	18	2	sw.	Wm. A. Cook.
Waterloo	Black Hawk	862	28	64.4	+ 4.9	91	25	31	2	35	6.27	+ 2.31	1.70	.....	13	21	2	8	sw.	Ralph B. Slippy.
Waukee	Dallas	1,039	8	65.3	.....	91	25	30	2	38	3.22	.....	1.39	T.	13	17	10	4	sw.	Samuel F. Foft.
Waverly	Bremer	948	15	64.5	+ 4.5	93	25	29	1†	40	4.79	+ 0.09	1.25	.....	10	10	17	4	s.	Earl C. Moore.
Webster City	Hamilton	.....	6	65.0	.....	92	25	29	2†	40	5.99	.....	1.83	.....	8	17	12	2	sw.	C. D. Carpenter.
West Bend	Palo Alto	1,197	18	63.6	+ 5.0	92	25	28	2	33	1.94	− 1.69	0.80	1.0	11	15	13	3	s.	Phil. Dorweiler.
Whitten	Hardin	1,036	14	63.8	+ 4.5	92	25	29	1†	44	7.83	+ 3.47	1.85	T.	9	.....	.....	.....	sw.	Dr. F. P. Butler.
Winterset	Madison	1,129	20	66.3	+ 5.1	93	25	32	2	38	2.78	− 1.68	1.10	T.	12	12	11	8	s.	Dr. Robt. S. Cooper.
Missouri.																				
Gorin	Scotland	700	25	.....	.....	.....	.....	.....	.....	.....	2.69	− 1.77	0.98	0	8	7	14	10	sw.	J. W. Pulliam.
Hannibal	Marion	534	19	69.4	+ 5.0	93	25	35	2	40	0.70	− 4.30	0.41	0	5	16	12	3	sw.	U. S. Weather Bureau.
Louisiana	Pike	500	34	67.8	+ 4.4	93	24†	28	2	40	1.25	− 3.22	0.65	0	4	27	1	3	sw.	J. T. Farrell.
Mexico	Audrain	797	34	68.6	+ 4.4	95	25†	34	2	34	1.72	− 3.07	0.53	0	7	20	4	7	s.	J. F. Llewellyn.
Steffenville	Lewis	576	18	68.6	+ 5.3	93	26	34	2	38	1.45	− 4.12	0.95	0	7	16	14	1	sw.	Frank Hall.
Sublett	Adair	1,000	32	66.7	+ 4.5	90	24	32	2	38	3.40	− 2.14	1.00	0	7	16	10	5	s.	Lewis Spriggs.
Vandalia	Audrain	776	1	69.7	.....	95	25†	33	2	41	1.03	.....	1.00	0	2	26	0	5	sw.	C. B. Ellis.
Warrenton	Warren	865	22	69.6	+ 5.0	95	28	34	2	38	1.62	− 3.29	0.63	0	6	18	7	6	s.	Dr. J. H. Frick.
Indiana.																				
Collegeville	Jasper	.....	12	66.4	+ 5.3	97	27	28	5	43	2.43	− 1.84	0.73	0	7	12	15	4	w.	Otto Miller.
Knox	Starke	716	6	66.6	.....	92	27	29	5	36	2.94	.....	1.78	T.	9	20	8	3	s.	W. R. R. Tatman.
Laporte	Laporte	810	15	64.9	+ 6.6	96	27	27	3	42	3.07	− 1.04	1.46	T.	9	15	14	2	w.	Wm. M. Walton, jr.
Plymouth	Marshall	790	8	64.6	.....	90	27	30	3†	36	2.55	.....	1.15	T.	7	15	14	2	sw.	J. W. Siders.
Illinois.																				
Aledo	Mercer	738	11	66.7	+ 5.7	92	25	30	2	33	1.98	− 2.30	0.81	0	7	15	13	3	s.	William B. Frew.
Alexander	Morgan	670	18	68.2	+ 4.5	92	26†	30	2	35	2.25	− 1.93	1.28	0	7	16	12	3	sw.	George H. Hall.
Antioch	Lake	861	10	63.8	+ 6.7	94	27	28	2	39	3.10	− 0.82	1.00	0	6	16	10	5	ne.	J. C. James.

TABLE 1.—*Climatological data for May, 1911. District No. 5*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, 0.01 inch or more.	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 clear days.	Number of partly cloudy days.	Number of cloudy days.		
Illinois—Continued.																				
Astoria	Fulton	650	12	67.8	+ 6.0	93	26	30	2	38	1.14	− 2.56	0.52	T.	6	20	8	3	s.	Edward V. Bohl.
Aurora	Kane	687	32	64.8	+ 5.7	92	25†	28	2	40	2.31	− 1.77	0.76	0	6	13	11	7	sw.	W. Holden.
Bement	Piatt	700	4	67.6	.....	96	26	32	3	37	1.40	.....	0.79	0	5	24	2	5	s.	Rev. C. S. Adams.
Bloomington	McLean	840	20	69.4	+ 6.3	95	26†	29	2†	40	1.73	− 2.85	0.83	0	7	21	8	2	sw.	Prof. H. N. Pearce.
Cairo	Alexander	359	33	72.4	+ 4.9	96	28	43	2	28	0.22	− 3.61	0.12	0	4	15	13	3	s.	U. S. Weather Bureau.
Carbondale	Jackson	412	6	71.8	.....	101	28	35	4	44	1.47	− 2.05	0.68	0	7	23	3	5	sw.	State Normal University.
Carlinville	Macoupin	663	21	69.2	+ 5.1	96	26	32	2	39	2.49	− 1.81	1.72	0	7	23	5	3	sw.	W. T. Eddy.
Clinton	Dewitt	727	1	68.0	.....	94	26†	30	2	35	2.63	.....	1.24	0	8	24	6	1	sw.	J. F. Ziegler.
Coatsburg	Adams	763	19	69.1	+ 5.2	95	25†	33	2	39	1.42	− 2.75	1.02	0	4	26	3	2	s.	Dr. J. R. Lambert.
Cobden	Union	656	28	71.4	+ 4.4	98	26†	39	3	33	1.31	− 3.18	0.83	0	4	19	9	3	s.	John Buck.
Dakota	Stephenson	929	6	63.8	.....	90	25†	27	2	37	2.97	.....	0.82	T.	9	14	15	2	w.	Rev. G. W. Kerstetter.
Decatur	Macon	685	20	69.0	+ 5.7	96	26†	32	3	37	3.60	− 0.48	2.92	0	7	24	4	3	sw.	Prof. J. H. Coonradt.
Dixon	Lee	725	21	66.0	+ 6.2	96	25	29	2	39	2.69	− 2.18	0.80	0	11	21	6	4	.....	H. U. Bardwell.
Du Quoin	Perry	459	23	70.6	+ 3.5	97	28	36	3	37	1.86	− 1.88	1.15	0	5	20	8	3	sw.	G. H. Knetzger.
Dwight	Livingston	600	18	67.8	+ 6.6	97	26	30	2†	37	2.79	− 0.75	1.21	0	8	14	10	7	sw.	Edward O. Welch.
Elgin	Kane	716	4	65.8	.....	94	26	30	2	37	1.24	.....	0.52	0	5	10	19	2	sw.	Elgin Observatory.
Galva	Henry	842	19	67.7	+ 6.6	95	25†	29	2	38	1.62	− 2.41	0.51	0	13	21	1	9	sw.	Prof. F. U. White.
Greenville	Bond	635	33	69.7	+ 5.6	96	28	35	2	31	0.86	− 3.75	0.32	0	5	19	8	4	sw.	M. S. Oudyn.
Griggsville	Pike	650	26	68.7	+ 4.7	92	26	33	2	31	1.21	− 3.63	0.58	0	3	24	5	2	sw.	George F. Kneeland.
Havana	Mason	475	19	71.8	+ 7.7	96	26	33	2	37	1.51	− 2.26	0.46	0	4	20	10	1	s.	F. and C. Borgelt.
Henry	Marshall	500	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. F. A. Powell.
Hillsboro	Montgomery	675	17	68.8	+ 4.2	97	28	32	3	40	1.50	− 3.00	0.65	0	5	24	2	5	s.	Ira L. Woodward.
Joliet	Will	541	20	64.7	+ 4.0	92	18†	29	5	38	3.65	− 0.25	1.49	T.	8	17	8	6	sw.	F. M. Muhlig.
Kishwaukee	Winnebago	730	23	64.4	+ 6.2	90	25†	28	2	38	2.55	− 1.52	0.75	T.	11	21	7	3	sw.	George Stevens.
La Grange	Cook	657	19	65.6	+ 7.1	96	26	28	2	39	2.44	− 1.24	0.73	0	8	17	6	8	sw.	Prof. F. E. Sanford.
La Harpe	Hancock	698	32	69.0	+ 6.2	100	25	28	2	50	1.53	− 2.85	1.27	0	4	21	9	1	s.	George E. Campbell.
Lanark	Carroll	883	22	64.4	+ 5.6	90	26	24	2	40	4.58	+ 0.10	2.10	T.	11	21	9	1	s.	M. N. Wertz.
La Salle	La Salle	536	33	67.6	+ 6.8	95	25	32	2	36	1.97	− 1.95	1.63	0	4	14	12	5	sw.	U. S. Weather Bureau.
Lincoln	Logan	482	23	67.8	+ 4.9	92	27	28	3	37	1.79	− 2.03	0.80	0	6	17	13	1	s.	Prof. C. S. Oglevee.
Martinton	Iroquois	633	24	68.4	+ 7.8	98	26	30	5	42	5.79	+ 1.05	3.94	0	6	21	8	2	sw.	Joseph H. Peltier.
Mascoutah	Saint Clair	425	21	70.6	+ 6.1	100	28	34	3	45	1.68	− 3.13	1.27	0	5	26	4	1	se.	George Henrich.
Minonk	Woodford	745	18	69.6	+ 7.0	98	26	34	4	44	1.32	− 2.38	0.70	0	5	21	9	1	sw.	O. M. Davison.
Monmouth	Warren	784	19	68.6	+ 6.3	96	25†	29	2	40	1.53	− 2.33	0.41	0	8	20	1	10	s.	Hugh R. Moffet.
Morrison	Whiteside	685	17	65.1	+ 4.9	91	26	28	2	36	2.67	− 2.03	1.11	T.	10	20	7	4	sw.	S. A. Maxwell.
Morrisonville	Christian	638	12	70.2	+ 6.9	94	26†	32	3	39	0.67	− 2.84	0.33	0	5	25	5	1	s.	J. D. Lowis.
Mount Vernon	Jefferson	511	17	70.4	+ 4.4	99	27	36	3	40	1.06	− 2.76	0.85	0	4	21	7	3	s.	Theodore P. Stelle.
Oregon	Ogle	702	2	67.2	.....	93	27	28	2	38	1.67	.....	0.60	0	4	10	8	13	s.	Samuel Ray.
Ottawa	La Salle	500	25	68.2	+ 6.8	97	26	31	3	40	2.64	− 1.55	0.83	0	6	17	7	7	sw.	Miss M. M. Harris.
Pana	Christian	692	25	69.2	+ 6.1	96	27	35	2	34	1.12	− 3.20	0.50	0	4	26	2	3	sw.	C. W. Sibley.
Peoria	Peoria	609	33	68.2	+ 6.5	95	26	30	2	39	1.03	− 3.23	0.76	0	7	13	10	8	s.	U. S. Weather Bureau.
Pontiac	Livingston	546	9	68.8	.....	96	26	32	2†	38	2.26	.....	0.75	0	9	19	7	5	sw.	George Butterworth.
Riley	McHenry	956	52	63.8	+ 6.2	90	19	27	2	33	2.64	− 1.01	1.69	T.	8	10	10	11	sw.	John West James.
Rockford	Winnebago	763	19	65.5	+ 7.0	92	25†	29	2	34	2.98	− 1.17	0.71	0	13	22	3	6	.....	Hosmer C. Porter.
Rushville	Schuyler	670	20	68.9	+ 5.7	92	26	31	2	32	1.77	− 2.52	0.82	0	4	24	1	6	s.	H. F. Dyson.
St. Charles	Kane	700	16	65.0	+ 5.0	95	25†	28	2	41	2.02	− 2.13	0.56	0	10	13	17	1	sw.	Dr. William H. Bishop.
St. Peter	Fayette	.....	9	70.2	.....	97	26†	35	3	34	0.95	.....	0.45	0	3	18	12	1	sw.	M. L. Lansford.
Sparta	Randolph	538	25	70.4	+ 5.0	98	28	35	2†	38	1.46	− 2.44	0.46	0	5	20	9	2	e.	James A. Caldwell.
Springfield	Sangamon	644	33	70.1	+ 6.6	95	26	35	2	36	1.18	− 3.31	0.77	0	7	15	13	3	s.	U. S. Weather Bureau.
Streator	Lasalle	626	18	68.0	+ 6.5	97	26	28	3	42	2.33	− 1.14	0.86	0	10	27	3	1	sw.	Edward F. Sweetser.
Sullivan	Moultrie	530	11	69.0	+ 5.8	97	28	33	3	40	3.21	− 1.34	0.80	0	7	18	11	2	sw.	C. A. Corbin.
Sycamore	Dekalb	855	31	65.6	+ 7.3	97	25†	27	2	44	2.56	− 1.58	1.05	0	10	18	4	9	sw.	Miss E. J. Davis.
Walnut	Bureau	717	20	67.8	+ 5.5	94	26	30	2	37	2.60	− 1.79	0.80	0	10	19	10	2	s.	O. C. Nussle.
White Hall	Greene	573	3	67.6	.....	94	25†	29	2	43	1.10	.....	0.64	0	5	24	4	3	s.	Dr. R. A. Pritchett.
Windsor	Shelby	681	12	68.6	+ 5.7	96	26	30	3	39	4.46	− 1.05	2.25	0	7	14	13	4	sw.	Herbert Rose.
Winnebago	Winnebago	900	24	65.2	+ 6.9	93	26	28	2	38	2.75	− 1.50	0.74	T.	10	15	12	4	sw.	Frank Osborn.
Yorkville	Kendall	584	24	64.5	+ 6.3	92	18†	29	2	45	3.05	− 1.13	0.85	0	6	23	3	5	w.	Herman A. Grimwood.
Zion	Carroll	938	17	64.8	+ 5.2	91	25†	27	2	37	3.26	− 1.08	1.59	T.	8	22	6	3	sw.	Robert F. Gillogly.

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

TABLE 2.—*Daily precipitation for May, 1911. District No. 5, upper Mississippi Valley.*

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	31	
North Dakota.																																	
Amenia	Red							T.		.70	T.	2.25	T.				1.50							T.			T.	.50			.30	1.00	6.25
Bottineau	Mouse									.32	.08	T.	.16				.11	.12		.04	.07				.02	.14		.96	.05		.21		2.28
Cando	Sheyenne									.58		.82				.13	.15	.43	.21						.09		.11	.15					2.67
Crosby	Mouse	T.						.02								*	*	*	*	*	*	*	1.47	.02	.43	.03	1.17	.48	.03	T.	.05		3.70
Devils Lake	Sheyenne									.69	.80	.19		.10		.15	.10	.01	.35	T.	T.						.65	.02		.07			3.13
Donnybrook	Mouse	T.						T.		.19						*	.43	.03	*	.24	T.				.07			1.37		.25	T.		2.58
Dunseith	do									.25	.26	.10				.25	.35		.15	T.					T.		.26	.30			T.		1.92
Edmore	Sheyenne										.70	1.10	.05		.30	.03		.03	.14	.07	T.				T.		.70	.19			.06		3.37
Forman	do							.11		.25	T.	1.00				.51	.10			T.			T.				T.	T.			.40		2.37
Grafton	Red										.48	1.02	.05	T.	.08	T.	.02		.39	.02	.04		T.				.90	.37			.39	T.	3.76
Granville	Mouse									T.		T.			.09	.35	.59								T.		.52		.05		.13		1.73
Hannah	Pembina									.30	.69	.70			.36	.04		.08		.22					.56		.61	T.					3.56
Hansboro	Red									.10	.15	.25			.80	.11	.03		.19		.04				.75		.37	.05			.11		2.95
Hillsboro	do							.09		.62	.75	1.46	.11			.39	1.35			.10							.36	.31			.95		6.49
Lakota	Sheyenne									.40	1.40	.50			.23	.05	.10	.10	.18		.05						.85	.38			.18		4.42
Langdon	Pembina										.51	.79	.63		.24				.07	.06	.03						.17	.23			.06		2.79
Larimore	Red									.37	.35	1.67	.23				.24	.01	.28	.18				.01			.16	1.93			1.99	.12	7.54
Lisbon	Sheyenne																																
McKinney	Mouse						T.			T.		T.		T.		*	1.00		.29	.12	T.				.10	T.	*	1.25		T.	T.		2.76
Manfred	Sheyenne									.41	.22	.05		.05		.42	.27		.10								.25				.43		2.20
Mayville	Red							T.		.30	.35	.78	.20			.23	1.41			.21	T.						1.04	.20			.50		5.22
Monot	Mouse										.04						.40	.30		.18							.13	.70	.01		.27	.06	2.09
Minto	Red									.37	.27	2.00		.10		.05		.71			.07		T.				.55	.58			.33		5.03
Oriska	Sheyenne							.05		.30	1.67	2.18				1.08							.02					.68			.61		6.59
Park River	Red																																
Pembina	do										.20	1.80	1.30		.60	.20		.20	.04	T.	T.	T.				.50	.20	.04			.02	.08	5.18
Power	Sheyenne							.05		.20	1.65					1.50											.57				1.05		5.02
Pratt	Mouse								T.	.07						.20	.37		.18	.05			T.				.49			.15	.16		1.67
Towner	do									.10				.37		.51	.28		.04								.30	.30		T.			1.90
University	Red							T.	T.	.59	1.02	.29	.10			.05	.01	.04	.13		T.			.04			.31	.14			.56		3.28
Wahpeton	do							T.	.15			.13				.05											.04				1.04		1.41
Walhalla	Pembina																																
Westhope	Mouse																																
Willow City	do							T.	.14		.04		.08		.30	.39			.07							.39		.18					1.59
Minnesota.																																	
Albert Lea	Mississippi	T.										.10		.50	.30	.05				1.25		1.70	.90	T.				.10			T.		4.90
Alexandria ‖	do										.03	.03	T.		.08	.06	1.20			.07			T.	.16	.02			.10			.66	.13	2.54
Angus	Red									.06	.85	.53				.07	.05		.06		.09		.02				.10	.14			.74		2.71
Bagley	do							.08		.23	.40	.22			.42	.30	1.00										.19	.06			.73		3.63
Beardsley	Minnesota																																
Beaulieu	Red							.05		.34	.39	.80	.18			2.20			T.				T.				.40				1.00		5.36
Bird Island	Minnesota							T.				T.			.37	.38		T.		.68		.22	.01					.11			.28		2.05
Caledonia ‖	Mississippi	.65	.46							T.	T.	.06			.93	.26	.04				1.55	.04	.15	.15	.06				.42	.01		.26	5.04
Campbell ‖	Red								.02		.07	.20			.07	.70	1.10				T.			.02				.20			.94	.85	4.17
Cass Lake ‖	Mississippi								T.		.50		.50					1.30										2.00				1.15	5.45
Collegeville	do							.08				T.			.20	2.16				.76		.07		.05				.06			.24		3.62
Crookston ‖	Red							.04		.45	.34	.56	.50				.15			T.	T.			.05			.43	.40			.37	.52	3.81
Detroit ‖	do								T.	T.	.15	.33	.40				1.10						T.	T.		T.	T.	.06			.55	.59	3.18
Ely	Rainy							.14			.35	.10	.02		.03	*	.57			.43			.45	.01			.01				.78	.01	2.90
Fairmont (near)	Minnesota	.13												T.	.02					.36		.35	.15	.16				.26			.14		1.57
Faribault	Mississippi	.52								.08					.15	.25	.08			.12		1.15	.41					.15			.04		2.95
Farmington	do	.05					T.			.08		.08			.33	.65				.12		1.06	.33	T.				.17			.02		2.89
Fergus Falls	Red							.02		T.	.12	.20	.01			1.01					.07		T.				.02	.04			1.62		3.11
Fort Ripley ‖	Mississippi														.19	.92	1.30			.24		T.		.22	T.						T.	.53	3.40
Fosston	Red									.37	.80	.13	.06		.03	.20	1.46			.03			.02				.17	.59			.85	.01	4.72
Frank	do																																
Glencoe	Mississippi														.15	.45	.25					.50						.28			.01		1.64
Grand Meadow	do	1.13						T.				.14			.62	.07		T.		.52		2.73	.34						.38			.64	6.57
Gull Lake Dam	do							.05			.30	.02				.88	.14				.20			.20		T.					.50		2.29
Hallock	Red									.35	.30	1.30			1.00			.25		T.	.05		.07				.35	.07			.60		4.34
Halstad ‖	do							T.		.46	.70	1.68	.11				.98			.15							T.	.50			.45	.73	5.76
Hinckley	St. Croix									T.		.37			.52	.87	.35			1.10				.35							.23		3.79
International Falls	Rainy										.30	.43	.10						.06				T.	T.			.45	.48			.25		2.07
Itasca State Park	Mississippi							.01	.01	.23	.62	.38	.12		.05	.40	1.00			T.			.03	T.			.21				.87		4.93
Kelliher	Red																																
Lake Crystal	Minnesota	.85													.30	.09		.08		.05		.38	.15	.02				.26			.12		2.30
Leech Lake Dam	Mississippi							.06		.15	.40	.07				.51	1.03			.06			.02				.11	.14			1.35	.03	3.93
Litchfield	do																																
Little Fork	Rainy										.40	.35	.04						.09								.60	.05			.20		1.73
Long Prairie	Mississippi															1.33			.25				T.	T.				T.			.75		2.33
Lynd	Minnesota							T.							.45	.22				.55		.43									.04		1.69
Mankato ‖	do	.50													.37	.07							.90	.18					.31			.15	2.48
Maple Plain	Mississippi																																
Milaca	do							T.		.66					.36	2.78							.35		.38						.13		4.66
Milan	Minnesota							T.				T.			.09	.14				.29		.09	.04					.05			.35		1.05
Minneapolis	Mississippi							T.		T.	.05	T.		.15	.35	1.95	.83			T.		.49	.15					.10			.03		4.10
Montevideo ‖	Minnesota	.04						T	.01			T.			.20	.08	.14			.42			.10	T.				.04			.22		1.25
Moorhead	Red								.08		.49	.56	.49	.04		.01	.52						.01				.69	.01			1.02		3.92
Mora	St. Croix									.26		.09			.36	1.48	.03		.03	1.22			.11	.20				.04			.21		4.03
Morris	Minnesota									T.		.07				2.85			.02		.02	.01	.02	.06				.06			.61		3.72
New London	Mississippi														.40	4.20	.25			.75		T.	.08	.12				.07			.44		6.31
New Richland	Minnesota	.42						T.		T.				.05	.82	.14				.09		1.95	.29					.18			.14		4.08
New Ulm ‖	do	.44							T.		T.	.12			.51	.68	T.				.10	.25	.50	.10				T.	.02		.05	.08	2.85
Osakis	Mississippi							T.				T.				1.27	.02			.12			.02	.17							.64		2.24
Park Rapids ‖	do								.07	.07	.15	.15	.20		.06		1.03			.03		.02	.02	.02				.27			.27	.80	3.16
Pine River Dam	do							T.			.38	T.				.75	.78			.07	T		T.	T.							.44		2.42
Pokegama Falls	do							.15			.11	.07				.29	1.21			.14			.03				.41				1.09		3.50
Red Lake	Red							T.		T.	.48	.20					.35						.10				.50				.44		2.07
Red Wing ‖	Mississippi	.50							T.		.04				.22	.40	.04				.20		1.50	.18	T.				.06			.14	3.28
Redwood Falls	Minnesota														.34	.26				.17		.27	.02					T.			.10		1.16
Reeds Landing ‖	Mississippi	.15									.01					1.20					1.56		.82		.08							.16	3.98
Rochester ‖	do	.75										T.			T.	.65					1.22	.80	.50	.08					.17				4.17
Roseau	Red										.40	.70	.15		.22				.30	.17	.04						.70	.14			.70		3.52
St. Charles ‖	Mississippi	1.10									.03	.05			.45	.55	.04				.94	.50	.35	.08					.24				4.33
St. Cloud	do							T.		.06		.03			.52	2.24				2.41		.15	.21								.24		5.86
St. Paul	do							T.		T.	.09	T.		.14	.49	2.14	.22		T.	T.		.54	.24					.12			.01		3.99
St. Peter	Minnesota	.23													.23	.90				.01		1.90	.10					.20					3.57
Sandy Lake Dam	Mississippi							.06			.41	T.				.37	1.63			.47			.05	.04							.44		3.47
State Sanatorium	do							.08		.08	.42	.03	.03		.06	.40	1.27						.02				.13	.18			1.24	.01	3.95
Stillwater ‖	St. Croix	.12							.02		.04	.06			.52	.64	.03	.03				.05	.30	.07					.15			.01	2.04

TABLE 2.—*Daily precipitation for May, 1911. District No. 5*—Continued.

Stations.	Watershed.	Day of month. 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	31	Total.
Minnesota—Con.																																	
Taylors Falls	St. Croix														.50	1.60	.42			.14		.15	.22	.24				.12			T.		3.39
Warroad	Rainy										.26	.52			.50				.20	.30							.78	.32			.24		3.12
West Concord	Mississippi	.40													.40	1.30				.28		1.33	.28						.10		T.		4.09
Winnebago ‖	Minnesota	.85										.05			.25	.07					.28	.22	.27	.15					.02	.20	T.	.07	2.43
Winnibigoshish	Mississippi							.05		.07	.37	.08			.07	.28	.65			.03			.07	.02			.47	1.04			.89	.02	4.11
Winona	do	1.33								.13	T.				.22	.26	T.			.90	.04	.45	.35	.34					T.				4.02
Worthington ‖	Des Moines	1.04													T.						.05	.14	.64	.44				.05				.07	2.43
Zumbrota	Mississippi	.64								.42					.22	.93				.30		2.65	.11	.05				.07			T.		5.39
South Dakota.																																	
Milbank ‖	Minnesota											.07				.05	.45			T.			.09	.31				.09			.46		1.52
Wisconsin.																																	
Antigo	Wisconsin	.10									.76					1.14	.25	T.		.50	.25	.75	1.00						.08		T.	.64	5.47
Barron	Chippewa									.20	.42					1.20	.12			.29		.25	.41	.08				.67			.04		3.68
Beloit	Rock								.83						.53							.55		.50					.30				2.71
Big St. Germain Dam	Wisconsin	T.							.02		.34	T.	T.		T.	.48	.24	.01	.75	.60	.41	.19	.17	.26				.29	.02		.13	.17	4.08
Brodhead	Rock	.72							T.	.20					.63						.41	.52	.20	.21					.09	T.			2.98
Burnett	do	.61							.03	T.	.52				.21	T.	.07	.23			.31	.77	.76	.48	.02				T.	.08		.66	4.75
Cottage Grove	do	.75	.04						.09						.58						.37	1.87	.24	.03					T.			.07	4.04
Darlington	do	.60							.30						.70						.30	1.10	.90									.15	4.05
Deerskin Dam	Wisconsin	.04							.05		.81				.13	.95	.45	.87	1.42	.81	.42	.05	.35	.58				.15				.20	7.28
Delavan	Rock	.45	T.						.07	.05					.11					.24	.04	.08	.15					T.	.15	.04	.09		1.47
Dodgeville ‖	do																																
Downing	Chippewa	T.								1.30	T.				1.18				.10		.62		T.					.62			T.	.62	4.44
Eau Claire	do	.52								.67	.01	.02			.05	.89	.05			1.76	.10	.35	.43	.55				.08	.02		.02		5.52
Grand Rapids ‖	Wisconsin	.72							.14	.05	1.23				.36	.46	.60	.65			.73	.40	.42	.65	.16				.36				6.93
Grantsburg	St. Croix									.12	T.				.35	1.35	T.		T.	.45		.10	.18	.30						.30			3.15
Hancock	Wisconsin	.58							.05	.25	1.85				.30	.63	.48				.75	.63	.08	.90	.10				.10			.70	7.40
Hatfield	Black	1.72								.26	.50				.16	.85	.26			.80	.42	.23	.35	.33				1.28	.29		T.		7.55
Hayward	St. Croix							T.		.22	.40				.10	1.00	.02			.32				.38				.17			.32		2.93
Hillsboro	Wisconsin	.85							T.	.16					.40	.13	.35			.91		.17	.56	.96				.29	.04			1.55	6.37
Koepenick	do	.20									.90				.30	.80	.40			.40	.50	.20	.20	.30					.12			.50	4.82
Lac du Flambeau	Chippewa										.49				.09	.69	.11	.42		1.74		.29		.24				.27			.23		4.57
La Crosse	Mississippi	1.17							.01	.23	T.				.62	.34	.03			1.53		.24	.05	.51				.34	.01			.12	5.20
Lake Mills	Rock	.90	T.						.03	.02	.02				.31		T.				.22	.18	.70	.10					T.	T.		.48	2.96
Lancaster	Mississippi	.75							.12						.74		.10	.28			.73	2.17	.46					.30			.09		5.74
Long Lake	Wisconsin	.08							.13		.76				.08	.95	.19	.06	.47	.62	.44	.12	.31	.18	.02			.24	.03		.14	.06	4.88
Madison	Rock	.48	T.						T.	.06					.58	T.	.02	.02		.25	.07	.63	.30	.22					T.	T.		T.	2.63
Mather ‖	Wisconsin	1.08	.65						.10		.80				.26	.68	.23	.27			1.03	.70	.22	.84	.15				.46	T.			7.49
Mauston	do	1.37								.05	1.50				.22	.25	.64				1.00	.55	.20	.52				.52				.30	7.12
Meadow Valley	do	.88							.30	.47	.74					.81	.42			.45	.32	.60	.24	.61				.55	T.		T.		6.39
Medford	Black	.25									.40						1.10	.15			1.80	.50	.10	.75					.55				5.60
Merrill	Wisconsin																																
Minocqua	do	.05							.03		.30				.09	.65	.12	.50	.01	.80	.28	.17	.09	.22	.02			.21	.10		.12	.08	3.84
Mondovi	Mississippi	.65								.41		T.			.05	.76	.04			2.25	.02	.61	.35	.58				.13			.01		5.86
Mount Horeb	Rock	.67													.63		.07	T.			.47	.82	.42	.25					T.	T.	T.		3.33
Muscoda ‖	Wisconsin	.52	.05												.48	.11	.32	T.			.91		.61	.44	T.				.13			.15	3.72
Neillsville	Black	1.59									1.40			.22	.20	.60	.23			1.15		.45		.65					1.07				7.56
New Richmond	St. Croix	.08							.03	.05		.08			.67	.40	.03			.08		.52	.08	.19				.36			.02		2.59
Osceola ‖	do									T.	.15				.35	1.55				.05		.43	.23					.17					2.93
Park Falls	Chippewa	T.								T.	.41				.09	.46	.10	.08		.87		.08	.07	.48				.18	.01		.08	.19	3.10
Portage	Wisconsin	.50	T.						.07	1.47					.2[illegible]	.25				.39		.8[illegible]	.65	.28							1.40		6.16
Port Edwards	do	1.00							.12	.14	1.20				.40	.30	.96				.72	.5[illegible]		.9[illegible]					.33				6.[illegible]8
Prairie du Chien ‖	Mississippi	1.28	.22						T.	.02					.70	.48	.29				1.04		.04	.32	T.				.40	.04		T.	4.83
Prentice	Chippewa	.11								.45					T.	.52				1.55		.18		.87						.04	.81		4.83
Rhinelander	Wisconsin	.11							.08		.37				.11	1.96	.16		.23	.63	.67	.12	.24	.52				.22	.33		.05	.06	5.80
Sauk City	do	.95													1.40						*	1.82	.33						T.	T.			4.50
Shullsburg	Mississippi	.84							.27						.60							1.32	.69	.07					.12	.04			3.95
Solon Springs	St. Croix							T.			.50	.20			.20	1.20	.80			.50		T.	.20	.20				T.					3.80
Spooner	do									.18	.23		T.	T.	.18	.80	.06			.16		.35	.25	.19	.12			.12			.30		2.94
Stanley	Chippewa	.56								.12	.85					.73				.20	.80	.37	.13	.45				.36			T.		4.60
Stevens Point	Wisconsin	.20							*		2.10				.27	.61	1.25				.32	.26	.40	.55					T.		T.		5.99
Sugar Camp Dam	do								.80		.34				.14	.10	.22	.02	.30	.64	.28	.28	.18	.08				.16				.10	3.67
Twin Lakes Dam	do							.05			.92				.05	.75	.25	1.30		.89	.06	.35		.52				.10				.30	5.54
Valley Junction	do	.87							.38	.19	1.18				.31	.74	.41			.19	.97	.67	.21	1.21				.17	.51		T.	.09	8.10
Viroqua	Mississippi	.95							T.	.35	.10				.63	.06	.30			.02	1.30	.11	.47	.40				.42	.07		T.	.41	5.59
Vudesare	Wisconsin	T.	T.					T.	.05		.67		.10					1.02	.30	.08		.30	.36	.32				.52					4.32
Watertown ‖	Rock	.90								.05	.41			T.		.22	.08	T.		*	.74	.04	.22	.35	.18			T.	T.	T.			3.19
Waukesha	Fox	.48	T.							.58					.01								.30	.05					T.	T.		.38	1.80
Wausau	Wisconsin	.95							.23		.55		T.		.28	.75	.48				.98	.60	.08	.68					.39			.06	6.03
Weyerhauser	Chippewa									.11	.33	.02			.07	1.04	.08			1.25		.17	.10	.38				.25			.05		3.85
Whitehall	Mississippi	1.60								1.40					.20	.50	1.10			1.00		.60		.20				T.	.30				6.90
Iowa.																																	
Albia ‖	Des Moines	1.13	.02						.15			.30			.04						1.10	.97	.02	.02					.02	.17	.08	.50	4.52
Algona	do	2.12						T.						.35	.39					.55		.39	.88					.31	.03		T.	.15	5.17
Alta ‖	Raccoon	1.44													T.		T.				.70	.10	.28	.28				.02	.13	.02		.30	3.27
Amana	Iowa	.55							.16			.30			.58			.28		.32	.58	.10	.42	.04				.63	.06	.03			4.35
Ames	Skunk	1.36						.07	.01	T.		.02		.06	.82	T.	.02			.20		.82	.14					1.3[illegible]	1.32	.01		.60	7.04
Baxter	do	.62						T.	.10			.21		.32	.43		.07			.80	.05	1.53	.04					.06	.31	.05		.01	4.60
Belle Plaine	Iowa	1.06							.29			.14			.86		.01	.04		.50	.38	.22	.04	.01				.20	.26	.01		.02	4.04
Belmond	do	1.65						T.						T.	.67					.42		1.03	.31					.0[illegible]	.23			.25	4.61
Bloomfield	Mississippi								.15						.57						.41	.15		.09				.2[illegible]	.26	.79		.06	
Bonaparte	Des Moines	.13													.84						.29	.12	.06					.6[illegible]	.06	.34		.11	2.61
Boone ‖	do	1.57	T.									.11			.74	1.02	T.				.60	.35	.04	.06						.20	1.00	.38	6.07
Britt	Iowa	1.66						.08		T.				.58	.72					.58	.01	.68	.18	.01				.32	.30			.02	5.17
Buckingham	Cedar																																
Burlington ‖	Mississippi	.17	.16						.03	T.					.12					T.	.35	.22		.05					.03	.01	.10	.08	1.23
Carroll ‖	Raccoon										.41			.70						.41	.21	.63	.07				.04	.41	.04		.13		3.05
Cedar Rapids ‖	Cedar	.36	.04						.20	.10		.06			.73	.35			.18		.65	T.	.32	.35					.28			T.	3.64
Charles City	do	1.50							.02		.02			.02	1.26					1.24		1.24	.28					.20	.03		.01	.06	5.87
Clear Lake	do	.40					.20	.20												1.25		.90	.88										3.83
Clinton	Mississippi	.02													1.12			.04		.41		.41	.08						.07				2.15
Columbus Junction	Iowa	.58													.58					T.	.38	T.	T.	.22				.23	.14	.13			2.26
Davenport	Mississippi	.10							.01	T.					1.35			.17		.26	T.	.21	.04						.10	.03		T.	2.25
Decorah	do	.94										.18			.95		.14			.99		.51	.79	.17				.19	.03			.80	5.69
Delaware	do	.82							.18						1.53		T.	.14		T.	.75	.02	.40					1.37	.10			.02	5.33
Des Moines	Des Moines	.10						.28	T.		.27			.19	.46		T.			.20	T.	.53	.01	T.				T.	.37	.02	.01		2.44

TABLE 2.—*Daily precipitation for May, 1911. District No. 5*—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		
Iowa—Continued.																																	
Dubuque	Mississippi	.19							.21	T.					.52		T.	.14		.37	.01	.83	.48	.01				.05	T.	.02	.01		2.84
Earlham	Raccoon	.04								T.		.23		.13	.33					.84	T.	.29	.05						1.34	T.		T.	3.25
Elkader	Mississippi	1.20							.21						1.27		.10	.02		.40	.74	.38	.25	.20				.49	.04			.39	5.69
Elma	Wapsipini'n	1.00								T.		.02			1.20	T.				.78	.07	.65	.30	.12				.25	.03	T.	.03	.57	5.02
Estherville ‖	Des Moines	1.10										T.			.12	T.	T.				.10	.08	.20	.55				.25	.21		T.	.15	2.76
Fairfield	Skunk	.52							.07		.07				.08						.43	.18	.05					.29	.07	.41		.38	2.55
Fayette	Mississippi	1.15							.40		T.	.06			1.30		.33			1.78	.15	1.76	.25	.05				1.23	.20			.10	8.73
Forest City ‖	Cedar	1.10													.68						.69	1.06	.25					T.	.17	.20		.47	4.62
Fort Dodge ‖	Des Moines	2.00							T.						.82	.20					.50	.22	.30	.25					.37	.05		T.	4.71
Fort Madison	Mississippi	T.							T.	T.					.15					.55	1.78	T.	T.					T.		.28		.03	2.79
Gilman	Iowa	.77								T.		.17		.30	.85		T.	T.		.80		1.08	T.					T.	.17			.03	4.29
Grand Meadow	Mississippi	.92							.13	T.					1.03		.42			1.03	.21	.43	.30	.10				.78	.22	.03		.05	5.65
Greene	Cedar																																
Grinnell	Iowa	.51							.35			.13		T.	.55		.03	.04		.54	.08	.73	.05				.08	.14	.19	.05			3.47
Grundy Center	Cedar	.78										.13			1.80		.14	T.		.70	.10	.88	.10					.50	1.10			.16	6.38
Guthrie Center	Raccoon	.08									.10			T.	.21	T.				.42	T.	.41	.14	.03				.01	1.62		T.	.03	4.96
Hampton	Cedar							T.	T.		.20			.98	.20		.07			1.17		2.20	.2					.11	.10		.22		5.50
Humboldt	Des Moines	1.79												.19	.40					.30	.01	.25						.05	.50				3.49
Independence	Wapsipinic'n	T.													1.54		.10				2.25	.36	.21	.04				.75	.13			.20	5.58
Indianola	Des Moines	.10						.05	T.			.15		.03	.75	.05	T.			.56		.36	.07						.38	T.		.03	2.53
Iowa City ‖	Iowa	1.70	.04							.05					.40	.70					.60	T.	.58	.18					.27	.12	.10		4.74
Iowa Falls ‖	do	.48	.15						T.			.44			.73	.16		T.			.82	.65	1.08	.10					.15	.45	T.	T.	5.21
Jefferson	Raccoon										.23				.83					.17		.26	.32	.12					.70			.75	3.38
Keokuk	Mississippi	T.							T.						T.					.10	.13	.02	.06					.01		T.		.10	0.42
Kesauqua ‖	Des Moines	.30	.03												.59						.33	.02		.02					.52	.04	.20	.09	2.14
Knoxville	do	.20							.55			.23		.09	.65			T.		1.35		.04	T.					T.	.13	T.		.13	3.37
Lacona	do	.30						.08	.02			.30		.18	.22					1.00	.48	.22	.08					.01	.06	.13		.48	3.66
Le Claire ‖	Mississippi	.30	.08						.03	T.					.14	1.41			T.	T.	.25	.02	.30	.05					.01	T.	.03		2.62
Marshalltown ‖	Iowa	.10	1.00					.02	.02			.08			.76	.11	T.	.60			1.31	2.30	.04	.06					.30	.16	.02	.08	6.96
Mason City	Cedar	1.00						.07		T.					.69					.37		1.08	.80					.44	.10			.23	5.38
Mt. Pleasant	Skunk	.33							.08	.01					1.02						.60	.15	.09					T.	.32	.31		.12	3.03
Muscatine ‖	Mississippi	.44	.09						.15	.02					.67	.44			T.		.33	T.	.03	.07					.06	.18	.08	.09	2.65
New Hampton	Wapsipinic'n	1.12													.70		T.				1.05	.40	1.06	.06				.21	.14		T.		4.74
Newton	Skunk																																
Northwood	Cedar	.30												*	*	4.16																	4.46
Olin	Wapsipinic'n																																
Osage	Cedar	1.62													1.10					.65		2.50	.42					T.	T.				6.29
Oskaloosa	Des Moines	.10	T.						.19	T.	.17			T.	T.		T.	T.		1.10	T.	.51	.03					T.	.18	.08	.27		2.63
Ottumwa	do	.70							.10								T.	T.	.30	T.		.20		.18	T.								1.48
Pella	do	.38						T.	.25	T.		.36		.10	.51		T.	T.		.70	.07	1.03	T.					T.	.25	.06		.03	3.74
Perry	Raccoon	.45										.03			.91					.90		.23	.06						1.15	.03		.07	3.85
Plover	Des Moines	1.10						.01			T.			.20	.30		T.			.55	T.	.60	.30					.20			.30		3.56
Pocahontas	do	1.30												.27	.22					.31		.63	.53	.12				.12	.04		.12	.08	3.74
Ridgeway	Mississippi	.42								T.	.11			.08	1.02	.01	.04			.77		.78	.12	.09				.64	.05			.37	4.50
Rockwell City	Raccoon	.45												.10	.60	T.				.50	.10	.98	.50					.10	.40			1.62	5.35
Sac City	do	.86										T.		.08	.26	T.				.41	.04	1.17	.28					.07	.26		T.	.27	3.70
Saint Charles	Des Moines	.20										.30		.02	.40					.20	.31		.13						.45	.02		.33	2.42
Sigourney	Skunk	.60							.08	T.		.03			.02		T.	T.			.97	.08	.08	.12				1.00	.08	.07			3.13
Stockport	do	.52							.08						.53						.48	.03	.18					.10	.38	.64		.13	3.07
Storm Lake	Raccoon	1.26									T.			T.	.02					.24	.07	.43	.01					.14			.31		2.48
Stuart	do																																
Tipton	Cedar														1.37						.34	.15	.14	.06					.34	.12	T.	T.	2.52
Toledo	Iowa	1.35							.06	T.		.03			1.25					1.05		.30	T.					.70	.15				4.89
Wapello	Cedar	.25													1.18						.24	T.	T.					.06	.12	.09			1.94
Washington	Skunk	.17														.38				.78		.02						.50	.55				2.40
Waterloo ‖	Cedar	1.25	.04							T.		T.			1.70		.25	.05			.92	.38	.51	.39	.03				.22	.36	T.	.17	6.27
Waukee	Raccoon	.15							.10			.22		.01	.66	T.	.03			.22	T.	.31	.05					T.	1.39	.03	.04	.01	3.22
Waverly	Cedar	1.25							.16			.05		.75						.95		.80	.10					.18	.40		.15		4.79
Webster City	Des Moines	1.83						T.	T.	T.		.13			1.45					.30		.64	.04					1.20	.40				5.99
West Bend	do	.10						.13					.20	.60						.16	T.	.22	.40					.05	.03		.02	.03	1.94
Whitten	Iowa	1.75										.16		T.	1.16		T.			.73		1.85	.09					.67	1.22			.20	7.83
Winterset	Des Moines	.15						.07	T.			.24		.07	.30		.03			.17	T.	.28	.16	T.					1.10	.08		.13	2.78
Missouri.																																	
Gorin	Mississippi														.98						.34	.07	.10					.28	.27	.22		.43	2.69
Hannibal	do	T.							T.											.04	T.	.05	.03					T.	.17			.41	0.70
Louisiana	do	.03																			.50	.07							T.			.65	1.25
Mexico ‖	do	.38	T.		.03										T.						.16	.25		T.					T.	.35	.02	.53	1.72
Steffenville	do								T.						T.						.27	.05	.05					.03	.05	.05	T.	.95	1.45
Sublett	do	T.													.50						.50							.20	.10	1.00	1.00	.10	3.40
Vandalia	do																				.03											1.00	1.03
Warrenton ‖	do	.10	T.																			.63		.01					T.	.07	.37	.44	1.62
Indiana.																																	
Collegeville	Iroquois	.15								.73													.65	.08					.12		.58	.12	2.43
Knox	Kankakee	.22	T.						T.	.15											.19	.04	1.78	.03				T.	.15		.02	.36	2.94
Laporte	do	.60								.10									T.		.22	.12	1.46	.03							.10	.04	.40	3.07
Plymouth	do	.15	T.							.18											.06	T.	1.15								.53	.03	.45	2.55
Illinois.																																	
Aledo	Mississippi	.33							.22						.81						.48	.04	T.							.09		.01	1.98
Alexander	Illinois	.01							T.	.04											T.	1.28		.03					.19		.17	.53	2.25
Antioch	do	.45							.20						T.						.30	.40								T.	.75	1.00	3.10
Astoria	do	T.							.01	.01											.22	.33	T.						.52	T.	T.	.05	1.14
Aurora	do	.29							.28												.55	.13	.30						.76				2.31
Bement	Mississippi	.23																				.79	.17						.20			.01	1.40
Bloomington	Illinois	.11																			.83	.01		.15					.55	.05		.03	1.73
Cairo	Mississippi			T.								.02	.10									.01	T.							T.		.09	0.22
Carbondale	do	.68		.03								.14	.05								T.	.07									.12	.38	1.47
Carlinville	Illinois	.11	.01																		1.34	.38							.26	T.	.04	.35	2.49
Carlyle	Mississippi	.90																				.05								.25		.40	1.60
Chester ‖	do	1.54			T.									T.								.04								.06		.22	1.86
Clinton	Illinois	.12	T.						T.												1.11	.02	.05						1.24	.05	.01	.03	2.63
Coatsburg	Mississippi																				.20		.05						.15			1.02	1.42
Cobden	do	.07		T.								.83										.06								T.	T.	.35	1.31
Dakota	do	.55							.05		T.						.80				.25	.39	.60	.22					.10			.01	2.97
Decatur ‖	Illinois	.06							.01												T.	2.92	.04							.45	.02	.10	3.60
Dixon ‖	Mississippi	.40	T.						.04	.02	T.						.80			.25	.23	.03	.40	.06					.38		.08		2.69
Du Quoin	do								T.											T.	1.15	.25								.20	.02	.24	1.86

TABLE 2.—*Daily precipitation for May, 1911. District No. 5*—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	31	
Illinois—Contd.																																	
Dwight	Illinois	.24							T.												.77	.09	.11	.12					1.00	.21	.25		2.79
East St. Louis‖	Mississippi	.36																				.94		.06						.35	T.	.40	2.61
Edwardsville	do	.11																				.27							.06	.10	T.	.44	0.98
Elgin	Illinois	T.	T.						T.						T.						.19	.52	T.						.11	.40	.02		1.24
Galva‖	do	.19	.07						.05	.08						.03					.51	.05	.22	.08					.03	.13	.17	.01	1.62
Grafton‖	Mississippi	.74																				.25								.08		.43	1.50
Greenville	do	.05																				.04							.32	.20		.25	0.86
Griggsville	Illinois	T.							T.												.58	T.	T.	T.							.18	.45	1.21
Havana	do	T.						T.	.46												.43	.34							.28				1.51
Henry	do																																
Hillsboro‖	Mississippi	.65	.15																			.15								.20		.35	1.50
Joliet	Illinois	.15	T.						.02	.21											1.49	.10	.70					T.	.86	T.		.12	3.65
Kishwaukee	Mississippi	.52	T.						.18						.75			.01			.05	.29	.31	.22					.13	.04		.05	2.55
La Grange	Illinois	.48								.09											.60	.15	.25	.05					.73	.09			2.44
La Harpe	do	T.							T.												T.	T.	.23						.97	.30		.03	1.53
Lanark	Mississippi	.50							.42	T.					.90			.02			.33	1.70	.40	.08					.09	.05		.09	4.58
La Salle	Illinois	.10							T.						T.					T.	.22		T.						1.60	.05			1.97
Lincoln	do	.02							T.												.80	.32		T.					.40	.20	T.	.05	1.79
Loami	do	T.							T.	T.											T.	.60	T.						.25		.50	.32	1.67
Martinton‖	do	.04																		T.	3.94	.18	.21						.91	.51		T.	5.79
Mascoutah	Mississippi																					1.27		.02					T.	.07	.01	.31	1.68
Minonk	Illinois	T.							.09												.70	T.	T.	.17					.29	.07	T.		1.32
Monmouth	Mississippi								.24	.05										.14	.33	.08							.30	.33		.06	1.53
Morrison	do	.24							T.						1.11			.02			.27	.71	.05	.07					.12	.02		.06	2.67
Morrisonville	Illinois	.13	.01																T.		T.	.02		T.					T.	.18	T.	.33	0.67
Mount Vernon‖	Mississippi	.85											.05									.02								T.		.14	1.06
Oregon	do	.42													.60			T.			T.	.45		.20						T.			1.67
Ottawa	Illinois	.32																			.61	.69	.08						.83	.11			2.64
Pana	Mississippi	.19								T.										T.	.50							T.	T.	T.	.25	.18	1.12
Peoria	Illinois	T.							.06	T.											.11	.06	.02	.01				T.	.76	T.		.01	1.03
Pontiac	do	.13							.05	.04											.47	.15	.03	.11					.75	.53			2.26
Riley	Mississippi	.25							.19						.15						1.69		.11						.09	.03		.13	2.64
Rockford‖	do	.55	.01						.08	.17	T.					.54			T.		.01	.03	.71	.34					.03	.20	.13	.18	2.98
Rushville	Illinois								.18												.82		T.						.71			.06	1.77
St. Charles	do	.40	.02						.01	.10					T.			T.			.32	.35	.25	.01					.34	.22			2.02
St. Peter	Mississippi	.45										T.									T.	.25										.25	0.95
Sparta	do	.46		T.								T.									.20								.09	.33		.38	1.46
Springfield	Illinois	.01							T.	.01											.77	T.	T.					.06	.15		.03	.15	1.18
Streator ‖	do	.29	.26							.04												.60	.04	.09					.05	.86	.04	.06	2.33
Sullivan	Mississippi	.21								.19											.61	.60	.71							.80	T.	.09	3.21
Sycamore	do	.50	.05							.15						.16			T.		.30	1.05	.07	.02				T.	.18	.08			2.56
Tiskilwa	Illinois	.12													T.						.05	.75		.15					.38	.10			1.55
Walnut	Mississippi	.37							.03						.50						.04	.80	.12	.14				.46	.02	.12			2.60
Warsaw‖	do																			.15			T.					T.			.17		0.32
White Hall	Illinois	.04								T.												.20	T.						.22		.13	.51	1.10
Windsor	Mississippi	.25								.63										T.	2.25	.43	.42						.05	.43	T.		4.46
Winnebago	do	.60							.17						.74			T.			.09	.40	.09	.14					.33	.04		.15	2.75
Yorkville	Illinois	T.							.20	.25											.85	.65	.35						.75	T.			3.05
Zion	Mississippi	.03							.05						1.59					.45	.51	.50	.08	.05					T.	T.		T.	3.26

* 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 May, 1911. District No. 5, Upper Mississippi Valley.*

Date.	North Dakota.										Minnesota.																	
	Bottineau.§§		Devils Lake.		Lisbon.		Minot.§§		Pembina.§§		Collegeville.		Crookston.§§		Grand Meadow.		Montevideo.§§		Moorhead.		New Ulm.§§		Pine River Dam.		St. Paul.		Winnibigoshish.	
	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	45	16	43	20	.....	.....	47	15	46	18	49	28	42	21	44	26	54	27	48	25	53	32	47	21	49	30	47	26
2	55	17	51	19	.....	.....	55	13	55	16	51	28	50	21	50	28	57	23	54	21	55	28	52	27	52	29	51	26
3	64	24	61	25	.....	.....	66	26	64	18	58	28	58	27	59	29	66	23	62	23	62	27	57	26	60	34	58	30
4	67	32	69	37	.....	.....	69	38	74	28	67	38	69	32	64	30	78	28	72	25	69	30	66	21	65	37	68	26
5	85	40	77	43	.....	.....	86	42	78	38	72	44	74	40	70	34	76	40	75	37	76	35	72	26	71	40	69	38
6	81	44	75	46	.....	.....	88	50	80	44	72	49	77	48	72	39	79	48	79	48	78	40	74	41	74	46	72	47
7	69	36	69	47	.....	.....	71	48	74	54	72	48	71	53	76	49	67	54	72	48	77	42	69	47	75	53	68	50
8	81	38	80	43	.....	.....	84	42	85	38	78	43	80	38	81	52	83	35	83	34	84	44	78	30	78	42	76	34
9	75	42	78	47	.....	.....	83	49	79	42	80	56	76	50	87	50	94	48	84	54	93	46	77	48	80	57	70	49
10	47	40	54	36	.....	.....	51	40	54	50	89	58	57	53	89	60	92	56	63	42	91	62	68	47	88	51	69	45
11	40	32	36	33	.....	.....	48	38	50	32	85	42	49	35	79	42	64	43	42	33	66	42	64	36	61	45	64	35
12	69	26	60	32	.....	.....	75	27	58	27	64	34	55	31	62	35	69	32	60	32	68	38	60	34	62	35	57	32
13	84	35	77	48	.....	.....	74	38	78	34	79	47	78	42	78	37	84	45	84	44	86	38	80	30	80	44	76	33
14	77	50	69	51	.....	.....	75	49	68	47	88	57	80	52	77	56	92	60	89	61	89	55	86	68	81	58	76	52
15	59	43	57	47	.....	.....	55	47	58	48	84	60	66	54	80	61	76	59	68	55	82	63	78	50	72	59	76	53
16	66	50	76	52	.....	.....	70	49	70	52	85	49	80	54	83	65	90	60	84	52	91	63	71	48	86	66	69	47
17	86	46	88	52	.....	.....	85	47	88	48	87	69	89	53	90	64	96	55	92	52	92	66	88	68	90	66	89	46
18	75	50	75	51	.....	.....	74	55	76	54	89	59	82	60	90	67	97	56	86	58	86	68	90	74	90	70	88	68
19	69	39	69	47	.....	.....	70	44	73	53	88	59	75	54	82	56	74	57	76	53	78	58	82	59	75	61	82	60
20	53	39	51	42	.....	.....	61	38	53	44	75	54	55	50	77	58	74	55	60	47	68	50	79	45	79	54	73	47
21	70	30	65	38	.....	.....	72	35	68	34	67	49	67	40	59	50	63	46	70	39	65	43	68	43	64	54	72	45
22	76	41	68	41	.....	.....	74	40	72	43	72	49	63	52	54	47	68	32	62	51	75	53	60	50	74	54	67	50
23	74	44	70	44	.....	.....	74	47	74	45	73	50	70	53	70	49	80	54	72	48	75	50	70	48	68	52	63	50
24	76	52	82	51	.....	.....	73	53	78	48	79	55	83	51	80	51	86	55	84	52	85	53	79	42	79	55	79	41
25	59	40	66	46	.....	.....	62	44	69	46	85	61	69	52	89	61	85	56	72	54	93	60	82	48	85	65	84	51
26	46	42	50	40	.....	.....	44	42	46	46	89	68	84	51	89	62	95	60	93	55	95	68	91	55	90	68	84	57
27	49	35	52	38	.....	.....	49	37	53	42	86	53	60	45	82	49	71	52	62	45	68	63	85	55	79	57	74	57
28	62	30	63	33	.....	.....	65	32	62	34	66	45	64	38	61	46	70	43	65	38	65	49	66	54	63	52	65	43
29	65	33	68	46	.....	.....	67	46	72	48	72	49	73	43	72	44	76	52	74	39	78	49	72	36	71	50	72	37
30	71	48	67	51	.....	.....	76	50	59	52	74	53	60	53	77	50	82	55	63	51	80	58	66	54	74	54	69	48
31	83	48	83	49	.....	.....	85	53	81	46	77	52	80	45	79	55	86	50	82	46	76	53	77	53	78	55	78	49
Mns..	67.0	38.1	66.1	41.8	.....	.....	68.6	41.1	67.6	40.9	75.9	49.5	68.9	44.9	74.3	48.5	78.2	47.1	72.0	43.9	77.4	49.2	72.7	44.6	74.0	51.4	71.1	44.3

Date.	Wisconsin.														Iowa.													
	Delavan.		Eau Claire.		La Crosse.		Madison.		Mauston.		Spooner.		Wausau.		Algona.		Cedar Rapids.§§		Charles City.		Davenport.		Des Moines.		Dubuque.		Keokuk.	
	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....	48	33	49	31	43	30	40	32	52	35	50	23	47	28	47	30	43	39	46	30	63	36	50	34	48	35	68	40
2....	51	26	53	27	51	26	47	31	50	27	52	23	44	21	51	30	51	33	52	32	52	33	53	35	50	31	55	35
3....	59	31	60	28	58	31	54	36	60	34	58	25	53	25	60	32	60	35	59	31	60	37	60	39	58	34	60	37
4....	61	37	67	29	65	31	60	40	60	29	65	24	60	27	66	34	65	31	64	32	66	40	66	43	63	35	66	40
5....	70	35	75	32	71	35	67	42	70	29	71	38	69	29	71	38	70	37	69	35	69	45	69	42	69	42	69	44
6....	70	37	75	41	73	45	69	46	70	40	75	45	71	40	75	41	74	41	73	43	72	47	73	47	71	43	72	46
7....	76	42	77	53	80	53	75	48	76	40	77	42	78	38	80	52	80	47	76	48	77	54	76	53	78	54	77	51
8....	70	55	83	53	81	58	67	59	76	60	77	37	74	55	82	53	80	55	82	54	79	58	82	62	77	56	83	62
9....	83	46	84	46	84	53	81	54	86	50	82	50	80	48	89	59	90	57	88	55	88	58	88	65	86	55	87	68
10....	88	54	89	60	90	60	86	56	90	57	82	50	81	56	90	64	90	62	88	53	89	67	90	54	89	69	87	69
11....	76	55	86	47	73	50	72	51	80	50	78	45	81	38	72	44	75	50	72	46	76	53	74	47	76	52	83	55
12....	71	49	62	37	65	44	64	48	65	48	61	34	65	38	69	38	68	45	68	42	72	54	67	49	68	52	81	55
13....	68	35	78	37	78	42	70	42	70	40	75	42	68	35	80	48	81	47	77	44	81	47	80	52	76	47	83	54
14....	74	50	81	57	74	55	71	51	74	52	80	55	71	47	83	60	77	50	80	58	77	57	79	62	73	54	87	67
15....	83	60	75	62	81	64	78	64	84	64	74	53	74	60	83	68	89	60	82	64	87	66	83	66	86	67	89	69
16....	88	56	87	66	86	67	83	65	80	64	84	54	73	53	85	66	90	66	84	68	88	69	87	70	86	71	90	71
17....	88	63	91	62	88	70	83	67	84	67	87	51	87	63	89	62	85	71	88	66	89	70	88	70	82	67	90	72
18....	88	65	91	68	90	70	85	67	87	68	90	68	87	60	89	67	89	68	88	68	87	70	88	70	86	70	89	72
19....	90	68	86	62	85	61	87	63	85	68	80	59	86	67	83	57	89	72	83	57	89	64	85	60	87	62	87	75
20....	87	61	80	54	80	58	75	62	80	61	75	49	82	61	77	53	79	61	76	53	82	64	75	56	79	63	83	64
21....	76	60	73	55	66	57	68	60	76	55	77	49	77	54	66	53	80	61	65	58	80	65	72	56	78	64	78	65
22....	74	56	73	55	75	56	72	59	70	58	72	51	64	54	72	45	73	55	71	50	77	60	67	51	74	59	76	58
23....	69	56	70	55	72	54	68	56	68	48	64	47	69	53	76	46	73	52	72	50	72	55	75	48	70	56	77	53
24....	89	48	81	55	82	53	78	57	78	52	79	49	78	48	85	60	88	54	83	52	89	58	91	57	83	55	93	59
25....	92	69	87	63	91	67	88	61	88	60	87	63	84	54	90	61	95	60	91	64	93	67	93	69	91	68	94	67
26....	93	61	92	64	91	70	88	63	90	68	90	58	90	62	89	74	95	68	89	66	92	70	90	69	90	71	93	71
27....	92	66	87	62	87	58	87	66	87	68	80	55	88	68	81	57	92	69	83	57	92	69	85	60	89	64	91	70
28....	83	62	64	49	62	55	69	59	73	58	65	44	77	52	66	51	66	.....	62	53	74	61	60	51	71	58	83	65
29....	65	50	75	46	76	51	66	55	70	54	75	43	72	48	75	45	86	.....	72	50	69	57	68	54	69	58	76	59
30....	78	50	72	49	76	56	77	55	75	52	70	49	72	40	79	58	86	57	79	56	85	56	84	57	80	58	88	59
31....	76	58	75	55	72	57	71	60	72	55	74	51	72	50	79	56	75	57	76	57	78	62	78	64	74	60	81	67
Mns..	76.6	51.4	76.7	50.3	75.7	52.8	72.5	54.2	75.0	52.0	74.4	46.0	73.4	47.5	76.7	51.7	78.5	53.8	75.4	51.4	78.8	57.1	76.6	55.2	76.0	55.8	81.2	59.3

TABLE 3.—*Maximum and minimum temperatures at selected stations for May, 1911. District No. 5*—Continued.

Date.	Hannibal, Mo.		Laporte, Ind.		Illinois.															
					Cairo.		Greenville.		La Salle.		Monmouth.		Mount Vernon.§§		Peoria.		Springfield.		Winnebago.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	57	39	50	33	66	45	61	43	51	38	66	39	57	51	63	38	63	42	60	34
2	56	35	49	34	57	43	58	35	54	32	54	29	58	40	55	30	57	35	52	28
3	56	37	59	28	[illegible]	[illegible]	58	38	59	35	63	32	57	36	60	30	58	37	59	30
4	65	39	59	34	[illegible]	[illegible]	66	39	64	35	70	37	65	40	66	33	65	41	62	35
5	67	42	65	31	67	48	69	40	69	39	73	58	67	40	68	34	67	43	70	35
6	72	40	75	33	71	49	74	49	72	41	74	40	71	42	72	39	72	44	73	46
7	77	51	80	48	76	51	78	50	78	51	80	40	79	43	78	42	77	48	78	45
8	84	60	81	47	81	54	82	52	81	58	83	53	81	45	83	55	83	55	74	54
9	87	66	80	55	85	60	87	62	88	56	90	53	89	59	88	60	89	62	86	48
10	87	66	87	57	83	62	84	60	87	61	89	62	86	57	88	62	86	62	87	55
11	75	57	78	64	83	65	75	65	76	58	78	53	84	60	74	56	76	61	76	52
12	82	54	76	48	81	65	84	56	75	50	82	52	83	59	80	51	83	56	70	46
13	83	57	73	36	84	65	85	57	79	43	86	48	86	55	84	49	84	53	75	38
14	88	69	79	48	85	63	86	60	86	57	88	64	85	69	86	61	87	62	77	55
15	90	68	89	49	86	64	88	57	89	60	93	60	89	58	89	63	89	61	85	60
16	88	68	90	58	86	67	87	65	90	66	93	65	90	61	90	64	90	64	88	65
17	90	71	91	58	89	68	88	65	91	67	93	67	91	63	91	67	91	68	86	66
18	89	71	91	60	91	71	89	67	92	68	90	67	93	62	92	69	91	69	86	65
19	88	70	91	62	87	72	88	68	90	69	90	68	89	66	89	70	90	69	89	70
20	80	63	87	68	79	69	87	65	81	64	85	63	84	68	82	65	88	65	83	60
21	74	60	85	63	81	67	78	63	80	65	83	63	82	66	80	64	81	65	80	62
22	76	57	80	61	83	67	79	62	78	62	80	56	84	64	79	59	80	63	78	60
23	78	50	75	53	87	64	78	58	72	57	77	56	83	58	76	55	79	58	70	52
24	93	53	80	44	92	64	88	59	87	53	93	53	93	53	90	51	92	56	84	50
25	93	66	94	52	93	68	91	64	95	63	96	62	97	60	93	63	94	65	91	60
26	93	69	94	62	95	71	93	66	94	65	96	67	98	61	95	65	95	68	93	64
27	91	72	96	60	94	70	93	67	93	70	95	65	99	60	94	68	94	68	91	66
28	89	66	91	62	96	71	96	68	84	64	85	63	97	63	91	64	93	67	79	62
29	81	60	80	50	93	72	87	65	71	57	70	58	96	72	75	61	84	64	68	54
30	88	64	76	56	94	73	86	66	82	57	88	54	96	68	85	60	85	61	83	56
31	81	63	74	59	89	69	83	64	81	63	84	61	89	64	83	59	86	67	72	62
Means	80.6	58.2	79.2	50.6	82.5	62.3	81.5	57.9	79.6	55.6	82.8	54.5	83.8	56.9	81.3	55.1	82.2	58.0	77.6	52.7

"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.