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John F. Miller
Chief, Water Management Information
Division
Office of Hydrology, NWS

The March-April 1969 Snowmelt Floods in the Red River of the North, Upper Mississippi, and Missouri Basins

JOSEPH L. H. PAULHUS

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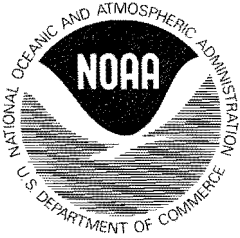
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School in Minot, N. Dak., protected from flood waters by emergency dikes erected on basis of early warnings.
Photographed by North Dakota National Guard on April 11, 1969, 8 days before flood crested.



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**The March-April 1969 Snowmelt Floods
in the Red River of the North,
Upper Mississippi, and Missouri Basins**

JOSEPH L. H. PAULHUS

Hydrometeorological Consultant

OFFICE OF HYDROLOGY
SILVER SPRING, MD.

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Contents

| | PAGE |
|--|------|
| Introduction..... | 1 |
| Flood Area and Basin Descriptions..... | 2 |
| Antecedent Conditions: | |
| Red River of the North Basin..... | 2 |
| Upper Mississippi Basin..... | 3 |
| Missouri Basin..... | 3 |
| The March-April Floods: | |
| Red River of the North Basin..... | 3 |
| Upper Mississippi Basin..... | 4 |
| Missouri Basin..... | 5 |
| Flood Damage and Savings..... | 6 |
| Acknowledgments..... | 6 |
| References..... | 7 |
| Appendix A: Sources of Data..... | 7 |
| Appendix B: Operation Foresight..... | 8 |
| Appendix C: Depth of Snow on ground and Water Equivalent, February–April 1969..... | 9 |

ILLUSTRATIONS

School in Minot, N. Dak., protected from flood waters by emergency dikes erected on basis of early warnings. Photographed by North Dakota National Guard on April 11, 1969, 8 days before flood crested..... Frontispiece

| | |
|--|----|
| Figure | |
| 1. River stations where flood crested in March..... | 10 |
| 2. River stations where flood crested in April..... | 11 |
| 3. Normal daily average temperature and departure from normal, December 1968, January and February 1969..... | 12 |
| 4. Average daily temperature, March 1969..... | 13 |

| | PAGE |
|---|------|
| 5. Temperature departure from normal, March 1969..... | 14 |
| 6. Total monthly precipitation and percent of normal, December 1968, January and February 1969..... | 15 |
| 7. Total winter precipitation, December 1968, January and February 1969..... | 16 |
| 8. Percent of normal winter precipitation, December 1968, January and February 1969..... | 17 |
| 9. Total monthly snowfall and percent of normal, December 1968, January and February 1969..... | 18 |
| 10. Total monthly precipitation, March 1969..... | 19 |
| 11. Percent of normal precipitation, March 1969..... | 20 |
| 12. Weekly depth of snow on ground, January 13 to February 17, 1969..... | 21 |
| 13. Weekly depth of snow on ground, February 24 to March 31, 1969..... | 22 |
| 14. Water equivalent of snow on ground, March 14, 1969..... | 23 |
| 15. Water equivalent of snow on ground, March 28, 1969..... | 24 |
| 16. Number of days with average temperature above 32°F in first prolonged March warm spell and beginning date..... | 25 |
| 17. Accumulated melting degree-days, March 19-23, 1969..... | 26 |
| 18. Accumulated melting degree-days, March 24-31, 1969..... | 27 |
| 19. Accumulated melting degree-days, April 1-8, 1969..... | 28 |
| 20. Depth of snow on ground, April 1 and April 9, 1969..... | 29 |
| 21. Total monthly precipitation, April 1969..... | 30 |
| 22. Percent of normal precipitation, April 1969..... | 31 |
| 23. Total storm precipitation, April 1-6, 1969..... | 32 |
| 24. Total storm precipitation, April 13-19, 1969..... | 33 |
| 25. River stage hydrographs: Red River of the North at Wahpeton, Fargo, and Grand Forks, N. Dak..... | 34 |
| 26. River stage hydrographs: Crow River at Rockford, Minn., and West Fork Des Moines River at Jackson, Minn., and Humboldt, Iowa..... | 35 |
| 27. River stage hydrographs: Minnesota River at Montevideo, Mankato, Jordan, and Chaska, Minn..... | 36 |
| 28. River stage hydrographs: Mississippi River at Aitken, St. Paul, and Winona, Minn..... | 37 |
| 29. River stage hydrographs: Mississippi River at Dubuque and Keokuk, Iowa, and Grafton, Ill..... | 38 |

| | PAGE |
|---|------|
| 30. River stage hydrographs: James River at Huron, S. Dak., Big Sioux River at Akron, Iowa, and Little Sioux River at Peterson, Iowa..... | 39 |
| 31. Comparison of Red River of the North 1969 flood hydrograph for Grand Forks, N. Dak., with hydrographs of other major floods..... | 40 |
| 32. Weather conditions associated with April 1969 flood on the Mississippi River at Minneapolis, Minn..... | 41 |
| 33. Colorado climatological stations..... | 42 |
| 34. Illinois climatological stations..... | 43 |
| 35. Iowa climatological stations..... | 44 |
| 36. Kansas climatological stations..... | 45 |
| 37. Michigan climatological stations..... | 46 |
| 38. Minnesota climatological stations..... | 47 |
| 39. Missouri climatological stations..... | 48 |
| 40. Montana climatological stations..... | 49 |
| 41. Nebraska climatological stations..... | 50 |
| 42. North Dakota climatological stations..... | 51 |
| 43. South Dakota climatological stations..... | 52 |
| 44. Wisconsin climatological stations..... | 53 |
| 45. Wyoming climatological stations..... | 54 |

TABLES

Table

| | |
|--|----|
| 1. Flood stage and comparative crest stage data: Red River of the North, Upper Mississippi, and Missouri Basins..... | 55 |
| 2. Major floods in order of magnitude: Red River of the North, Upper Mississippi, and Missouri Basins..... | 61 |
| 3. Weather highlights for selected stations, December 1968 through March 1969... | 65 |
| 4. Summary of estimates of flood damage sustained and prevented and Federal assistance provided (in \$1,000)..... | 66 |
| 5. Depth of snow on ground and water equivalent, in inches, February–April 1969, Iowa..... | 67 |
| 6. Depth of snow on ground and water equivalent, in inches, February–April 1969, Michigan..... | 70 |
| 7. Depth of snow on ground and water equivalent, in inches, February–April 1969, Minnesota..... | 71 |

| | PAGE |
|---|------|
| 8. Depth of snow on ground and water equivalent, in inches, for February–April 1969, Montana..... | 78 |
| 9. Depth of snow on ground and water equivalent, in inches, for February–April 1969, Nebraska..... | 79 |
| 10. Depth of snow on ground and water equivalent, in inches, for February–April 1969, North Dakota..... | 81 |
| 11. Depth of snow on ground and water equivalent, in inches, for South Dakota..... | 86 |
| 12. Depth of snow on ground and water equivalent, in inches, for Wisconsin..... | 90 |

The March-April 1969 Snowmelt Floods in the Red River of the North, Upper Mississippi, and Missouri Basins

JOSEPH L. H. PAULHUS

Hydrometeorological Consultant

ABSTRACT. The 1969 snowmelt floods in the Red River of the North, Upper Mississippi, and Missouri Basins rank among the most severe in this region in terms of crest stages reached and damages sustained. Record flooding occurred at many places in the Red River of the North Basin and on tributaries of the Missouri River in the Dakotas and Iowa. Record or near-record flooding also occurred along tributaries of the Upper Mississippi River in Minnesota and Iowa and along the main stream from the headwaters down to Davenport, Iowa. Nine deaths were reported, and total damage was estimated at \$151 million. Accurate and timely flood forecasts and Operation Foresight, the federally sponsored cooperative effort to reduce or alleviate flood damage, kept the death toll low, and prevented at least \$100 million in additional damage. Existing flood-control projects prevented damage amounting to another \$97 million.

The 1969 snowmelt floods were the result of a very wet autumn, an extremely heavy winter snowfall, and an unusually cold winter. The first extensive melting occurred in mid-March, at which time the snow cover was of record amounts in many areas because there had been little or no previous melting. Following several days of melting, which produced record or near-record streamflow in various tributaries, especially in Iowa and southern Nebraska, an abnormally cold air mass moved into the region, bringing record low temperatures on the last few days of March. The low temperatures caused much of the melt water seeping down through the snow cover to freeze and thus reduced runoff and streamflow. These below freezing temperatures resulted in the retention of the snow cover well into April, when melting temperatures are normal. Melting resumed after the first few days of April, and this, plus several wet spells during the month, produced severe flooding in areas that had not experienced March flooding and in many areas that had. If March had been warm and wet as in 1965, instead of abnormally cold and dry, the 1969 floods would very likely have been the most severe on record for all three basins.

INTRODUCTION

The March-April 1969 snowmelt floods in the Red River of the North, Upper Mississippi, and Missouri Basins set new record crest stages or reached near-record stages on various tributaries in Iowa, Minnesota, the Dakotas, and Montana (tables 1 and 2, and figs. 1 and 2).

In the Red River of the North Basin, the flood was the most severe since 1897 along the main channel

from the headwaters to Grand Forks, N. Dak. New record stages were established on Red Lake River at Crookston, Minn., on the Sheyenne River at West Fargo, N. Dak., and at various locations on the Souris River in North Dakota.

In the Upper Mississippi Basin, near-record to record flooding occurred on tributaries in Minnesota and Iowa. Along the main stream from St. Paul to Winona, Minn., and at scattered points down to Davenport, Iowa, crest stages were the second

highest of record, having been exceeded only by those of the 1965 flood.

In the Missouri Basin, record flooding occurred on some tributaries in Montana, the Dakotas, and Iowa. Flooding along the main stream of the Missouri River was confined to the reach from Nebraska City, Nebr., to the Mississippi River.

The weather conditions responsible for this outstanding flood were: (1) heavy September and October rainfalls, (2) an unusually cold and wet winter with a very heavy snowfall accumulation and very little intermittent melting, (3) the onset of warm, above-normal temperatures beginning in mid-March, and (4) above-normal April rainfall over much of the Upper Mississippi and Lower Missouri Basins.

Flood damage was estimated at \$151 million, and nine deaths were reported. Accurate and timely forecasts by the Weather Bureau, plus Operation Foresight (appendix B), kept the death toll low and prevented damage amounting to at least \$100 million, exclusive of the \$97 million of potential damage avoided by existing flood-control projects.

FLOOD AREA AND BASIN DESCRIPTIONS

The flood area covered portions of three major river basins, namely: the Red River of the North, Upper Mississippi, and the Missouri Basins. It covered portions of 10 states: Montana, North Dakota, South Dakota, Minnesota, Wisconsin, Iowa, Nebraska, Kansas, Missouri, and Illinois.

The Red River of the North Basin, is adjacent to the Upper Mississippi Basin on the northwest. The river rises in west-central Minnesota only a short distance from the headwaters of the Minnesota River, a tributary of the Mississippi River. It flows northward about 400 miles to the Canadian border, forming the boundary between Minnesota and North Dakota, and is the largest northward-flowing river in the United States. Its drainage area in the United States is about 40,200 mi.² including about 3,800 mi.² of closed basins in North Dakota but excluding the area in North Dakota drained by the Souris River, which empties into the main stream well north of the Canadian border. Most of the basin was severely affected by the flood.

The Upper Mississippi River drains an area of about 188,000 mi.² Most of the basin experienced flooding in March-April 1969.

The Missouri Basin comprises an area of about 529,400 mi.² but less than 15 percent of it had severe flooding.

ANTECEDENT CONDITIONS

The 1968-69 winter (Dec.-Feb.) in the Central and North-Central States was one of the severest of

record in terms of continued cold weather, persistent cloudiness, heavy snowfall, long duration of the snow cover, and high water equivalent of the snow cover. The unusual weather resulted from a general southward displacement from normal of the storm tracks across the area of interest. The reasons for the displacement and the effects on the general weather have been described in detail (Green 1969, Wagner 1969, Stark 1969). Weather highlights for selected stations are listed in table 3. The weather was well summarized as follows, by the Headquarters of the Weather Bureau's Central Region at Kansas City, Mo.

Hydrologically, the 1968-69 winter began in October when two to three times the normal precipitation occurred over eastern Kansas, eastern Nebraska, and most of Iowa and Minnesota. November was relatively dry, but the soil remained wet until freezeup. Heavy snows began about December 10 and were repeated two weeks later. Light to moderate snowfalls occurred at frequent intervals in December, January, February, and the first week of March. Once established, the snow blanket gradually increased so that extensive areas had a continuous cover for more than 90 days. Precipitation for the December-February period was well above normal over most of the area of interest.

The southward displacement of storms in the 1968-69 winter resulted in unusual cloudiness. Sunshine was about three-quarters of the average for winter, which was one reason for the below-normal temperatures over the area.

Temperatures for December and January averaged 5 to 10°F below normal, and showed little spatial variation. February averages were mostly near normal. The first half of March was characterized by temperatures 10 to 15°F below normal, which were below freezing over most of the area.

The surface layers of the atmosphere were more humid than usual, and the combination of cold, moist air and below-normal sunshine permitted little evaporation of the snow cover. It was estimated that in much of the area at least three-fourths of the winter precipitation was still on the ground in early March.

The situation was such as to indicate a potentially outstanding snowmelt flood even under normal melting conditions (Posey 1969).

Red River of the North Basin

Winter temperatures ranged 2 to 10°F below normal in December and January, but February temperatures averaged slightly over 3°F above normal (fig. 3). However, since the average normal February temperature for the basin is about 8°F, there was no melting from this warmer than normal weather. Average March temperatures (fig. 4) ranged between 12 and 18°F, or about 2 to 10°F below normal (fig. 5). Most of the basin had no melting degree-days (above 32°F) during the entire month, and no part of it had more than 10 melting degree-days, so there was no appreciable melting in March.

Winter (Dec.-Feb.) precipitation (figs. 6 and 7), practically all snow (fig. 9), was well above normal for each of the 3 months, reaching 300 percent in three scattered portions of the basin (fig. 8). March

was relatively dry, with precipitation averaging less than one-half inch (fig. 10), or less than 50 percent of normal (fig. 11). The precipitation, however, was mostly snow, which, added to the already unusually deep snow cover (fig. 13), further intensified the very serious flood potential. The water equivalent of the snow cover at mid-March averaged about 4 inches (fig. 14), and was about the same at the end of the month (fig. 15).

Upper Mississippi Basin

Average temperatures in December and January ranged from 2 to 6°F below normal (fig. 3). In February the temperatures ranged from near normal in the extreme southern portion of the basin to about 4°F above normal in the northern portion. Temperatures were warm enough in parts of Illinois, Iowa, and Missouri to cause some melting and, in some cases, temporary disappearance of the snow cover (figs. 12 and 13). What little melting did occur in February was gradual, and no flooding was reported anywhere in the basin.

March was a relatively cold month, with temperatures ranging from about 2 to over 8°F below normal (fig. 5). The low temperatures, however, were concentrated in the first half and the last few days of the month. The onset about mid-March of the first widespread, prolonged, warm spell (fig. 16) produced the first extensive, appreciable melting of the season. The resultant flooding is described in THE MARCH-APRIL FLOODS.

Precipitation was above normal over the entire basin in December and January, but mostly below normal in February (fig. 6). Wisconsin, eastern Minnesota, and western Illinois had less than 50 percent of normal this month, but averaged above normal for the 3-month period (fig. 8). March precipitation (fig. 10) was below normal over almost the entire basin (fig. 11), but much of it, especially in the first half of the month, was snow. In mid-March the water equivalent of the snow cover was near a maximum over most of the basin, ranging up to over 10 inches in southwestern Minnesota and eastern South Dakota (fig. 14).

Missouri Basin

December and January temperatures were well below normal over the entire basin, ranging from about 2°F below normal near the junction with the Mississippi River to more than 20°F below normal in Montana (fig. 3). February temperatures averaged near normal except for slightly below normal in Nebraska and northern Kansas, and more than 6°F below normal in Montana. Some melting occurred in the southern portion of the basin when daily average

temperatures in the last week of February exceeded 32°F, and flooding was reported on some tributaries in Iowa and Kansas. The Nishnabotna River at Hamburg, Iowa, exceeded flood stage on February 25, and the Big Blue River at Blue Rapids, Kans., on February 26. The latter river reached its highest crest stage of the season on February 27 (table 1).

March temperatures (fig. 4) averaged 5 to 10°F below normal over the entire basin (fig. 5). Most of the abnormally cold weather, however, occurred in the first half and the last few days of the month. Rapid, widespread, prolonged warming in mid-March resulted in rapid melting and extensive flooding, as described in THE MARCH-APRIL FLOODS.

Precipitation was generally above normal in every month of the winter (fig. 6), and totaled from 4 to over 6 inches, or 300 to 400 percent of normal in the eastern Dakotas, southwestern Minnesota, and extreme northwestern Iowa (figs. 7 and 8). Most of this precipitation was in the form of snow (fig. 9). March precipitation was generally light, with totals of less than 1 inch, or 50 to 100 percent of normal, over most of the basin lying in the area of interest (figs. 10 and 11). However, precipitation was generally normal or slightly above normal in southwestern Minnesota, northwestern Iowa, southeastern South Dakota, northeastern Nebraska, and Kansas, with totals exceeding 2 inches in many places. The water equivalent of the snow cover on March 14 was unusually high, with amounts between 6 and 10 inches in tributary basins in northwestern Iowa, southwestern Minnesota, southeastern North Dakota, and eastern South Dakota (fig. 14).

THE MARCH-APRIL FLOODS

Red River of the North Basin

There was no flooding in the Red River of the North Basin in March. Normal daily average temperatures for March ranged from 20 to 25°F, and daily average temperatures for March 1969 (fig. 4) were 2 to 10°F below normal (fig. 5). Figures 16, 17, and 18 show that there were no melting degree-days over most of the basin in this month, and, consequently, very little melting. During the month the water equivalent of the snow cover at Fargo, N. Dak., diminished only 0.4 inch, from a high of 3.5 inches on March 1-15 to a low of 3.1 inches on March 31. Precipitation during this period totaled only 0.54 inch, much of which was in the form of snow, which amounted to 3.0 inches for the month. The maximum temperature at Fargo for the month was 37°F.

On April 1 snow depths over the basin ranged from one-half foot to about 3 feet (fig. 20), with an average water equivalent of about 4 inches for the

basin (fig. 15). April opened with a warming trend, and daily mean temperatures were well above 32°F by the end of the first week (fig. 19). Melting was well under way when a storm brought rain to the basin on April 7-9. Storm rainfall exceeded 2 inches in the extreme southern portion of the basin. The snow cover was rapidly depleted (fig. 20). For example, of the 32 inches of snow on the ground at McHenry, N. Dak., on April 3, only a trace remained on the 12th. By mid-April there was little measurable snow remaining on the basin.

Streams rose rapidly as a result of the combined snowmelt and rainfall runoff, and some exceeded flood stages beginning April 8 (table 1 and fig. 25). Some streams were above flood stage for a few days only, but continued rapid melting and additional rain maintained flooding on most streams into May, and at places on the Souris River into June. Crest stages were reached in April, however, with few exceptions. Record stages were established on the Sheyenne, Buffalo, Red Lake, and Souris Rivers (table 1). Crest stages on the Red River of the North did not set new records, but above Oslo, Minn., they were the highest since 1897 (table 1). Figure 31 compares the 1969 flood hydrograph for the Red River of the North at Grand Forks, N. Dak., with hydrographs of other major floods.

Upper Mississippi Basin

On March 1, snow depths over the basin ranged from zero at many places in the southern portion to over 50 inches in northern Iowa. The first half of March was unusually cold over most of the basin, but temperatures warmed up sufficiently about midmonth to produce melting (figs. 16, 17, and 32) and runoff. Streams in eastern and central Iowa and at scattered places in Minnesota, Wisconsin, Illinois, and Missouri rose above flood stages (table 1). Many of these streams crested in this month (fig. 1).

March flooding would have been much more severe but for two factors: (1) precipitation for the month (fig. 10) was below normal (fig. 11) over almost the entire basin, and (2) temperatures in the last week of the month dropped to record or near-record lows for this time of year in the northern and central portions of the basin (table 3 and figs. 18 and 32). These low temperatures caused freezing of the melt water from the mid-month warming, causing it to remain in the snow cover and temporarily slowed down or halted melt runoff. Numerous streams dropped below flood stage by the end of the month. On many streams in Iowa, the only flooding was in March, but other streams again rose above flood stage in early April with the advent of above-normal melting temperatures (Andrews 1969) and more than 1 inch of rain on April 4-5 (fig. 23). Some of the larger

streams remained above flood stage through the late March cold spell and well into April. In some cases, flood stage persisted into May, as at various places on the Minnesota River, for example.

The stations where floods crested in April are shown in figure 1. Many streams crested in both March and April, with some streams dropping to below flood stage between crests (table 1). Most of the smaller streams began overflowing about the end of the first week in April, with crests occurring before midmonth. In central and western Minnesota rainfall of 1 to slightly over 2 inches during the period April 7-9 was an important factor in rapidly bringing the already swollen or overflowing streams to abnormally high flood crests between April 9 and 14. New record crest stages experienced on the Rum and Minnesota Rivers in Minnesota and on the West Fork Des Moines River in Iowa were reached by April 14 (table 1 and figs. 26 and 27). These were the only new record stages established in the Upper Mississippi Basin.

Streams in the lower part of the basin, south of the heavy snow cover, rose above flood stages as a result of several moderate to heavy April rains. The storms of April 1-6 and 13-19 produced rainfall maxima in Illinois, Iowa, and Missouri of 2 and 3 inches (figs. 23 and 24).

Most of the rain in the first storm fell on April 4-5, and in the second storm on April 14-18. There was some light rain between these two wet periods. A final storm on April 25-28 produced 2- to 3-inch rainfall maxima in Minnesota and Iowa. Most streams crested before this storm, but it served to extend recession of the streamflow well into May in many cases.

The main stream of the Mississippi River did not rise generally above flood stages until about April 10 (table 1 and figs. 28 and 29). Normal and above-normal April rains (fig. 22) totaled about 2 to 4 inches throughout most of the basin (fig. 21). The rains delayed return of streamflow to below flood stages into May (table 1 and figs. 28 and 29), but except for a few places along the lower main stream, crest stages were reached in April. Only at Hannibal, Mo., was the highest crest observed in May, and that was on May 1. The river crested at Alton, Ill., and at St. Louis, Mo., on May 2 and May 1, respectively, but these crest stages were secondary to the April crests.

The weather conditions associated with the flooding of the Mississippi River at Minneapolis, Minn., are summarized graphically in figure 32. The graphs show a rapid depletion of the snow cover during the period March 16-23, when insolation and temperature were above normal. During this period the water equivalent of the snow cover over the Upper Mississippi Basin was reduced generally by

anywhere from 2 to over 4 inches (figs. 14 and 15). An invasion of cold air dropped temperatures to below normal during the period March 24-31 (fig. 32), and melting was practically halted until April (fig. 18). A return to normal temperatures beginning April 1, with dew points above 32°F and an accumulation of 40 to over 80 melting degree-days in the first 8 days (fig. 19), rapidly depleted the snow cover (fig. 20), and very little of it remained at midmonth. For another example, 47-inch snow cover on March 16 at Swea City, Iowa, in the West Fork Des Moines Basin, had been reduced to 22 inches on the 27th in spite of a 5-inch snowfall on March 19-20. Melting practically ceased until April 1, when it resumed and by April 7 eliminated the remaining 19-inch snow cover.

Crest stages on the Mississippi River from St. Paul to Winona, Minn., and at several places as far downstream as Davenport, Iowa, were the second highest of record, exceeded only by the 1965 flood (table 1). If the March-April 1969 precipitation over the basin had been as much as that of March-April 1965, which averaged about 200 percent of normal, there is little doubt but that the 1969 flood would have set many more new record crest stages than it did.

Missouri Basin

March flooding in this basin was restricted to the Yellowstone River in Montana and to some streams in Iowa, Nebraska, Kansas, and Missouri (table 1 and fig. 1). For example, the Nishnabotna River in Iowa, Buffalo Creek in Kansas, and the Big Blue River at Blue Rapids, Kans., rose above flood stages on February 25-26. This flooding was produced mostly by the melting of a heavy snowfall on February 14-15, and a lighter one on February 20-21. These two snowfalls extended the heavy snow cover southward well into Kansas (figs. 12 and 13). Melting temperatures following the second snowfall caused these streams to overflow, but flooding lasted a few days only. Except for Buffalo Creek, flood stages were again exceeded in mid-March. Flooding on the Loup River at Columbus, Nebr., on March 19-20, was caused primarily by ice jams. The Wood River in Nebraska was also in flood at the same time.

March temperatures (fig. 4) in this basin, as in the Upper Mississippi, were anywhere from 2 to 10°F below normal (fig. 5), most of the cold weather being concentrated in the first half of the month and in the last few days, when some record low temperatures for that time of year were established (table 3). In between these two cold periods, temperatures rose well above normal, and there were enough melting degree-days in Iowa and Nebraska (figs. 16, 17, and 18) to cause considerable melting. At Lake Park,

Iowa, in the Little Sioux River Basin, for example, the snow cover of 45 inches on March 14 was reduced to 30 inches by March 19, when low temperatures set in again. At the end of the month, the snow cover was 14 inches. Similarly, at Sioux City, Iowa, of the 4.1-inch water equivalent of the snow cover on March 16, only a trace remained on March 28, in spite of a 2-inch snowfall with a 0.7-inch water equivalent on March 19-20. A similar situation prevailed in Nebraska.

Farther north, however, temperatures were lower, and there was less melting. A snowstorm on March 18-19, which deposited as much as 6 inches of wet snow in central and east central South Dakota and up to 9 inches in southwestern Minnesota, replenished much of the melt water previously lost. At many places in these areas, the water equivalent of the snow cover on March 28 (fig. 15) showed little depletion from that on March 14 (fig. 14).

In the southern part of the basin there was very little snow on the ground, even at the beginning of March (fig. 13). A general 2- to 6-inch snowfall in Missouri on March 7-9 provided about the only March melt-water potential in that state. While Kansas was almost bare of snow on March 1 (fig. 13), it did get considerable snow in the period March 2-8, with totals amounting to over 12 inches in the western and central parts, and the southwestern part received an additional foot or so on March 14-15. March snowfall throughout most of Kansas was well above average for the month. The snow melted rapidly, however, and there was practically no snow left on the ground by March 17 except in the southwestern part (fig. 13).

The only flooding on the lower Yellowstone River resulted from ice jamming and lasted only one day, but a new record crest stage was established at Glendive, Mont., on March 20 (table 1).

On April 1, the only appreciable general snow cover remaining in the basin excluding the Rockies was in northeastern Montana, the Dakotas, Minnesota, and northwestern Iowa (fig. 20). In these areas there had been relatively little depletion of the snow cover in March, and the water equivalent values at the end of the month (fig. 15) were only slightly less than those at midmonth (fig. 14), when they were at near maximum for the season. For example, there was still 4 to 7 inches of water equivalent in the James River Basin in the Dakotas and in the Vermillion River Basin in South Dakota, and 5 to 8 inches in the Big Sioux River Basin in South Dakota.

April was a warmer than normal month, and precipitation (fig. 21) was above normal in the upper and lower portions of the basin, but precipitation in the central portion was somewhat below normal (fig. 22). The April 1 snow cover (fig. 20) melted rapidly

(fig. 19), and by April 9 little snow remained except in the headwater areas in the Rockies, central and northwestern North Dakota, and the Black Hills of South Dakota (fig. 20).

Several wet spells during April contributed additional runoff. During the period April 1-6, 3-inch rainfalls were reported in southeastern Nebraska and northern Missouri (fig. 23). A widespread storm brought 3-inch rains to eastern Nebraska, western Iowa, and to various places in Kansas and northern Missouri during the period April 13-19 (fig. 24). The last wet spell of the month, April 25-28, deposited as much as 3 to 4 inches of precipitation over eastern Montana, eastern Wyoming, western South Dakota, southwestern Iowa, eastern Kansas, and northwestern Missouri. In the northern part of the basin much of this precipitation was in the form of snow. One to over 2 feet of snow fell at various places in eastern Montana, eastern Wyoming, and western South Dakota. This late snowfall melted rapidly, and very little remained on the ground at the end of the month. For example, the fresh 29-inch snow cover on April 27 at Alva, Wyo., in Belle Fourche Basin, had dwindled to 5 inches on April 30.

The April melting was rapid, and most of the tributaries rose above flood stage by the end of the first week of the month or shortly thereafter (table 1 and fig. 30). River stages at numerous places were heightened by ice jams. New record stages were established on the Pipestem River in North Dakota, the James River in the Dakotas, and the Little Rock, Rock, and Big Sioux Rivers in Iowa (table 1). The crest measurements of April 9-10 on the Big Sioux River exceeded their previous record stages all the way down to Akron, Iowa. About 80,000 to 100,000 acres were inundated. North Sioux City and Renner, S. Dak., had to be totally evacuated, while partial evacuation was required at Baltic and Dell Rapids, S. Dak. Only minor flooding occurred on the Missouri River, and this did not generally persist for more than 1 or 2 days. All tributaries and the main stream had receded to below flood stage by May 2.

FLOOD DAMAGE AND SAVINGS

The March-April 1969 floods in the three basins caused property damage estimated at \$151 million (table 4) and at least nine deaths. Damage was about \$29 million less than in the 1965 floods (Paulhus and Nelson 1967). At least 25,000 persons were evacuated from their homes. Estimates of the homeless as a result of the floods included 15,000 in North Dakota; 4,000 in South Dakota; 3,100 in Minnesota; 950 in Illinois; 900 in Iowa; and 800 in Wisconsin.

Advance planning through Operation Foresight (appendix B) and accurate forecasting averted

outright disaster in many localities. It was estimated that at least \$100 million in damage was avoided (table 4). This estimate does not include an additional \$97 million in damage prevented by existing flood-control projects. The above estimates of damage sustained and savings effected by accurate forecasts and Operation Foresight are appreciably less than the preliminary estimates made as the floods subsided (American Society of Civil Engineers 1969, and Nelson 1969). The cost to the Federal government for implementing Operation Foresight was approximately \$13.9 million, or about 14 percent of the estimated savings effected.

The U.S. Army Corps of Engineers, chief flood-control agency of the Federal government, provided assistance in construction and reinforcement of levees. The funds expended for this were estimated to be about one-fourth the amount that would have been required if Operation Foresight had not been in effect. The Corps placed 1,000 technical experts or engineers in critical areas, provided 10 million sandbags, built more than 200 miles of emergency dikes, and approved construction contracts in some 400 communities. An additional force of 2,100 servicemen and National Guardsmen fought the floods shoulder to shoulder with townspeople. Over 5 million bushels of grain were moved out of the flood zones under supervision of the Interstate Commerce Commission. All these operations prevented millions of dollars in additional property loss (Nelson 1969).

The lot of the homeless was made somewhat easier and possible sickness averted by the American Red Cross, which served them and the workers some 250,000 meals.

ACKNOWLEDGMENTS

Elmer R. Nelson of the Office of Hydrology rendered valuable assistance in preparing the manuscript and in reviewing the final draft. The snow-depth and water-equivalent data of appendix C were compiled and edited by Keith Blessum, Hydrologic Specialist at the Weather Bureau River District Office, Fargo, N. Dak. Verne Alexander, Regional Hydrologist, Weather Bureau Central Region; and Ray E. Johnson, Hydrologist in Charge, and H. F. Mondschein, Principal Assistant at the River Forecast Center, Kansas City, Mo., assisted in collecting field data and reviewing the manuscript.

Meteorologists in charge of Weather Bureau Offices participating in the collection of basic information were: R. A. Dightman, Helena, Mont.; N. Woerner, Billings, Mont.; E. V. Hendrickson, Fargo, N. Dak.; H. G. Stommel, Bismarck, N. Dak.; E. F. Stapowich, Omaha, Nebr.; Miss B. McKain, Norfolk, Nebr.; R. A. Garrett, Topeka, Kans.; A. D.

Pearson, Kansas City, Mo.; G. N. Brancato, St. Louis, Mo.; W. A. Joern, Moline, Ill.; C. E. Lamoureux, Des Moines, Iowa; P. B. Holcomb, Sioux City, Iowa; and J. H. Strub, Jr., Minneapolis, Minn., who also reviewed the manuscript.

Hundreds of cooperative weather and river observers made most of the precipitation, temperature, and river-stage observations that provided data for this report. The U.S. Army Corps of Engineers provided the information on flood damage and flood-control operations. The U.S. Geological Survey contributed and coordinated crest-stage data.

R.F. Evans, Special Studies Branch, Office of Hydrology, compiled and plotted data for some of the precipitation and temperature maps, and made preliminary analyses of these maps.

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APPENDIX A

Flood data. Data on flood and crest stages (table 1 and figs. 1 and 2) and dates of flooding were obtained from the Weather Bureau River District Offices at the following cities:

Moline, Ill.
Des Moines, Iowa
Sioux City, Iowa
Topeka, Kans.
Minneapolis, Minn.
Kansas City, Mo.
St. Louis, Mo.
Billings, Mont.
Helena, Mont.
Norfolk, Nebr.
Omaha, Nebr.
Bismarck, N. Dak.
Fargo, N. Dak.

Other agencies, notably the U.S. Army Corps of Engineers and the U.S. Geological Survey, were involved in collecting these data. Estimates of flood

damages sustained and damages averted by Operation Foresight and existing flood-control projects were provided by the Corps.

Precipitation. The maps of figure 6 are copies of the maps published by the Environmental Data Service in its *Climatological Data National Summary*. These maps are based on selected stations only. The isopleths on the maps of figures 7, 8, 10, 11, 21, 22, 23, and 24 are based on data for all precipitation stations (figs. 33-45) published in the monthly *Local Climatological Data*.

Snow depth (snow on ground). The weekly snow-cover maps of figures 12 and 13 are copies of those issued jointly by the Environmental Data Service, U.S. Department of Commerce, and Statistical Reporting Service, U.S. Department of Agriculture, in the *Weekly Weather and Crop Bulletin*. These maps are based on selected stations only. The snow-depth map of figure 20 is based on all stations for which snow-on-ground data are published in the

monthly *Local Climatological Data*. Additional snow-depth data are listed in appendix C, which also explains how they were obtained.

Snowfall. The monthly snowfall maps of figure 9 are copies of the maps published by the Environmental Data Service in its monthly *Climatological Data National Summary*. These maps are based on selected stations only.

Temperature. The monthly temperature maps of figure 3 are copies of those published by Environmental Data Service in its monthly *Climatological Data National Summary*, and are based on selected stations only. The March temperature maps of figures 4 and 5 and the degree-day maps of figures 17, 18, and 19 are based on monthly and daily data for all temperature stations (figs. 33-45) published in the monthly *Local*

Climatological Data.

Water equivalent. The water-equivalent maps of figures 14 and 15 are copies of maps prepared by the Weather Bureau River Forecast Center at Kansas City, Mo., chiefly on the basis of data presented in appendix C. These basic data, plus additional snow-depth and water-equivalent data, were obtained from observations made at official Weather Bureau stations and by field surveys conducted cooperatively by the Weather Bureau, Corps of Engineers, and Bureau of Reclamation. The data were compiled and edited through the facilities of the Regional Hydrologist, Weather Bureau Central Region, Kansas City, Mo., and the River District Office at Fargo, N. Dak. The locations of many of the snow-survey sites may be determined from the climatological station maps of figures 33-45.

APPENDIX B

Source—Chapter II, "ESSA and Operation Foresight," ESSA/PI690030, May 1969

In a White House press release on March 1, 1969, President Nixon expressed his concern about the spring flood threat and ordered a major effort by Federal agencies to undertake all feasible preparations to reduce or alleviate the flood damage and suffering. He instructed George A. Lincoln, Director of the Office of Emergency Preparedness, to coordinate an extraordinary Federal planning and operational effort to supplement State and local resources. In a letter dated March 1, 1969 Mr. Lincoln urged the Corps of Engineers to aggressively utilize available authorities under Public Law 99, 84th Congress, to meet the serious and imminent flood threat. These actions, resulting from the early warning of the flood potential by the ESSA Weather Bureau made possible preparedness activities on a scale never before attempted for anticipated flooding.

PL-99 funds had not been used in this way in the past. Liberalization permitted extensive pre-flood actions by the Corps of Engineers and improved the outlook for avoiding much of the damages that have occurred with similar flooding in past years. PL-99 funds were made available to protect public areas where local finances were inadequate. Aid was in the form of levee contracts, sandbags, polyethylene film, pumps, and lumber. Technical assistance was given to survey potential trouble spots and supervise contracts. To qualify for the use of PL-99 funds in this way, a community had to demonstrate that it had a feasible protection plan and could furnish the necessary right-of-ways and labor for the construction of levees.

The President's directive initiating *Operation*

Foresight was greeted with enthusiasm and action at the State and local levels throughout the threatened areas. Actions taken by Federal, State, and local agencies in the areas concerned were extensive. A few of these actions are enumerated to illustrate the cooperation that was developed and the preparations that were possible:

Corps of Engineers—The majority of the organizational effort and work of preparing for the flood and instituting preventive measures fell to the Corps. With the release of more than \$16 million of PL-99 funds, the Corps had the task of organizing State and local officials to get contracts underway and protective measures completed before the flooding occurred. The Corps carried out reconnaissance of rivers and streams to identify obstructions to free flow. It staffed information centers to expedite handling of very heavy volumes of requests for information and on-site technical assistance. Communications nets were strengthened with additional equipment, and a large number of engineers was transferred from other sections of the country to assist.

Office of Emergency Preparedness—The Denver and Battle Creek regions of the Office of Emergency Preparedness held numerous meetings jointly with other agencies, such as the American Red Cross, the Corps of Engineers, and ESSA Weather Bureau, to discuss emergency preparedness measures that could and should be taken to prepare for the potential flood threat.

American Red Cross—The ARC announced its plans for dealing with the flood emergency on March 11 and initiated many planning meetings with its

State and local representatives to discuss means for handling its responsibilities during and after the flooding. The Red Cross' primary concern was in caring for people evacuated from their homes.

Department of Transportation—The *Coast Guard* made plans for, and subsequently provided, boats and helicopters for the evacuation of flood victims from unprotected areas. The *Federal Aviation Administration* made plans to protect vital communications and air navigation aids.

The Department of Agriculture—USDA advised farmers to take necessary pre-emergency actions to minimize losses of livestock, machinery, and stored crops due to flooding. It also made plans to provide inspectors to supervise post-flood cleanup operations where food was concerned, such as grocery stores, restaurants, and food

State Actions—A number of States declared emergencies so that all State resources could be brought to bear in assisting local communities with their problems. County plans were prepared for providing essential public services during the emergencies. Numerous flood planning meetings were held at the local level, usually with the participation of Federal agencies such as the Weather Bureau and the Corps of Engineers. State National Guards committed heavy equipment for levee work, and Guard personnel were committed to emergency evacuation of personnel, security patrols of flooded areas, and manning of control points. State Highway Commissions made trucks available for evacuation of property and levee construction.

Local Actions—The activities at the local level are too numerous to mention. There were few cases noted in which public apathy, disbelief in the forecasts, or failure to take positive action allowed flooding that could and should have been avoided. On the positive side, local Civil Defense officials

developed flood protection manuals and plans outlining how the community was to deal with the situation and established emergency operating centers as focal points for coordinating all actions within the community. Plans previously developed for other emergencies, such as nuclear attacks and tornadoes, facilitated action in the flood threat. The construction industry, through local Associated General Contractor chapters, acted in an advisory capacity based on their operation of Plan Bulldozer to provide sources of men, materials and equipment. Emergency plans had to be developed for levee construction or for raising existing levees where crests were expected to be above the level of permanent protection. Frequently, this involved local bond issues (and elections) to permit the community to obtain the right-of-way for the levee, a pre-requisite to receiving PL-99 assistance. Plans were made for obtaining labor (volunteer and paid) for levee construction and security patrols for levees once constructed. Plans also were made for providing essential care for those people forced to move from their homes. In many cases, typhoid inoculations were given to small children as a precautionary measure. Community planning and community action to deal with the flood emergency were unprecedented. Colonel George Orr, Civil Defense Director in Iowa, and State and county Civil Defense directors in the other affected States all stressed that the long leadtime of the warnings made it possible to organize and coordinate the activities of the many political jurisdictions involved in flood prevention.

In summary, *Operation Foresight* was a remarkable success and an outstanding example of the benefits to be derived from good warnings of natural disasters, effective organization, and cooperative efforts of Federal, State, and local authorities.

APPENDIX C

Data in tables 1 through 12 were obtained from field surveys at about 1500 locations in those states affected by the 1969 snowmelt floods, and supplement those published in *Local Climatological Data*. Collection of these data was a coordinated effort by the Weather Bureau; the U.S. Army Corps of Engineers; Bureau of Reclamation, U.S. Department of Interior; and private power companies. No attempt was made to identify specific observations with individuals or organizations. The data were assembled and edited by Keith Blessum, Hydrologic Specialist at the River District Office, Fargo, N. Dak., working under the general supervision of the Regional Hydrologist, Weather

Bureau Central Region, Kansas City, Mo.

Observation points are listed alphabetically by states and municipalities, with further identification, when outside city or town limits, by airline distance in miles and direction. The abbreviations, SOG and WE, indicate depth of snow on ground and water equivalent in inches, respectively. In most cases the water-equivalent value given is the average of a series of core samples cut in the immediate vicinity of the point indicated. Samples were weighed and converted to inches of water equivalent. The majority of core samples were cut with 8-inch tubes and cutters, but some samples were taken with 4- and 6-inch tubes.

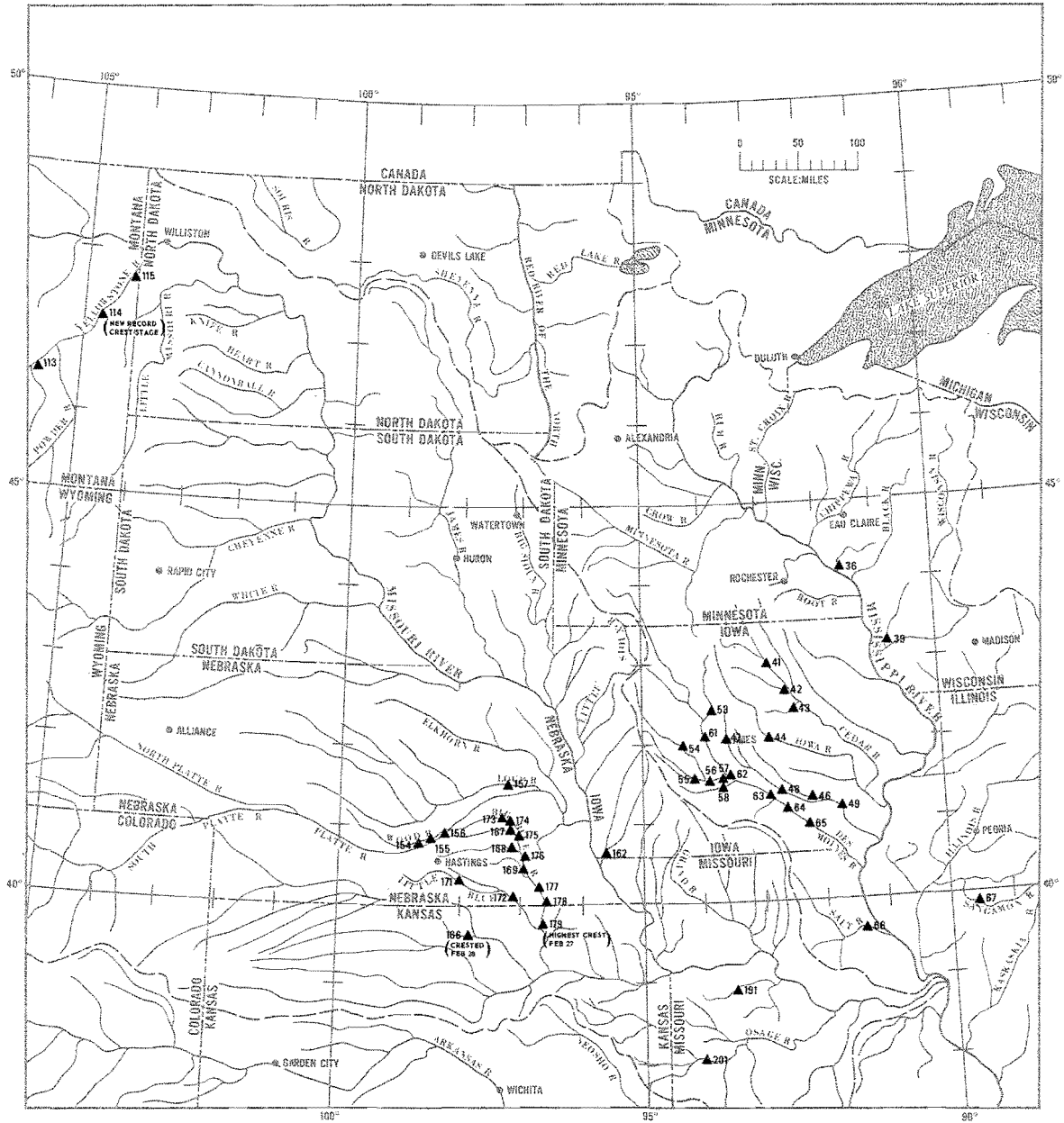


FIGURE 1. — River stations where flood crested in March (index numbers are identified in table 1).

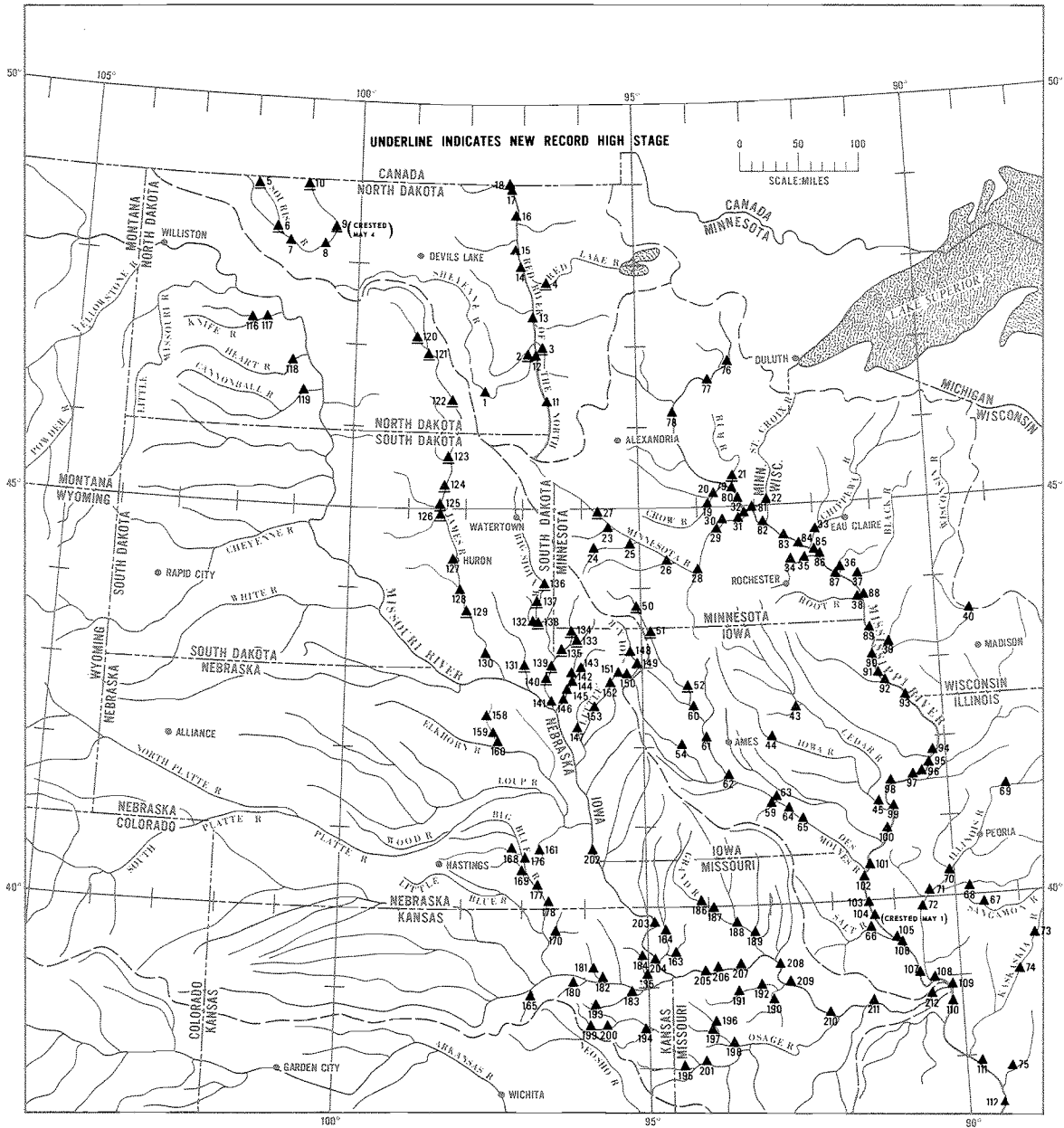


FIGURE 2. — River stations where flood crested in April (index numbers are identified in table 1).

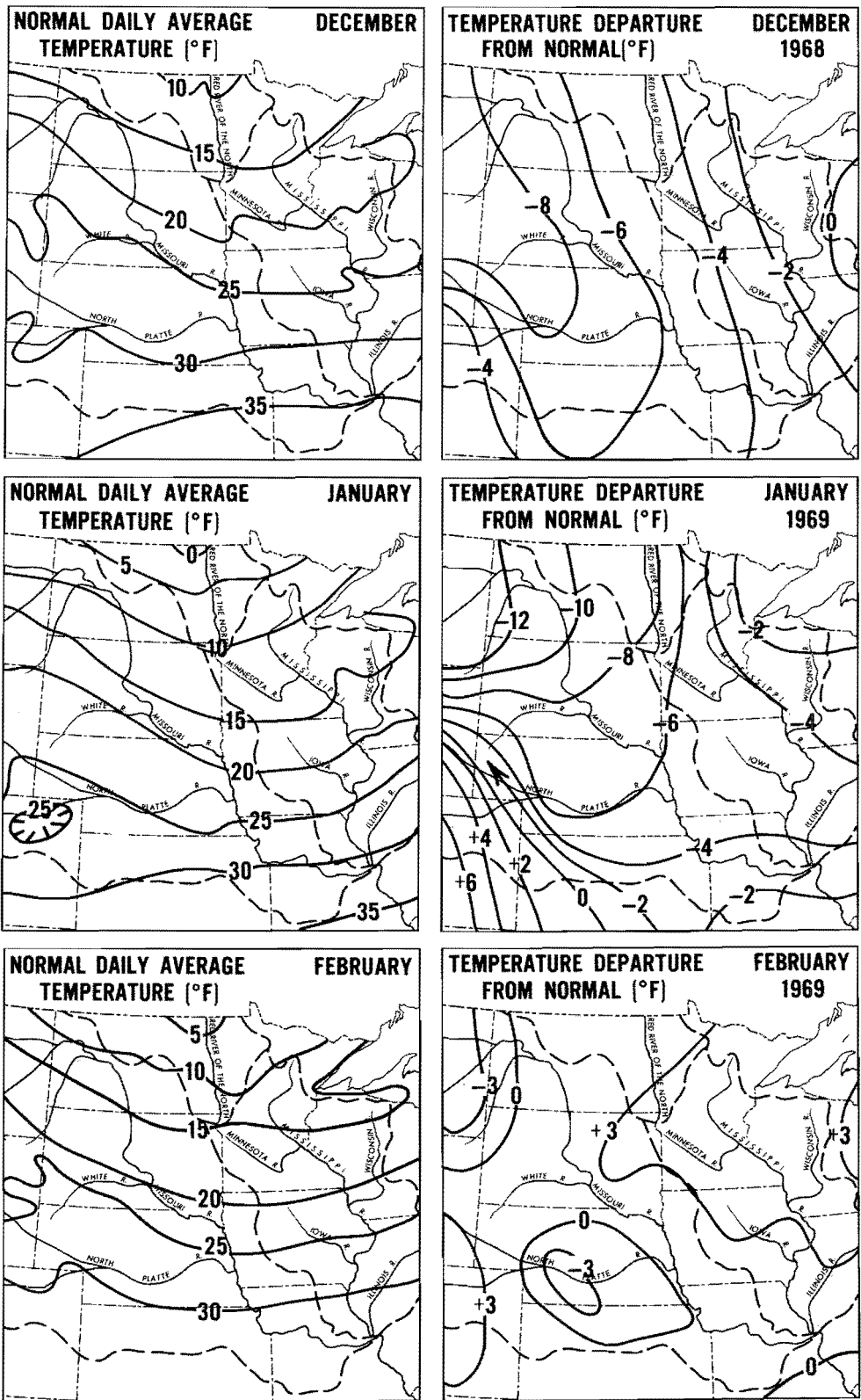


FIGURE 3. — Normal daily average temperature (°F) and departure from normal (°F), December 1968, January and February 1969.

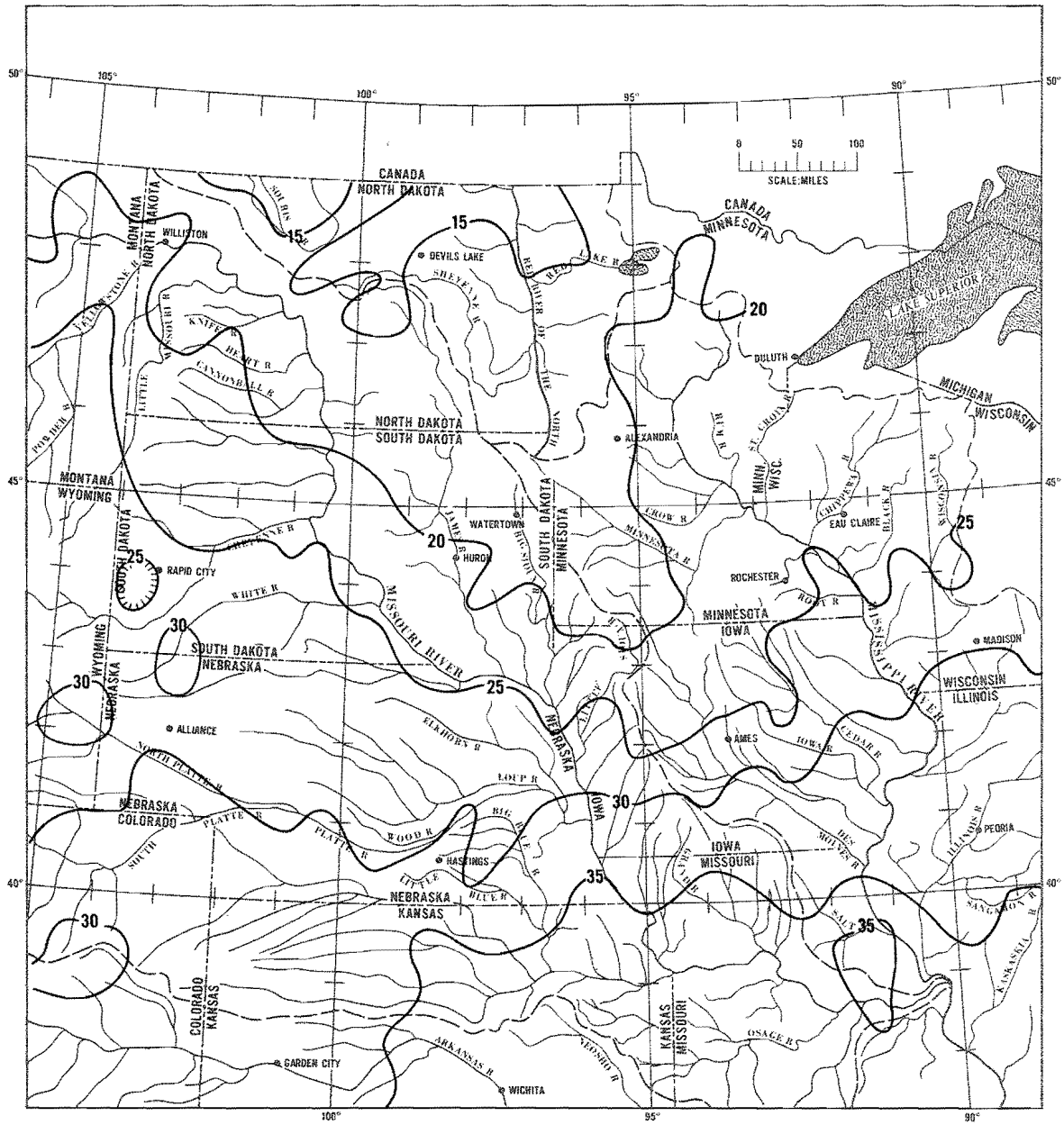


FIGURE 4. — Average daily temperature (°F), March 1969.

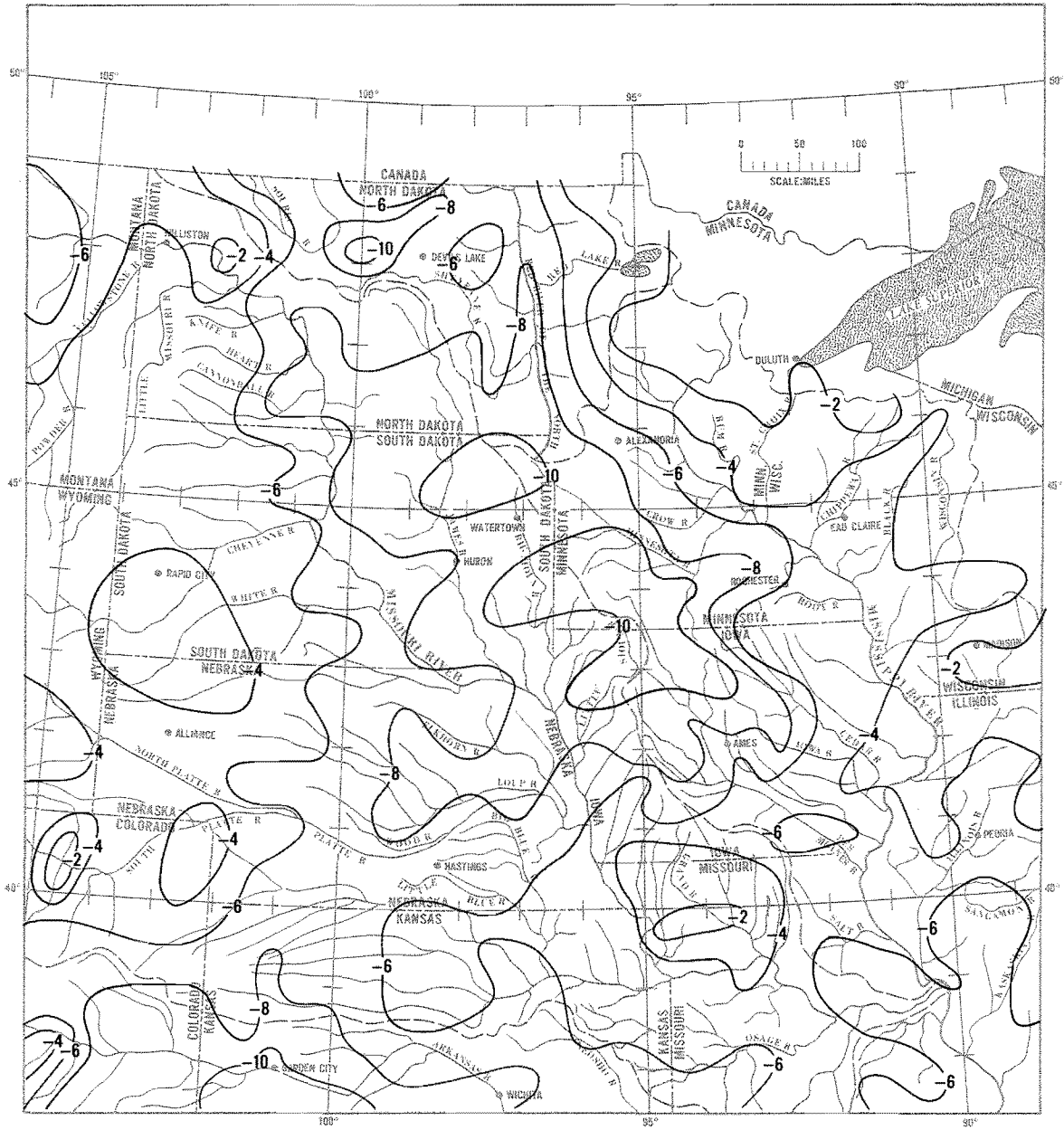


FIGURE 5. — Mean daily temperature departure from normal (°F), March 1969.

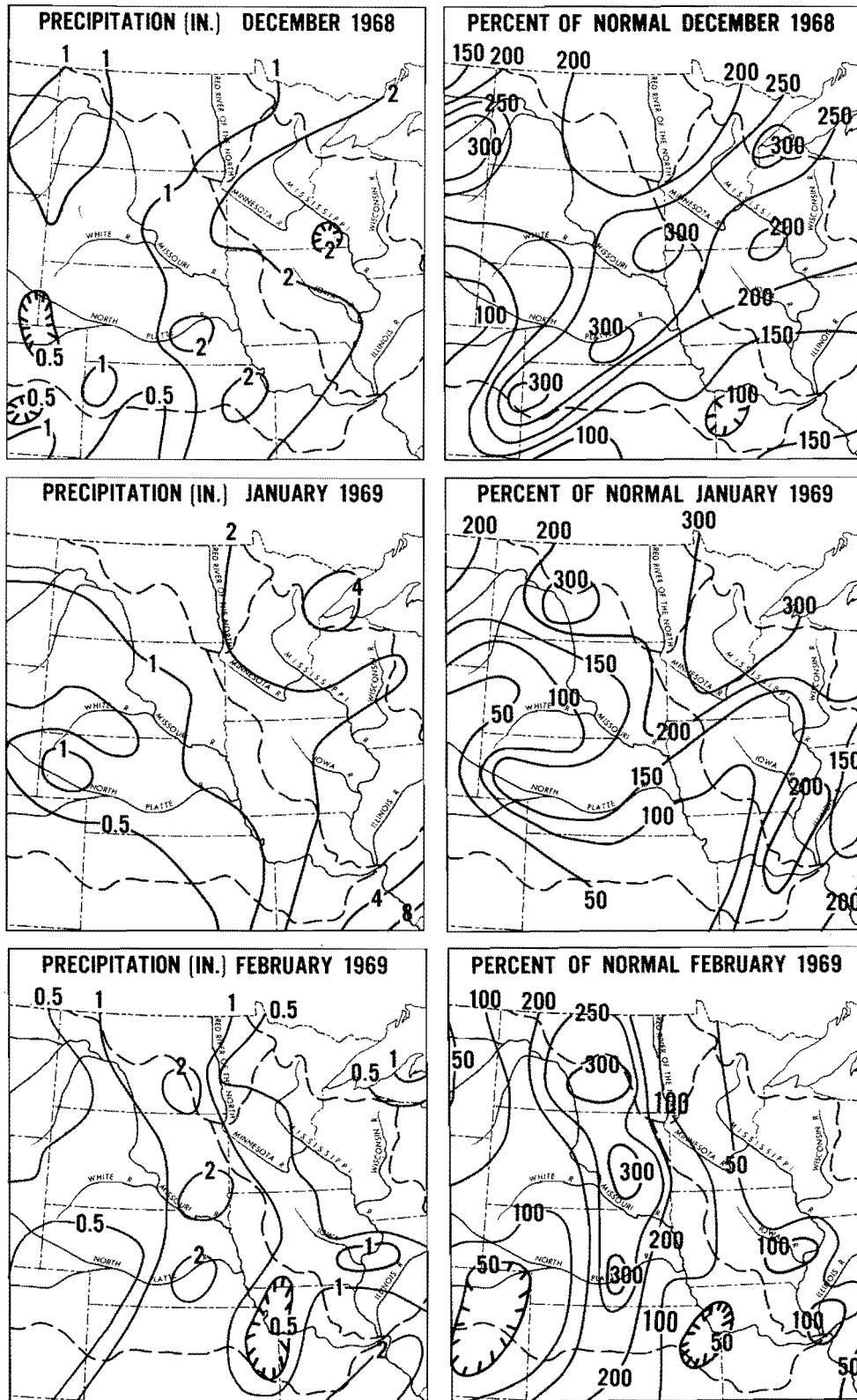


FIGURE 6. — Total monthly precipitation (in.) and percent of normal, December 1968, January and February 1969.

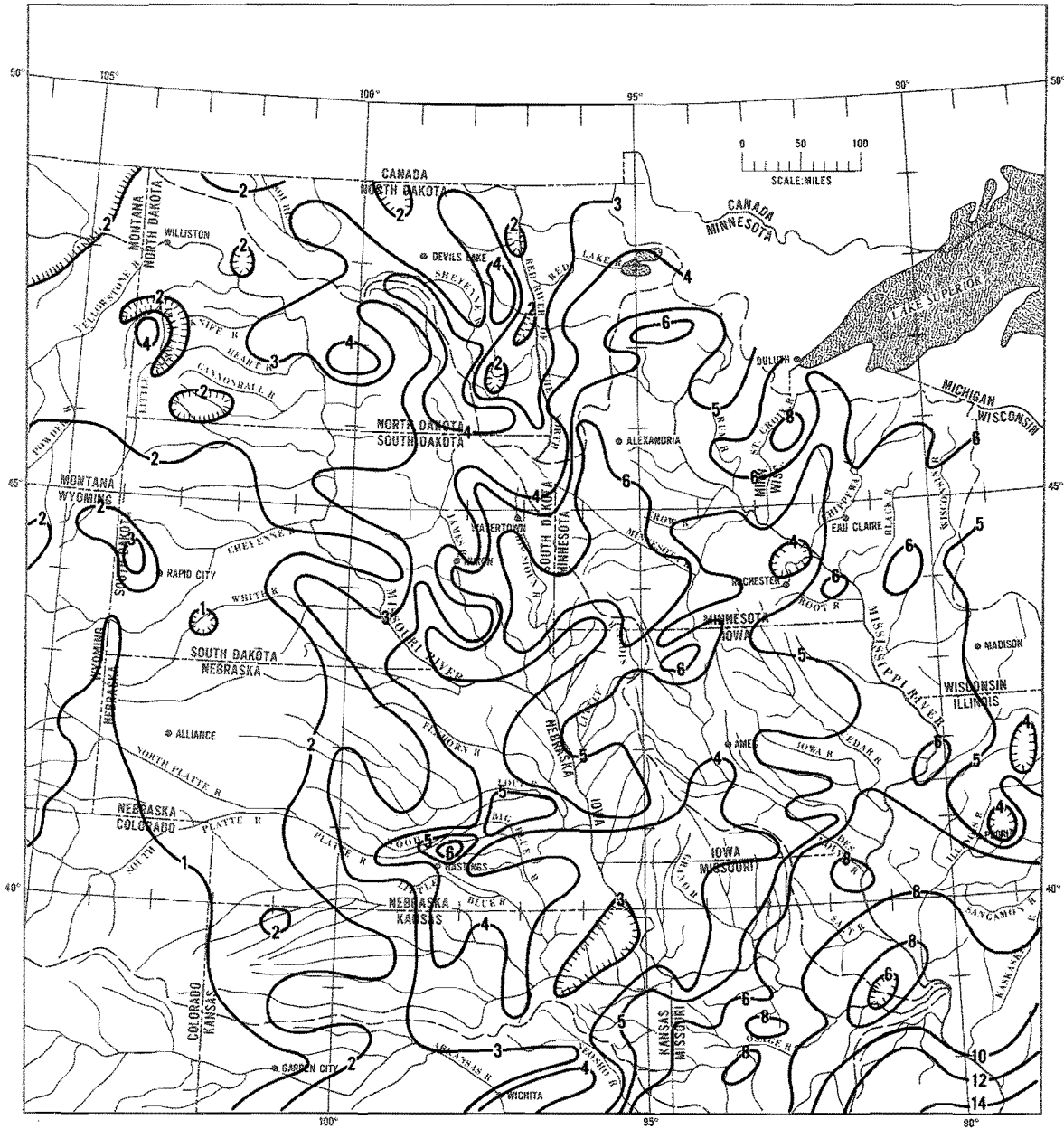


FIGURE 7. — Total winter precipitation (in.), December 1968, January and February 1969.

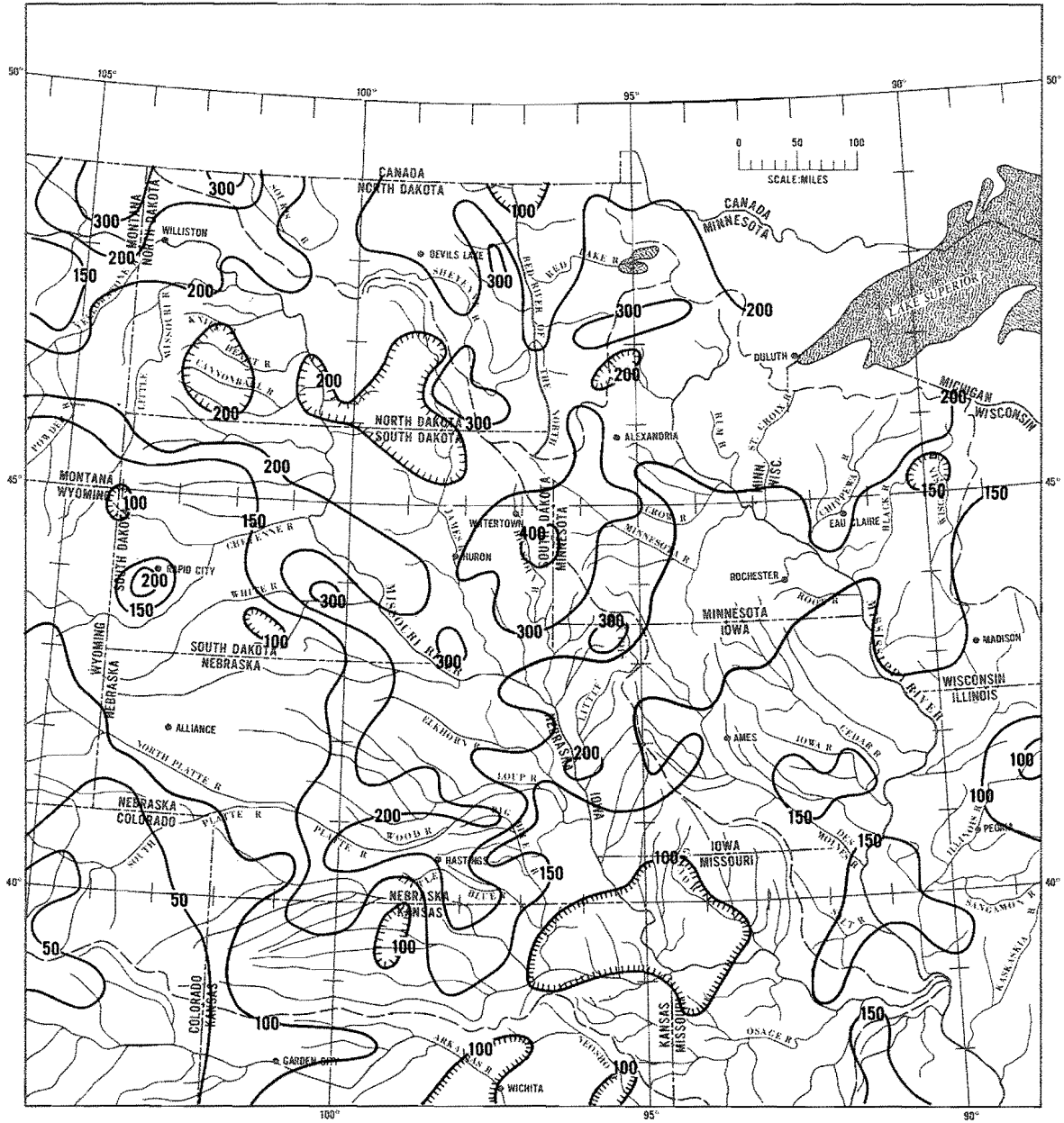


FIGURE 8. — Percent of normal winter precipitation, December 1968, January and February 1969.

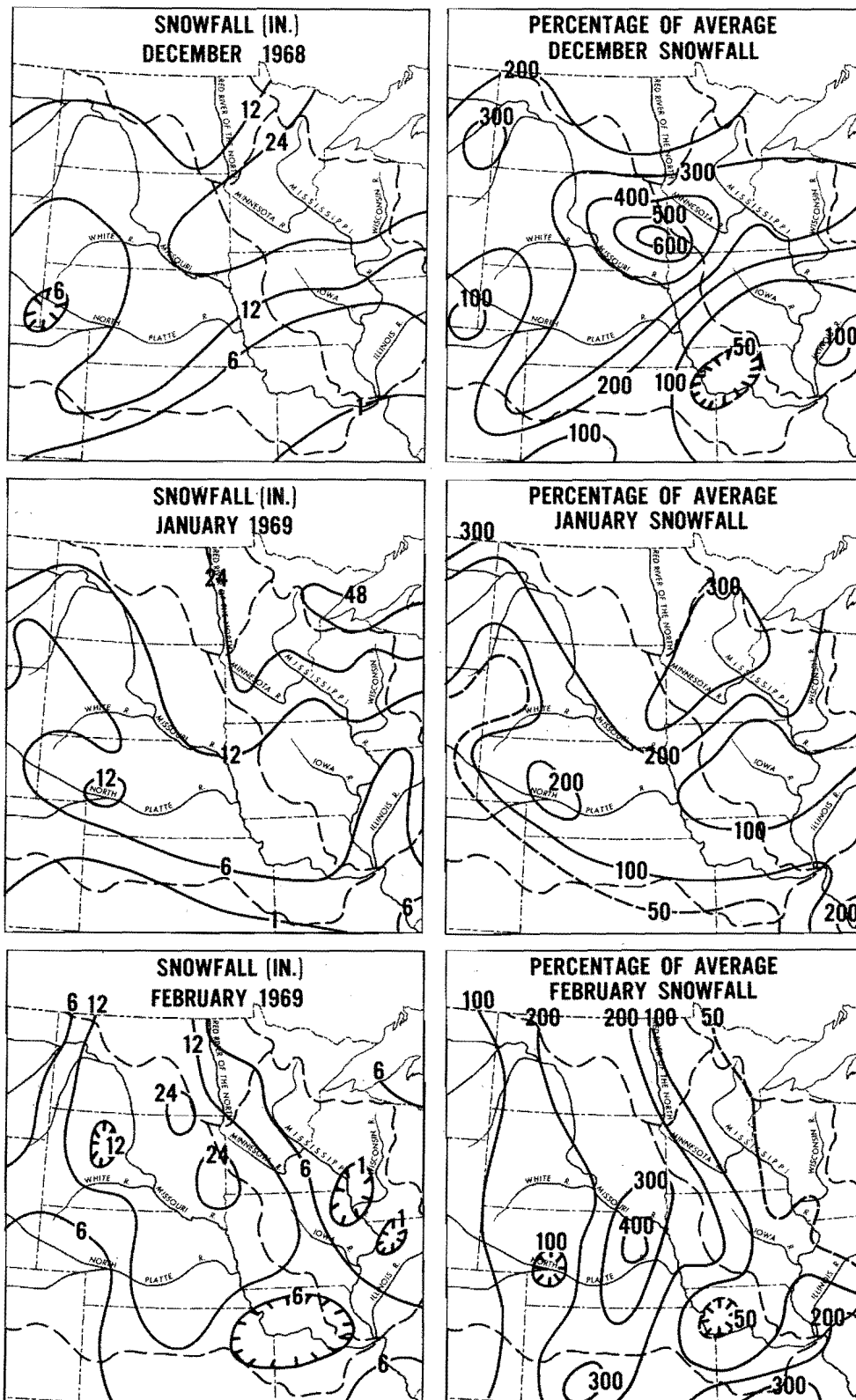


FIGURE 9. — Total monthly snowfall (in.) and percent of average, December 1968, January and February 1969.

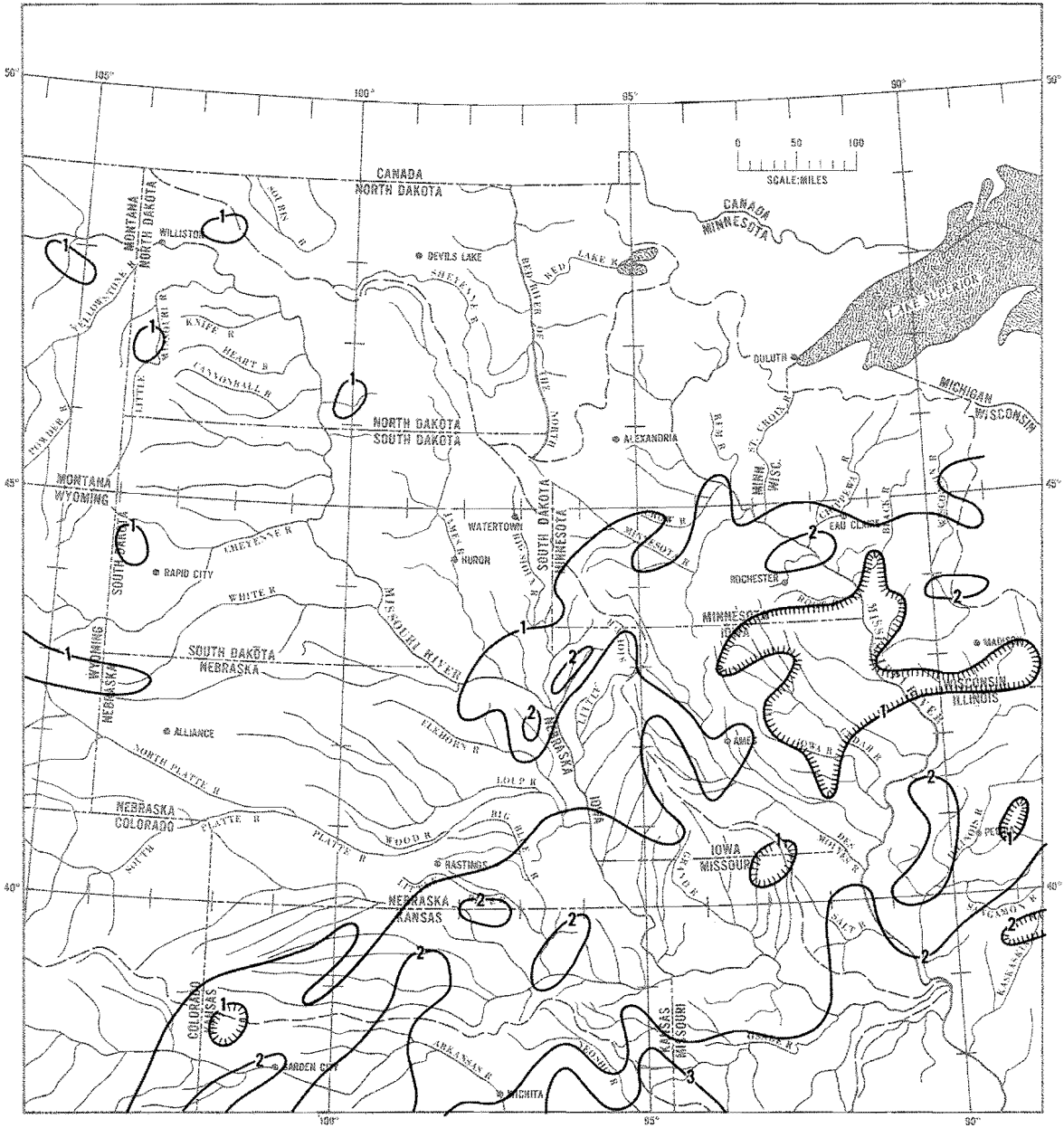


FIGURE 10. — Total monthly precipitation, (in.) March 1969.

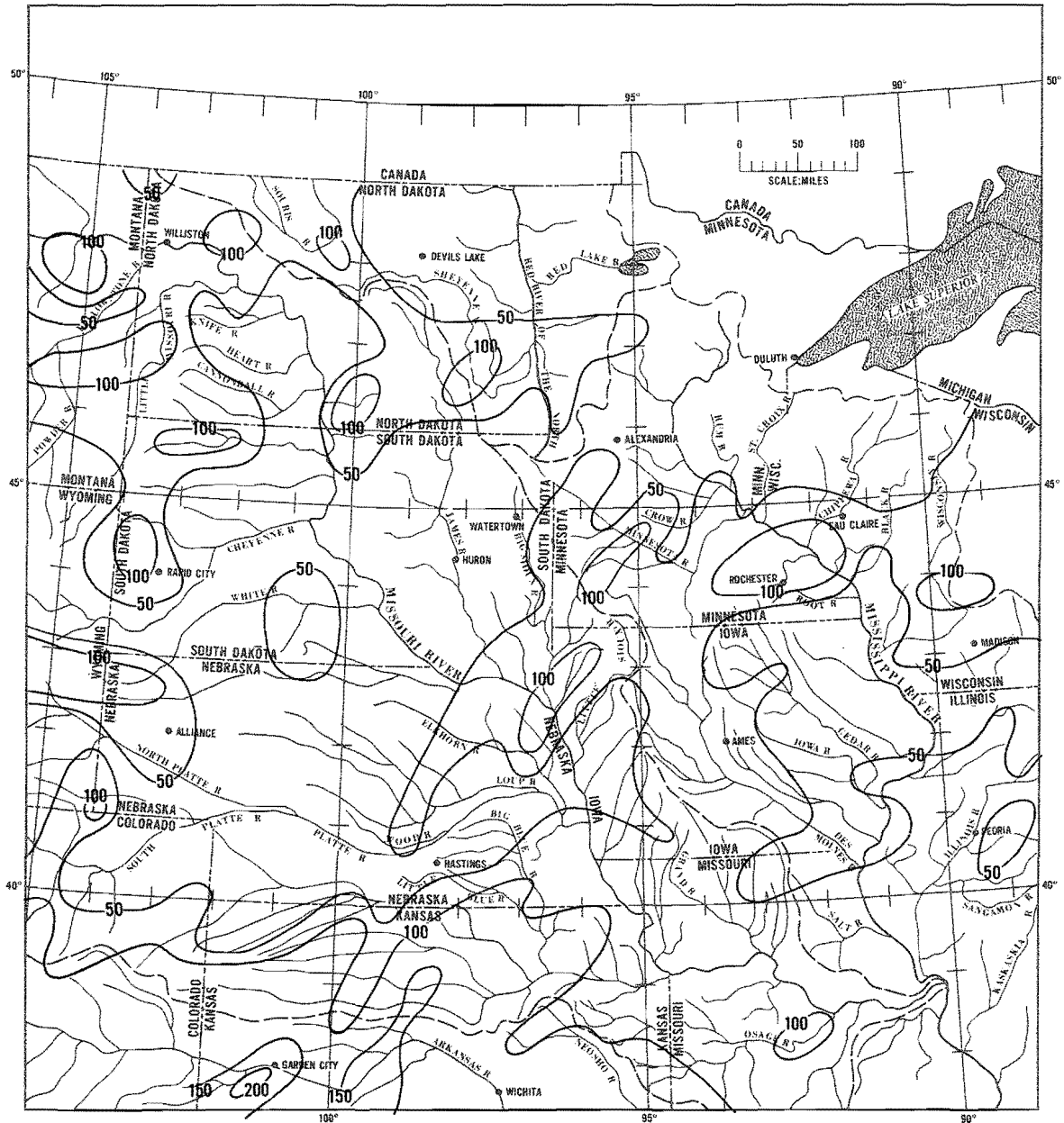


FIGURE 11. — Percent of normal precipitation, March 1969.

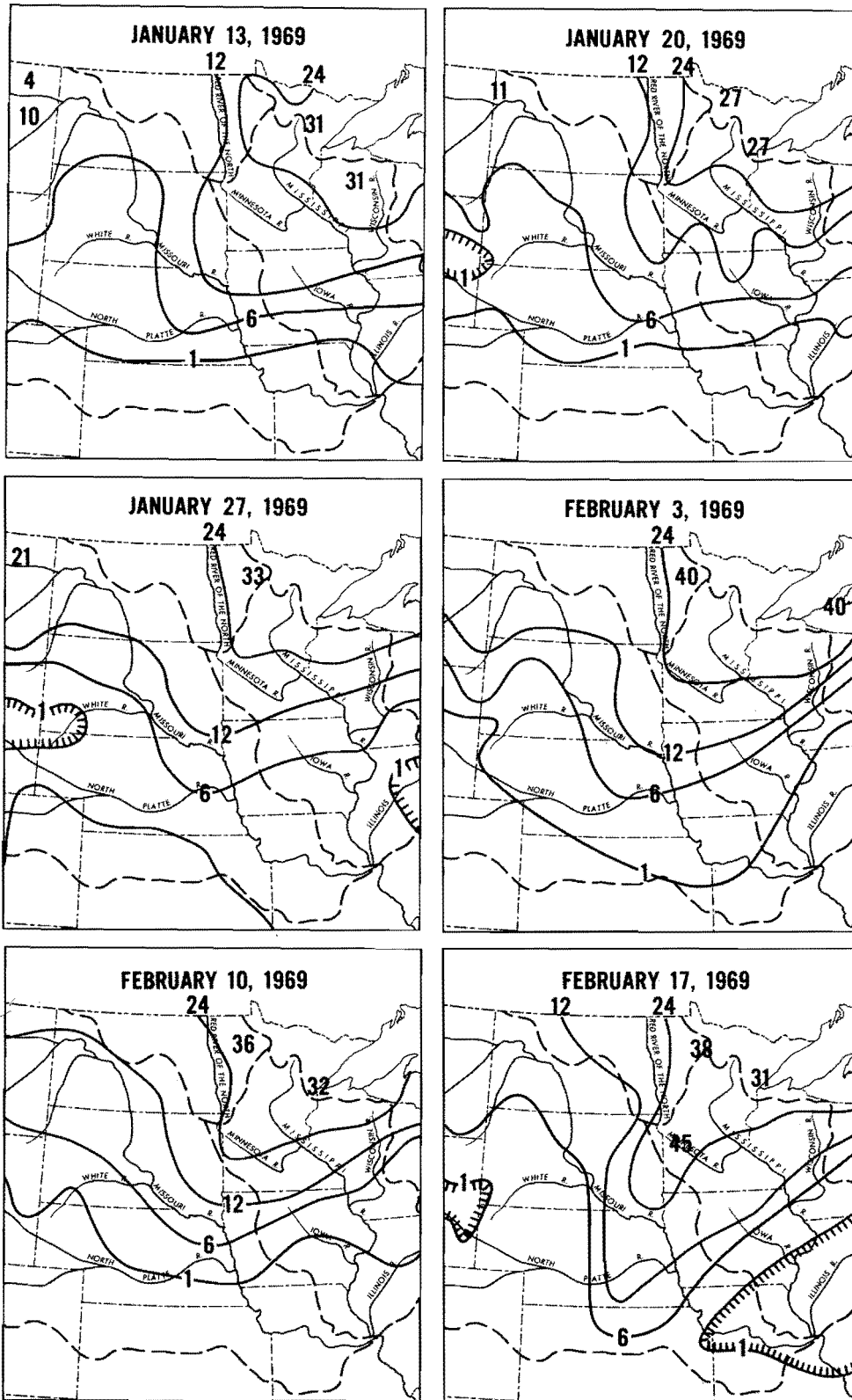


FIGURE 12. — Weekly depth (in.) of snow on ground, January 13 to February 17, 1969.

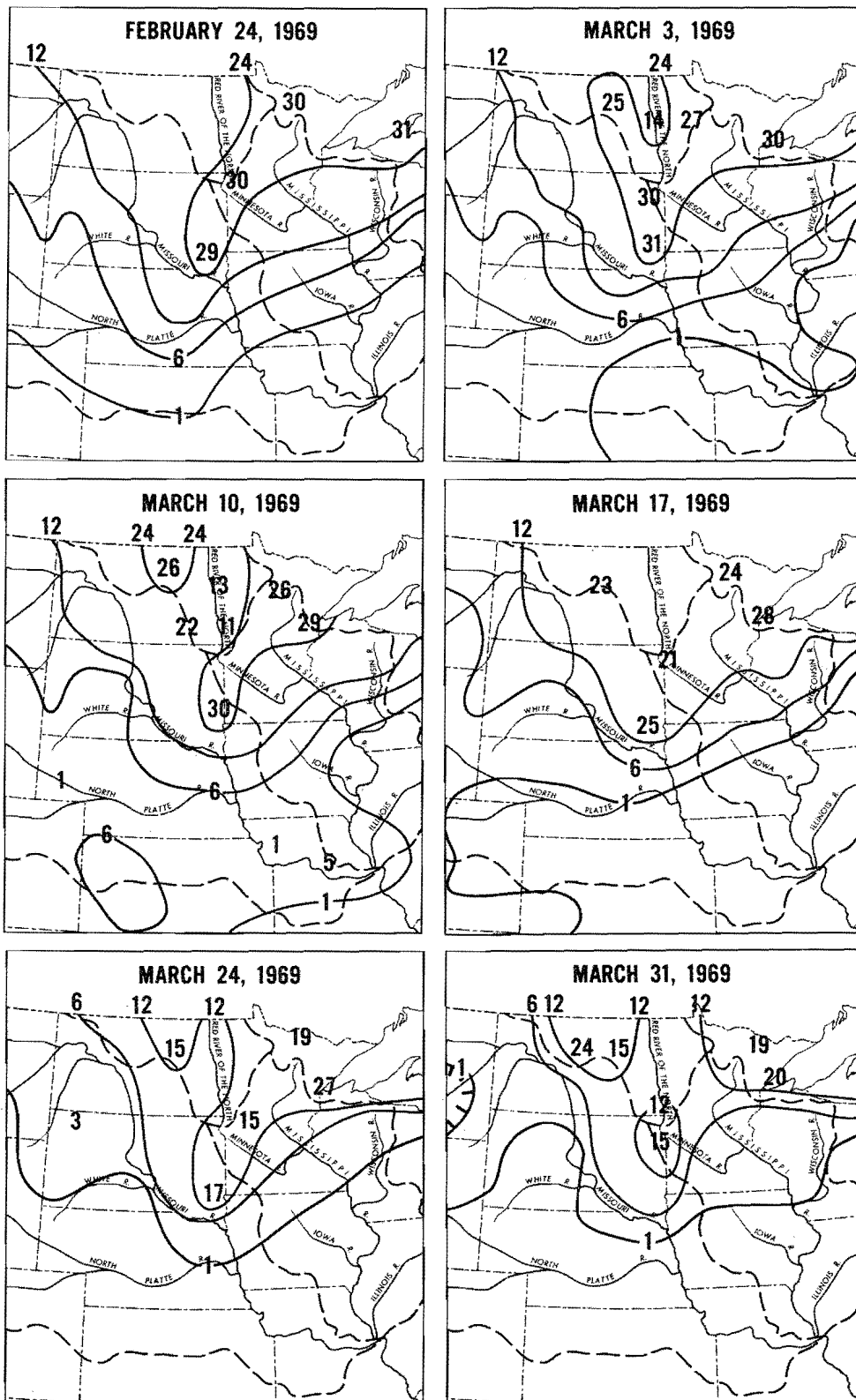


FIGURE 13. — Weekly depth (in.) of snow on ground, February 24 to March 31, 1969.

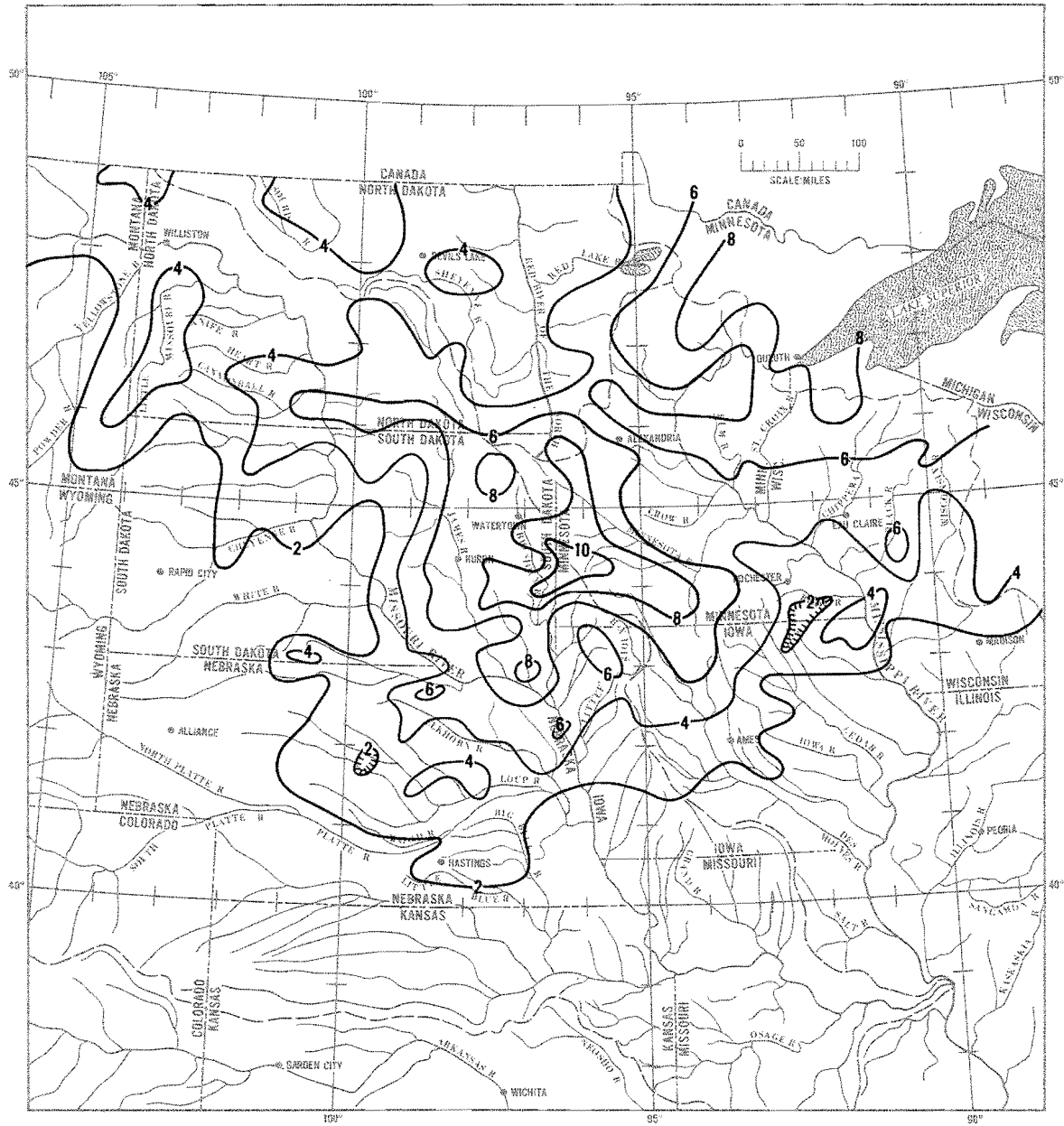


FIGURE 14. — Water equivalent of snow on ground (in.), March 14, 1969.

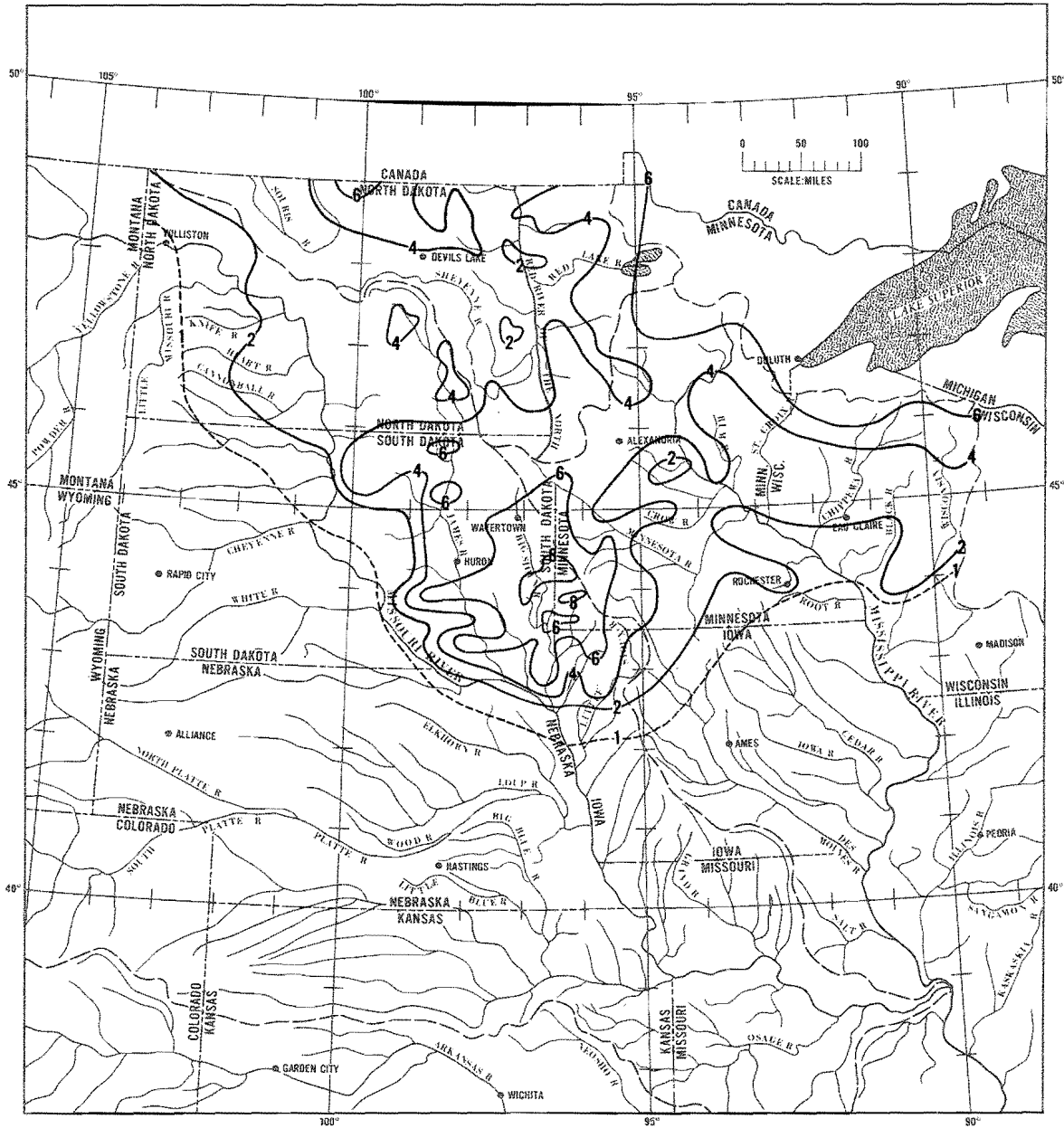


FIGURE 15. — Water equivalent of snow on ground (in.), March 28, 1969.

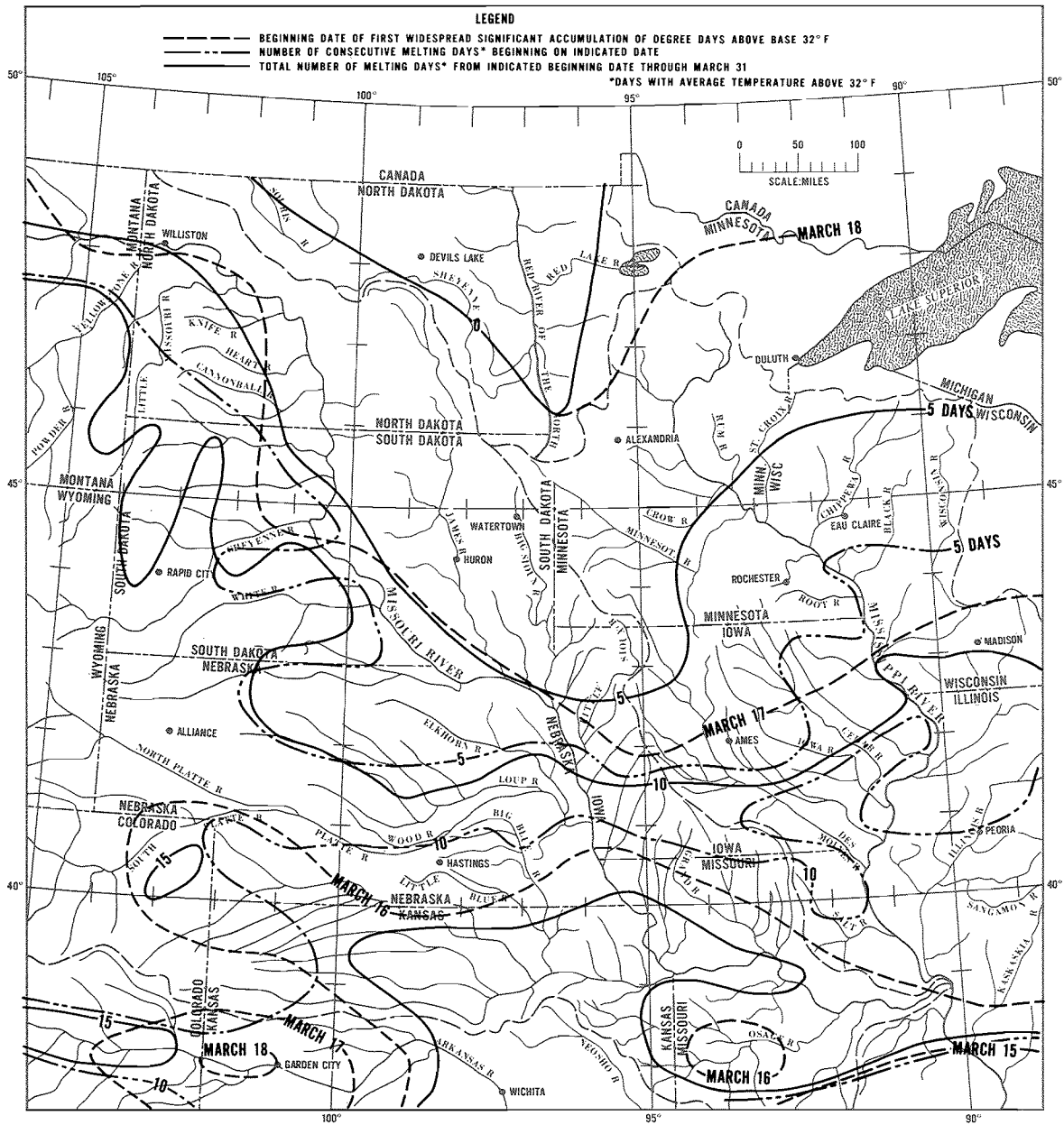


FIGURE 16. — Number of days with average temperature above 32°F in first prolonged March warm spell and beginning date.

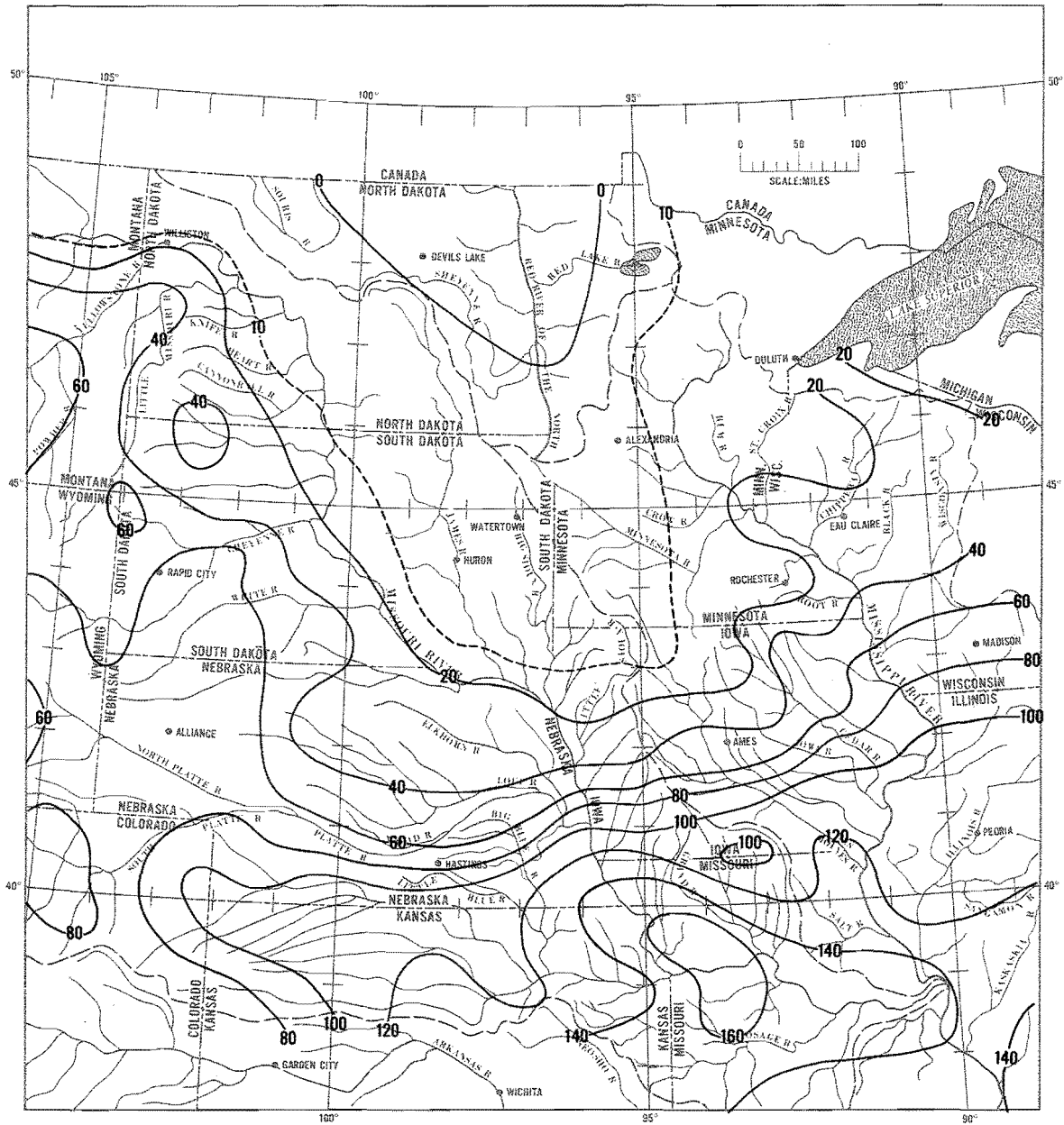


FIGURE 17.—Accumulated melting degree days (°F), March 16-23, 1969.

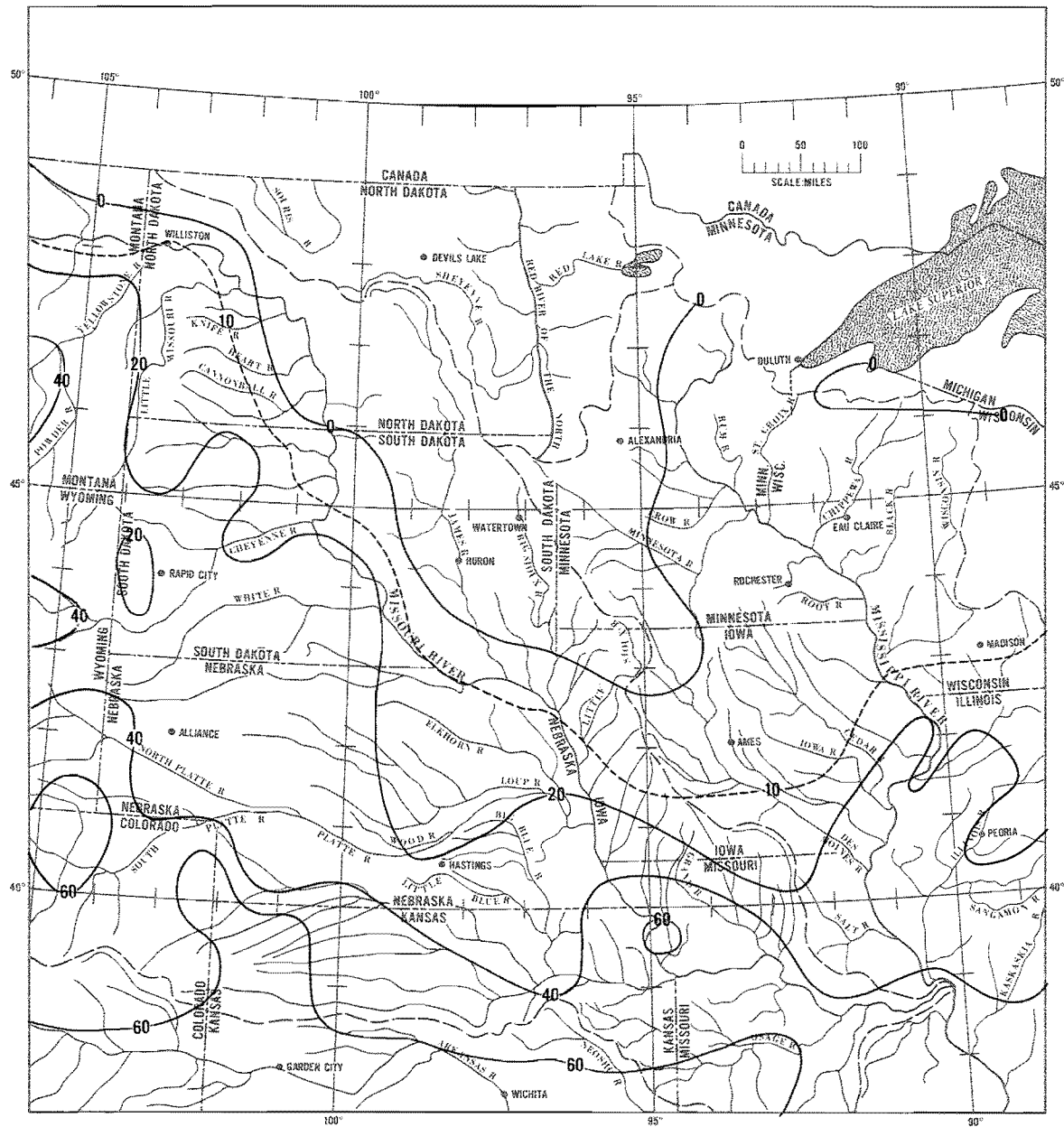


FIGURE 18. — Accumulated melting degree-days (°F), March 24-31, 1969.

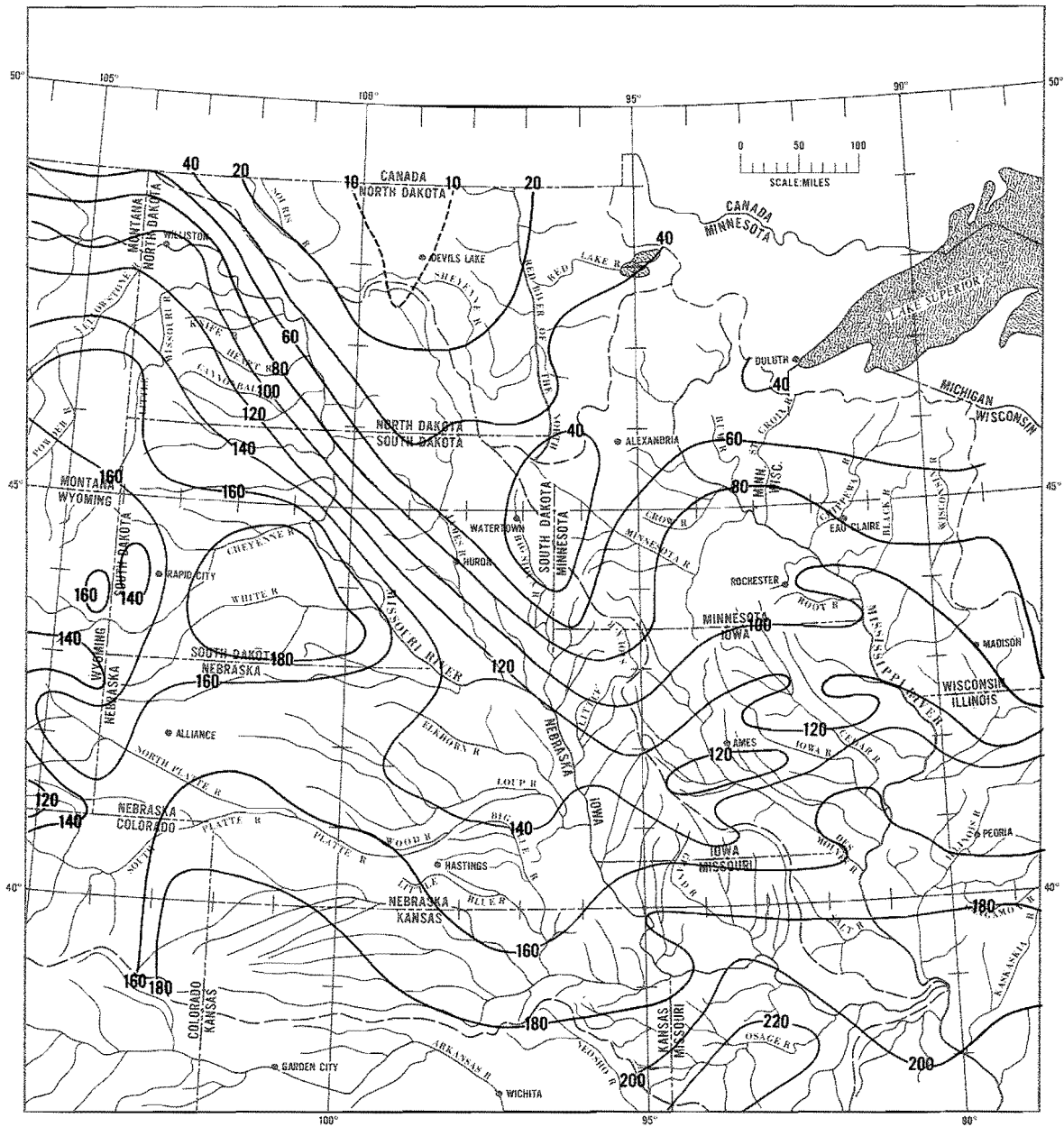


FIGURE 19. — Accumulated melting degree-days (°F), April 1-8, 1969.

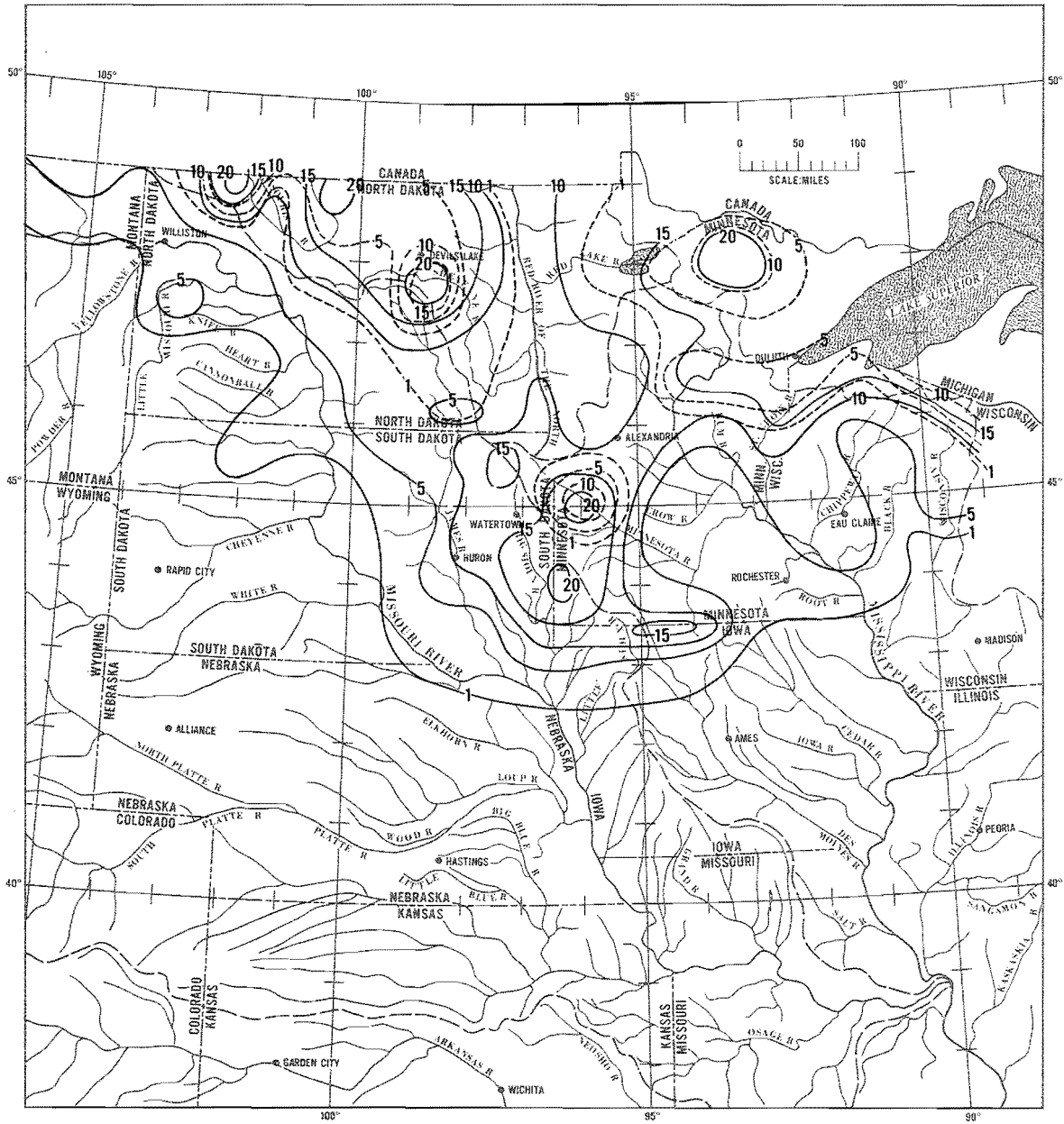


FIGURE 20. — Depth of snow on ground (in.), April 1 and April 9, 1969.

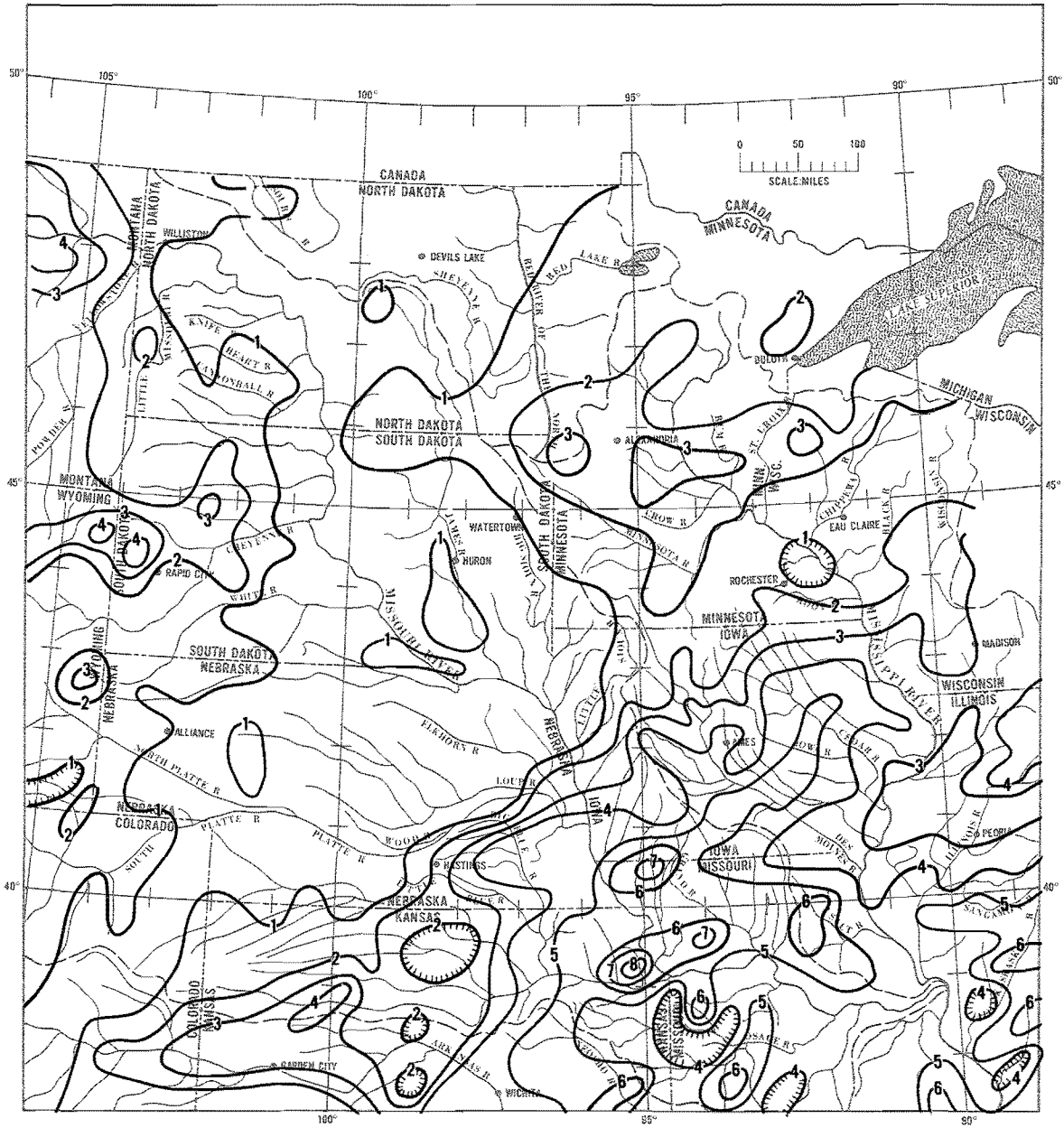


FIGURE 21. — Total monthly precipitation (in.), April 1969.

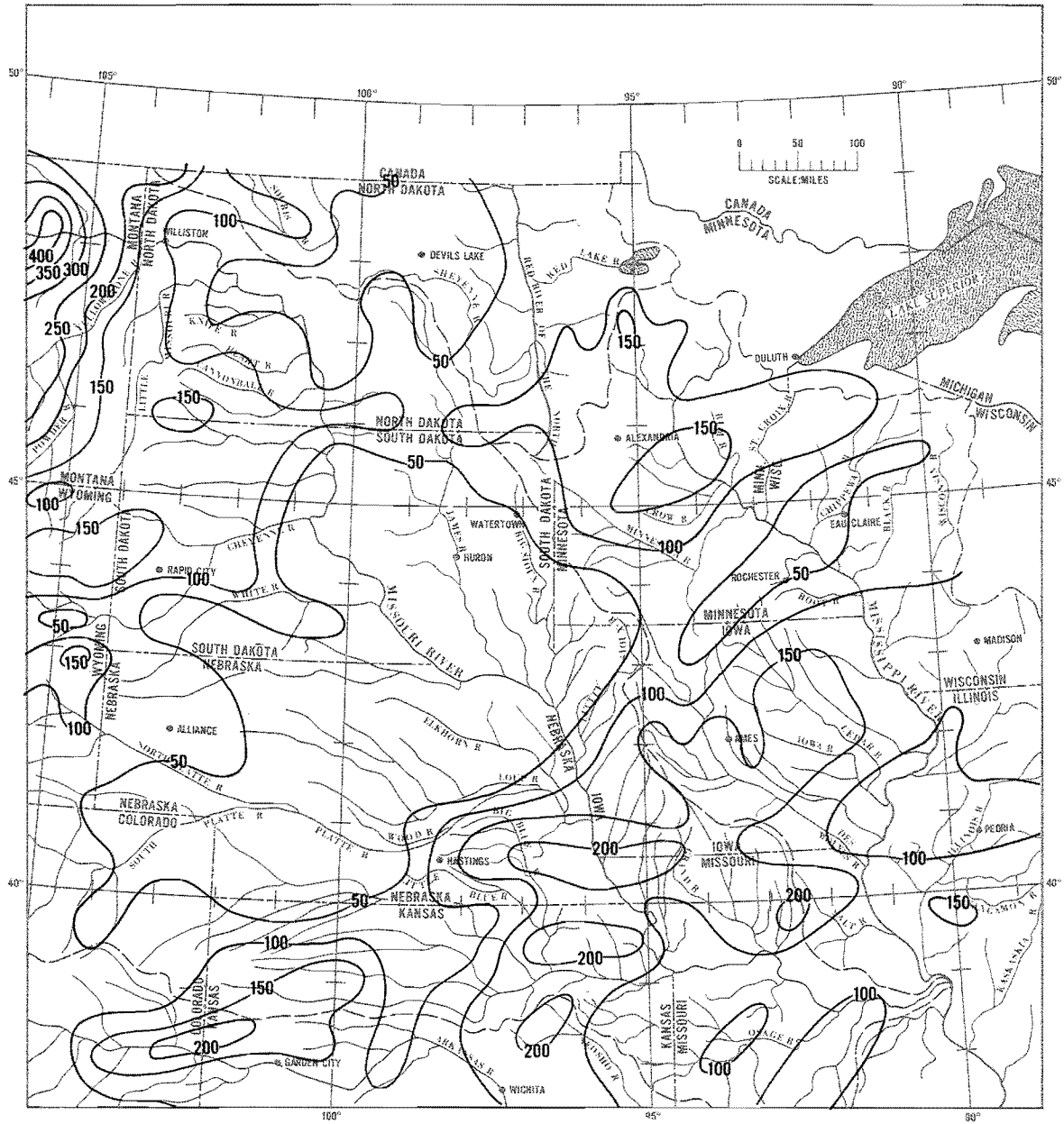


FIGURE 22. — Percent of normal precipitation, April 1969.

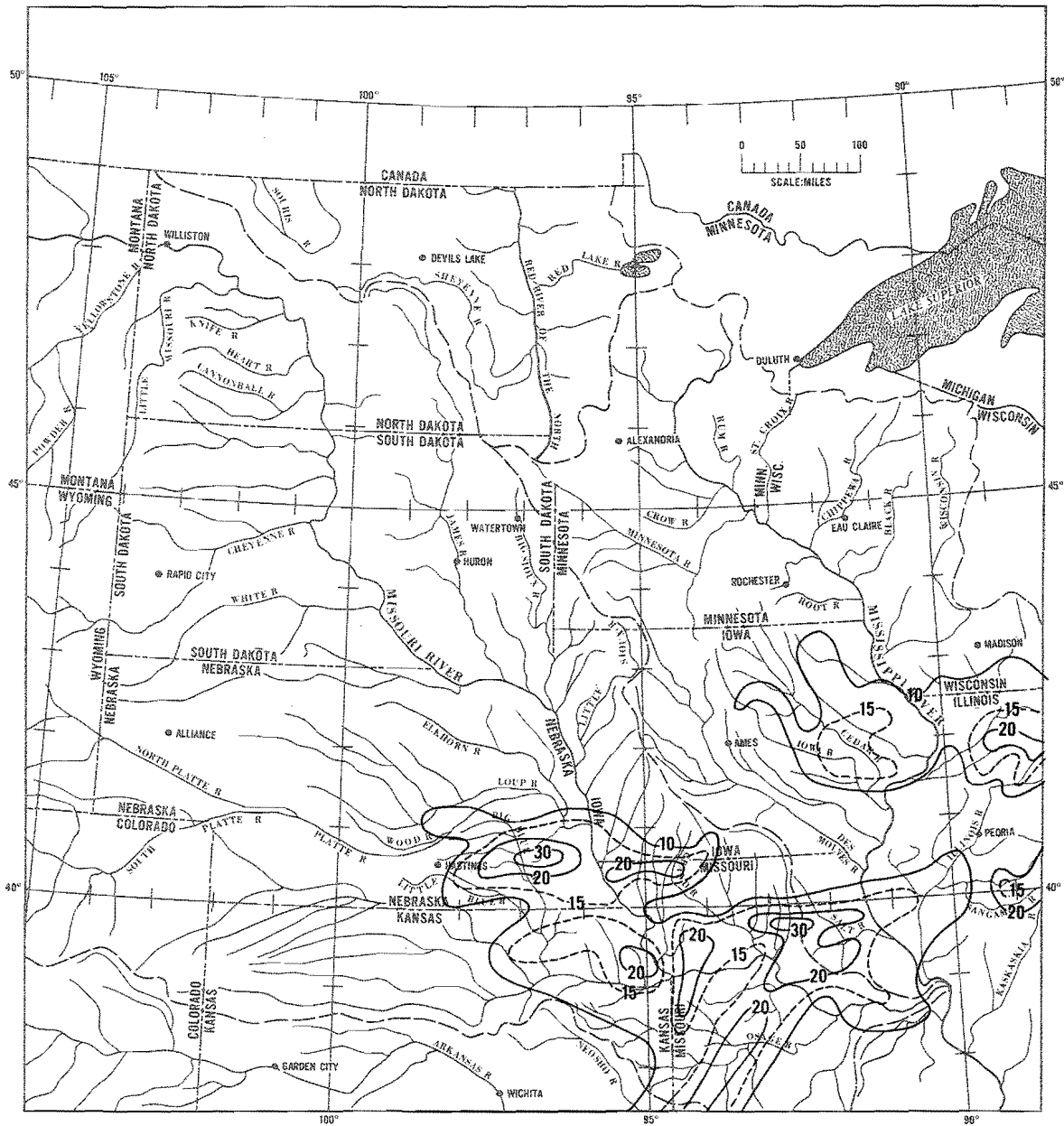


FIGURE 23. — Total storm precipitation (0.1 in.), April 1-6, 1969.

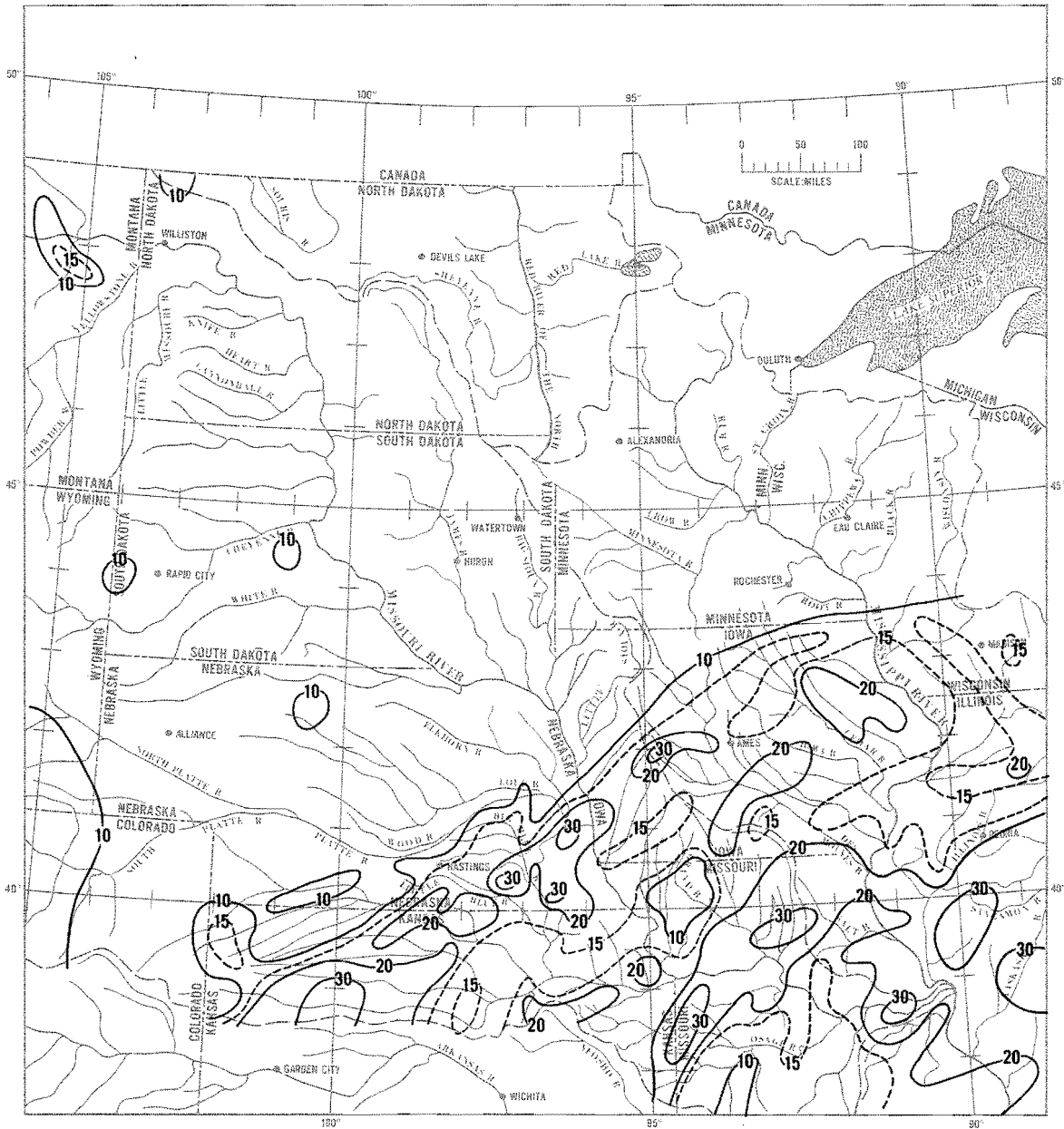


FIGURE 24.—Total storm precipitation (0.1 in.), April 13-19, 1969.

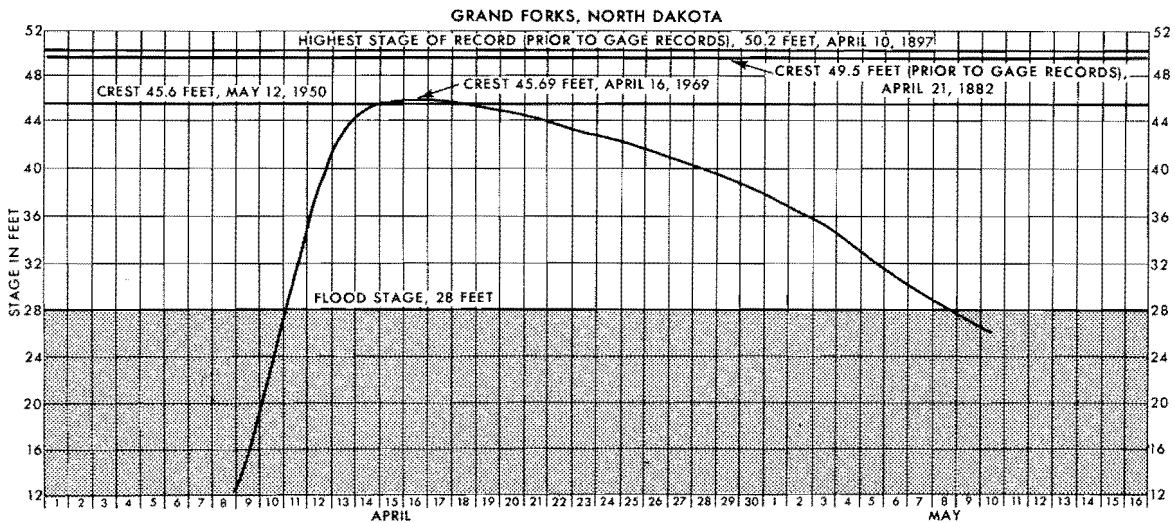
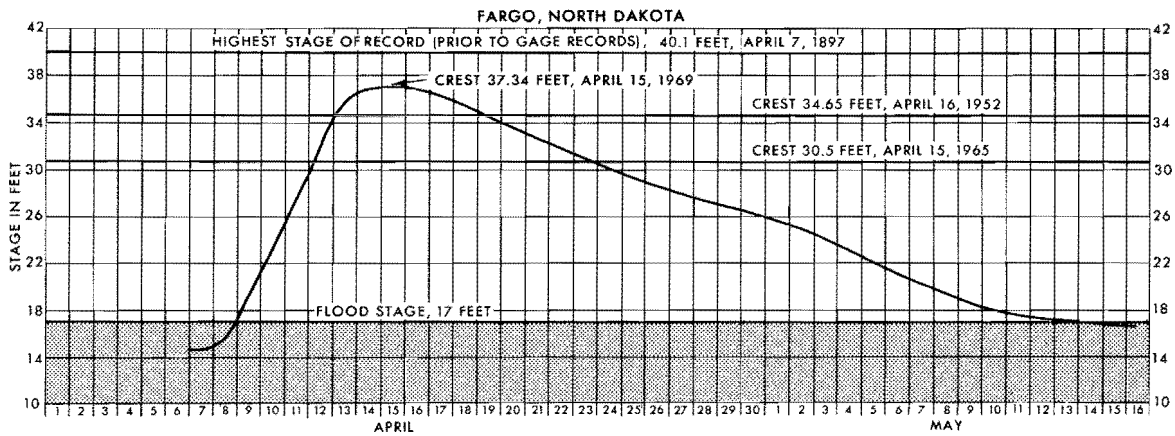
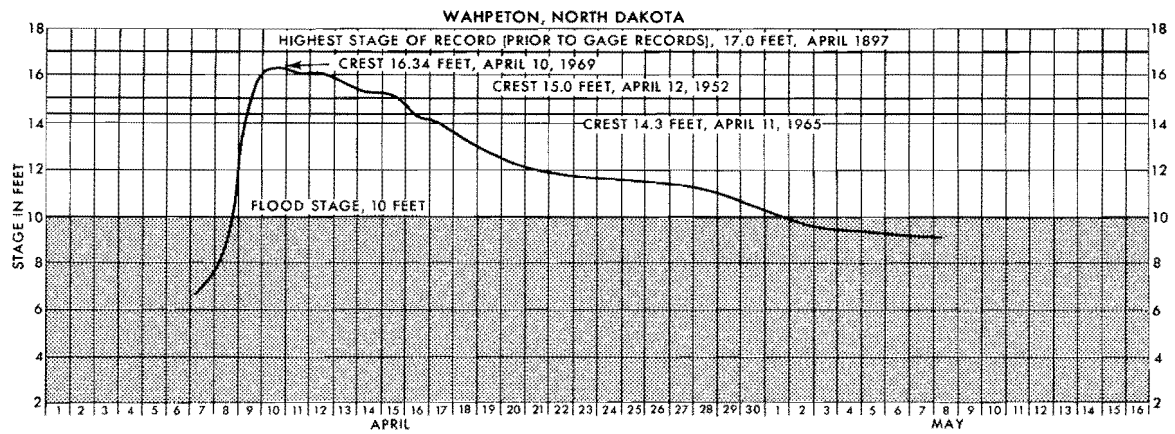


FIGURE 25. — April-May 1969 river stage hydrographs: Red River of the North at Wahpeton, Fargo, and Grand Forks, N. Dak.

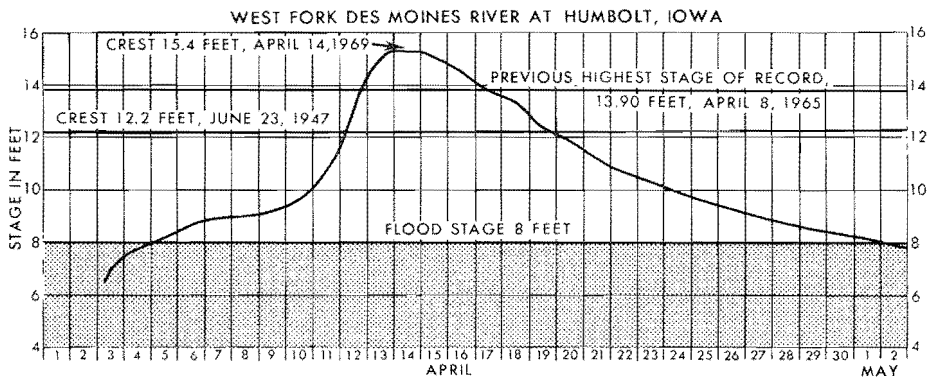
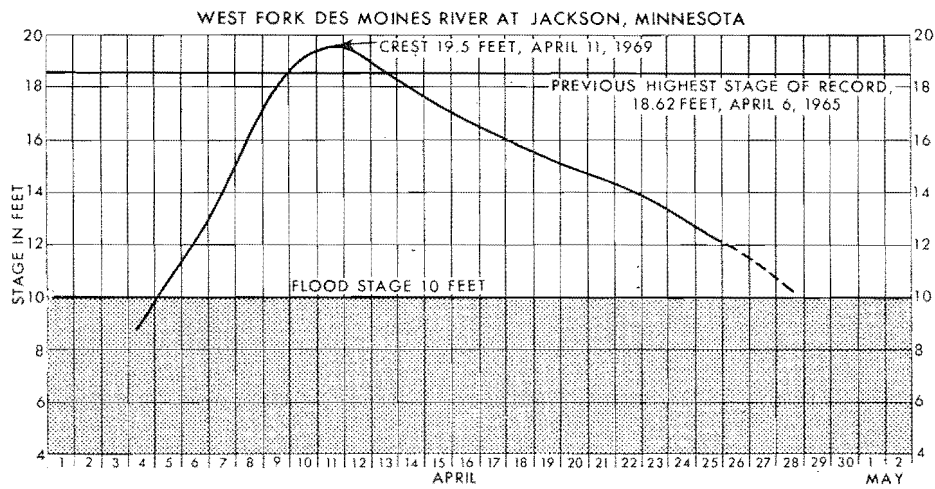
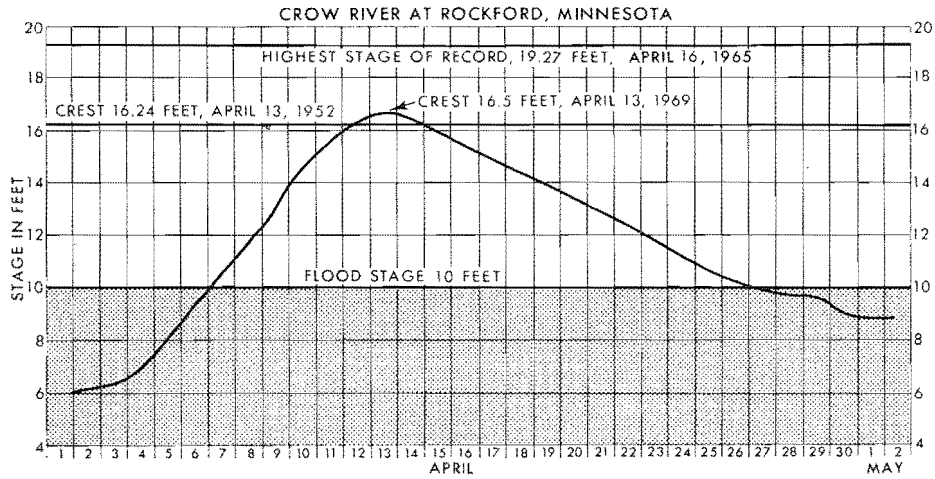


FIGURE 26.—April-May 1969 river stage hydrographs: Crow River at Rockford, Minn., and West Fork Des Moines River at Jackson, Minn., and Humboldt, Iowa.

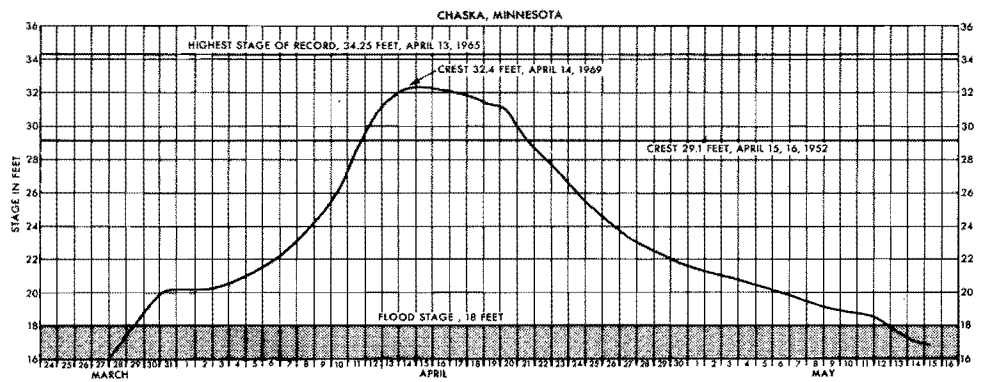
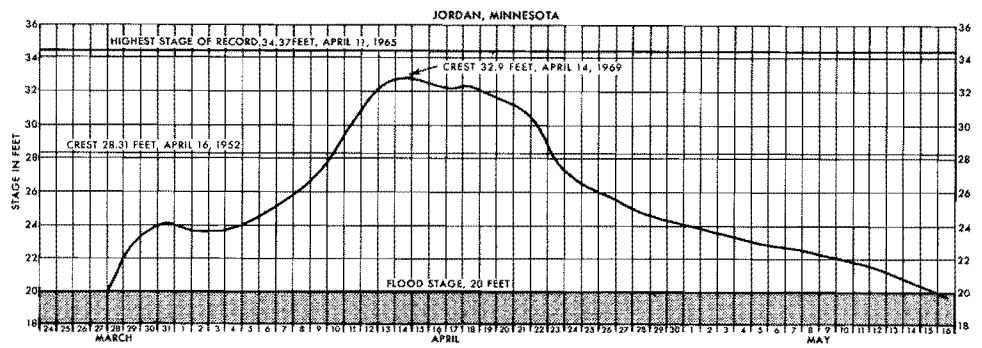
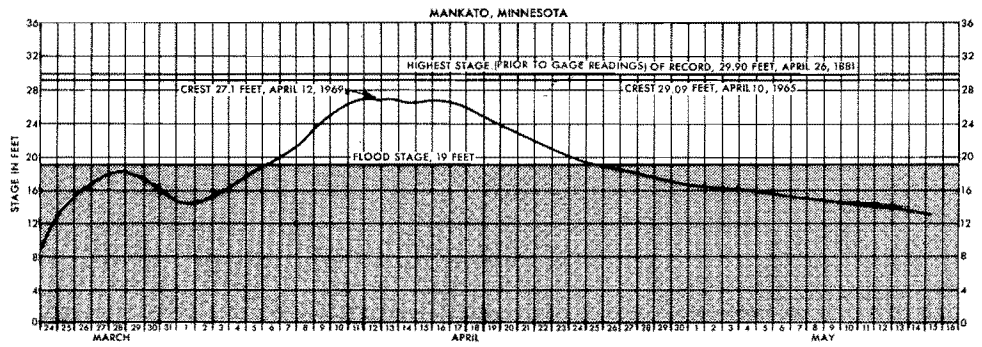
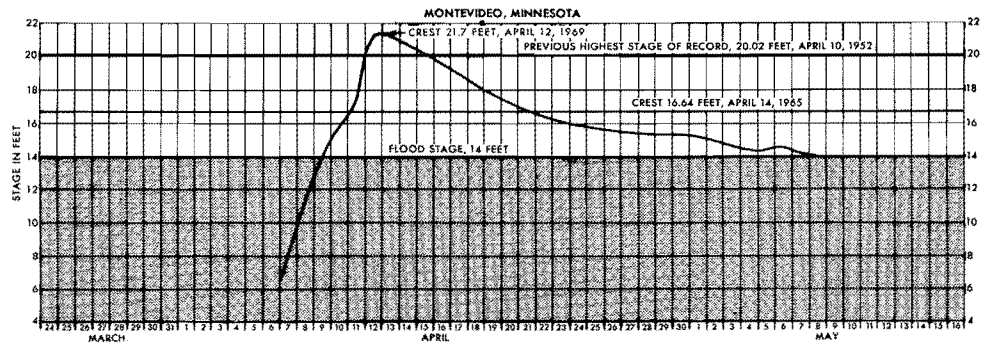


FIGURE 27. — March-May 1969 river stage hydrographs: Minnesota River at Monteideo, Mankato, Jordan, and Chaska, Minn.

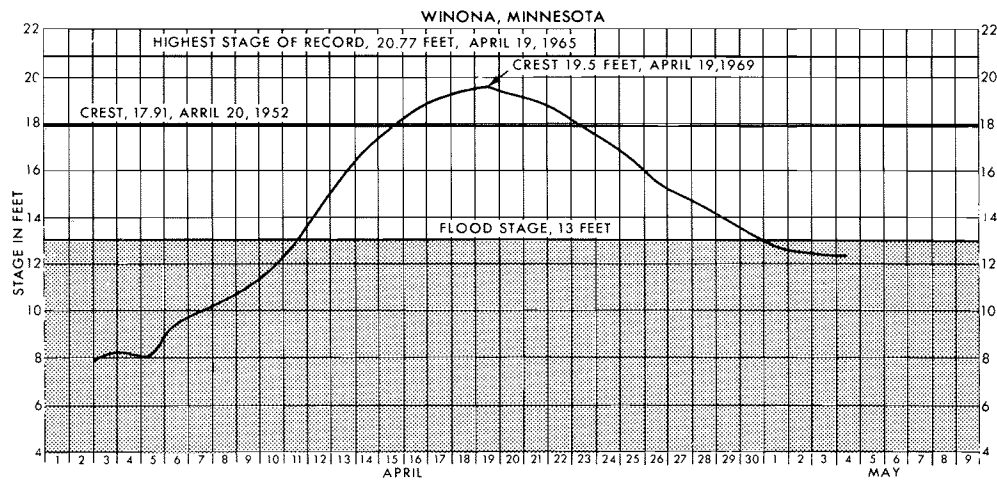
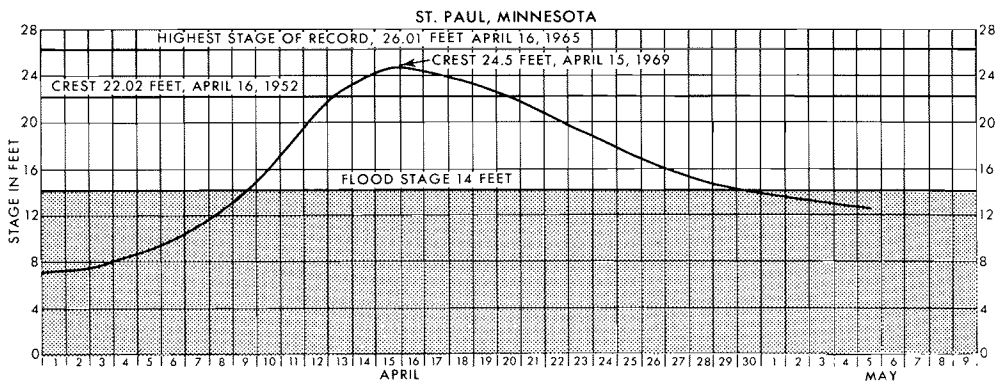
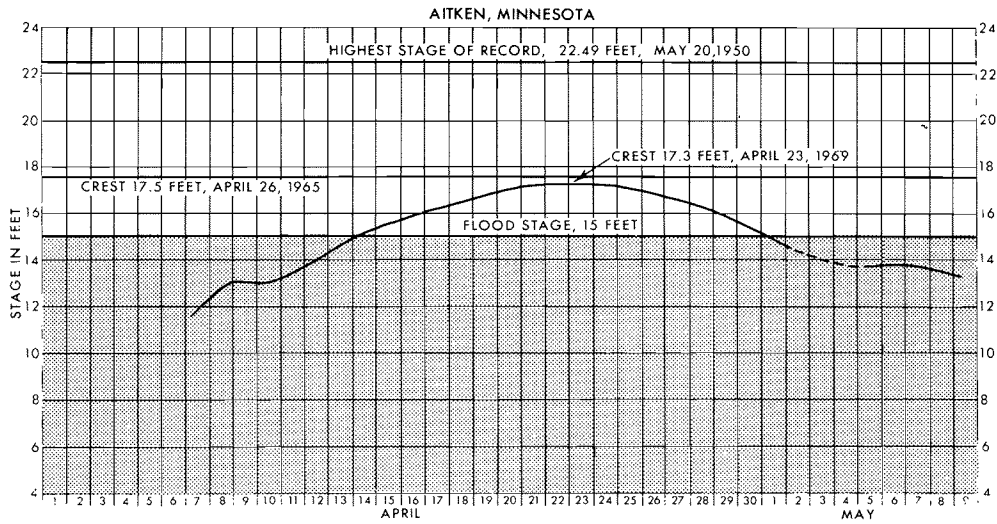


FIGURE 28. — April-May 1969 river stage hydrographs: Mississippi River at Aitken, St. Paul, and Winona, Minn.

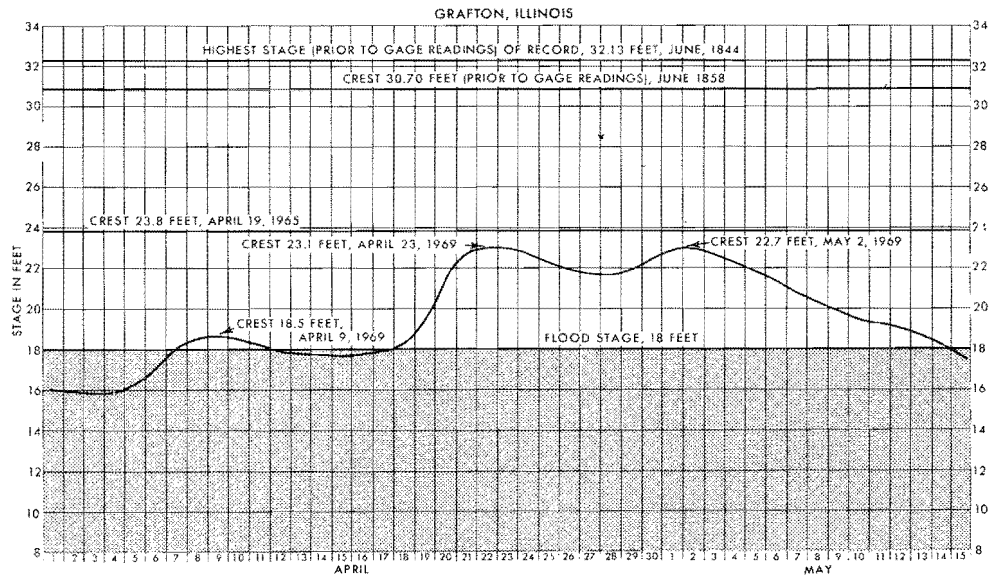
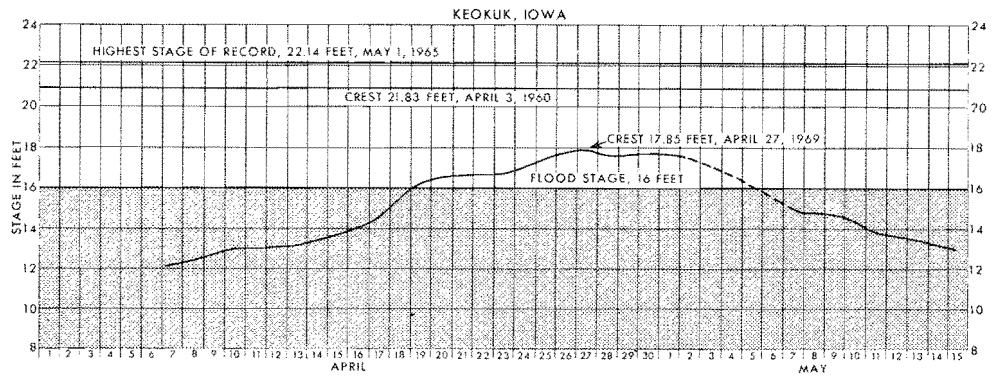
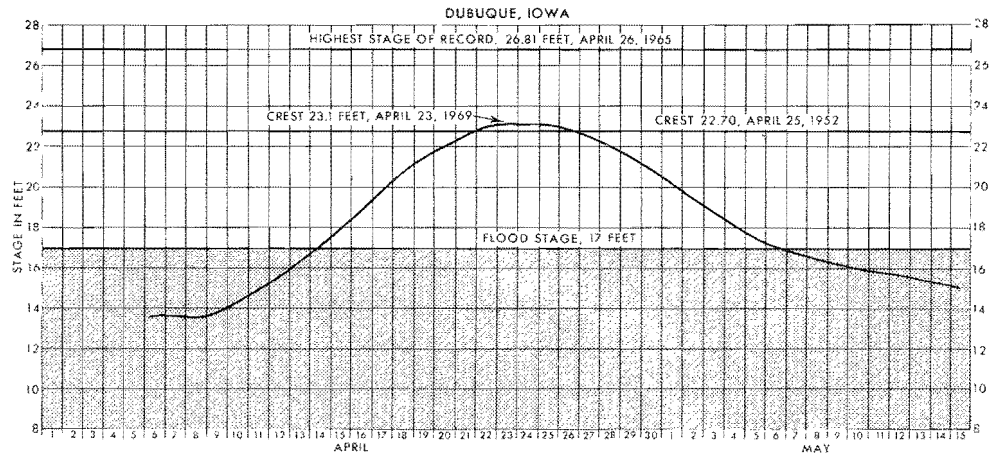


FIGURE 29. — April-May 1969 river stage hydrographs: Mississippi River at Dubuque and Keokuk, Iowa, and Grafton, Ill.

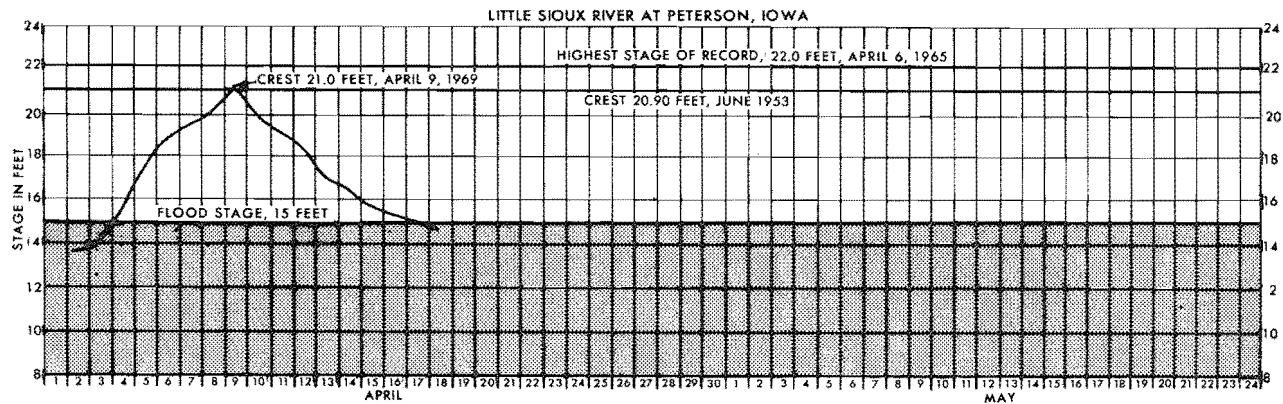
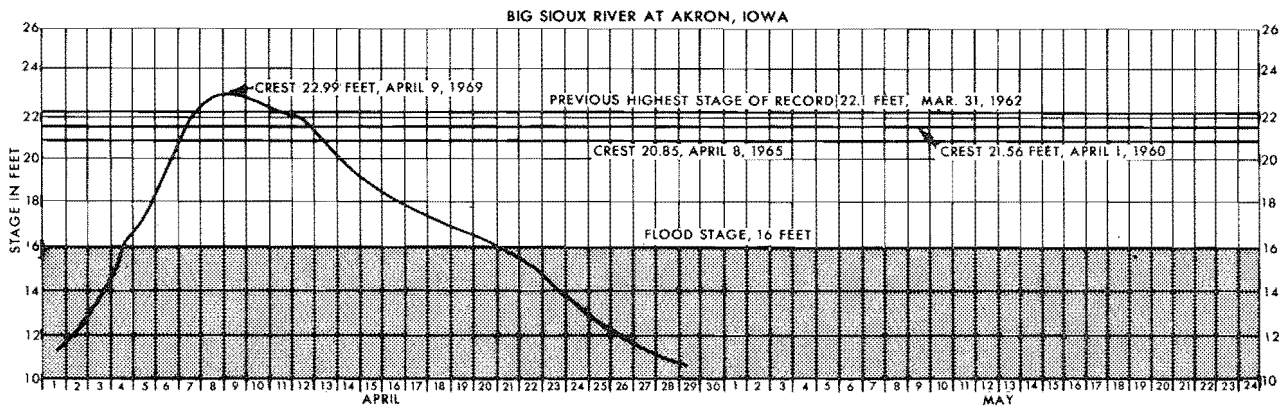
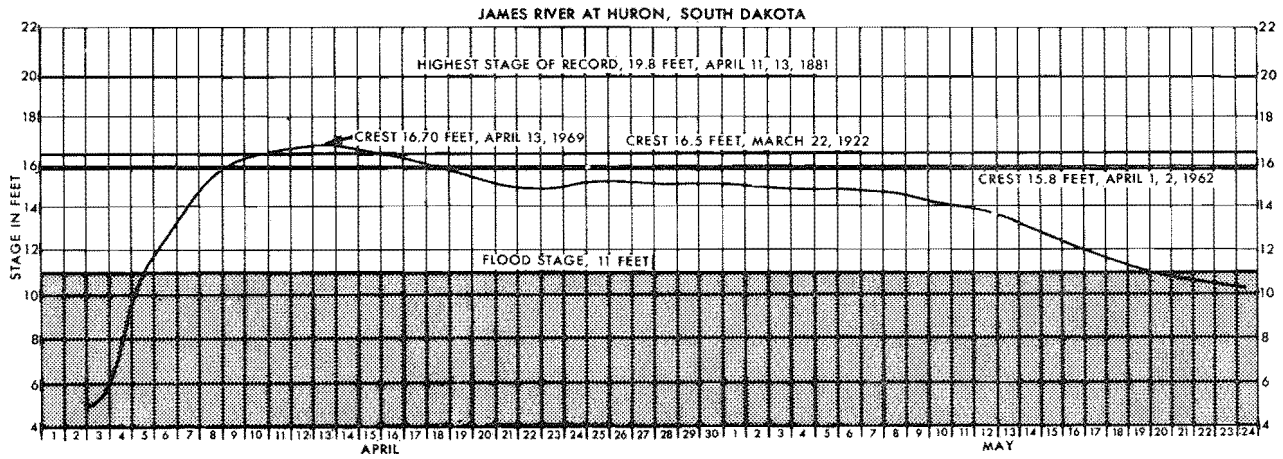
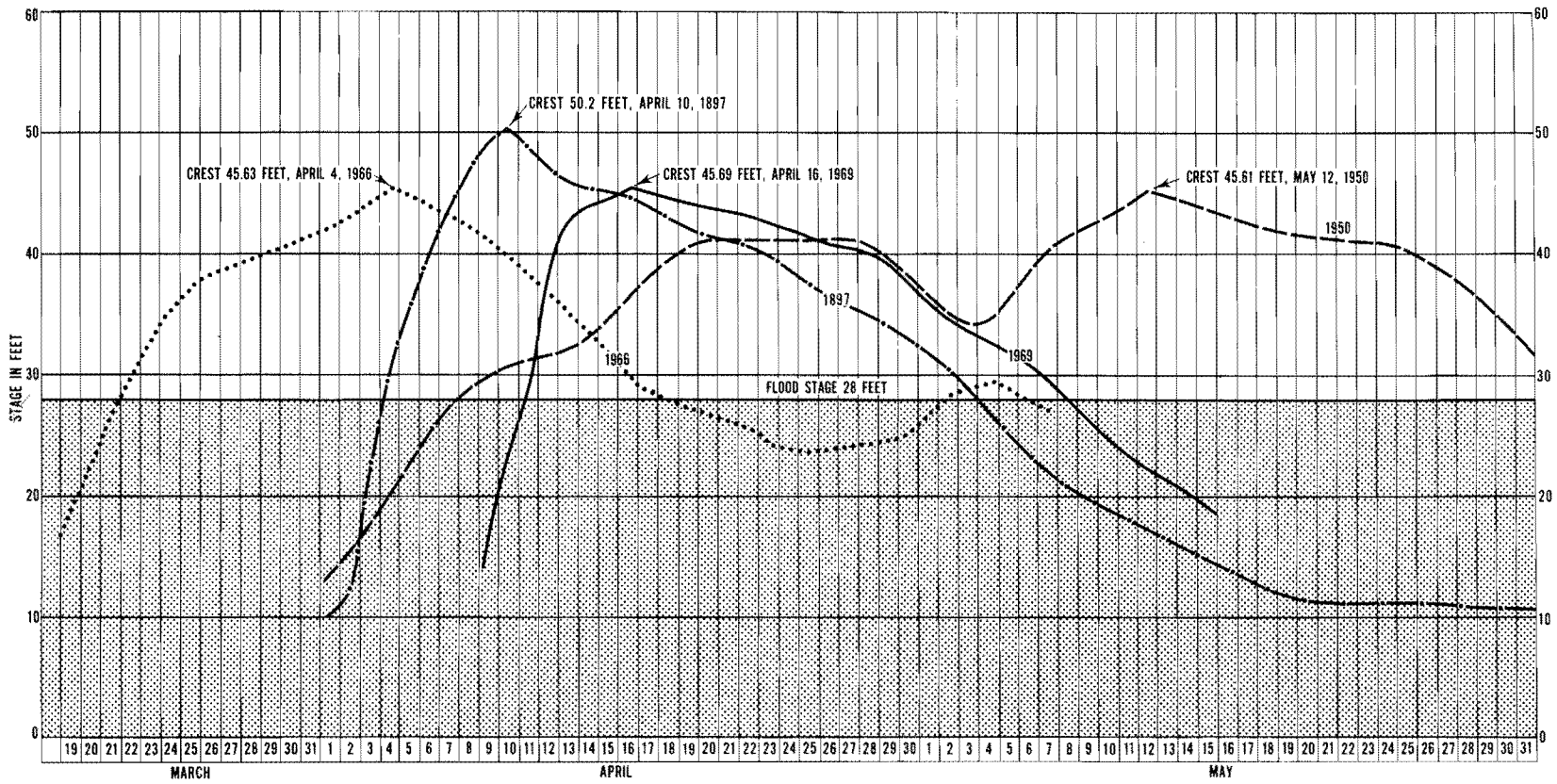


FIGURE 30. — April-May 1969 river stage hydrographs: James River at Huron, S. Dak., Big Sioux River at Akron, Iowa, and Little Sioux River at Peterson, Iowa.

FIGURE 31. — Comparison of Red River of the North 1969 flood hydrograph for Grand Forks, N. Dak., with hydrographs of other major floods.



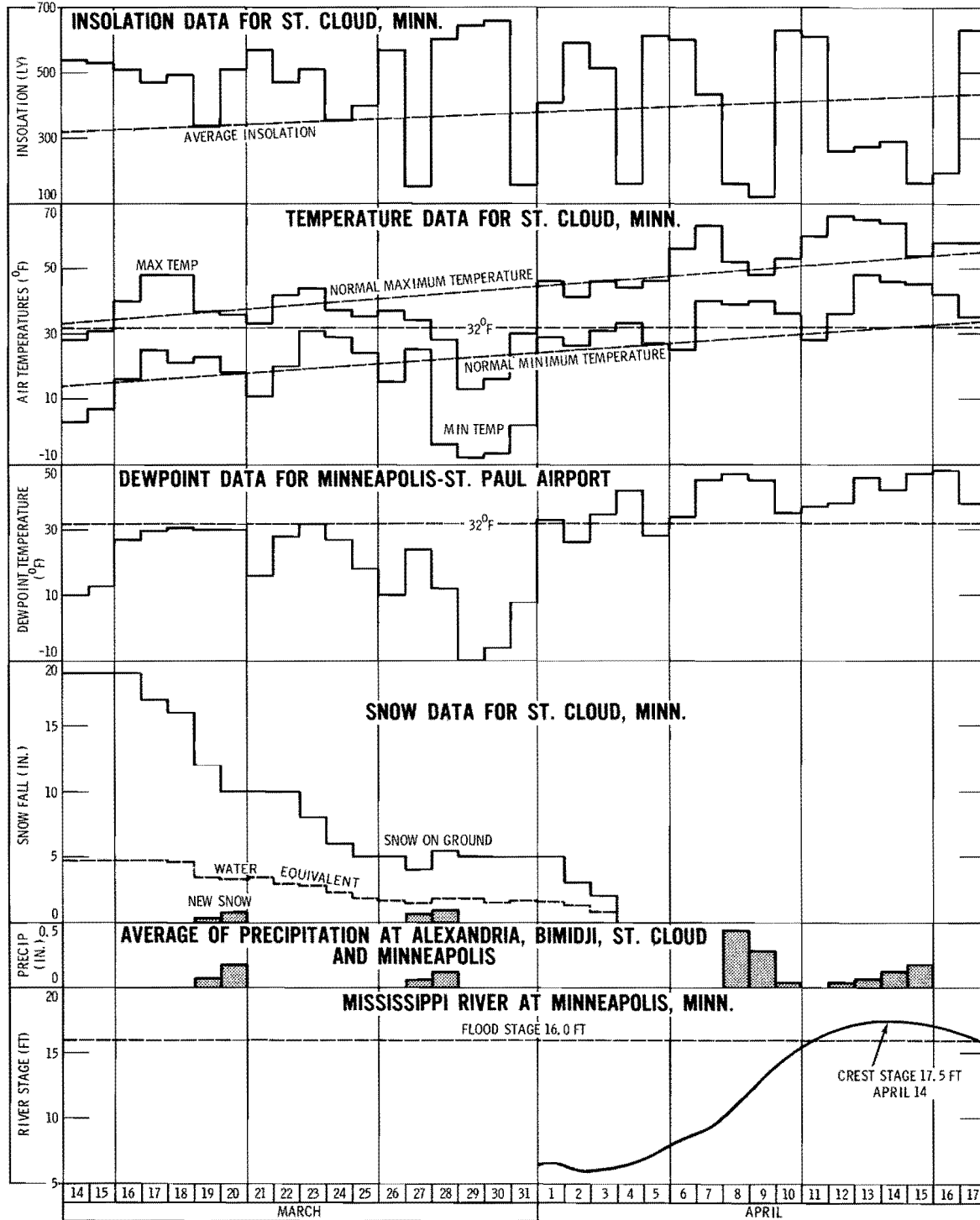


FIGURE 32.—Weather conditions associated with April 1969 flood on the Mississippi River at Minneapolis, Minn. Similar conditions prevailed over other river basins in Minnesota, Wisconsin, Iowa, and the Dakotas. These areas experienced the first severe flooding of the season during the first half of April.

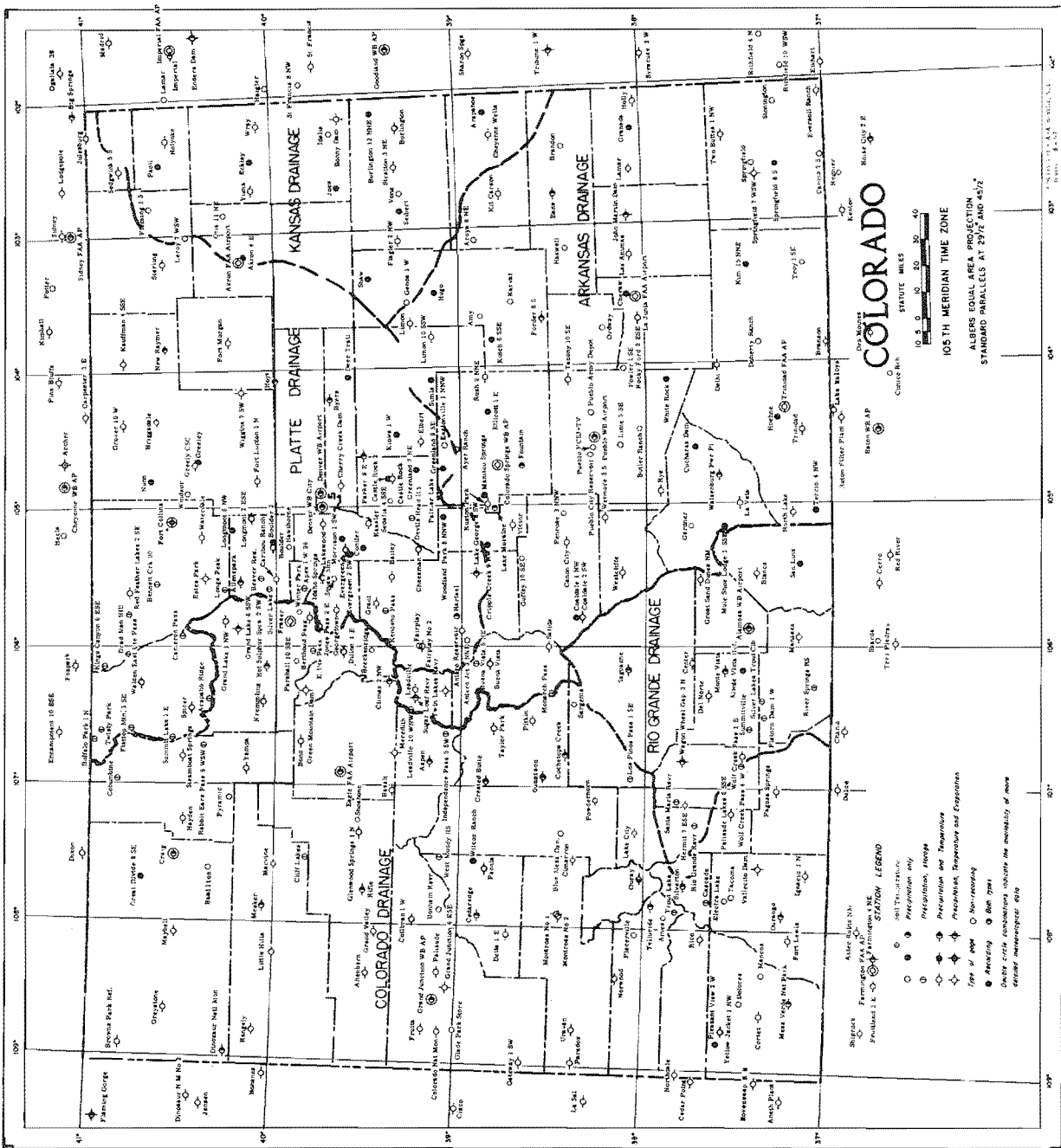
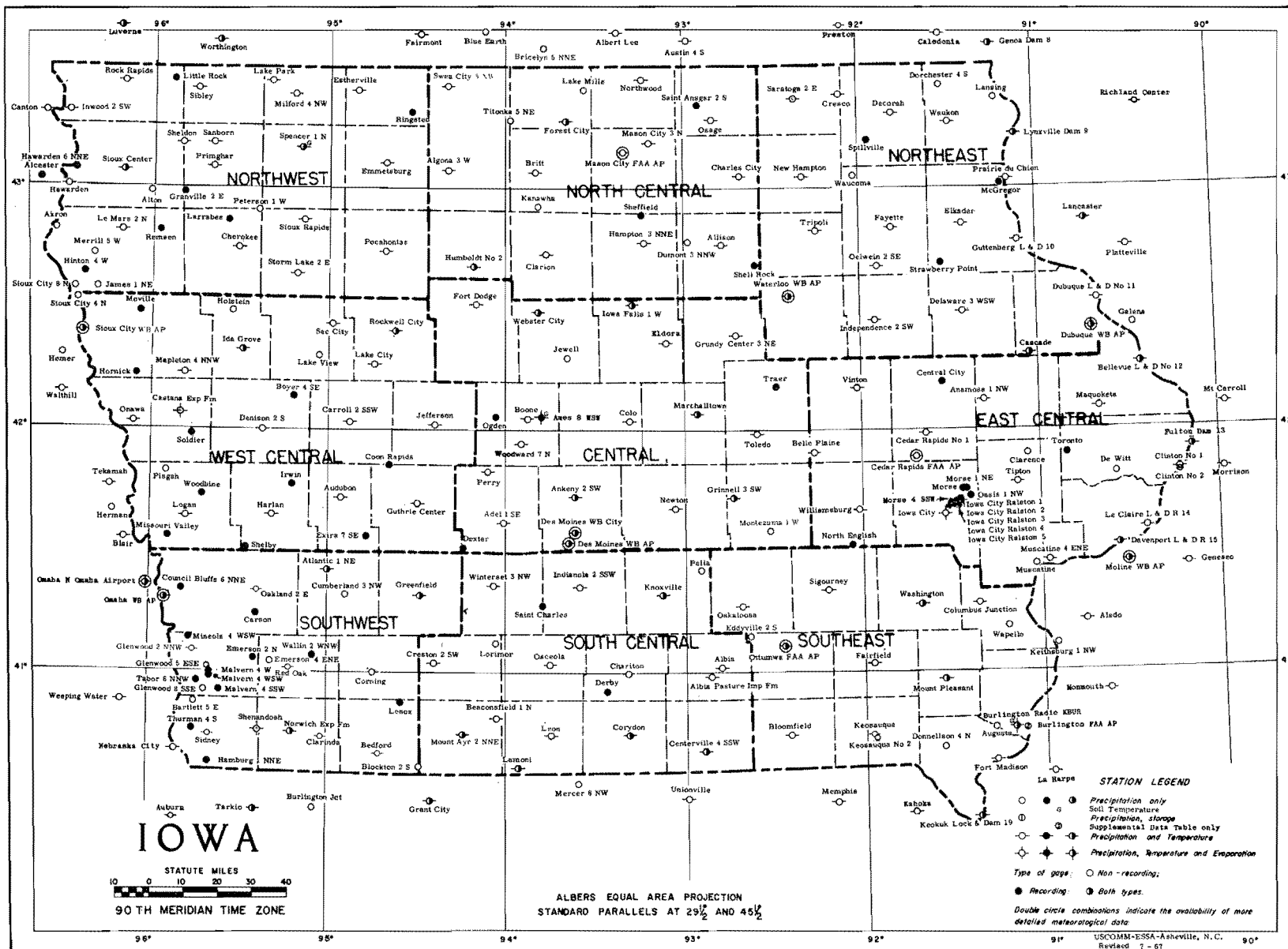


FIGURE 33. — Colorado climatological stations.



FIGURE 34.— Illinois climatological stations.

FIGURE 35.—Iowa climatological stations.



ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29° AND 45°

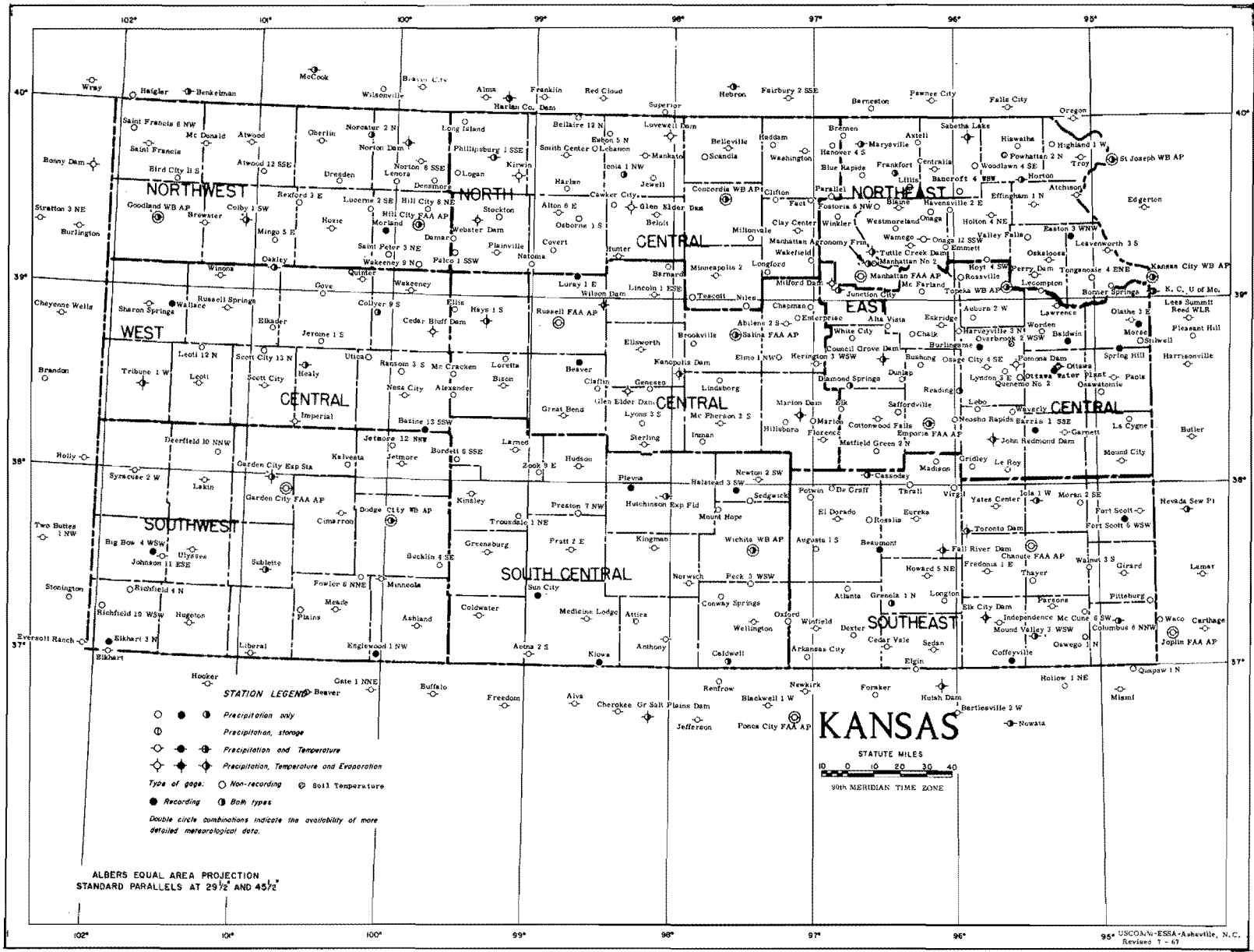


FIGURE 36. — Kansas climatological stations.



FIGURE 37. — Michigan climatological stations.



FIGURE 38. — Minnesota climatological stations.

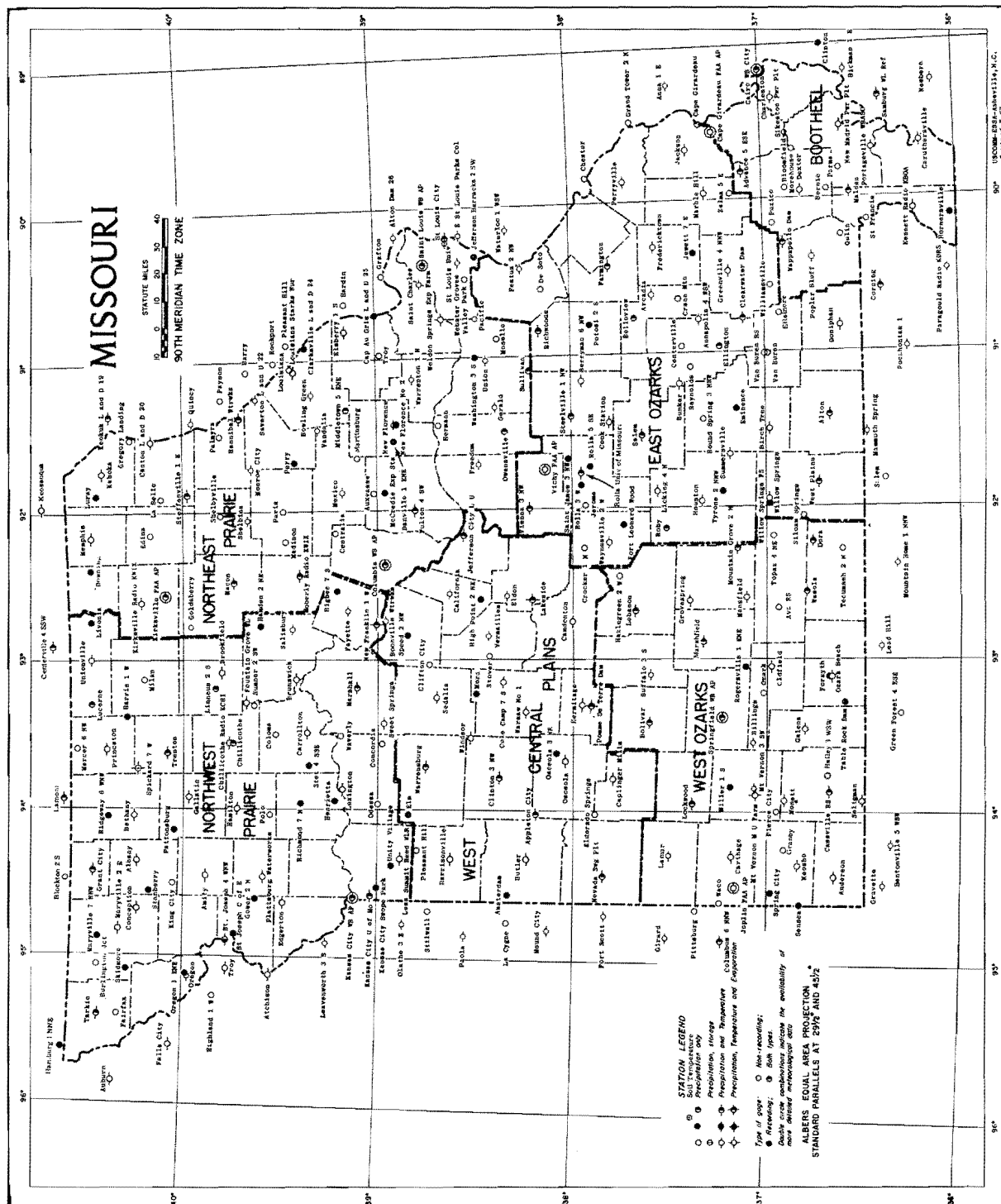


FIGURE 39.—Missouri climatological stations.

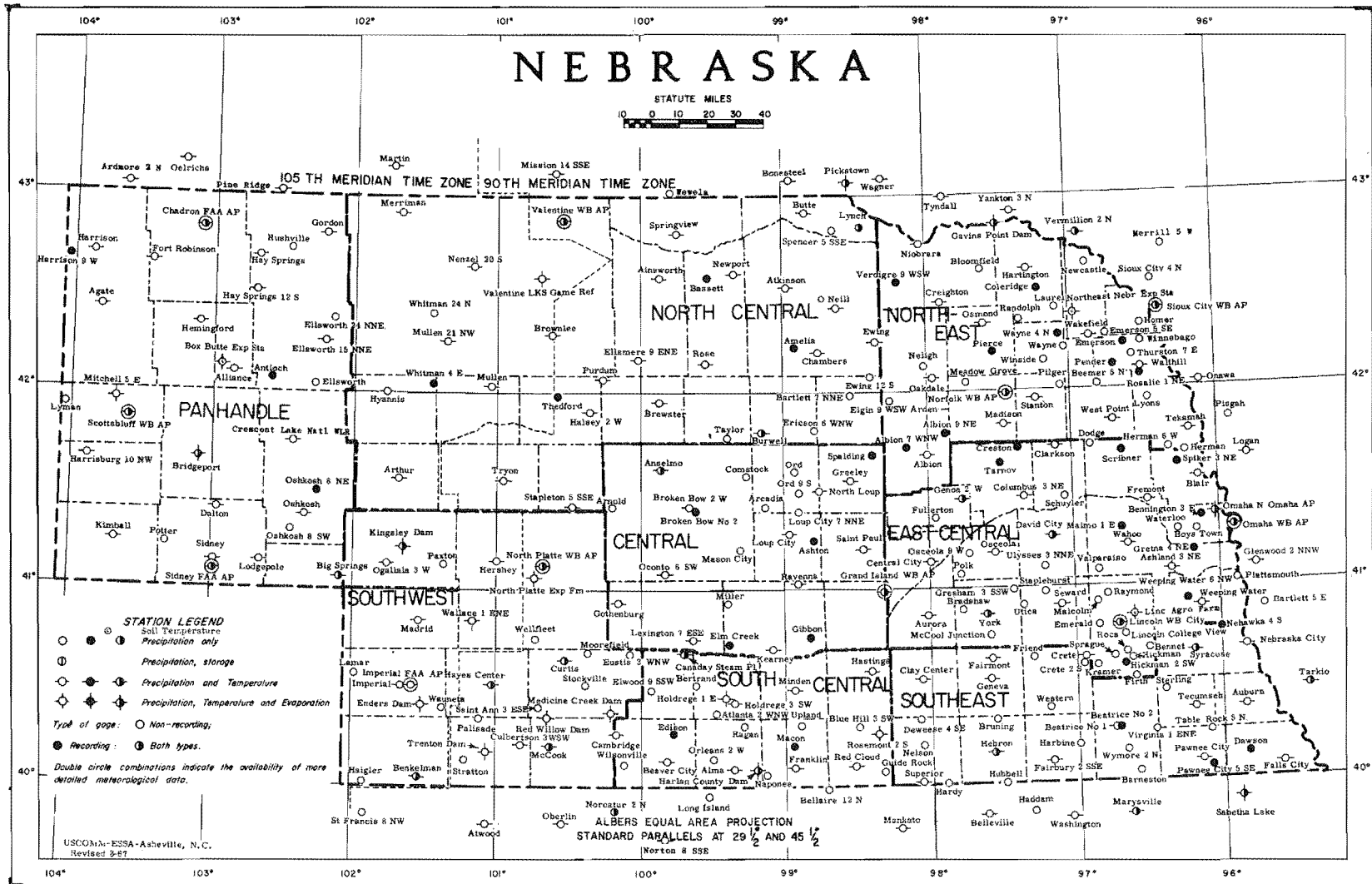
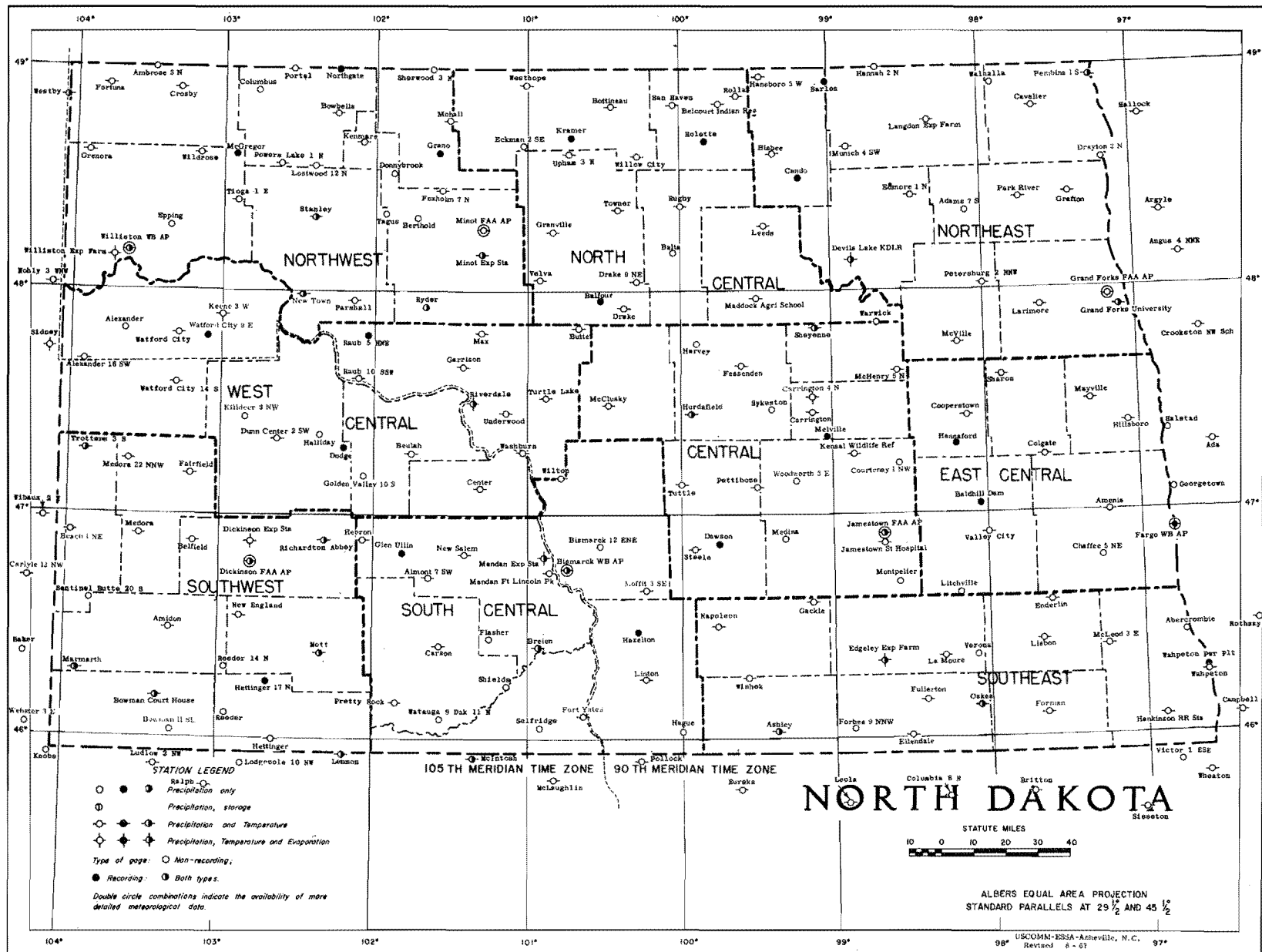


FIGURE 41.—Nebraska climatological stations.

FIGURE 42. — North Dakota climatological stations.



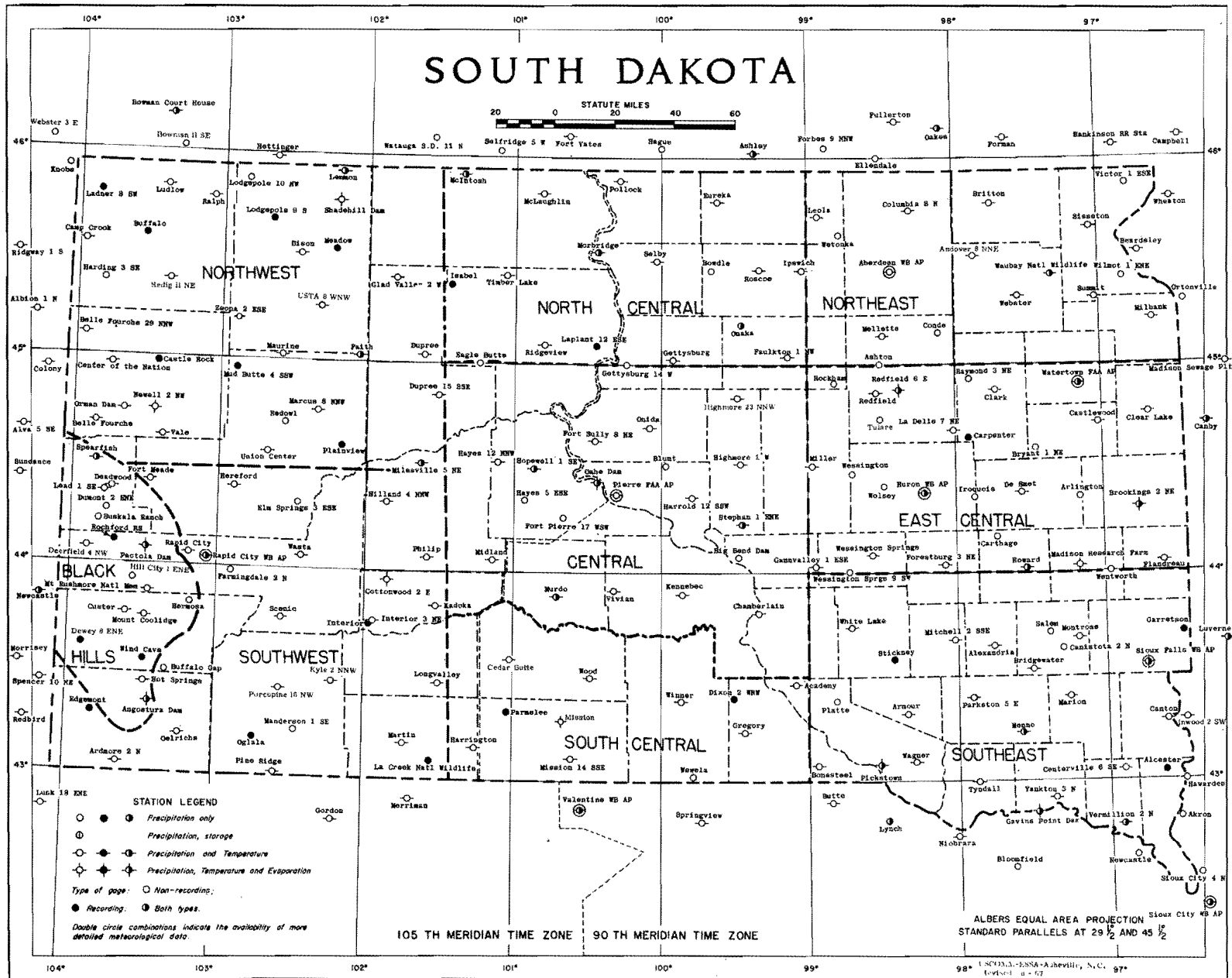


FIGURE 43.—South Dakota climatological stations.



FIGURE 44. — Wisconsin climatological stations.

Figure 45. - Wyoming climatological stations.

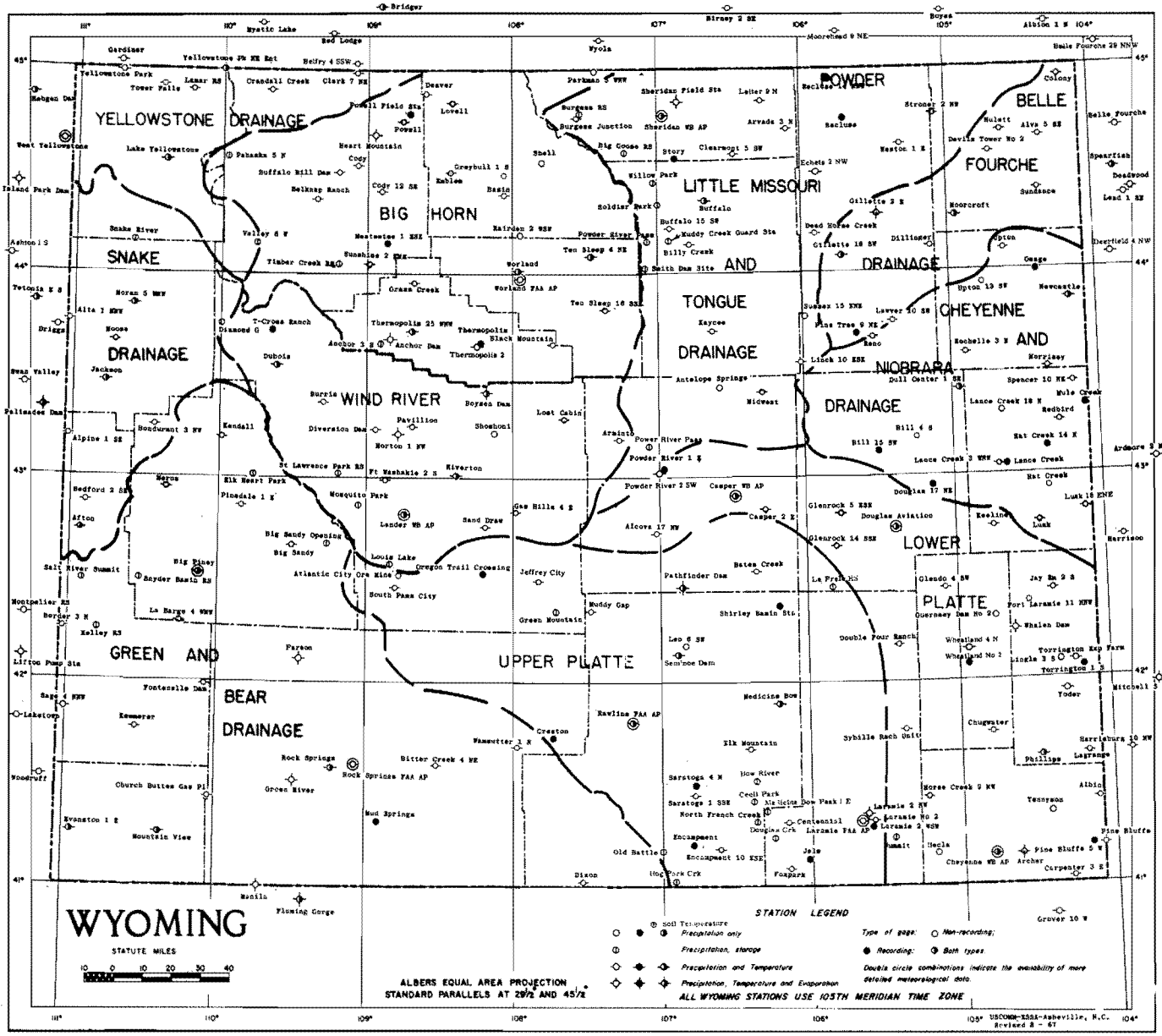


TABLE 1.—Flood stage and comparative crest stage data: Red River of the North, Upper Mississippi, and Missouri Basins

| River and station Map index no. in () | Flood stage Ft. | Month and year | | | | Month and year | | Month and year | |
|---|--------------------|--|---------|--------------------------|------------|-------------------------------------|------------------|--|-------------------|
| | | Above flood stages dates March-May 1969 | | *Crest March-May 1969 | Date | Previous maximum crest of record | | Previous second highest crest of record | |
| | | From- | To- | Stage | | Stage | Date | Stage | Date |
| | | | | Ft. | | Ft. | | Ft. | |
| <u>Red River of the North Basin</u> | | | | | | | | | |
| Sheyenne: | | | | | | | | | |
| Lisbon, N. Dak. (1) | 14.6 | Apr. 10 | Apr. 14 | 16.36 | Apr. 12 | 16.23 | Mar. 30, 1966 | 16.02 | Apr. 14, 1965 |
| | | Apr. 19 | Apr. 29 | 16.54 | Apr. 24 | | | | |
| West Fargo, N. Dak. (2) | 16.5 | Apr. 11 | May 6 | 21.7 | Apr. 17 | 21.04 | Mar. 22-23, 1966 | 20.75 | Apr. 19, 1965 |
| Buffalo: | | | | | | | | | |
| Dilworth, Minn. (3) | 12 | Apr. 9 | Apr. 23 | 25.55 | Apr. 11 | 23.56 | June 11, 1962 | | |
| Red Lake: | | | | | | | | | |
| Crookston, Minn. (4) | 15 | Apr. 9 | Apr. 20 | 27.33 | Apr. 12 | 25.8 | Apr. 13, 1965 | 25.7 | May 7, 1950 |
| Souris: | | | | | | | | | |
| Sherwood (nr), N. Dak. (5) | 18b | Apr. 9 | May 1 | 24.72 | Apr. 11 | 23.80 | Apr. 28, 1948 | p22 ⁺ | 1927 |
| Foxholm (nr), N. Dak. (6) | 8b | Apr. 9 | May 22 | 15.84 | Apr. 17-18 | 14.79 | May 16, 1948 | | |
| Minot (abv), N. Dak. (7) | 15 | Apr. 8 | Apr. 13 | 17.04 | Apr. 10 | | | | |
| | | Apr. 16 | May 8 | 20.36 | Apr. 19 | p26 | 1882 | 23 | Apr. 1904 |
| Verendrye (nr), N. Dak. (8) | 17b | Apr. 28 | May 1 | 17.05 | Apr. 30 | H17.7 | Apr. 8, 1949 | | |
| Bantry (nr), N. Dak. (9) | 7b | Apr. 11 | June 14 | 13.80 | May 4 | 13.76 | Apr. 13, 1949 | | |
| Westhope (nr), N. Dak. (10) | 7b | Apr. 9 | June 27 | 17.6 | Apr. 19 | H16.9 | Apr. 20, 1949 | | |
| Red River of the North: | | | | | | | | | |
| Wahpeton, N. Dak. (11) | 10 | Apr. 8 | May 1 | 16.34 | Apr. 10 | p17.0 | Apr. 1897 | 15.0 | Apr. 12, 1952 |
| Fargo, N. Dak. (12) | 17 | Apr. 8 | May 14 | 37.34 | Apr. 15 | p40.1 | Apr. 7, 1897 | p37.8 | Apr. 11, 1882 |
| Halstad, Minn. (13) | 24 | Apr. 11 | May 3 | 38.29 | Apr. 18 | p38.5 | 1897 | 35.5 | Mar. 27, 1966 |
| Grand Forks, N. Dak. (14) | 28 | Apr. 11 | May 8 | 45.69 | Apr. 16 | p50.2 | Apr. 10, 1897 | 49.5 | Apr. 21, 1882 |
| Oslo, Minn. (15) | 28 | Apr. 12 | May 9 | 36.9 | Apr. 17 | 37.08 | Apr. 5, 1966 | 35.1 | Apr. 4, 1967 |
| Drayton, N. Dak. (16) | 32 | Apr. 14 | May 15 | 41.35 | Apr. 23 | 42.15 | Apr. 8, 1966 | 40.4 | Apr. 22, 1965 |
| Pembina, N. Dak. (17) | 42 | Apr. 16 | May 15 | 49.7 | Apr. 26 | 52.9 | May 14, 1950 | 51.7 | May 1, 1950 |
| Emerson, N. Dak. (18) | 781.5 | Apr. 18 | May 14 | 787.61 | Apr. 26 | 791.2 | Apr. 18, 1897 | 790.9 | May 13, 1950 |
| <u>Upper Mississippi Basin</u> | | | | | | | | | |
| Crow: | | | | | | | | | |
| Delano, Minn. (19) | 8 | Apr. 4 | Apr. 28 | 15.6 | Apr. 12 | | | | |
| Rockford, Minn. (20) | 10 | Apr. 7 | Apr. 27 | 16.5 | Apr. 13 | 19.27 | Apr. 16, 1965 | 16.24 | Apr. 13, 1952 |
| Rum: | | | | | | | | | |
| St. Francis, Minn. (21) | 8.5 | Apr. 10 | Apr. 19 | 11.6 | Apr. 13 | 11.57 | Apr. 20, 1965 | 11.03 | Apr. 13, 1952 |
| St. Croix: | | | | | | | | | |
| Stillwater, Minn. (22) | 87 | Apr. 11 | Apr. 25 | 92.3 | Apr. 16 | 94.1 | Apr. 18, 1965 | 89.71 | Apr. 14, 1952 |
| Yellow Medicine: | | | | | | | | | |
| Granite Falls (nr), Minn. (23) | 6 | Apr. 8 | Apr. 21 | 14.9 | Apr. 10 | 17.5 | June 1919 | 12.41 | June 18, 1957 |
| Redwood: | | | | | | | | | |
| Marshall, Minn. (24) | 7 | Apr. 9 | Apr. 9 | 7.6 | Apr. 9 | 11.05 | Apr. 6, 1951 | 10.14 | June 17, 1957 |
| Redwood Falls, Minn. (25) | 6 | Apr. 6 | Apr. 18 | 14.6 | Apr. 9 | p17.0 | 1917 | 15.92 | June 18, 1957 |
| Cottonwood: | | | | | | | | | |
| New Ulm (nr), Minn. (26) | 11 | Apr. 4 | Apr. 18 | 19.2 | Apr. 10 | J20.86 | Apr. 8, 1965 | 16.94 | July 9, 1947 |
| Minnesota: | | | | | | | | | |
| Montevideo, Minn. (27) | 14 | Apr. 9 | May 11 | 21.7 | Apr. 12 | 20.02 | Apr. 10, 1952 | 16.80 | Apr. 11, 1951 |
| Mankato, Minn. (28) | 19 | Apr. 6 | Apr. 25 | 27.1 | Apr. 12 | p29.90 | Apr. 26, 1881 | 29.09 | Apr. 10, 1965 |
| Jordan, Minn. (29) | 20 | Mar. 27 | May 16 | 32.9 | Apr. 14 | 34.37 | Apr. 12, 1965 | 28.31 | Apr. 16, 1952 |
| Chaska, Minn. (30) | 18 | Mar. 29 | May 12 | 32.4 | Apr. 14 | 34.25 | Apr. 13, 1965 | 29.1 | Apr. 15, 16, 1952 |
| Savage, Minn. (31) | 698 | Mar. 30 | May 17 | 716.9 | Apr. 15 | 719.35 | Apr. 14, 1965 | 714.2 | Apr. 16, 1962 |
| Mendota, Minn. (32) | 699 | Apr. 7 | May 7 | 714.7 | Apr. 15 | 717.46 | Apr. 16, 1965 | 712.57 | Apr. 14-15, 1952 |
| Chippewa: | | | | | | | | | |
| Durand, Wis. (33) | 11 | Apr. 9 | Apr. 13 | 12.5 | Apr. 10 | p18.4 | Sept. 12, 1884 | 16.93 | Apr. 2, 1967 |
| Zumbro: | | | | | | | | | |
| Zumbro Falls, Minn. (34) | 18 | Apr. 4 | Apr. 5 | 20.1 | Apr. 5 | 30.80 | July 22, 1951 | p30.5 | Apr. 1888 |
| Theilman, Minn. (35) | 38 | Apr. 5 | Apr. 7 | 40.6 | Apr. 5 | 45.75 | Mar. 2, 1965 | 45.2 | Apr. 7, 1965 |
| Trempealeau: | | | | | | | | | |
| Dodge, Wis. (36) | 7 | Mar. 26 | Mar. 26 | 7.0 | Mar. 26 | 10.42 | Mar. 28, 1967 | 10.35 | Apr. 4, 1956 |
| | | Apr. 7 | Apr. 9 | 7.6 | Apr. 7 | | | | |
| Black: | | | | | | | | | |
| Galesville (nr), Wis. (37) | 12 | Apr. 7 | Apr. 9 | 12.6 | Apr. 7 | 14.63 | Apr. 1, 1967 | 14.31 | Sept. 11, 1938 |
| Root: | | | | | | | | | |
| Hokah, Minn. (38) | 47 | Apr. 4 | Apr. 6 | 49.1 | Apr. 5 | 50.8 | Mar. 2, 1965 | 50.0 | Mar. 9, 1950 |
| Kickapoo: | | | | | | | | | |
| Steuben, Wis. (39) | 8 | Mar. 25 | Mar. 28 | 8.7 | Mar. 27 | 13.66 | July 22, 1951 | 12.33 | Mar. 28, 1961 |
| | | Apr. 7 | Apr. 10 | 8.8 | Apr. 9 | | | | |
| Wisconsin: | | | | | | | | | |
| Portage, Wis. (40) | 17 | Apr. 9 | Apr. 12 | 17.2 | Apr. 11 | 20.5 | Sept. 14, 1938 | 19.6 | May 10, 1960 |
| Shell Rock: | | | | | | | | | |
| Marble Rock, Iowa (41) | 4 | Mar. 24 | Mar. 28 | 4.5 | Mar. 25 | 12.0 | Mar. 27, 1961 | 9.35 | Apr. 7, 1951 |
| West Fork Cedar: | | | | | | | | | |
| Finchford, Iowa (42) | 12 | Mar. 23 | Mar. 27 | 13.7 | Mar. 25 | 17.28 | June 27, 1951 | 15.91 | Apr. 7, 1965 |

TABLE 1.—Flood stage and comparative crest stage data: Red River of the North, Upper Mississippi, and Missouri Basins—Continued

| Map index no. in. () | River and station Flood stage Ft. | Month and year | | | | Month and year | | Month and year | | |
|--|--|---|---|--|------------------------------|---|--------|---|-------|------------------|
| | | Above Flood stages dates March-May 1969 | | Crest March-May 1969 | | Previous maximum crest of record | | Previous second highest crest of record | | |
| | | From- | To- | Stage Ft. | Date | Stage Ft. | Date | Stage Ft. | Date | |
| <u>Upper Mississippi Basin (cont'd):</u> | | | | | | | | | | |
| | Black Hawk Creek: Hudson, Iowa (43) | 12 | Mar. 20 Mar. 25 Apr. 5 | Mar. 22 Mar. 26 Apr. 5 | 15.2 12.95 13.05 | Mar. 19 Mar. 25 Apr. 5 | 16.93 | Mar. 31, 1960 | 15.46 | Feb. 21, 1953 |
| | Iowa: Marshalltown, Iowa (44) | 13 | Mar. 18 Apr. 4 | Mar. 30 Apr. 5 | 17.67 14.2 | Mar. 20 Apr. 4 | 17.74 | June 4, 1918 | 17.63 | Apr. 6, 1965 |
| | Wapello, Iowa (45) | 10 | Mar. 27 Apr. 11 | Apr. 4 Apr. 14 | 11.9 10.4 | Apr. 1 Apr. 12-13 | 17.25 | Apr. 13, 1965 | 17.02 | Apr. 5, 1960 |
| | North Skunk: Sigourney, Iowa (46) | 16 | Mar. 21 | Mar. 22 | 17.0 | Mar. 22 | 25.33 | Mar. 31, 1960 | 23.9 | June 14, 1966 |
| | Skunk: Ames, Iowa (47) | 10 | Mar. 19 | Mar. 21 | 12.1 | Mar. 20 | 12.6 | Apr. 6, 1965 | | |
| | Oskaloosa, Iowa (48) | 15 | Mar. 19 | Mar. 25 | 18.2 | Mar. 22 | p25.8 | May 23, 1944 | 21.26 | June 15, 1947 |
| | Brighton, Iowa (49) | 14 | Mar. 24 | Mar. 27 | 15.3 | Mar. 25 | | | | |
| | West Fork Des Moines: Jackson, Minn. (50) | 10 | Apr. 5 | Apr. 28 | 19.5 | Apr. 11 | 18.62 | Apr. 6, 1965 | 17.43 | June 8, 1953 |
| | Estherville, Iowa (51) | 7 | Apr. 4 | Apr. 30 | 17.7 | Apr. 12 | 15.61 | Apr. 10, 1965 | 15.53 | June 8, 1953 |
| | Humboldt, Iowa (52) | 8 | Apr. 5 | May 2 | 15.4 | Apr. 14 | 13.90 | Apr. 8, 1965 | 12.2 | June 23, 1947 |
| | Boone: Webster City, Iowa (53) | 10 | Mar. 24 | Mar. 26 | 11.55 | Mar. 25 | p19.1 | June 10, 1918 | 18.55 | June 22, 1954 |
| | North Raccoon: Jefferson, Iowa (54) | 10 | Mar. 20 Apr. 18 | Apr. 12 Apr. 20 | 15.9 14.5 10.1 | Mar. 26 Apr. 7 Apr. 18 | 22.3 | June 23, 1947 | 19.5 | June 22, 1954 |
| | South Raccoon: Redfield, Iowa (55) | 14 | Mar. 18 | Mar. 20 | 16.6 | Mar. 19 | 29.04 | July 2, 1958 | 24.3 | June 12, 1947 |
| | Raccoon: Van Meter, Iowa (56) | 13 | Mar. 18 | Mar. 30 | 17.6 | Mar. 25 | 21.77 | July 3, 1958 | 21.6 | June 13, 1947 |
| | Des Moines (SW 18th St.), Iowa (57) | 12 | Mar. 25 | Mar. 29 | 14.8 | Mar. 26 | 19.8 | June 13, 1947 | 18.8 | Apr. 2, 1960 |
| | North: Norwalk, Iowa (58) | 14 | Mar. 17 Mar. 25 | Mar. 20 Mar. 27 | 21.4 18.3 | Mar. 19 Mar. 25 | 25.3 | June 13, 1947 | 22.6 | July 1, 1959 |
| | Cedar Creek: Bussey, Iowa (59) | 16.5 | Apr. 27 | Apr. 27 | 17.0 | Apr. 27 | #28.45 | June 1946 | 28.06 | July 2, 1958 |
| | Des Moines: Fort Dodge, Iowa (60) | 10 | Apr. 11 | Apr. 20 | 12.8 | Apr. 15 | 19.62 | June 23, 1947 | 19.28 | June 21, 1954 |
| | Boone, Iowa (61) | 12 | Mar. 25 Apr. 4 Apr. 13 Apr. 22 | Mar. 26 Apr. 10 Apr. 21 Apr. 21 | 12.8 14.5 14.4 26.3 | Mar. 25 Apr. 7 Apr. 16 Mar. 27 | 25.35 | June 22, 1954 | 22.89 | Apr. 9, 1965 |
| | Des Moines (SE 14th St.), Iowa (62) | 21 | Mar. 22 Apr. 7 Apr. 15 | Apr. 12 Apr. 12 Apr. 22 | 26.3 24.2 24.2 | Apr. 11 Apr. 11 Apr. 19 | p30.5 | May 31, 1903 | 29.78 | Apr. 11, 1965 |
| | Tracy, Iowa (63) | 14 | Mar. 26 | Apr. 19 | 15.53 15.9 | Mar. 28 Apr. 11 | 26.3 | June 14, 1947 | p25.0 | May 31, 1903 |
| | Eddyville, Iowa (64) | 15 | Mar. 26 | Apr. 19 | 16.9 17.5 | Mar. 28 Apr. 10 | 28.1 | June 14, 1947 | 24.8 | May 31, 1903 |
| | Ottumwa, Iowa (65) | 10 | Mar. 27 | Apr. 19 | 10.4 11.6 | Mar. 28 Apr. 17 | 23.0 | May 31, 1903 | 21.1 | June 7, 1947 |
| | Salt: New London, Mo. (66) | 19 | Mar. 25 Apr. 6 Apr. 20 | Mar. 25 Apr. 7 Apr. 20 | 19.8 19.75 19.85 | Mar. 25 Apr. 6 Apr. 20 | 29.92 | Aug. 2, 1958 | 28.8 | June 21, 1928 |
| | Sangamon: Riverton, Ill. (67) | 13 | Mar. 25 Apr. 6 Apr. 10 | Mar. 30 Apr. 7 Apr. 27 | 15.7 13.7 14.5 15.9 | Mar. 28 Apr. 6 Apr. 11 Apr. 15 | 31.52 | May 19, 1943 | | |
| | Petersburg, Ill. (68) | 497 | Apr. 21 | Apr. 22 | 498.2 | Apr. 21 | 507.9 | May 20, 1943 | 502.3 | July 1, 1951 |
| | Illinois: La Salle, Ill. (69) | 20 | Apr. 18 | Apr. 19 | 20.0 | Apr. 18 | 31.0 | May 22, 1943 | 30.2 | Jan. 22, 1961 |
| | Havana, Ill. (70) | 14 | Apr. 20 | May 2 | 15.3 | Apr. 25 | 27.3 | May 25, 1943 | 23.5 | Oct. 12, 1926 |
| | Beardstown, Ill. (71) | 18 | Apr. 19 | May 6 | 17.0 | Apr. 25 | 29.7 | May 26, 27, 1943 | 26.2 | Apr. 29-30, 1944 |
| | Meredosia, Ill. (72) | 428 | Apr. 1 | May 18 | 434.5 | Apr. 25 | 428.61 | May 26, 1943 | | |
| | Kaskaskia: Shelbyville, Ill. (73) | 13 | Apr. 19 | Apr. 21 | 14.1 | Apr. 20 | 22.37 | June 29, 1957 | 21.17 | May 19, 1943 |
| | Vandalia, Ill. (74) | 18 | Apr. 15 | Apr. 23 | 19.3 23.2 | Apr. 17 Apr. 19 | 27.39 | June 29, 1951 | 25.7 | June 15, 1957 |
| | Big Muddy: Murphysboro, Ill. (75) | 16 | Apr. 10 | May 7 | 23.7 | Apr. 23 | 37.97 | May 12, 1961 | 36.01 | Jan. 28, 1949 |

TABLE 1.—Flood stage and comparative crest stage data: Red River of the North, Upper Mississippi, and Missouri Basins—Continued

| River and station Map Index No. in () | Flood stage Ft. | Month and year | | | | Month and year | | | |
|---|--------------------|---|---------|-------------------------|------------|--|-------------------|---|--------------------|
| | | Above flood stages dates March-May 1969 | | Crest March-May 1969 | | Previous maximum crest of record | | Previous second highest crest of record | |
| | | From- | To- | Stage Ft. | Date | Stage Ft. | Date | Stage Ft. | Date |
| Upper Mississippi Basin (cont'd) | | | | | | | | | |
| Mississippi: | | | | | | | | | |
| Libby, Minn. (76) | 13 | Apr. 14 | May 11 | 16.4 | Apr. 21 | 20.02 | May 17, 1950 | 15.76 | Apr. 25, 1966 |
| Aitkin, Minn. (77) | 15 | Apr. 14 | May 1 | 17.3 | Apr. 23 | 22.49 | May 20, 1950 | 17.5 | Apr. 26, 1965 |
| Fort Ripley, Minn. (78) | 10 | Apr. 9 | May 2 | 13.1 | Apr. 13 | 13.55 | Apr. 16, 1965 | 13.3 | May 22, 1950 |
| Anoka, Minn. (79) | 838 | Apr. 10 | Apr. 20 | 841.4 | Apr. 13 | | | | |
| Minneapolis, Minn. (80) | 16 | Apr. 11 | Apr. 17 | 17.5 | Apr. 14 | 20.0 | Apr. 16, 1965 | 19.5 | Apr. 14, 1952 |
| St. Paul, Minn. (81) | 14 | Apr. 9 | Apr. 30 | 24.5 | Apr. 15 | 26.01 | Apr. 16, 1965 | 22.02 | Apr. 16, 1952 |
| Hastings, Minn. (82) | 15 | Apr. 10 | May 2 | 26.3 | Apr. 16 | 25.4 | Apr. 17, 1965 | 20.93 | Apr. 16, 1952 |
| Red Wing, Minn. (83) | 14 | Apr. 12 | Apr. 26 | 18.8 | Apr. 17 | 20.9 | Apr. 18, 1965 | 20.7 | Apr. 18, 1952 |
| Lake City, Minn. (84) | 16 | Apr. 11 | Apr. 27 | 20.2 | Apr. 17 | 22.18 | Apr. 19, 1965 | 19.15 | Apr. 18, 1952 |
| Wabasha, Minn. (85) | 12 | Apr. 10 | May 3 | 17.6 | Apr. 17 | 20.05 | Apr. 19, 1965 | p17.1 | June 18, 1880 |
| Alma, Wis. (86) | 16 | Apr. 14 | Apr. 23 | 17.6 | Apr. 18 | 19.85 | Apr. 19, 1965 | 16.3 | Apr. 19, 1952 |
| Winona, Minn. (87) | 13 | Apr. 11 | Apr. 30 | 19.5 | Apr. 19 | 20.77 | Apr. 19, 1965 | 17.91 | Apr. 20, 1952 |
| LaCrosse, Wis. (88) | 12 | Apr. 11 | Apr. 30 | 15.7 | Apr. 20 | 17.9 | Apr. 21, 1965 | 16.5 | June 19, 1880 |
| Lansing, Iowa (89) | 18 | Apr. 19 | Apr. 25 | 18.9 | Apr. 22 | 22.52 | Apr. 22, 1965 | p19.9 | June 20or 21, 1880 |
| McGregor, Iowa (90) | 18 | Apr. 15 | Apr. 30 | 21.6 | Apr. 22 | 25.38 | Apr. 24, 1965 | 21.60 | June 22, 1880 |
| Guttenberg, Iowa (91) | 15 | Apr. 14 | May 3 | 19.9 | Apr. 22 | 23.65 | Apr. 24, 1965 | 20.1 | 1880 |
| Cassville, Wis. (92) | 17 | Apr. 14 | May 4 | 20.5 | Apr. 23 | | | | |
| Dubuque, Iowa (93) | 17 | Apr. 14 | May 5 | 23.1 | Apr. 23 | 26.81 | Apr. 26, 1965 | 22.70 | Apr. 25, 1952 |
| Clinton, Iowa (94) | 16 | Apr. 17 | May 7 | 21.25 | Apr. 25 | 24.85 | Apr. 28, 1965 | 20.92 | Apr. 28, 1952 |
| LeClaire, Iowa (95) | 10 | Apr. 17 | May 8 | 14.6 | Apr. 26 | 17.75 | Apr. 28, 1965 | 14.0 | Apr. 27, 1952 |
| Moline, Ill. (96) | 13.5 | Apr. 18 | May 6 | 17.4 | Apr. 26-27 | 20.6 | Apr. 28, 1965 | 16.6 | Apr. 27, 28, 1952 |
| Davenport, Iowa (97) | 15 | Apr. 18 | May 6 | 19.3 | Apr. 27 | 22.48 | Apr. 28, 1965 | 20.9 | Mar. 10, 1868 |
| Muscataine, Iowa (98) | 16 | Apr. 18 | May 7 | 21.2 | Apr. 26 | 24.81 | Apr. 29, 1965 | 21.05 | Apr. 28, 1952 |
| Keithsburg, Ill. (99) | 12 | Apr. 11 | May 16 | 17.2 | Apr. 26 | 20.36 | Apr. 27, 1965 | 17.1 | Apr. 29, 1951 |
| Burlington, Iowa (100) | 15 | Apr. 18 | May 10 | 18.4 | Apr. 30 | 21.0 | Apr. 30, 1965 | 18.94 | June 1851 |
| Keokuk, Iowa (101) | 16 | Apr. 19 | May 5 | 17.85 | Apr. 27 | 22.14 | May 1, 1965 | 21.83 | Apr. 3, 1960 |
| Gregory Landing, Mo. (102) | 15 | Apr. 18 | May 10 | 18.3 | Apr. 27 | 22.71 | May 1, 1965 | 22.31 | Apr. 4, 1960 |
| Quincy, Ill. (103) | 17 | Apr. 18 | May 10 | 20.2 | Apr. 29 | 24.80 | Apr. 28, 1965 | 24.38 | Apr. 4, 1960 |
| Kanabial, Mo. (104) | 16 | Apr. 6 | Apr. 7 | 16.2 | Apr. 6 | 24.59 | May 1, 1965 | 23.4 | Apr. 4, 1960 |
| | | Apr. 11 | May 14 | 20.45 | May 1 | | | | |
| Louisiana, Mo. (105) | 15 | Apr. 6 | Apr. 9 | 15.9 | Apr. 7 | 22.6 | June 22, 1947 | 22.1 | June 10, 1947 |
| | | Apr. 15 | May 15 | 19.2 | Apr. 21 | | | 22.1 | May 1, 1965 |
| Clarksville, Mo. (106) | 25 | Apr. 6 | Apr. 9 | 26.0 | Apr. 7 | 32.53 | June 22, 1947 | 32.2 | May 2, 1965 |
| | | Apr. 15 | May 16 | 29.5 | Apr. 22 | | | | |
| Winfield, Mo. (107) | 26 | Apr. 8 | Apr. 8 | 26.0 | Apr. 8 | 33.64 | June 24, 1947 | 32.7 | May 2, 1965 |
| | | Apr. 19 | May 15 | 30.0 | Apr. 22 | | | | |
| Grafton, Ill. (108) | 18 | Apr. 7 | Apr. 12 | 18.5 | Apr. 9 | p32.13 | June 1844 | p30.70 | June 1858 |
| | | Apr. 17 | May 14 | 22.9 | Apr. 22 | | | | |
| Alton, Ill. (109) | 21 | Apr. 8 | Apr. 10 | 21.8 | Apr. 9 | p36.94 | June 1844 | 34.43 | May 24, 1943 |
| | | Apr. 19 | May 8 | 26.2 | Apr. 22 | | | | |
| | | | May 2 | 25.8 | May 2 | | | | |
| St. Louis, Mo. (110) | 30 | Apr. 21 | Apr. 23 | 31.1 | Apr. 21 | p41.32 | June 27, 1844 | 40.28 | July 22, 1951 |
| | | May 1 | May 3 | 30.9 | May 1 | | | | |
| Chester, Ill. (111) | 27 | Apr. 9 | Apr. 11 | 27.6 | Apr. 10 | p39.83 | June 30, 1844 | 39.28 | July 23, 1951 |
| | | Apr. 20 | May 7 | 31.25 | Apr. 23 | | | | |
| Cape Girardeau, Mo. (112) | 32 | Apr. 10 | Apr. 12 | 32.4 | Apr. 11 | p42.53 | July 4, 1844 | 42.37 | May 27, 1943 |
| | | Apr. 20 | May 7 | 36.1 | Apr. 24 | | | | |
| Missouri Basin | | | | | | | | | |
| Yellowstone: | | | | | | | | | |
| Miles City, Mont. (113) | 15 | Mar. 19 | Mar. 19 | 16.11 | Mar. 19 | H21.7 | Mar. 20, 1944 | | |
| Glendive (nr), Mont. (114) | 54 | Mar. 20 | Mar. 20 | 62.8 | Mar. 20 | 60.5 | Mar. 19, 1959 | | |
| Sidney, Mont. (115) | 19 | Mar. 21 | Mar. 21 | 21.0 | Mar. 21 | 23.85 | Mar. 22, 1947 | 21.7 | Mar. 30, 1952 |
| Spring Creek: | | | | | | | | | |
| Zap, N. Dak. (116) | 14 | Apr. 3 | Apr. 8 | 20.27 | Apr. 6 | 20.03 | Apr. 7, 1952 | p20.† | 1913 |
| Knife: | | | | | | | | | |
| Hazen, N. Dak. (117) | 21 | Apr. 3 | Apr. 9 | 24.75 | Apr. 7 | 27.01 | June 24, 1966 | 26.3 | Mar. 26or 27, 1943 |
| Heart: | | | | | | | | | |
| Mandan, N. Dak. (118) | 17 | Apr. 3 | Apr. 9 | 22.84 | Apr. 4 | 25.75 | Apr. 4, 1952 | 24.7 | Mar. 26, 1943 |
| Cannonball: | | | | | | | | | |
| Breien, N. Dak. (119) | 8 | Apr. 4 | Apr. 7 | 13.9 | Apr. 4 | 22.30 | Apr. 19, 1950 | 17.4 | Mar. 27, 1943 |
| Pipestem: | | | | | | | | | |
| Buchanan, N. Dak. (120) | 8 | Apr. 9 | Apr. 15 | 12.08 | Apr. 10 | 11.89 | Apr. 9, 1950 | 10.77 | Apr. 17, 1950 |
| James: | | | | | | | | | |
| Jamestown, N. Dak. (121) | 12 | Apr. 10 | Apr. 17 | 16.9 | Apr. 11 | *17.8 | May 13, 1950 | | |
| La Moure, N. Dak. (122) | 8.2 | Apr. 9 | Apr. 18 | 16.17 | Apr. 14 | 15.34 | May 16, 1950 | | |
| Columbia, S. Dak. (123) | 11 | Apr. 9 | July 27 | 16.4 | Apr. 11 | 16.89 | May 24, 1950 | 16.53 | Apr. 17, 1952 |
| | | | | 17.1 | Apr. 23 | | | | |
| Stratford, S. Dak. (124) | 14 | Apr. 11 | Aug. 29 | 18.2 | Apr. 19 | 18.13 | Apr. 19, 1952 | | |
| Ashton, S. Dak. (125) | 13 | Apr. 7 | May 27 | 21.2 | Apr. 13 | 19.59 | Apr. 23, 24, 1952 | 19.14 | May 19, 1950 |
| | | | | 20.6 | Apr. 24 | | | | |
| Redfield, S. Dak. (126) | 20 | Apr. 6 | May 5 | 24.9 | Apr. 13 | 22.12 | Apr. 11, 1952 | | |
| | | | | 22.4 | Apr. 24 | | | | |
| Huron, S. Dak. (127) | 11 | Apr. 5 | May 20 | 16.70 | Apr. 13 | H19.8 | Apr. 11, 13, 1881 | 16.5 | Mar. 22, 1922 |
| | | | | 15.2 | Apr. 25 | | | | |
| Forestburg, S. Dak. (128) | 12 | Apr. 4 | May 25 | 17.2 | Apr. 9 | 18.2 | Mar. 1922 | 18 | Mar. 1920 |
| Mitchell, S. Dak. (129) | 14 | | | 18.3 | Apr. 11 | 12.98 | Mar. 23, 1966 | | |
| Scotland (nr), S. Dak. (130)13 | | Apr. 2 | May 31 | 18.55 | Apr. 13 | 18.74 | Apr. 3, 1962 | 16.23 | Apr. 23, 1952 |

TABLE 1.—Flood stage and comparative crest stage data: Red River of the North, Upper Mississippi, and Missouri Basins—Continued

| River and station Map Index No. in () | Flood stage Ft. | Above flood stages dates March-May 1969 | | | | *Crest March-May 1969 | | Previous maximum crest of record | | Previous second highest crest of record | |
|--|--------------------|---|------------------------------|-----------------------|------------------------------|--------------------------|---------------------|--|---------------|---|--|
| | | Month and year | | Month and year | | Month and year | | Month and year | | | |
| | | From- | To- | Stage | Date | Stage | Date | Stage | Date | | |
| Missouri Basin (cont'd) | | | | | | | | | | | |
| Vermillion: Wakonda (nr), S. Dak. (131) | 14 | Apr. 3 | Apr. 15 | 17.17 | Apr. 6 | 16.94 | Apr. 1, 1960 | 16.63 | June 13, 1947 | | |
| Skunk Creek: Sioux Falls, S. Dak. (132) | 10 | Apr. 4 | Apr. 8 | 10.5 13.2 | Apr. 5 Apr. 6 | 17.78 | June 17, 1957 | 12.16 | Mar. 29, 1952 | | |
| Little Rock: Doon (nr), Iowa (133) | 15 | Apr. 3 | Apr. 9 | 19.7 | Apr. 5 | 18.0 | Mar. 29, 1960 | | | | |
| Rock: Rock Rapids, Iowa (134) | 9 | Apr. 5 | Apr. 10 | 17.5 | Apr. 8 | 14.5 | Mar. 29, 1962 | | | | |
| Rock Valley, Iowa (135) | 11 | Apr. 3 | Apr. 12 | 17.3 | Apr. 7 | p17.0 | 1897 | 16.91 | Mar. 30, 1962 | | |
| Big Sioux: Flandreau, S. Dak. (136) | 6 | Apr. 6 | Apr. 15 | 12.0 | Apr. 9 | 9.2 | June 17, 1957 | 8.3 | Apr. 3, 1951 | | |
| Del Rapids, S. Dak. (137) | 12 | Apr. 6 | Apr. 18 | 16.5 | Apr. 9 | 15.14 | Mar. 30, 1962 | 14.93 | June 18, 1957 | | |
| Sioux Falls, S. Dak. (138) | 10 | Apr. 6 | Apr. 13 | 14.2 | Apr. 10 | | | | | | |
| Hawarden, Iowa (139) | 15 | Apr. 4 | Apr. 20 | 24.6 | Apr. 9 | 23.2 | Mar. 30, 1962 | 22.3 | Apr. 1, 1960 | | |
| Akron, Iowa (140) | 16 | Apr. 4 | Apr. 21 | 22.99 | Apr. 9 | 22.08 | Mar. 31, 1962 | 21.56 | Apr. 1, 1960 | | |
| Sioux City, Iowa (141) | 99 | Apr. 8 | Apr. 17 | 110.7 | Apr. 10 | 110.90 | Apr. 3, 1960 | 109.15 | Apr. 2, 1962 | | |
| West Branch Floyd: Struble, Iowa (142) | 14 | Apr. 1 | Apr. 7 | 15.4 | Apr. 4 | 15.63 | Mar. 28, 1962 | | | | |
| Floyd: Alton, Iowa (143) | 12 | Apr. 1 | Apr. 9 | 17.8 | Apr. 4 | 18.35 | Mar. 28, 1962 | 17.36 | Apr. 1, 1965 | | |
| LeMars, Iowa (144) | 20 | Apr. 3 | Apr. 8 | 23.9 | Apr. 4 | p26.4 | June 8, 1953 | 22.8 | Mar. 29, 1960 | | |
| Merrill, Iowa (145) | 12 | Apr. 3 | Apr. 8 | 16.6 | Apr. 5 | 18.4 | June 7, 1934 | 18.0 | June 8, 1953 | | |
| James, Iowa (146) | 16 | Apr. 2 | Apr. 9 | 21.6 | Apr. 5 | 25.3 | June 8, 1953 | 22.4 | Mar. 29, 1962 | | |
| West Fork Little Sioux: Holly Springs, Iowa (147) | 18 | Apr. 5 | Apr. 5 | 18.7 | Apr. 5 | 25.2 | Mar. 30, 1960 | 22.46 | Mar. 28, 1962 | | |
| Little Sioux: Spencer, Iowa (148) | 10 | Apr. 3 | Apr. 21 | 16.2 | Apr. 7 | 20.05 | June 8, 1953 | 17.2 | Apr. 6, 1965 | | |
| Gillett Grove, Iowa (149) | 12 | Apr. 4 | Apr. 19 | 17.8 | Apr. 8 | 18.67 | Apr. 7, 1965 | 17.87 | June 9, 1953 | | |
| Linn Grove, Iowa (150) | 12 | Mar. 29 | Apr. 24 | 21.1 | Apr. 9 | 22.35 | Apr. 6, 1965 | 20.9 | June 10, 1953 | | |
| Peterson, Iowa (151) | 15 | Apr. 4 | Apr. 17 | 21.0 | Apr. 9 | 22.0 | Apr. 6, 1965 | 20.90 | June 10, 1953 | | |
| Cherokee, Iowa (152) | 17 | Apr. 3 | Apr. 16 | 23.8 | Apr. 7 | 27.2 | Apr. 6, 1965 | p25.7 | June 1891 | | |
| Correctionville, Iowa (153) | 19 | Apr. 4 | Apr. 16 | 23.6 | Apr. 8 | p29.34 | June 23 or 24, 1891 | 25.86 | Apr. 7, 1965 | | |
| Wood: Gibbon, Nebr. (154) | 15 | Mar. 19 | Mar. 20 | 15.8 | Mar. 20 | 16.79 | June 15, 1967 | 16.23 | July 1, 1965 | | |
| Alda, Nebr. (155) | 10 | Mar. 19 | Mar. 22 | 11.6 | Mar. 21 | 12.22 | June 16, 1967 | 11.06 | July 3, 1965 | | |
| Grand Island, Nebr. (156) | 4.8 | Mar. 20 | Mar. 23 | 5.25 | Mar. 22 | 5.8 | June 17, 1967 | 5.2 | June 27, 1968 | | |
| Loup: Columbus, Nebr. (157) | 11 | Mar. 19 | Mar. 20 | 13.45 | Mar. 20 | 14.42 | Aug. 14, 1966 | p12.0 | June 23, 1947 | | |
| North Branch Elkhorn: Osmond (nr), Nebr. (158) | 10 | Apr. 2 | Apr. 2 | 10.7 | Apr. 2 | | | | | | |
| Pierce (nr), Nebr. (159) | 12 | Apr. 2 | Apr. 4 | 13.8 | Apr. 2 | 15.15 | Mar. 28, 1962 | p14.79 | May 11, 1944 | | |
| Hadar (nr), Nebr. (160) | 12 | Apr. 2 | Apr. 4 | 14.0 | Apr. 3 | | | | | | |
| Salt Creek: Roca, Nebr. (161) | 15 | Apr. 4 | Apr. 4 | 19.0 | Apr. 4 | p26.0 | May 8, 1950 | 22.70 | July 10, 1958 | | |
| Nishnabotna: Hamburg, Iowa (162) | 18 | Feb. 25 Mar. 17 Mar. 25 | Mar. 4 Mar. 21 Mar. 26 | 21.5 25.25 19.3 | Mar. 2 Mar. 18 Mar. 25 | 27.3 | Mar. 7, 1949 | 25.8 | Mar. 2, 1965 | | |
| Little Platte: Smithville, Mo. (163) | 24 | Apr. 4 Apr. 27 | Apr. 5 Apr. 28 | 24.1 26.4 | Apr. 5 Apr. 27 | 44.8 | July 20, 1965 | 37.4 | 1947 | | |
| Platte: Agency, Mo. (164) | 20 | Apr. 27 | Apr. 29 | 22.7 | Apr. 28 | 35.0 | July 20, 1965 | 30.46 | June 23, 1947 | | |
| Lyon Creek: Woodbine (nr), Kans. (165) | 17 | Apr. 27 | Apr. 27 | 22.7 | Apr. 27 | p34.8 | July 1951 | 31.44 | Oct. 7, 1967 | | |
| Buffalo Creek: Jamestown, Kans. (166) | 16 | Feb. 26 | Mar. 1 | 17.6 | Feb. 28 | 19.31 | Sept. 12, 1961 | p18.5 | 1948 | | |
| Lincoln Creek: Seward (nr), Nebr. (167) | 15 | Mar. 18 | Mar. 22 | 18.0 | Mar. 21 | 20.53 | June 17, 1957 | 19.55 | June 15, 1967 | | |
| West Fork Big Blue: Dorchester (nr), Nebr. (168) | 15 | Mar. 19 Apr. 4 | Mar. 23 Apr. 5 | 20.5 19.0 | Mar. 20 Apr. 4 | p24.8 | July 10, 1950 | 20.28 | Mar. 30, 1960 | | |
| Turkey Creek: Wilber (nr), Nebr. (169) | 11 | Mar. 18 Apr. 4 Apr. 17 | Mar. 23 Apr. 5 Apr. 20 | 14.0 13.5 13.7 | Mar. 20 Apr. 4 Apr. 18 | p15.5 | June 1957 | 14.92 | Mar. 28, 1960 | | |

TABLE 1.—Flood stage and comparative crest stage data: Red River of the North, Upper Mississippi, and Missouri Basins—Continued

| River and station Map Index No. in () | Flood stage Ft. | Month and year | | | | Month and year | | Month and year | |
|---|--------------------|--|---------|-------------------------|------------|-------------------------------------|----------------|--|-----------------|
| | | Above Flood stages dates March-May 1969 | | Crest March-May 1969 | | Previous maximum crest of record | | Previous second highest crest of record | |
| | | From- | To- | Stage | Date | Stage | Date | Stage | Date |
| Missouri Basin (cont'd) | | | | | | | | | |
| Black Vermillion: Frankfort, Kans. (170) | 19 | Apr. 27 | Apr. 27 | 25.85 | Apr. 27 | p30.2 | Aug. 3, 1948 | 29.40 | May 30, 1965 |
| Little Blue: Deweese, Nebr. (171) | 8 | Mar. 18 | Mar. 20 | 11.9 | Mar. 19 | 14.6 | May 22, 1965 | 13.3 | June 17, 1957 |
| Fairbury, Nebr. (172) | 10 | Mar. 18 | Mar. 21 | 11.1 | Mar. 18,19 | 16.41 | Sept. 6, 1958 | | |
| Big Blue: Surprise, Nebr.(173) | | | | 8.9 | Mar. 20 | 11.5 | July 19, 1965 | | |
| Ulysses, Nebr. (174) | 15 | Mar. 18 | Mar. 21 | 19.4 | Mar. 20 | 23.5 | June 17, 1957 | 21.1 | June 16, 1967 |
| Seward, Nebr.(175) | 18 | Mar. 20 | Mar. 22 | #18.6 | Mar. 20 | 22.83 | June 16, 1967 | 22.34 | June 18, 1957 |
| Crete, Nebr. (176) | 18 | Mar. 18 | Mar. 26 | 27.35 | Mar. 21 | 29.80 | June 16, 1967 | 28.74 | July 10, 1950 |
| | | Apr. 4 | Apr. 7 | 24.25 | Apr. 5 | | | | |
| Beatrice, Nebr.(177) | 16 | Mar. 20 | Mar. 26 | 23.15 | Mar. 23 | 28.30 | June 4, 1951 | 27.7 | June 23, 1947 |
| | | Apr. 5 | Apr. 7 | 19.25 | Apr. 6 | | | | |
| Barneston, Nebr. (178) | 18 | Mar. 21 | Mar. 25 | 22.55 | Mar. 24 | 34.3 | June 9, 1941 | 29.76 | June 23, 1947 |
| | | Apr. 6 | Apr. 6 | 18.0 | Apr. 6 | | | | |
| Blue Rapids, Kans. (179) | 1101 | Feb. 26 | Mar. 2 | 1105.7 | Feb. 27 | | | | |
| | | Mar. 22 | Mar. 25 | 1102.3 | Mar. 22 | | | | |
| Mill Creek: Paxico, Kans. (180) | 19 | Apr. 26 | Apr. 27 | 29.8 | Apr. 27 | p34.7 | July 12, 1951 | 27.64 | June 21, 1967 |
| Soldier Creek: Dellia (nr), Kans. (181) | 12 | Apr. 27 | Apr. 27 | 21.2 | Apr. 27 | p24 | June 21, 1951 | 21.45 | June 12, 1967 |
| Topeka (nr), Kans. (182) | 12 | Apr. 27 | Apr. 27 | 14.15 | Apr. 27 | 20.11 | June 12, 1967 | 19.9 | June 12, 1967 |
| Wakarusa: Lawrence (nr), Kans.(183) | 23 | Apr. 28 | Apr. 29 | 28.3 | Apr. 28 | 31.59 | July 12, 1951 | 30.86 | June 21,22,1967 |
| Stranger Creek: Easton, Kans. (184) | 15 | Apr. 27 | Apr. 28 | 20.6 | Apr. 27 | | | | |
| Tonganoxie (nr), Kans. (185) | 22 | Apr. 27 | Apr. 29 | 23.9 | Apr. 27 | 28.72 | Oct. 13, 1961 | 28.54 | Aug. 1, 1958 |
| Grand: Pattonsburg, Mo. (186) | 25 | Apr. 27 | Apr. 27 | 26.95 | Apr. 27 | p34.25 | June 1947 | 31.0 | July 7, 1951 |
| Gallatin, Mo. (187) | 21 | Apr. 27 | Apr. 28 | 21.65 | Apr. 28 | p40 | July 8, 1909 | 37.7 | June 2, 1929 |
| Chillicothe, Mo.(188) | 24 | Apr. 28 | Apr. 29 | 28.7 | Apr. 28 | 33.8 | June 7, 1947 | p33.6 | July 1909 |
| Sumner, Mo. (189) | 26 | Apr. 17 | Apr. 20 | 30.3 | Apr. 19 | 39.5 | June 7,8,1947 | 37.80 | June 16, 1967 |
| Lamine: Clifton City, Mo. (190) | 19 | Apr. 5 | Apr. 6 | 23.2 | Apr. 5 | H35.3 | Sept. 18, 1905 | 32.5 | June 29, 1951 |
| Blackwater: Valley City, Mo. (191) | 20 | Mar. 23 | Mar. 26 | 27.5 | Mar. 24 | 31.75 | Sept. 14, 1961 | 31.4 | July 20, 1965 |
| | | Apr. 4 | Apr. 6 | 27.0 | Apr. 5 | | | | |
| | | Apr. 17 | Apr. 19 | 26.0 | Apr. 18 | | | | |
| | | Apr. 27 | Apr. 27 | 22.1 | Apr. 27 | | | | |
| Blue Lick, Mo.(192) | 25 | Apr. 7 | Apr. 9 | 26.75 | Apr. 8 | H41.25 | Nov. 18, 1928 | 37.5 | July 23, 1965 |
| | | Apr. 18 | Apr. 22 | 27.25 | Apr. 21 | | | | |
| Dragoon Creek: Burlingame, Kans. (193) | 15 | Apr. 15 | Apr. 15 | 20.7 | Apr. 27 | p23.4 | June 26, 1946 | 20.67 | July 13, 1963 |
| Pottawatomie Creek: Lane, Kans. (194) | 23 | Apr. 28 | Apr. 28 | 23.4 | Apr. 28 | 33.9 | Sept. 14, 1961 | p32.8 | Nov. 17, 1928 |
| Little Osage: Horton, Mo. (195) | 23 | Apr. 5 | Apr. 7 | 24.0 | Apr. 6 | | | | |
| | | Apr. 17 | Apr. 20 | 24.3 | Apr. 18 | | | | |
| | | Apr. 28 | Apr. 28 | 23.2 | Apr. 28 | | | | |
| Big Creek: Blairstown, Mo. (196) | 20 | Apr. 5 | Apr. 5 | 21.15 | Apr. 5 | 25.40 | Sept. 14, 1961 | | |
| | | Apr. 18 | Apr. 19 | 22.3 | Apr. 18 | | | | |
| | | Apr. 27 | Apr. 27 | 21.5 | Apr. 27 | | | | |
| South Grand: Urich, Mo. (197) | 22 | Apr. 18 | Apr. 18 | 23.75 | Apr. 18 | 26.84 | Sept. 15, 1961 | | |
| Brownington, Mo. (198) | 19 | Apr. 21 | Apr. 21 | 19.5 | Apr. 21 | H39.9 | Nov. 19, 1928 | 35.0 | May 9, 1961 |
| Marais des Cygnes: Reading (nr), Kans. (199) | 18 | Apr. 17 | Apr. 17 | 19.25 | Apr. 17 | 26.8 | Oct. 7, 1967 | 25.65 | June 21, 1967 |
| | | Apr. 27 | Apr. 28 | 26.4 | Apr. 27 | | | | |
| Melvern, Kans. (200) | 23 | Apr. 27 | Apr. 28 | 26.4 | Apr. 28 | H30.8 | July 11, 1951 | 27.4 | Sept. 5, 1951 |
| Osage: Schell City, Mo. (201) | 25 | Mar. 26 | Mar. 30 | 28.3 | Mar. 28 | 45.1 | June 17, 1951 | 42.0 | May 22, 1943 |
| | | Apr. 7 | Apr. 8 | 25.95 | Apr. 7 | | | | |
| | | Apr. 19 | Apr. 23 | 27.4 | Apr. 20 | | | | |
| | | Apr. 29 | May 2 | 27.55 | Apr. 30 | | | | |
| Missouri: Nebraska City, Nebr. (202) | 18 | Apr. 13 | Apr. 14 | 18.36 | Apr. 13 | 27.66 | Apr. 18, 1952 | J25.8 | Mar. 6, 1949 |
| St. Joseph, Mo. (203) | 17 | Apr. 13 | Apr. 19 | 17.6 | Apr. 17 | 27.2 | Apr. 29, 1881 | 26.82 | Apr. 22,23,1952 |
| | | Apr. 27 | Apr. 27 | 18.25 | Apr. 27 | | | | |

TABLE 1.—Flood stage and comparative crest stage data: Red River of the North, Upper Mississippi, and Missouri Basins—Continued

| River and station Map Index No. in () | Flood stage | Month and year | | | | Month and year | | Month and year | |
|---|-------------|--|---------|-------------------------|---------|-------------------------------------|---------------|--|---------------|
| | | Above flood stages dates March-May 1969 | | Crest March-May 1969 | | Previous maximum crest of record | | Previous second highest crest of record | |
| | | From- | To- | Stage | Date | Stage | Date | Stage | Date |
| <u>Missouri Basin</u> (cont'd) | | | | | | | | | |
| Missouri (cont'd): | | | | | | | | | |
| Leavenworth, Kans. (204) | 19 | Apr. 27 | Apr. 27 | 19.8 | Apr. 27 | 27.6 | Apr. 23, 1952 | 24.4 | July 21, 1965 |
| Napoleon, Mo. (205) | 17 | Apr. 28 | Apr. 28 | 19.1 | Apr. 28 | 34.1 | June 1844 | 28.6 | July 15, 1951 |
| Lexington, Mo. (206) | 22 | Apr. 5 | Apr. 6 | 22.3 | Apr. 5 | p33.9 | June 1844 | 33.3 | July 15, 1951 |
| | | Apr. 17 | Apr. 19 | 23.5 | Apr. 18 | | | | |
| | | Apr. 27 | Apr. 29 | 26.0 | Apr. 28 | | | | |
| Waverly, Mo. (207) | 18 | Apr. 17 | Apr. 21 | 19.94 | Apr. 19 | 28.2 | July 14, 1951 | 28.1 | Apr. 24, 1952 |
| | | Apr. 27 | Apr. 30 | 22.5 | Apr. 28 | | | | |
| Glasgow, Mo. (208) | 25 | Apr. 19 | Apr. 19 | 25.23 | Apr. 19 | 36.7 | July 18, 1951 | | |
| | | Apr. 28 | Apr. 29 | 26.10 | Apr. 29 | | | | |
| Boonville, Mo. (209) | 21 | Apr. 18 | Apr. 20 | 23.2 | Apr. 19 | 32.82 | July 17, 1951 | p32.7 | June 21, 1844 |
| | | Apr. 28 | Apr. 30 | 22.59 | Apr. 29 | | | | |
| Jefferson City, Mo. (210) | 23 | Apr. 19 | Apr. 20 | 23.2 | Apr. 19 | p38.1 | June 1844 | 34.2 | July 18, 1951 |
| Hermann, Mo. (211) | 21 | Apr. 6 | Apr. 9 | 23.4 | Apr. 7 | p35.5 | June 1844 | 33.05 | July 19, 1951 |
| | | Apr. 19 | Apr. 22 | 25.75 | Apr. 19 | | | | |
| | | Apr. 29 | May 2 | 25.0 | Apr. 30 | | | | |
| St. Charles, Mo. (212) | 25 | Apr. 7 | Apr. 9 | 26.1 | Apr. 8 | p40.1 | June 27, 1844 | 37.3 | July 20, 1951 |
| | | Apr. 19 | Apr. 23 | 27.9 | Apr. 20 | | | | |
| | | Apr. 30 | May 2 | 27.6 | Apr. 30 | | | | |

* Stage adjusted to present site and datum
 # Highest stage reported
 — Exceeded previous maximum crest of record
 b Bankfull stage
 H High water mark
 J Ice jam
 p Prior to gage readings

TABLE 2.—Major floods in order of magnitude: Red River of the North, Upper Mississippi, and Missouri Basins

Red River of the North Basin

| Sheyenne River | | Red Lake River | |
|---|----------------|--|-------------|
| West Fargo, N. Dak. Zero of gage - 877.19 feet Drainage area - 8,870 square miles (5) Flood stage - 16 feet Period of record - 1929-1969 | | High Landing, Near Goodridge, Minn. Zero of gage - 1,141.57 (1912 adj.) Drainage area - 2,300 square miles Flood stage - 9 feet Period of record - 1930-1969 | |
| <u>Crest Stage</u> <u>Feet</u> | <u>Date</u> | <u>Crest Stage</u> <u>Feet</u> | <u>Date</u> |
| 21.7 | Apr.17,1969 | 13.4 | May 11,1950 |
| 21.0 | Mar.22-23,1966 | 12.4 | Apr.3,1966 |
| 20.75 | Apr.19,1965 | 12.1 | Apr.12,1965 |
| 20.6 | May 11, 1950 | 10.5 | Apr.10,1969 |
| 20.5 | Apr.18,1947 | 10.1 | Mar.18,1966 |
| 20.5 (7) | Apr.9-10,1952 | 9.2 | Apr.11,1944 |
| 20.4 | Apr.3,1966 | 9.2 | Apr.20,1948 |
| 19.35 | Apr.1,1943 | 8.4 | Apr.16,1947 |
| 18.8 | June 20,1953 | | |
| 18.5 | May 7,1948 | | |
| Red Lake River (cont'd) | | Red River of the North | |
| Crookston, Minn. Zero of gage - 832.72 feet Drainage area - 5,280 square miles Flood stage - 15 feet Period of record - 1901-1969 | | Wahpeton, N. Dak. Zero of gage - 942.97 feet (1929 adj.) Drainage area - 4,010 square miles Flood stage - 10 feet Period of record - 1943-1969 | |
| <u>Crest Stage</u> <u>Feet</u> | <u>Date</u> | <u>Crest Stage</u> <u>Feet</u> | <u>Date</u> |
| 27.3 | Apr.12,1969 | 17.0 (1)(2) | Apr.1897 |
| 25.8 | Apr.12,1965 | 16.3 | Apr.10,1969 |
| 25.7 | May 7,1950 | 15.0 | Apr.12,1952 |
| 25.2 | Apr.11,1897 | 14.8 (1) | Apr.1916 |
| 24.3 | Apr.3,1966 | 14.8 (1) | Apr.2,1943 |
| 23.3 | Mar.25,1920 | 14.3 | Apr.11,1965 |
| 21.8 | Apr.17,1916 | 14.0 | Apr.7,1951 |
| 21.1 | July 5,1919 | 13.9 | Mar.16,1966 |
| 23.3 | Mar.25,1920 | 12.1 | June 6,1944 |
| 20.3 | Apr.24,1904 | 11.9 | Apr.12,1947 |
| 18.1 | June 12,1947 | 11.6 | Apr.2,1950 |
| 18.1 | Apr.8,1948 | 11.5 | May 10,1950 |
| Red River of the North (cont'd) | | Halstad, Minn. | |
| Fargo, N. Dak. Zero of gage - 861.80 feet (1929 adj.) Drainage area - 6,800 square miles Flood stage - 17 feet Period of record - 1901-1969 | | Zero of gage - 826.65 feet Drainage area - 21,800 square miles (5) Flood stage - 24 feet Period of record - 1936-1937; 1942-1960; 1961-1969 | |
| <u>Crest Stage</u> <u>Feet</u> | <u>Date</u> | <u>Crest Stage</u> <u>Feet</u> | <u>Date</u> |
| 40.1 (1) | Apr.7,1897 | 38.5 (2) | Apr. 1897 |
| 37.8 (1) | Apr.11,1882 | 38.3 | Apr.18,1969 |
| 37.3 | Apr.15,1969 | 35.35 | Mar.27,1966 |
| 34.65 | Apr.16,1952 | 35.2 | Apr.17,1965 |
| 34.3 | Apr.7,1943 | 34.0 | Apr.17,1947 |
| 31.2 | Apr.6,1916 | 29.8 | Apr.18,1952 |
| 30.5 | Apr.16,1965 | | |
| 30.1 | Mar.23,1966 | | |
| 29.8 | Mar.30-31,1907 | | |
| 28.9 | Apr.15,1947 | | |
| 28.6 | July 12,1916 | | |
| 27.8 | Apr.12,1951 | | |
| 27.2 | Apr.8,1950 | | |

TABLE 2.—Major floods in order of magnitude: Red River of the North, Upper Mississippi, and Missouri Basins—Continued

Red River of the North Basin (cont'd)

Red River of the North

Grand Forks, N. Dak.

Zero of gage - 778.35 feet (1929 adj.)
 Drainage area - 30,100 square miles (5)
 Flood stage - 28 feet
 Period of record - 1882-1969

| <u>Crest Stage</u> <u>Feet</u> | <u>Date</u> |
|-----------------------------------|-------------|
| 50.2 (3) | Apr.10,1897 |
| 49.5 | Apr.21,1882 |
| 45.7 | Apr.16,1969 |
| 45.6 | Apr.4,1966 |
| 45.6 | May 12,1950 |
| 45.5 | Apr.24,1893 |
| 44.9 | Apr.17,1965 |
| 41.7 | Apr.16,1948 |
| 41.0 | Apr.17,1916 |
| 41.0 | Mar.29,1920 |
| 40.7 | Apr.22,1947 |
| 40.6 | Apr.27,1904 |
| 40.6 | Apr.28,1883 |

Drayton, N. Dak.

Zero of gage - 755.00 feet (1929 adj.)
 Drainage area - 34,800 square miles (5)
 Flood stage - 32 feet
 Period of record - 1936-1937; 1941-1969

| <u>Crest Stage</u> <u>Feet</u> | <u>Date</u> |
|-----------------------------------|----------------|
| 42.15 | Apr.8,1966 |
| 41.35 | Apr.23,1969 |
| 40.4 | Apr.22,1965 |
| 40.0 (6) | May 12,1950 |
| 39.4 (6) | Apr. 1897 |
| 39.3 (6) | Apr.26,1950 |
| 38.5 (6) | Apr.22,1948 |
| 32.1 (6) | Apr.17-19,1943 |
| 31.5 (6) | Apr.28,1947 |
| 28.8 (6) | Apr.26,1952 |

Pembina, N. Dak.

Zero of gage - 739.45 feet (1929 adj.)
 Drainage area - 40,000 square miles
 Flood stage - 42 feet
 Period of record - 1912-1969

| <u>Crest Stage</u> <u>Feet</u> | <u>Date</u> |
|-----------------------------------|----------------|
| 52.9 | May 14,1950 |
| 51.7 | May 1,1950 |
| 51.3 | Apr.11-12,1966 |
| 49.7 | Apr. 26,1969 |
| 48.5 (4) | Apr.27,1948 |
| 47.4 | Apr.25,1965 |

Upper Mississippi Basin

Minnesota River

Mankato, Minn.

Zero of gage - 747.925 feet (1929 adj.)
 Drainage area - 14,900 square miles
 Flood stage - 19 feet
 Period of record - 1903-1969

| <u>Crest Stage</u> <u>Feet</u> | <u>Date</u> |
|-----------------------------------|--------------|
| 29.9 (2) | Apr.26,1881 |
| 29.1 | Apr.10,1965 |
| 27.1 | Apr.12,1969 |
| 26.7 (2) | Mar.26,1897 |
| 26.2 | Apr.9,1951 |
| 25.7 | June 26,1908 |
| 24.8 | Apr.14,1952 |
| 24.1 | May 29,1903 |
| 23.4 | June 21,1919 |
| 22.6 | June 24,1957 |

Iowa River

Marshalltown, Iowa

Zero of gage - 853.10 feet (1929 adj.)
 Drainage area - 1,564 square miles
 Flood stage - 13 feet
 Period of record - 1915-1928; 1933-1969

| <u>Crest Stage</u> <u>Feet</u> | <u>Date</u> |
|-----------------------------------|--------------|
| 17.7 (1) | June 4,1918 |
| 17.7 | Mar.20,1969 |
| 17.6 | Apr.6,1965 |
| 17.5 | Mar.31,1960 |
| 16.8 | June 13,1947 |
| 16.7 | Feb.21,1953 |
| 16.2 | July 15,1962 |
| 16.1 | Mar.29,1951 |
| 16.1 | Aug.28,1954 |
| 16.1 | Feb.26,1951 |
| 16.0 | June 16,1954 |

TABLE 2.—Major floods in order of magnitude: Red River of the North, Upper Mississippi, and Missouri Basins—Continued

Upper Mississippi Basin (cont'd)

West Fork Des Moines River

Humboldt, Iowa
 Zero of gage - 1,053.54 feet (1929 adj.)
 Drainage area - 1,372 square miles
 Flood stage - 8 feet
 Period of record - 1940-1969

| <u>Crest Stage</u> | <u>Date</u> |
|--------------------|--------------|
| <u>Feet</u> | |
| 15.4 | Apr.14,1969 |
| 13.9 | Apr.8,1965 |
| 12.2 | June 23,1947 |
| 11.5 | Mar.28,1961 |
| 11.25 | June 22,1954 |
| 11.0 | Apr.1,1962 |
| 10.4 | May 20,1944 |
| 9.3 | July 31,1964 |
| 8.9 | Sept.2,1962 |
| 8.4 | Apr.1,1960 |

Des Moines River

Des Moines, Iowa (SE 14th St)
 Zero of gage - 762.52 feet (1929 adj.)
 Drainage area - 9,879 square miles
 Flood stage - 21 feet
 Period of record - 1940-1969

| <u>Crest Stage</u> | <u>Date</u> |
|--------------------|--------------|
| <u>Feet</u> | |
| 30.5 | May 31,1903 |
| 29.8 | Apr.11,1965 |
| 29.5 | June 26,1947 |
| 29.4 | June 24,1954 |
| 28.9 | Apr.2,1960 |
| 28.0 | Mar.31,1951 |
| 27.4 | Apr.3,1962 |
| 26.3 | Mar.27,1969 |
| 25.7 | June 13,1947 |
| 25.7 | June 13,1967 |

Mississippi River

St. Paul, Minn.

Zero of gage - 683.68 feet (1929 adj.)
 Drainage area - 36,780 square miles
 Flood stage - 14 feet
 Period of record - 1866-1969

| <u>Crest Stage</u> | <u>Date</u> |
|--------------------|------------------|
| <u>Feet</u> | |
| 26.0 | Apr.16,1965 |
| 24.5 | Apr.15,1969 |
| 22.0 | Apr.16,1952 |
| 19.7 | Apr.29,1881 |
| 18.8 | Apr.16,1951 |
| 18.6 (2) | July 23,1867 |
| 18.0 (2) | Apr.16,1875 |
| 18.0 | Apr.6,1897 |
| 16.8 | June 29,1908 |
| 16.7 | June 29,1957 |
| 16.6 | Apr.6 and 9,1916 |
| 16.4 | Apr.21,1873 |

La Crosse, Wis.

Zero of gage - 625.83 feet (1929 adj.)
 Drainage area - 62,840 square miles
 Flood stage - 12 feet
 Period of record - 1873-1969

| <u>Crest Stage</u> | <u>Date</u> |
|--------------------|--------------|
| <u>Feet</u> | |
| 17.9 | Apr.21,1965 |
| 16.5 (1) | June 19,1880 |
| 15.7 | Apr.20,1969 |
| 15.3 | Apr.20,1952 |
| 14.9 | Apr.19,1951 |
| 14.6 | Apr.6,1967 |
| 14.5 | May 8-9,1888 |
| 14.4 | Oct.17,1881 |
| 14.3 | May 7,1954 |
| 14.2 | Apr.2,1920 |
| 13.7 | Apr.17,1922 |
| 13.7 | Apr.10,1897 |

Davenport, Iowa:

Zero of gage - 542.00 feet (1929 adj.)
 Drainage area - 88,449 square miles
 Flood stage - 15 feet
 Period of record - 1860-1969

| <u>Crest Stage</u> | <u>Date</u> |
|--------------------|----------------|
| <u>Feet</u> | |
| 22.5 | Apr.28,1965 |
| 20.9 | Mar.10,1868 |
| 19.4 | June 27,1892 |
| 19.3 | Apr.27,1969 |
| 18.6 | Apr.28,1952 |
| 18.6 | May 15-16,1888 |
| 18.4 | June 26,1880 |
| 18.3 | Apr.28-29,1951 |
| 17.7 | Oct.25-27,1881 |
| 17.45 | Apr.15,1967 |
| 17.1 | Apr.23,1922 |
| 17.1 | Apr.9,1920 |

Keokuk, Iowa:

Zero of gage - 477.41 feet (1929 adj.)
 Drainage area - 119,000 square miles
 Flood stage - 16 feet
 Period of record - 1868-1969

| <u>Crest Stage</u> | <u>Date</u> |
|--------------------|--------------------|
| <u>Feet</u> | |
| 22.1 | May 1,1965 |
| 21.8 | Apr.3,1960 |
| 21.0 (1) | June 6,1851 |
| 20.85 | May 27,1944 |
| 20.25 | May 12,1951 |
| 20.2 | June 8 and 20,1947 |
| 19.65 | May 16-17,1888 |
| 19.6 | June 5,1903 |
| 19.3 | Mar.23,1929 |
| 19.25 | June 30,1892 |
| 17.85 | Apr.27,1969 |

TABLE 2.—Major floods in order of magnitude: Red River of the North, Upper Mississippi, and Missouri Basins—Continued

Missouri Basin

James River

Huron, S. Dak.
 Zero of gage - 1,223.44 feet (1929 adj.)
 Drainage area - 16,800 square miles
 Flood stage - 11 feet
 Period of record - 1928-1932; 1943-1969

| <u>Crest Stage</u> | <u>Date</u> |
|--------------------|-------------------|
| Feet | |
| 19.8 (1) | Apr. 11, 13, 1881 |
| 16.7 | Apr. 13, 1969 |
| 16.5 | Mar. 22, 1922 |
| 15.8 | Apr. 1, 2, 1962 |
| 15.5 | Mar. 27, 1920 |
| 15.4 | Apr. 6, 1960 |
| 15.25 | Apr. 15, 1952 |
| 15.2 | Apr. 25, 1969 |
| 14.4 | Mar. 27, 1948 |
| 14.2 | May 25, 1950 |
| 13.9 | Mar. 31, 1943 |

Little Sioux River

Cherokee, Iowa
 Zero of gage - 1,150.0 feet
 Drainage area - 2,182 square miles
 Flood stage - 17 feet
 Period of record - 1891-1969

| <u>Crest Stage</u> | <u>Date</u> |
|--------------------|---------------|
| Feet | |
| 27.2 | Apr. 6, 1965 |
| 25.7 | June 1891 |
| 23.8 | Apr. 7, 1969 |
| 22.7 | June 11, 1953 |
| 22.0 | June 20, 1954 |
| 22.2 | Apr. 6, 1951 |
| 21.6 | Apr. 29, 1947 |
| 21.2 | Mar. 12, 1945 |
| 19.0 | July 5, 1943 |
| 18.6 | June 13, 1944 |

Big Sioux River

Akron, Iowa
 Zero of gage - 1,118.90 feet
 Drainage area - 9,030 square miles
 Flood stage - 16 feet
 Period of record - 1926-1969

| <u>Crest Stage</u> | <u>Date</u> |
|--------------------|---------------|
| Feet | |
| 23.0 | Apr. 9, 1969 |
| 22.1 | Mar. 31, 1962 |
| 21.6 | Apr. 1, 1960 |
| 20.85 | Apr. 8, 1965 |
| 20.0 | June 22, 1954 |
| 19.8 | June 21, 1957 |
| 19.8 | Apr. 1, 1952 |
| 19.7 | Apr. 6, 1951 |
| 19.3 | June 8, 1953 |
| 19.2 | June 4, 1942 |
| 18.6 | Mar. 12, 1936 |
| 18.6 | Mar. 15, 1969 |

West Fork Big Blue River

Dorchester (nr), Nebr.
 Zero of gage - 1,403.48 feet (1929 adj.)
 Drainage area - 1,200 square miles
 Flood stage - 15 feet
 Period of record - 1958-1969

| <u>Crest Stage</u> | <u>Date</u> |
|--------------------|---------------|
| Feet | |
| 24.8 (1) | July 10, 1950 |
| 20.5 | Mar. 20, 1969 |
| 20.3 | Mar. 30, 1960 |
| 19.0 | Apr. 4, 1969 |
| 18.3 | June 16, 1967 |
| 16.4 | June 8, 1965 |
| 15.05 | May 25, 1965 |
| 14.7 | July 7, 1959 |
| 14.1 | May 24, 1959 |
| 13.8 | June 21, 1960 |

- (1) From high water mark
- (2) Prior to gage records
- (3) Legendary Flood of 1852 probably was higher by 3/10 foot or more
- (4) Estimated from data for Emerson, Manitoba
- (5) Includes 3,800 square miles in closed basins
- (6) Adjusted to present datum
- (7) Highest reported

TABLE 3.—*Weather highlights for selected stations, December 1968 through March 1969*

December 1968

Rochester, Minn.....20.7-in. snowfall 2nd greatest of record.
 St. Cloud, Minn.....Record precipitation of 1.95 in. Snowfall of
 25.4 in. greatest in 41 years.
 Billings, Mont.....Average temperature of 19.9°F coldest in 34 years.
 Huron, S. Dak.....Snowfall of 26.0 in. greatest in 81 years.
 Sioux Falls, S. Dak....Record snowfall of 41.1 in.
 North Platte, Nebr....Average temperature of 19.0°F coldest in 44 years.
 Sioux City, Iowa.....Snowfall of 20.6 in. greatest in 71 years.
 Goodland, Kans.....1.31-in. precipitation greatest in 27 years.

January 1969

Minneapolis, Minn.....21.6-in. snowfall 4th greatest this century.
 St. Cloud, Minn.....2.52-in. precipitation greatest in 72 years.
 Billings, Mont.....Sub-zero temperatures 19th to 30th longest period
 in 75 years.
 Bismarck, N. Dak.....1.29-in. precipitation greatest in 58 years.
 Sioux Falls, S. Dak....1.71-in. precipitation and 19.6-in. snowfall
 greatest in 32 years.
 North Platte, Nebr.....12.4-in. snowfall equaled 2nd greatest snowfall of
 record.
 Omaha, Nebr.....22 percent possible sunshine least in 58 years.

February 1969

Rockford, Ill.....0.04-in. precipitation driest in 64 years; 2nd
 driest for any month.
 Waterloo, Iowa.....0.02-in. precipitation driest on record.
 Havre, Mont.....Average temperature of 1.4°F for period Dec. 1968-
 Feb. 1969 coldest on record.
 Sheridan, Wyo.....0.18-in. precipitation driest in 28 years.
 Bismarck, N. Dak.....17.4-in. snowfall greatest in 47 years.
 Huron, S. Dak.....1.94-in. precipitation and 22.3-in. snowfall 2nd
 greatest in 88-year record.
 Norfolk, Nebr.....1.86-in. precipitation greatest in 50 years;
 19.1-in. snowfall 2nd greatest in 72-yr. record.
 Topeka, Kans.....Maximum temperature of 52°F on 5th and 25th lowest
 in 82-year record.

March 1969

Bismarck, N. Dak.....Minimum temperature of -9°F on 30th coldest of
 record for so late in season.
 Fargo, N. Dak.....Minimum temperatures of -15°F on 29th and -14°F on
 30th coldest of record for so late in season.
 Minneapolis, Minn.....Minimum temperature of -5°F on 29th coldest of
 record for so late in season.
 Rochester, Minn.....Minimum temperatures of -7°F on 29th and -4°F on
 30th coldest of record for so late in season.
 Helena, Mont.....Coldest winter in 90-year record.
 Aberdeen, S. Dak.....First March in 74-year record that temperature did
 not reach 40°F.
 Sioux Falls, S. Dak....Minimum temperatures of -3°F on 29th and -5°F on
 30th coldest of record for so late in season.
 Nov.-Mar. snowfall of 94.7 in. greatest of record.
 Valentine, Nebr.....Average temperature of 23.5°F 2nd coldest in 54 yrs.
 Grand Island, Nebr....Nov.-Mar. snowfall of 54.4 in. 2nd greatest in 20 yrs.
 Sioux City, Iowa.....Minimum temperature of 5°F on 29th coldest of
 record for so late in season.
 Dodge City, Kans.....Average temperature of 31.3°F 2nd lowest in 95-yr.
 record.

TABLE 4. — Summary of estimates of flood damage sustained and prevented, and Federal assistance provided
(in \$1,000)

| State | Damages sustained | | | | Damages prevented | | | | Federal assistance (b) |
|------------|-------------------|---------------|-----------------|------------|-------------------|------------------------|---------------------|----------------|------------------------|
| | Urban (a) | Agri-cultural | Transpor-tation | Total | Local efforts | Flood control projects | Operation Foresight | Total | |
| Montana | \$ 233 | \$ 121 | \$ 10 | \$ 364 | \$ --- | \$ --- | \$ --- | \$ --- | \$ --- |
| No. Dakota | 17,263 | 17,388 | 5,019 | 39,670 | 9,751 | 9,131 | 12,566 | 31,448 | 3,700 |
| So. Dakota | 3,586 | 15,149 | 8,060 | 26,795 | 917 | 12,000 | 2,160 | 15,077 | 2,733 |
| Minnesota | 24,757 | 33,435 | 10,803 | 68,995 | 25,492 | 45,012 | 61,156 | 131,660 | 5,380 |
| Wisconsin | 3,350 | 952 | 1,816 | 6,118 | 521 | 124 | 7,857 | 8,502 | 661 |
| Michigan | 9 | --- | 6 | 15 | --- | --- | --- | --- | --- |
| Illinois | 1,519 | 350 | 30 | 1,899 | 100 | 5,048 | 2,147 | 7,295 | 1,254 |
| Iowa | 4,315 | 1,412 | 898 | 6,625 | 254 | 21,350 | 13,787 | 35,391 | 1,806 |
| Nebraska | 38 | 11 | 32 | 81 | --- | 4,238 | 255 | 4,493 | --- |
| Kansas | --- | 22 | 9 | 31 | --- | (n.a.) | --- | (n.a.) | --- |
| Missouri | (n.a.) | (n.a.) | (n.a.) | 69 | --- | (n.a.) | 10 | 10 (c) | --- |
| TOTALS | \$ 55,070 (c) | \$ 68,840 (c) | \$ 26,683 (c) | \$ 150,662 | \$ 37,035 | \$ 96,903 (c) | \$ 99,938 | \$ 233,876 (c) | \$ 15,534 |

¹Estimates based on Corps of Engineers reports and as presented by J. R. Carlton, "Operation Foresight and Good Floodplain Management," Meeting preprint 1121, ASCE National Water Resources Engineering Meeting, Memphis, Tenn., Jan. 26-30, 1970.

- (a) Includes major part of costs of Operation Foresight and local protective actions estimated at \$13.9 million and \$3.4 million, respectively.
- (b) Federal disaster assistance provided for clearance of debris and wreckage; protective, health and sanitation measures; and repair of streets, roads, bridges, dikes, levees, drainage facilities, public utilities, and public buildings and related equipment.
- (c) Incomplete estimate
(n.a.) Not available

TABLE 5.—Depth of snow on ground and water equivalent, in inches, February-April 1969, Iowa

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/3 | | |
|---------------------|--------------|-----|------|-------|-----|------|--------|-----|------|---------|-----|------|---------|-----|------|----------|-----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date |
| Akron | 27 | 7.5 | 2/21 | 27 | 7.5 | 3/5 | 20 | 7.5 | 3/14 | 19 | 7.3 | 3/21 | 12 | 5.4 | 3/24 | | | |
| Akron, 4 E | | | | | | | | | | | | | 8 | 4.1 | 3/22 | | | |
| Akron, 1 W | | | | | | | | | | | | | 9 | 4.1 | 3/27 | | | |
| Albia | T | T | 2/18 | | | | | | | | | | | | | | | |
| Algona | 21 | 9.2 | 2/18 | | | | | | | | | | | | | | | |
| Algona, 3 W | | | | 18 | 5.1 | 3/4 | 14 | 6.2 | 3/12 | 7 | 3.3 | 3/18 | | | | | | |
| " | 16 | 6.0 | 2/28 | 6 | 2.6 | 3/7 | 13 | 5.7 | 3/14 | 9 | 3.3 | 3/21 | | | | | | |
| Alton | 5 | 1.9 | 2/26 | 14 | 3.4 | 3/5 | | | | 8 | 3.8 | 3/21 | 6 | 3.4 | 3/22 | 11 | 4.8 | 3/29 |
| Ames | 3 | 1.1 | 2/18 | | | | | | | | | | | | | | | |
| Arnolds Park | 13 | 3.4 | 2/25 | | | | | | | 11 | 3.1 | 3/20 | 9 | 3.1 | 3/22 | | | |
| Auburn | 10 | 3.0 | 2/27 | | | | | | | | | | | | | | | |
| Blencoe | 6 | 2.4 | 2/24 | | | | | | | | | | | | | | | |
| Bloomfield | 1 | 0.3 | 2/28 | | | | | | | | | | | | | | | |
| Brighton | T | 0.2 | 2/18 | | | | | | | | | | | | | | | |
| Britt, 6 W | 16 | 5.3 | 2/24 | | | | | | | | | | | | | | | |
| Brooklyn | 2 | 1.0 | 2/18 | | | | | | | | | | | | | | | |
| Buckeye | 9 | 1.2 | 2/18 | | | | | | | | | | | | | | | |
| Bussey | T | T | 2/18 | | | | | | | | | | | | | | | |
| Calmar, 5 SW | | | | | | | | | | 2 | 0.5 | 3/19 | | | | | | |
| Carroll | 6 | 1.5 | 2/18 | | | | | | | | | | | | | | | |
| Carson | T | T | 2/27 | | | | | | | | | | | | | | | |
| Chariton | T | T | 2/18 | | | | | | | | | | | | | | | |
| Charles City | 12 | 3.8 | 2/18 | 7 | 0.8 | 3/4 | 6 | 2.1 | 3/11 | 3 | 0.8 | 3/18 | | | | | | |
| " | 9 | 4.0 | 2/28 | | | | 6 | 2.0 | 3/14 | | | | | | | | | |
| Charles City, 3 S | 10 | 2.8 | 2/17 | | | | | | | | | | | | | | | |
| Cherokee | | | | 17 | 5.7 | 3/6 | | | | | | | | | | | | |
| " | | | | 16 | 5.5 | 3/7 | | | | | | | | | | | | |
| Cherokee, 3 N | 12 | 1.6 | 2/4 | 15 | 5.4 | 3/5 | 15 | 5.2 | 3/14 | 10 | 3.6 | 3/18 | | | | | | |
| " | | | | | | | | | | 8 | 3.4 | 3/21 | | | | | | |
| Cherokee, 4 S | 5 | 1.6 | 2/27 | | | | | | | | | | 6 | 3.4 | 3/23 | | | |
| Clarence | 2 | 1.4 | 2/18 | | | | | | | | | | | | | | | |
| Clarion | 17 | 3.3 | 2/28 | | | | | | | | | | | | | | | |
| Clarion, 5 E | | | | 14 | 4.3 | 3/6 | | | | | | | | | | | | |
| Clutier | 4 | 2.0 | 2/18 | | | | | | | | | | | | | | | |
| Conrad | 7 | 2.4 | 2/18 | | | | | | | | | | | | | | | |
| Correctionville | 10 | 3.0 | 2/11 | 12 | 4.4 | 3/7 | 11 | 4.0 | 3/11 | 8 | 3.7 | 3/18 | | | | T | T | 4/1 |
| " | 15 | 4.6 | 2/28 | | | | 11 | 4.3 | 3/14 | 6 | 2.5 | 3/21 | | | | | | |
| Cushing, 3 E | 8 | 2.8 | 2/24 | | | | | | | | | | | | | | | |
| Decorah | 12 | 3.0 | 2/18 | | | | | | | | | | | | | | | |
| " | 10 | 3.4 | 2/25 | | | | | | | | | | | | | | | |
| Decorah, 2 SW | | | | | | | | | | 2 | 0.9 | 3/19 | | | | | | |
| Denison | 8 | 2.1 | 2/4 | 9 | 3.6 | 3/4 | 9 | 3.4 | 3/14 | 5 | 2.7 | 3/18 | | | | | | |
| " | 10 | 2.8 | 2/28 | 10 | 3.5 | 3/7 | | | | | | | | | | | | |
| Doon | | | | | | | | | | 10 | 5.0 | 3/19 | | | | | | |
| Dumont | 7 | 3.2 | 2/18 | 6 | 2.5 | 3/4 | 5 | 1.9 | 3/11 | 4 | 1.4 | 3/18 | | | | | | |
| Dumont | 9 | 2.6 | 2/28 | 5 | 2.3 | 3/7 | | | | | | | | | | | | |
| Edgewood, 5 E | 10 | 4.0 | 2/17 | | | | | | | | | | | | | | | |
| Eldora | 5 | 2.6 | 2/18 | | | | 5 | 1.8 | 3/12 | | | | | | | | | |
| Emmetsburg | 17 | 7.4 | 2/18 | 22 | 5.8 | 3/4 | | | | 12 | 6.0 | 3/21 | 10 | 4.4 | 3/26 | | | |
| Estherville | 15 | 3.3 | 2/18 | 24 | 7.1 | 3/3 | 18 | 6.3 | 3/14 | 4 | 1.2 | 3/18 | 9 | 3.6 | 3/26 | | | |
| Estherville | 20 | 5.9 | 2/28 | | | | | | | | | | | | | | | |
| Everly | | | | 15 | 5.0 | 3/7 | 11 | 4.1 | 3/11 | 12 | 4.5 | 3/18 | | | | | | |
| " | | | | | | | 14 | 5.0 | 3/14 | 8 | 4.5 | 3/21 | | | | | | |
| Fenton | | | | | | | | | | 12 | 5.5 | 3/21 | | | | | | |
| Forest City, 7 N | | | | 12 | 4.2 | 3/3 | | | | | | | | | | | | |
| Fort Dodge | 14 | 3.5 | 2/18 | 15 | 5.3 | 3/6 | | | | | | | | | | | | |
| Fredericksburg, 4 E | 10 | 3.3 | 2/17 | | | | | | | | | | | | | | | |
| Fredericksburg, 7 W | 11 | 3.9 | 2/17 | | | | | | | | | | | | | | | |
| Galva | 18 | 3.8 | 2/28 | | | | | | | | | | | | | | | |
| Garwin | 4 | 1.6 | 2/21 | | | | 4 | 0.8 | 3/11 | T | T | 3/18 | | | | | | |
| Garwin | | | | | | | 2 | 0.3 | 3/14 | | | | | | | | | |
| Gilman | 7 | 2.4 | 2/18 | | | | 5 | 2.7 | 3/11 | | | | | | | | | |
| Graettinger | | | | | | | | | | 14 | 6.0 | 3/21 | | | | | | |
| Grinnell | 2 | 0.5 | 2/18 | | | | 3 | 0.8 | 3/11 | | | | | | | | | |
| " | 8 | 1.9 | 2/28 | | | | 2 | 0.5 | 3/14 | | | | | | | | | |
| Grundy Center | 4 | 1.9 | 2/18 | | | | | | | | | | | | | | | |
| Grundy Center, 3 NE | 9 | 2.0 | 2/28 | | | | 8 | 2.2 | 3/11 | 4 | 1.4 | 3/18 | | | | | | |
| " | | | | | | | 8 | 2.3 | 3/14 | | | | | | | | | |
| Guthrie Center | 8 | 1.5 | 2/18 | | | | 8 | 2.0 | 3/11 | | | | | | | | | |
| " | 9 | 2.1 | 2/28 | | | | | | | | | | | | | | | |

TABLE 5.—Depth of snow on ground and water equivalent, in inches, February-April 1969, Iowa—Continued

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/3 | | | |
|-----------------------|--------------|-----|------|-------|-----|------|--------|----|------|---------|------|------|---------|------|------|----------|------|------|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | |
| Guttenburg | 5 | 2.9 | 2/18 | | | | | | | | | | | | | | | | |
| " | 4 | 1.8 | 2/28 | | | | | | | | | | | | | | | | |
| Hampton | | | | 12 | 4.3 | 3/6 | | | | | | | | | | | | | |
| Hartley | | | | | | | | | | | | | | | | | | | |
| Haverhill | 6 | 2.6 | 2/18 | | | | | | 7 | 2.5 | 3/11 | | 7 | 3.4 | 3/22 | | | | |
| Hawarden | | | | 17 | 4.5 | 3/5 | | | 15 | 5.0 | 3/11 | 10 | 3.5 | 3/21 | 6 | 4.6 | 3/22 | | |
| Holly Springs | | | | 12 | 4.3 | 3/7 | | | | | | 9 | 3.9 | 3/18 | | | | | |
| " | | | | | | | | | | | | 7 | 2.6 | 3/21 | | | | | |
| Holstein | | | | 19 | 5.5 | 3/7 | | | | | | | | | | | | | |
| Holstein, 3 W | | | | | | | | | | | | 4 | 2.1 | 3/20 | 4 | 2.5 | 3/23 | | |
| Holy Cross, 4 E | 6 | 4.2 | 2/17 | | | | | | | | | | | | | | | | |
| Hubbard | | | | 9 | 1.7 | 3/4 | | | | | | | | | | | | | |
| Hull | | | | | | | | | | | | | | | | | | | |
| Ida Grove | 8 | 1.8 | 2/18 | 5 | 2.1 | 3/4 | | | 3 | 1.4 | 3/14 | | | | | | | | |
| " | 12 | 2.6 | 2/28 | 5 | 1.6 | 3/7 | | | | | | | | | | | 13 | 5.1 | 3/29 |
| Iowa Falls, 1 W | 11 | 3.6 | 2/18 | 11 | 3.2 | 3/4 | | | 9 | 3.0 | 3/11 | 4 | 1.5 | 3/18 | | | | | |
| " | 14 | 3.2 | 2/28 | | | | | | 8 | 3.0 | 3/14 | | | | | | | | |
| James | | | | 12 | 4.8 | 3/7 | | | | | | | | | | | | | |
| Janesville | 12 | 1.3 | 2/18 | | | | | | | | | | | | | | | | |
| Jefferson | 8 | 1.7 | 2/18 | | | | | | 9 | 2.9 | 3/11 | 2 | 1.3 | 3/18 | | | | | |
| Jefferson | 13 | 3.2 | 2/28 | | | | | | 9 | 3.2 | 3/14 | | | | | | | | |
| Jewell | 13 | 3.1 | 2/28 | | | | | | | | | | | | | | | | |
| Kanawha | 13 | 3.7 | 2/18 | 10 | 4.0 | 3/4 | | | 10 | 4.0 | 3/11 | 6 | 4.0 | 3/18 | | | | | |
| " | 14 | 4.2 | 2/28 | 10 | 4.0 | 3/7 | | | | | | 3 | - | 3/21 | | | | | |
| Kennebec | 3 | 0.8 | 2/11 | 6 | 2.3 | 3/7 | | | 5 | 2.1 | 3/11 | | | | | | | | |
| Kennebec | 10 | 2.6 | 2/28 | | | | | | 4 | 1.8 | 3/14 | | | | | | | | |
| Kingsley | | | | | | | | | | | | 6 | 3.1 | 3/23 | | | | | |
| Klemme, 1 SW | | | | 13 | 5.1 | 3/4 | | | | | | | | | | | | | |
| Lake Park | | | | 20 | 5.8 | 3/3 | | | | | | 10 | 5.0 | 3/21 | | | | | |
| " | 40 | 5.2 | 5/4 | 40 | 5.2 | 3/4 | | | | | | | | | | | | | |
| Lake Park | | | | 46 | 7.6 | 3/7 | | | | | | | | | | | | | |
| Lakota, 7 N | | | | | | | | | 6 | 1.5 | 3/14 | | | | | | | | |
| Larchwood | | | | 28 | 8.2 | 3/3 | | | | | | | | | | | | | |
| Larrabee | | | | | | | | | | | | 6 | 2.6 | 3/20 | 6 | 3.8 | 3/23 | | |
| LeMars, 2 N | | | | 5 | 1.4 | 3/4 | | | 9 | 3.9 | 3/14 | | | | 6 | 3.2 | 3/22 | | |
| LeMars, 2 N | | | | 12 | 4.1 | 3/5 | | | | | | | | | | | | | |
| Little Rock | | | | 21 | 7.3 | 3/3 | | | | | | 13 | 6.5 | 3/19 | | | | | |
| Little Rock, 4 E | | | | | | | | | | | | | | | 9 | 5.5 | 3/22 | | |
| Little Rock, 4 W | 7 | 2.5 | 2/26 | | | | | | | | | | | | | | | | |
| Luxemburg, 4 W | 4 | 3.0 | 2/17 | | | | | | | | | | | | | | | | |
| Marble Rock | 13 | 4.3 | 2/18 | 8 | 2.4 | 3/4 | | | 7 | 2.0 | 3/11 | | | | | | | | |
| " | 12 | 3.0 | 2/28 | | | | | | 6 | 2.2 | 3/14 | | | | | | | | |
| Marcus | | | | | | | | | | | | | | | 9 | 5.0 | 3/23 | | |
| Marshalltown | 7 | 0.8 | 2/28 | 3 | 0.8 | 3/4 | | | 2 | 0.7 | 3/11 | | | | | | | | |
| " | | | | | | | | | 2 | 0.9 | 3/14 | | | | | | | | |
| Mason City | | | | 18 | 5.3 | 3/4 | | | | | | | | | | | | | |
| McGregor, 2 E | 10 | 3.0 | 2/7 | | | | | | | | | | | | | | | | |
| Merrill | | | | 13 | 4.4 | 3/7 | | | | | | 8 | 1.8 | 3/21 | | | | | |
| Milford | | | | | | | | | | | | 9 | 4.0 | 3/21 | | | | | |
| Missouri Valley, 4 SW | 3 | 1.5 | 2/24 | | | | | | | | | | | | | | | | |
| Monona | 13 | 4.1 | 2/17 | | | | | | | | | | | | | | | | |
| Montezuma | 1 | 1.0 | 2/18 | | | | | | | | | | | | | | | | |
| Moville | | | | 13 | 4.3 | 3/7 | | | | | | | | | | | | | |
| Nashua, 2 E | 11 | 4.1 | 2/17 | | | | | | | | | | | | | | | | |
| Newton | 2 | 1.5 | 2/18 | | | | | | | | | | | | | | | | |
| Northwood | 15 | 4.6 | 2/18 | 15 | 5.2 | 3/3 | | | | | | 5 | 3.5 | 3/18 | | | | | |
| " | 11 | 3.7 | 2/28 | | | | | | | | | | | | | | | | |
| Ocheyedan | 18 | 3.4 | 2/5 | 21 | 5.1 | 3/7 | | | 20 | 5.0 | 3/11 | 14 | 4.9 | 3/18 | 8 | 3.8 | 3/22 | | |
| " | | | | | | | | | 21 | 5.1 | 3/14 | | | | | | | | |
| Ogden | 8 | 3.5 | 2/28 | 5 | 1.9 | 3/7 | | | | | | | | | | | | | |
| Oelwein, 5 E | 9 | 4.0 | 2/17 | | | | | | | | | | | | | | | | |
| Oelwein, 4 NW | 10 | 2.7 | 2/17 | | | | | | | | | | | | | | | | |
| Osage | 13 | 3.4 | 2/18 | 7 | 2.0 | 3/4 | | | 5 | 1.1 | 3/11 | | | | | | | | |
| " | 2 | 2.0 | 2/28 | 7 | 2.6 | 3/7 | | | 5 | 1.4 | 3/14 | | | | | | | | |
| Oskaloosa | 11 | 3.2 | 2/28 | | | | | | | | | | | | | | | | |
| Parkersburg | 9 | 3.6 | 2/18 | 8 | 2.8 | 3/4 | | | | | | | | | | | | | |
| " | 10 | 2.9 | 2/28 | | | | | | | | | | | | | | | | |
| Paullina, 5 S | | | | 19 | 6.7 | 3/5 | | | | | | | | | | | | | |
| Pella | 1 | 0.2 | 2/18 | | | | | | | | | | | | | | | | |
| Perry | | | | | | | | | 7 | 2.6 | 3/11 | | | | | | | | |

TABLE 5.—Depth of snow on ground and water equivalent, in inches, February-April 1969, Iowa—Continued

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/23-4/3 | | |
|------------------------|--------------|-----|------|-------|-----|------|--------|-----|------|---------|-----|------|---------|-----|------|----------|-----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date |
| Peterson | 9 | 1.8 | 2/5 | | | | 6 | 2.0 | 3/14 | | | | | | | | | |
| " | 9 | 1.7 | 2/11 | | | | | | | | | | | | | | | |
| Plainfield, 3 N | 14 | 5.0 | 2/17 | | | | 20 | 5.1 | 3/11 | 14 | 4.2 | 3/18 | | | | | | |
| Pocahontas | 17 | 3.9 | 2/18 | 19 | 5.2 | 3/6 | 20 | 5.1 | 3/11 | 14 | 4.2 | 3/18 | | | | | | |
| " | 22 | 3.5 | 2/28 | 21 | 7.7 | 3/7 | 19 | 5.0 | 3/14 | | | | | | | | | |
| Popejoy | 8 | 2.4 | 2/18 | 7 | 2.3 | 3/4 | 7 | 2.3 | 3/11 | 4 | 1.3 | 3/18 | | | | | | |
| " | | | | | | | 7 | 2.2 | 3/14 | 3 | 1.1 | 3/21 | | | | | | |
| Postville, 2 SW | 11 | 4.2 | 2/17 | | | | | | | | | | | | | | | |
| Primgnar | 21 | 5.4 | 2/28 | 18 | 5.6 | 3/4 | 9 | 3.4 | 3/11 | | | | | | | | | |
| " | | | | 19 | 6.3 | 3/7 | | | | | | | | | | | | |
| Remsen | | | | | | | | | | | | | | | | | | |
| Rock Rapids | | | | 28 | 7.3 | 3/5 | 20 | 5.2 | 3/14 | 15 | 6.2 | 3/19 | 17 | 4.7 | 3/22 | 11 | 3.9 | 3/29 |
| " | | | | | | | | | | | | | 15 | 5.6 | 3/24 | | | |
| " | | | | | | | | | | | | | 15 | 5.6 | 3/25 | | | |
| " | | | | | | | | | | | | | 15 | 5.6 | 3/26 | | | |
| Rockwell City | 15 | 3.3 | 2/18 | 17 | 5/2 | 3/6 | 16 | 4.3 | 3/11 | 11 | 3.4 | 3/18 | 6 | 1.2 | 3/25 | | | |
| " | 19 | 4.0 | 2/28 | | | | 15 | 4.4 | 3/14 | 10 | 2.6 | 3/21 | | | | | | |
| Rodman | | | | | | | | | | 10 | 5.0 | 3/21 | | | | | | |
| Rock Valley | | | | 15 | 5.0 | 3/5 | 16 | 5.2 | 3/14 | 12 | 6.0 | 3/19 | 10 | 4.4 | 3/25 | | | |
| " | | | | 16 | 5.4 | 3/7 | | | | | | | | | | | | |
| Rock Valley, 2 E | | | | | | | | | | | | | 10 | 4.3 | 3/22 | | | |
| Sac City | 16 | 3.8 | 2/18 | | | | 17 | 3.9 | 3/11 | 11 | 3.1 | 3/18 | | | | | | |
| " | 24 | 5.1 | 2/28 | | | | 14 | 3.4 | 3/14 | | | | | | | | | |
| Sanborn | | | | 25 | 8.3 | 3/4 | | | | | | | | | | | | |
| Sergeant Bluff | | | | 13 | 4.1 | 3/7 | | | | | | | | | | 11 | 5.7 | 3/29 |
| Sheffield | 12 | 1.3 | 2/18 | 12 | 1.4 | 3/7 | 8 | 2.3 | 3/14 | 8 | 1.7 | 3/18 | | | | | | |
| Sheldon | | | | 25 | 8.4 | 3/4 | | | | | | | | | | | | |
| " | | | | 16 | 3.6 | 3/5 | | | | | | | | | | | | |
| Sheldon, 2 N | | | | | | | | | | | | | 8 | 4.0 | 3/22 | | | |
| Sheldon, 5 NE | | | | | | | | | | 10 | 6.1 | 3/21 | | | | | | |
| Shell Rock | 11 | 3.7 | 2/18 | | | | 2 | 0.8 | 3/11 | | | | | | | | | |
| Sibley | | | | | | | | | | 16 | 7.0 | 3/21 | | | | | | |
| Sioux Center, 1 S | | | | | | | | | | | | | | | | 6 | 3.1 | 3/29 |
| Sioux City, 1 N | 10 | 3.3 | 2/24 | | | | | | | | | | | | | | | |
| Sioux City, 3 E | 9 | 3.2 | 2/24 | | | | | | | | | | | | | | | |
| Sioux City, 5 E | | | | | | | | | | | | | 4 | 2.1 | 3/23 | | | |
| Sioux Rapids | | | | 19 | 5.8 | 3/5 | | | | | | | 6 | 2.8 | 3/23 | | | |
| Sioux Rapids, 7 S | 7 | 2.4 | 2/24 | | | | | | | | | | | | | | | |
| Sioux Rapids, 9 S | | | | | | | | | | | | | | | | | | |
| Spencer, 1 N | 8 | 2.7 | 2/4 | 18 | 5.4 | 3/4 | 12 | 4.3 | 3/11 | 8 | 4.2 | 3/17 | | | | | | |
| " | | | | 12 | 4.4 | 3/7 | | | | 5 | 4.0 | 3/18 | | | | | | |
| Spencer, 8 S | 6 | 1.9 | 2/24 | | | | | | | 4 | 3.5 | 3/19 | | | | | | |
| Stanton | | | | 10 | 3.7 | 3/7 | | | | 6 | 2.6 | 3/20 | 5 | 2.6 | 3/22 | | | |
| Steamboat Rock | 8 | 2.8 | 2/18 | | | | | | | | | | | | | | | |
| Storm Lake, 2 E | 14 | 3.2 | 2/18 | 19 | 5.2 | 3/6 | 17 | 5.1 | 3/11 | 10 | 3.4 | 3/21 | 7 | 2.2 | 3/25 | | | |
| Strawberry Point, 4 SE | 11 | 4.9 | 2/17 | | | | | | | | | | | | | | | |
| Strawberry Point, 5 W | 9 | 3.9 | 2/17 | | | | | | | | | | | | | | | |
| Sutherland, 2 SE | | | | | | | | | | | | | 8 | 3.9 | 3/23 | | | |
| Swea City, 5 E | | | | 20 | 5.6 | 3/3 | | | | | | | | | | | | |
| Toledo | 2 | 1.1 | 2/18 | | | | 2 | 1.0 | 3/14 | | | | | | | | | |
| Vinton | | | | 2 | 0.7 | 3/4 | | | | | | | | | | | | |
| Waukon | 10 | 2.4 | 2/11 | 5 | 1.5 | 3/4 | 4 | 1.0 | 3/11 | 2 | 0.7 | 3/18 | | | | | | |
| " | 7 | 2.2 | 2/18 | | | | | | | | | | | | | | | |
| " | 6 | 2.0 | 2/25 | | | | | | | | | | | | | | | |
| Waverly, 3 N | 6 | 3.5 | 2/17 | | | | | | | | | | | | | | | |
| Waverly, 5 E | 13 | 4.7 | 2/17 | | | | | | | | | | | | | | | |
| Webster City | 12 | 2.8 | 2/18 | 13 | 3.6 | 3/4 | 11 | 3.3 | 3/11 | 7 | 2.8 | 3/18 | | | | | | |
| " | 15 | 3.3 | 2/28 | 12 | 3.7 | 3/7 | 11 | 3.4 | 3/14 | | | | | | | | | |
| West Union | | | | | | | | | | 1 | 0.2 | 3/19 | | | | | | |
| West Union, 4 E | 12 | 4.7 | 2/17 | | | | | | | | | | | | | | | |
| West Union, 5 W | 8 | 3.9 | 2/17 | | | | | | | | | | | | | | | |
| Williams | 11 | 2.9 | 2/18 | 12 | 3.2 | 3/4 | 11 | 3.3 | 3/14 | | | | | | | | | |
| " | 16 | 3.2 | 2/28 | | | | | | | | | | | | | | | |
| Williamsburg | 3 | 1.1 | 2/18 | | | | | | | | | | | | | | | |
| Winterset | 3 | 0.2 | 2/18 | | | | | | | | | | | | | | | |
| Woodward | 7 | 2.2 | 2/18 | | | | | | | | | | | | | | | |
| Woodward, 7 N | | | | | | | 6 | 2.8 | 3/11 | 3 | 2.5 | 3/18 | | | | | | |
| " | | | | | | | 6 | 2.9 | 3/14 | | | | | | | | | |
| Zearing | 5 | 2.1 | 2/18 | | | | | | | | | | | | | | | |

TABLE 6.—*Depth of snow on ground and water equivalent, in inches, February-April 1969, Michigan*

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/3 | | |
|-----------------|--------------|-----|------|-------|----|------|--------|----|------|---------|----|------|---------|----|------|----------|----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date |
| Benzonia 2 W | 8 | 3.0 | 2/25 | | | | | | | | | | | | | | | |
| Boyne Falls | 12 | 7.1 | 2/25 | | | | | | | | | | | | | | | |
| Cadillac 5 SSE | 16 | 5.2 | 2/25 | | | | | | | | | | | | | | | |
| Clare 4 W | 13 | 5.7 | 2/25 | | | | | | | | | | | | | | | |
| Copemish | 13 | 4.4 | 2/25 | | | | | | | | | | | | | | | |
| Frankfort | 4 | - | 2/25 | | | | | | | | | | | | | | | |
| Gaylord | 12 | 4.4 | 2/25 | | | | | | | | | | | | | | | |
| Grawn 1 NE | 17 | 6.4 | 2/25 | | | | | | | | | | | | | | | |
| Grayling 4 S | 20 | 5.9 | 2/25 | | | | | | | | | | | | | | | |
| Honor | 16 | 5.4 | 2/25 | | | | | | | | | | | | | | | |
| Kalkaska | 23 | 7.3 | 2/25 | | | | | | | | | | | | | | | |
| Mancelona | 12 | 3.9 | 2/25 | | | | | | | | | | | | | | | |
| Marion 5 S | 7 | 5.7 | 2/25 | | | | | | | | | | | | | | | |
| Mesick 5 SE | 15 | 4.7 | 2/25 | | | | | | | | | | | | | | | |
| Traverse City | 10 | 4.3 | 2/25 | | | | | | | | | | | | | | | |
| Vanderbilt 2 NW | 15 | 3.9 | 2/25 | | | | | | | | | | | | | | | |

TABLE 7.—Depth of snow on ground and water equivalent, in inches, February-April 1969, Minnesota.

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/8 | | |
|---------------------|--------------|-----|------|-------|-----|------|--------|-----|------|---------|-----|------|---------|-----|------|----------|-----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date |
| Ada | 19 | 5.5 | 2/14 | 14 | 5.4 | 3/6 | | | | 12 | 5.2 | 3/18 | 11 | 5.2 | 3/25 | 9 | 4.2 | 3/31 |
| " | 17 | 5.4 | 2/21 | | | | | | | 12 | 5.7 | 3/21 | 9 | 4.2 | 3/28 | 9 | 4.1 | 4/3 |
| " | 14 | 5.5 | 2/28 | | | | | | | | | | | | | 5 | 3.0 | 4/8 |
| Adams, 1 E | | | | | | | 5 | 1.3 | 3/10 | | | | | | | | | |
| Adrian | | | | | | | | | | | | | 15 | 5.7 | 3/26 | | | |
| Adrian, 2 E | | | | | | | | | | | | | 11 | 6.0 | 3/23 | | | |
| " | | | | | | | | | | | | | 11 | 5.4 | 3/24 | | | |
| " | | | | | | | | | | | | | 11 | 5.0 | 3/25 | | | |
| " | | | | | | | | | | | | | 11 | 4.8 | 3/26 | | | |
| Agassiz Refuge | 27 | 2.7 | 2/7 | 18 | 3.7 | 3/6 | | | | 19 | 3.5 | 3/18 | 16 | 3.8 | 3/25 | 15 | 3.5 | 3/31 |
| Agassiz Refuge | 23 | 3.5 | 2/14 | | | | | | | 19 | 3.5 | 3/21 | 16 | 3.6 | 3/28 | | | |
| " | 19 | 3.6 | 2/28 | | | | | | | | | | | | | | | |
| Aitkin | 33 | 7.6 | 2/5 | | | | 21 | 5.3 | 3/11 | 18 | 5.2 | 3/18 | 12 | 3.0 | 3/25 | 10 | 3.3 | 4/1 |
| " | 26 | 6.8 | 2/25 | | | | | | | 17 | 5.3 | 3/21 | 11 | 2.8 | 3/28 | 7 | 2.7 | 4/4 |
| Albert Lea | 13 | 4.9 | 1/28 | 10 | 4.6 | 3/1 | | | | 9 | 4.3 | 3/17 | | | | | | |
| Amboy, 1 S | | | | 15 | 6.4 | 3/1 | 13 | 4.7 | 3/13 | 10 | 5.1 | 3/17 | | | | | | |
| Angus, 2 SE | | | | | | | | | | | | | 8 | 2.9 | 3/23 | | | |
| Argyle, 4 E | 26 | 3.8 | 2/14 | 17 | 3.6 | 3/6 | 16 | 3.4 | 3/14 | 15 | 3.3 | 3/18 | 13 | 3.0 | 3/25 | 13 | 3.0 | 3/31 |
| " | 23 | 3.9 | 2/21 | | | | | | | 14 | 3.9 | 3/21 | 13 | 3.0 | 3/28 | 11 | 2.8 | 4/3 |
| Ash Lake | 37 | 7.8 | 2/12 | | | | | | | | | | | | | | | |
| Austin | 12 | 3.2 | 2/28 | 11 | 3.2 | 3/4 | 10 | 3.1 | 3/12 | 6 | 1.8 | 3/21 | | | | | | |
| Backus | 28 | 5.4 | 2/5 | 26 | 7.4 | 3/2 | | | | 20 | 5.6 | 3/20 | | | | | | |
| Bagley, 3 NW | | | | | | | | | | | | | 16 | 5.1 | 3/23 | | | |
| Baker | 10 | 2.8 | 2/22 | | | | 14 | 3.3 | 3/11 | | | | | | | | | |
| Balaton | | | | | | | | | | 22 | 7.2 | 3/25 | | | | | | |
| Barnesville | | | | | | | 13 | 3.9 | 3/11 | | | | | | | | | |
| Baudette | 27 | 5.2 | 2/12 | | | | | | | | | | | | | | | |
| Beardsley | 36 | 3.8 | 2/18 | 31 | 7.0 | 3/4 | 31 | 7.0 | 3/11 | 23 | 5.4 | 3/18 | 18 | 4.7 | 3/25 | 17 | 4.5 | 4/1 |
| " | 35 | 7.0 | 2/25 | | | | | | | 25 | 5.6 | 3/21 | | | | | | |
| Belle Plaine, 1 S | | | | | | | 15 | 4.4 | 3/14 | | | | | | | | | |
| Bemidji | 28 | 6.3 | 2/11 | 27 | 6.4 | 3/2 | | | | 19 | 5.2 | 3/20 | | | | | | |
| Benson | 22 | 5.4 | 2/11 | 28 | 6.6 | 3/4 | 24 | 6.4 | 3/11 | 21 | 6.4 | 3/18 | 16 | 5.5 | 3/25 | | | |
| " | 24 | 5.8 | 2/18 | | | | | | | | | | | | | | | |
| " | 25 | 6.3 | 2/25 | | | | | | | | | | | | | | | |
| Blomkest | | | | | | | | | | | | | 11 | 5.0 | 3/26 | | | |
| Blue Earth | | | | 15 | 6.0 | 3/1 | | | | 11 | 4.7 | 3/17 | | | | | | |
| Blue Earth, 3 N | | | | | | | 8 | 2.3 | 3/14 | | | | | | | | | |
| Blue Earth, 2 W | | | | | | | 19 | 5.9 | 3/14 | | | | | | | | | |
| Breckenridge, 7 ENE | | | | | | | 13 | 3.9 | 3/11 | | | | | | | | | |
| Brooks | | | | | | | | | | | | | 15 | 3.6 | 3/23 | | | |
| Byron | 15 | 5.0 | 2/11 | | | | | | | | | | | | | | | |
| Caledonia | 18 | 4.6 | 2/11 | 15 | 6.2 | 3/4 | 14 | 4.8 | 3/11 | 11 | 3.4 | 3/18 | | | | | | |
| " | 17 | 6.0 | 2/18 | | | | | | | | | | | | | | | |
| " | 15 | 5.2 | 2/25 | | | | | | | | | | | | | | | |
| Callaway | 10 | - | 1/29 | | | | 18 | 5.5 | 3/10 | | | | 9 | 2.9 | 3/22 | | | |
| Campbell | 29 | 6.1 | 2/7 | 24 | 7.8 | 3/6 | 14 | 4.2 | 3/14 | 11 | 3.6 | 3/18 | 9 | 3.4 | 3/25 | 9 | 3.5 | 3/31 |
| " | 13 | 7.6 | 2/21 | | | | | | | 10 | 3.5 | 3/21 | 9 | 3.5 | 3/28 | 5 | 1.9 | 4/3 |
| " | 25 | 7.9 | 2/28 | | | | | | | | | | | | | T | T | 4/8 |
| Campbell, 4 S | | | | | | | 15 | 5.0 | 3/11 | | | | | | | | | |
| Canby | 26 | 2.8 | 2/11 | 38 | 8.4 | 3/4 | 37 | 8.2 | 3/11 | 26 | 7.2 | 3/18 | 23 | 6.6 | 3/25 | 16 | 5.4 | 4/1 |
| Canby | 33 | 7.6 | 2/18 | | | | | | | 28 | 7.5 | 3/21 | 20 | 6.3 | 3/28 | 8 | 3.5 | 4/4 |
| " | 34 | 7.8 | 2/25 | | | | | | | | | | | | | | | |
| Carlton, 4 E | | | | 14 | 3.1 | 3/3 | | | | | | | | | | | | |
| Chandler, 1 S | | | | | | | | | | | | | 22 | 7.6 | 3/23 | | | |
| " | | | | | | | | | | | | | 21 | 7.6 | 3/24 | | | |
| Chandler, 1 S | | | | | | | | | | | | | 21 | 7.4 | 3/25 | | | |
| " | | | | | | | | | | | | | 21 | 7.6 | 3/26 | | | |
| Chatfield, 3 W | | | | | | | 10 | 2.9 | 3/10 | | | | | | | | | |
| Chatfield, 4 NW | | | | | | | 11 | 2.9 | 3/10 | | | | | | | | | |
| Comfrey | 24 | 5.0 | 2/18 | 26 | 5.0 | 3/4 | 24 | 8.0 | 3/11 | 24 | 8.0 | 3/18 | 14 | 4.1 | 3/25 | 6 | 3.5 | 4/1 |
| Comfrey | | | | | | | | | | 17 | 6.0 | 3/21 | 9 | 4.3 | 3/24 | 3 | 1.4 | 4/4 |
| Comfrey, 1 E | | | | | | | 17 | 4.6 | 3/14 | | | | | | | | | |
| Comfrey, 12 SW | | | | | | | 27 | 8.0 | 3/14 | | | | | | | | | |
| Cook | 35 | 8.2 | 2/12 | | | | | | | | | | | | | | | |
| Correll | 24 | 3.8 | 2/11 | 24 | 4.1 | 3/4 | 24 | 4.2 | 3/11 | 24 | 4.5 | 3/18 | 24 | 5.1 | 3/25 | 24 | 5.8 | 4/1 |
| Correll | 24 | 3.7 | 2/18 | | | | | | | 24 | 4.9 | 3/21 | 24 | 5.5 | 3/28 | 24 | 6.2 | 4/4 |
| " | 24 | 3.9 | 2/25 | | | | | | | | | | | | | | | |
| Cosmos | | | | | | | | | | | | | 10 | 4.7 | 3/26 | | | |
| Cottonwood, 3 W | | | | | | | | | | | | | 17 | 5.5 | 3/25 | | | |
| Crane Lake | 30 | 5.9 | 2/18 | | | | | | | | | | | | | | | |

TABLE 7.—Depth of snow on ground and water equivalent, in inches, February-April 1969, Minnesota.—Con.

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/8 | | |
|----------------------|--------------|-----|------|-------|-----|------|--------|-----|------|---------|-----|------|---------|-----|------|----------|-----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date |
| Cromwell, 3 SW | 30 | 5.6 | 2/3 | 24 | 6.2 | 3/3 | | | | 17 | 5.9 | 3/19 | | | | | | |
| Crookston | 19 | 2.5 | 2/7 | 13 | 2.3 | 3/6 | | | | 12 | 2.3 | 3/18 | 10 | 1.9 | 3/25 | 9 | 1.7 | 3/31 |
| " | 18 | 2.8 | 2/14 | | | | | | | 12 | 2.2 | 3/21 | 8 | 1.7 | 3/28 | 6 | 1.6 | 4/3 |
| " | 16 | 2.5 | 2/21 | | | | | | | | | | | | | T | T | 4/8 |
| " | 13 | 2.6 | 2/28 | | | | | | | | | | | | | | | |
| Currie, 1 S | | | | | | | | | | | | | 20 | 6.3 | 3/26 | 15 | 6.6 | 4/3 |
| Detroit Lakes | 28 | 6.3 | 2/11 | 25 | 4.8 | 3/2 | 20 | 6.1 | 3/10 | 14 | 4.9 | 3/20 | | | | | | |
| Detroit Lakes, 1 NNE | 28 | 6.6 | 2/7 | | | | 20 | 5.7 | 3/14 | 18 | 5.5 | 3/18 | 10 | 3.5 | 3/25 | 9 | 3.5 | 3/31 |
| " | 27 | 6.2 | 2/14 | | | | | | | 16 | 3.5 | 3/21 | 9 | 3.4 | 3/28 | 8 | 2.7 | 4/3 |
| " | 25 | 6.9 | 2/28 | | | | | | | | | | | | | T | T | 4/8 |
| Dundee | | | | | | | | | | | | | 12 | 4.6 | 3/26 | | | |
| Edgerton | | | | | | | | | | | | | 17 | 6.8 | 3/23 | | | |
| Edgerton, 1 W | | | | | | | | | | | | | 17 | 6.7 | 3/24 | | | |
| " | | | | | | | | | | | | | 17 | 6.6 | 3/25 | | | |
| " | | | | | | | | | | | | | 17 | 6.2 | 3/26 | | | |
| Elbow Lake, 4 N | | | | | | | 13 | 4.0 | 3/11 | | | | | | | | | |
| Ellsworth | | | | | | | | | | 22 | 8.0 | 3/19 | 13 | 6.2 | 3/24 | | | |
| " | | | | | | | | | | | | | 13 | 5.8 | 3/24 | | | |
| " | | | | | | | | | | | | | 13 | 5.6 | 3/25 | | | |
| " | | | | | | | | | | | | | 13 | 5.4 | 3/26 | | | |
| Erskine, 3 W | 24 | 5.1 | 2/18 | | | | | | | | | | 14 | 4.7 | 3/22 | | | |
| Fairbault | 31 | 3.6 | 2/11 | | | | | | | | | | 3 | 2.0 | 3/25 | | | |
| Fairmont | 24 | 8.0 | 2/11 | 25 | 6.9 | 3/24 | 24 | 9.0 | 3/11 | 18 | 5.2 | 3/18 | 10 | 3.4 | 3/25 | 4 | 1.1 | 4/1 |
| " | 26 | 8.2 | 2/18 | | | | | | | 14 | 4.5 | 3/21 | 10 | 3.8 | 3/26 | | | |
| " | 23 | 6.6 | 2/25 | | | | | | | | | | 8 | 2.3 | 3/28 | | | |
| Fergus Falls, 5 E | | | | | | | 20 | 5.9 | 3/11 | | | | | | | | | |
| Fergus Falls, 5 W | | | | | | | 14 | 4.1 | 3/11 | | | | | | | | | |
| Florence, 1 E | | | | 24 | 8.7 | 3/7 | 31 | 8.3 | 3/14 | | | | | | | | | |
| Forest Lake, 3 S | | | | 17 | 5.1 | 3/3 | | | | | | | | | | | | |
| Fort Ripley | 37 | 8.0 | 2/11 | 29 | 7.9 | 3/4 | 28 | 7.7 | 3/11 | 26 | 7.5 | 3/18 | 17 | 5.8 | 3/25 | 17 | 5.7 | 4/1 |
| Fort Ripley | 37 | 8.0 | 2/18 | | | | | | | 22 | 6.8 | 3/21 | 17 | 5.9 | 3/28 | 11 | 3.9 | 4/4 |
| " | 35 | 8.2 | 2/25 | | | | | | | | | | | | | | | |
| Fosston | 24 | 5.3 | 1/28 | 22 | 6.5 | 3/6 | | | | 18 | 6.3 | 3/18 | 14 | 4.3 | 3/25 | 12 | 4.2 | 3/31 |
| " | 36 | 4.8 | 2/7 | | | | | | | 16 | 4.9 | 3/21 | 12 | 4.3 | 3/28 | 7 | 2.8 | 4/3 |
| " | 34 | 4.8 | 2/14 | | | | | | | | | | | | | T | T | 4/8 |
| Fosston | 30 | 6.1 | 2/21 | | | | | | | | | | | | | | | |
| " | 24 | 6.3 | 2/28 | | | | | | | | | | | | | | | |
| Frazee | 25 | 5.6 | 1/29 | | | | | | | | | | | | | | | |
| Fulda, 4 E | | | | | | | | | | | | | | | | 12 | 3.4 | 4/3 |
| Garden City, 2 W | | | | | | | 16 | 4.5 | 3/14 | | | | | | | | | |
| Gary | | | | | | | | | | | | | 13 | 3.3 | 3/22 | | | |
| Gonvick | | | | | | | | | | | | | 16 | 5.2 | 3/23 | | | |
| Goodridge | 16 | 4.1 | 2/18 | | | | | | | | | | | | | | | |
| Good Thunder, 1 W | | | | | | | 12 | 4.1 | 3/14 | | | | | | | | | |
| Grand Rapids | 31 | 7.2 | 2/24 | | | | | | | | | | | | | | | |
| Granite Falls | 24 | 6.2 | 2/11 | 23 | 6.7 | 3/4 | 20 | 6.4 | 3/11 | 14 | 4.8 | 3/18 | | | | | | |
| " | 26 | 7.2 | 2/18 | | | | | | | 8 | 2.4 | 3/21 | | | | | | |
| " | 23 | 6.2 | 2/25 | | | | | | | | | | | | | | | |
| " | 21 | 4.2 | 2/18 | | | | | | | | | | | | | | | |
| Greenbush | 21 | 4.2 | 2/18 | | | | | | | | | | | | | | | |
| Gull Lake Dam | 26 | 4.9 | 1/27 | 25 | 6.4 | 3/3 | 24 | 6.4 | 3/10 | 20 | 5.8 | 3/21 | 19 | 5.1 | 3/24 | 17 | 5.0 | 3/31 |
| Gull Lake Dam | 25 | 4.5 | 2/12 | | | | | | | | | | | | | | | |
| Hallock | 24 | 5.3 | 2/7 | 20 | 5.2 | 3/6 | | | | 16 | 4.1 | 3/18 | 12 | 3.5 | 3/25 | 10 | 3.0 | 4/7 |
| " | 22 | 5.2 | 2/14 | | | | | | | 15 | 3.9 | 3/21 | | | | 10 | 3.4 | 3/21 |
| " | 20 | 5.1 | 2/28 | | | | | | | | | | | | | | | |
| Halstad | 26 | 2.7 | 2/7 | 14 | 2.9 | 3/6 | | | | 10 | 2.6 | 3/18 | 10 | 2.2 | 3/28 | 10 | 2.2 | 3/31 |
| Halstad | 20 | 2.8 | 2/14 | | | | | | | 11 | 2.9 | 3/21 | | | | 7 | 2.1 | 4/3 |
| " | 16 | 2.4 | 2/21 | | | | | | | | | | | | | | | |
| " | 14 | 2.5 | 2/28 | | | | | | | | | | | | | | | |
| Hanley Falls, 2 N | | | | | | | | | | | | | 19 | 6.3 | 3/25 | | | |
| Hardwick | | | | | | | | | | | | | 15 | 5.3 | 3/23 | | | |
| Hardwick | | | | | | | | | | | | | 15 | 5.2 | 3/24 | | | |
| " | | | | | | | | | | | | | 15 | 5.3 | 3/25 | | | |
| " | | | | | | | | | | | | | 15 | 5.7 | 3/26 | | | |
| Harmony | 22 | 6.1 | 2/11 | 17 | 5.4 | 3/4 | 16 | 5.0 | 3/11 | 11 | 3.5 | 3/18 | | | | | | |
| " | 22 | 8.2 | 2/18 | | | | | | | | | | | | | | | |
| Harmony | 18 | 5.5 | 2/25 | | | | | | | | | | | | | | | |
| Hastings | 22 | 5.3 | 2/4 | | | | | | | | | | | | | | | |
| " | 22 | 5.2 | 2/18 | | | | | | | | | | | | | | | |
| " | 21 | 5.0 | 2/25 | | | | | | | | | | | | | | | |
| Hawley | 26 | 5.9 | 1/29 | | | | | | | | | | | | | | | |

TABLE 7.—*Depth of snow on ground and water equivalent, in inches, February-April 1969, Minnesota.—Con.*

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/8 | | |
|-------------------|--------------|-----|------|-------|-----|------|--------|-----|------|---------|-----|------|---------|-----|------|----------|-----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date |
| Hawley, 3 E | | | | | | | 15 | 5.1 | 3/10 | | | | | | | | | |
| Hawley, 8 W | 13 | 3.5 | 2/22 | | | | 14 | 4.3 | 3/10 | | | | | | | | | |
| Hawley, 14 NW | | | | | | | 15 | 4.8 | 3/10 | | | | | | | | | |
| Hayfield, 8 E | | | | | | | 5 | 1.4 | 3/10 | | | | | | | | | |
| Hibbing | 34 | 9.0 | 2/13 | | | | | | | | | | | | | | | |
| High Landing, 1 W | 18 | 3.1 | 2/7 | 17 | 3.1 | 3/6 | | | | 16 | 3.1 | 3/18 | 13 | 3.6 | 3/25 | 12 | 3.3 | 3/31 |
| " " | 19 | 3.2 | 2/14 | | | | | | | 16 | 3.0 | 3/21 | 12 | 3.5 | 3/28 | 10 | 3.1 | 4/3 |
| " " | 18 | 3.1 | 2/21 | | | | | | | | | | | | | T | T | 4/8 |
| " " | 15 | 3.1 | 2/28 | | | | | | | | | | | | | | | |
| Hill City | 30 | 5.4 | 2/13 | 26 | 7.6 | 3/1 | | | | 19 | 7.0 | 3/19 | | | | | | |
| Hills | | | | | | | | | | 19 | 5.8 | 3/19 | | | | | | |
| Hinckley | 28 | 6.8 | 1/31 | 22 | 6.2 | 3/3 | 22 | 5.0 | 3/11 | 16 | 4.7 | 3/18 | 11 | 3.8 | 3/25 | 9 | 4.4 | 4/1 |
| " " | 22 | 6.9 | 2/25 | 22 | 6.9 | 3/4 | | | | 14 | 4.2 | 3/21 | 9 | 3.3 | 3/28 | 7 | 1.5 | 4/4 |
| Hokah, 1 NE | | | | | | | 6 | 1.6 | 3/10 | | | | | | | | | |
| Hokah, 1 S | 14 | 5.3 | 2/11 | | | | 10 | 3.6 | 3/11 | 3 | 1.2 | 3/18 | T | T | 3/25 | | | |
| Hokah, 1 S | 11 | 4.8 | 2/18 | | | | | | | | | | | | | | | |
| " " | 10 | 3.9 | 2/25 | | | | | | | | | | | | | | | |
| Houston, 4 E | | | | | | | 23 | 4.5 | 3/10 | | | | | | | | | |
| Hutchinson | | | | | | | | | | | | | 9 | 4.2 | 3/26 | | | |
| Jacobson | 30 | 6.9 | 2/5 | 25 | 5.8 | 3/1 | | | | 19 | 6.0 | 3/19 | | | | | | |
| Kent, 2 NW | | | | | | | 13 | 4.1 | 3/11 | | | | | | | | | |
| Kragnes | | | | | | | 15 | 4.4 | 3/10 | | | | | | | | | |
| La Crescent Dam | 16 | 3.8 | 2/4 | | | | 9 | 4.2 | 3/11 | | | | | | | | | |
| " " " | 14 | 3.2 | 2/18 | | | | | | | | | | | | | | | |
| " " " | 11 | 3.2 | 2/25 | | | | | | | | | | | | | | | |
| Lakefield | | | | | | | | | | | | | 20 | 6.4 | 3/26 | | | |
| Lake Wilson | | | | | | | | | | | | | 13 | 4.1 | 3/23 | | | |
| " " | | | | | | | | | | | | | 12 | 4.1 | 3/24 | | | |
| " " | | | | | | | | | | | | | 12 | 4.0 | 3/25 | | | |
| " " | | | | | | | | | | | | | 12 | 4.1 | 3/26 | | | |
| Lanesboro | 16 | 4.5 | 2/11 | 7 | 3.4 | 3/4 | 5 | 1.2 | 3/10 | | | | | | | | | |
| " " | 15 | 3.3 | 2/18 | | | | | | | | | | | | | | | |
| " " | 10 | 3.7 | 2/25 | | | | | | | | | | | | | | | |
| Leota | | | | | | | | | | | | | 22 | 6.5 | 3/23 | | | |
| " " | | | | | | | | | | | | | 22 | 6.6 | 3/24 | | | |
| Leota | | | | | | | | | | | | | 22 | 6.6 | 3/25 | | | |
| " " | | | | | | | | | | | | | 22 | 7.0 | 3/26 | | | |
| Leota, 5 E | | | | | | | | | | | | | 22 | 7.2 | 3/23 | | | |
| " " | | | | | | | | | | | | | 22 | 7.1 | 3/24 | | | |
| " " | | | | | | | | | | | | | 22 | 7.0 | 3/25 | | | |
| Leota, 5 E | | | | | | | | | | | | | 22 | 6.9 | 3/26 | | | |
| Lismore, 1 E | | | | | | | | | | | | | 14 | 5.7 | 3/23 | | | |
| " " | | | | | | | | | | | | | 14 | 5.6 | 3/24 | | | |
| " " | | | | | | | | | | | | | 14 | 5.6 | 3/25 | | | |
| " " | | | | | | | | | | | | | 14 | 5.4 | 3/26 | | | |
| Litchfield | 22 | 5.6 | 2/18 | 14 | 3.4 | 3/4 | 15 | 4.4 | 3/11 | 13 | 4.4 | 3/18 | 9 | 2.5 | 3/25 | 7 | 2.3 | 4/1 |
| " " | 11 | 3.9 | 2/25 | | | | | | | 11 | 3.3 | 3/21 | 10 | 2.5 | 3/28 | 3 | 1.2 | 4/4 |
| Long Prairie | 36 | 6.6 | 2/11 | 25 | 7.1 | 3/4 | 23 | 6.6 | 3/11 | 21 | 6.6 | 3/18 | 16 | 5.7 | 3/25 | 15 | 5.0 | 4/1 |
| " " | 36 | 6.9 | 2/18 | | | | | | | 20 | 6.6 | 3/21 | | | | | | |
| " " | 29 | 7.2 | 2/25 | | | | | | | | | | | | | | | |
| Luverne | | | | 36 | 6.2 | 3/5 | | | | 17 | 7.0 | 3/18 | 16 | 6.0 | 3/22 | | | |
| " " | | | | | | | | | | | | | 12 | 5.4 | 3/25 | | | |
| " " | | | | | | | | | | | | | 15 | 5.8 | 3/23 | | | |
| " " | | | | | | | | | | | | | 15 | 5.1 | 3/24 | | | |
| " " | | | | | | | | | | | | | 15 | 4.9 | 3/25 | | | |
| Luverne | | | | | | | | | | | | | 14 | 4.6 | 3/26 | | | |
| Luverne, 2 N | | | | | | | | | | | | | 16 | 5.2 | 3/23 | | | |
| " " | | | | | | | | | | | | | 16 | 5.1 | 3/24 | | | |
| " " | | | | | | | | | | | | | 16 | 5.1 | 3/25 | | | |
| " " | | | | | | | | | | | | | 16 | 5.6 | 3/26 | | | |
| Luverne, 4 S | | | | | | | | | | | | | 18 | 3.6 | 3/22 | | | |
| " " | | | | | | | | | | | | | 16 | 4.6 | 3/23 | | | |
| " " | | | | | | | | | | | | | 16 | 5.1 | 3/24 | | | |
| " " | | | | | | | | | | | | | 16 | 4.9 | 3/25 | | | |
| " " | | | | | | | | | | | | | 16 | 4.9 | 3/26 | | | |
| Madelia, 4 NE | | | | | | | 15 | 3.0 | 3/14 | | | | | | | | | |
| Magnolia, 1 W | | | | | | | | | | | | | 21 | 8.1 | 3/23 | | | |
| " " | | | | | | | | | | | | | 21 | 7.7 | 3/24 | | | |
| " " | | | | | | | | | | | | | 21 | 7.7 | 3/25 | | | |
| " " | | | | | | | | | | | | | 20 | 7.6 | 3/26 | | | |

TABLE 7.—Depth of snow on ground and water equivalent, in inches, February-April 1969, Minnesota.—Con.

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/8 | | |
|-----------------------|--------------|-----|------|-------|------|------|--------|-----|------|---------|-----|------|---------|-----|------|----------|-----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date |
| Mahnomen | 11 | 3.5 | 2/11 | 18 | 4.6 | 3/2 | | | | 14 | 4.9 | 3/20 | | | | | | |
| Mahnomen, 1 W | 28 | 4.7 | 2/7 | 18 | 3.7 | 3/6 | 18 | 3.6 | 3/14 | 15 | 3.2 | 3/18 | 12 | 2.9 | 3/25 | 11 | 2.8 | 3/31 |
| " | 28 | 4.8 | 2/14 | | | | | | | 15 | 3.2 | 3/21 | | | | 12 | 2.9 | 4/3 |
| " | 16 | 2.9 | 2/21 | | | | | | | | | | | | | T | T | 4/8 |
| " | 24 | 4.6 | 2/28 | | | | | | | | | | | | | | | |
| Mahnomen, 2 W | | | | 11 | 5.6 | 3/1 | | | | 14 | 5.1 | 3/17 | 13 | 4.0 | 3/22 | | | |
| Mankato | 27 | 6.6 | 1/28 | | | | | | | | | | | | | | | |
| Maplebay | | | | | | | | | | 14 | 4.5 | 3/13 | | | | | | |
| Mapleton, 1 N | | | | | | | | | | 13 | 4.1 | 3/13 | | | | | | |
| Mapleton, 1 W | | | | | | | | | | | | | | | | | | |
| Marcoux | 23 | 5.3 | 1/28 | | | | | | | | | | | | | | | |
| Marshall | 32 | 4.0 | 2/11 | 34 | 4.9 | 3/4 | 31 | 4.8 | 3/11 | 26 | 4.5 | 3/18 | 24 | 6.7 | 3/25 | 14 | 5.5 | 4/1 |
| " | 37 | 4.5 | 2/18 | | | | | | | 10 | 4.4 | 3/21 | 22 | 6.0 | 3/28 | 5 | 1.8 | 4/4 |
| " | 35 | 4.7 | 2/25 | | | | | | | | | | | | | | | |
| Marshall, 5 SW | | | | | | | | | | 31 | 8.5 | 3/14 | | | | | | |
| Melrose | 20 | 5.0 | 2/18 | 19 | 4.5 | 3/4 | 18 | 4.5 | 3/11 | 15 | 3.8 | 3/18 | 5 | 1.1 | 3/25 | | | |
| " | 20 | 4.7 | 2/25 | | | | | | | | | | | | | | | |
| Milaca | 33 | 7.2 | 2/11 | 31 | 7.9 | 3/4 | 28 | 7.5 | 3/11 | 24 | 7.4 | 3/18 | 15 | 6.0 | 3/25 | 12 | 4.5 | 4/1 |
| " | 33 | 7.6 | 2/18 | | | | | | | | | | | | | | | |
| " | 31 | 7.9 | 2/25 | | | | | | | | | | | | | | | |
| Minnesota | 23 | 4.6 | 2/11 | 27 | 7.9 | 3/4 | 24 | 6.8 | 3/11 | 20 | 6.0 | 3/18 | 17 | 5.7 | 3/25 | 13 | 5.3 | 4/1 |
| " | 27 | 6.0 | 2/18 | | | | | | | | | | | | | | | |
| " | 24 | 7.0 | 2/25 | | | | | | | | | | | | | | | |
| Moose Lake, 1 SE | 52 | 8.2 | 2/11 | 28 | 7.0 | 3/4 | 26 | 7.0 | 3/11 | 25 | 7.0 | 3/18 | 22 | 5.8 | 3/25 | 20 | 6.0 | 4/1 |
| " | 33 | 8.3 | 2/18 | | | | | | | 24 | 7.3 | 3/21 | 22 | 5.6 | 3/28 | 18 | 5.8 | 4/4 |
| Moose Lake, 1 SE | 30 | 7.7 | 2/25 | | | | | | | | | | | | | | | |
| Moose Lake, 3 S | | | | 25 | 7.0 | 3/3 | | | | | | | | | | | | |
| Montevideo, 1 SW | 18 | 5.1 | 2/25 | | | | | | | 14 | 3.5 | 3/11 | 11 | 2.5 | 3/18 | 10 | 3.0 | 3/25 |
| " | | | | | | | | | | | | | | | | 8 | 2.5 | 4/1 |
| Morris | 20 | 4.1 | 2/11 | 22 | 5.3 | 3/4 | 22 | 5.4 | 3/11 | 16 | 3.9 | 3/18 | 6 | 1.8 | 3/25 | 5 | 1.5 | 4/1 |
| Morris | 21 | 4.1 | 2/18 | | | | | | | | | | | | | | | |
| New London | 16 | 4.8 | 2/11 | 11 | 4.6 | 3/4 | 8 | 3.0 | 3/11 | 2 | 1.8 | 3/18 | 8 | 1.0 | 3/28 | 16 | 5.4 | 4/4 |
| " | 15 | 4.8 | 2/18 | | | | | | | | | | | | | | | |
| " | 14 | 4.7 | 2/25 | | | | | | | | | | | | | | | |
| New Richland | | | | | | | | | | 13 | 3.5 | 3/13 | | | | | | |
| New Ulm | 24 | 4.2 | 2/11 | 17 | 4.4 | 3/4 | 17 | 4.4 | 3/11 | 14 | 4.0 | 3/18 | 2 | 1.0 | 3/25 | 2 | 0.8 | 4/1 |
| " | 19 | 4.5 | 2/18 | | | | | | | 10 | 3.0 | 3/21 | 2 | 1.0 | 3/28 | | | |
| " | 20 | 4.5 | 2/25 | | | | | | | | | | | | | | | |
| North Mankato | 21 | 4.5 | 2/18 | 18 | 4.8 | 3/4 | 17 | 4.8 | 3/14 | 12 | 3.4 | 3/18 | | | | | | |
| " | 20 | 5.9 | 2/25 | | | | | | | | | | | | | | | |
| Onamia | 27 | 6.8 | 2/18 | 21 | 6.1 | 3/4 | 20 | 6.0 | 3/11 | 16 | 5.1 | 3/18 | 8 | 2.8 | 3/25 | 5 | 1.4 | 4/1 |
| " | 26 | 6.7 | 2/25 | | | | | | | 12 | 4.8 | 3/21 | 5 | 1.9 | 3/28 | 15 | 4.3 | 4/4 |
| Ormsby, 4 S | | | | | | | | | | 14 | 4.3 | 3/14 | | | | | | |
| Orwell Dam | 26 | 4.5 | 1/27 | 22 | 4.8 | 3/3 | 23 | 5.9 | 3/10 | 22 | 6.0 | 3/18 | 19 | 4.5 | 3/24 | | | |
| " | 24 | 5.7 | 2/11 | | | | | | | | | | | | | | | |
| Owatonna, 2 W | | | | | | | | | | 17 | 4.9 | 3/13 | | | | | | |
| Pelican Rapids, 10 NE | | | | | | | | | | 23 | 6.7 | 3/11 | | | | | | |
| Pelican Rapids, 10 SE | | | | | | | | | | 24 | 7.5 | 3/11 | | | | | | |
| Peterson | | | | | | | | | | 12 | 3.5 | 3/10 | | | | | | |
| Pine River Dam | 23 | 4.0 | 1/27 | 20 | 5.0 | 3/3 | 19 | 5.2 | 3/10 | 19 | 5.1 | 3/18 | 18 | 4.4 | 3/24 | 18 | 4.9 | 3/31 |
| Pipstone | | | | 30 | 10.8 | 3/2 | | | | | | | | | | | | |
| " | | | | | | | | | | | | | 21 | 7.1 | 3/22 | | | |
| " | | | | | | | | | | | | | 23 | 6.6 | 2/23 | | | |
| " | | | | | | | | | | | | | 22 | 7.0 | 3/24 | | | |
| " | | | | | | | | | | | | | 22 | 6.8 | 3/25 | | | |
| " | | | | | | | | | | | | | 22 | 7.3 | 3/26 | | | |
| Pipstone, 7 W | 12 | 3.8 | 2/25 | | | | | | | | | | | | | | | |
| Pokegama Dam | 23 | 4.0 | 1/27 | 28 | 8.0 | 3/1 | 25 | 6.8 | 3/10 | 21 | 6.9 | 3/19 | 18 | 5.2 | 3/24 | 12 | 4.5 | 3/31 |
| " | 38 | 7.1 | 2/23 | 28 | 7.0 | 3/3 | | | | | | | | | | 9 | 3.2 | 4/7 |
| Porter | | | | | | | | | | | | | 20 | 7.0 | | | | |
| Preston | | | | | | | | | | 5 | 1.2 | 3/10 | | | | | | |
| Ray | 32 | 7.1 | 2/12 | | | | | | | | | | | | | | | |
| Reading | | | | | | | | | | | | | 14 | 5.9 | 3/23 | | | |
| " | | | | | | | | | | | | | 14 | 5.9 | 3/24 | | | |
| " | | | | | | | | | | | | | 14 | 5.6 | 3/25 | | | |
| " | | | | | | | | | | | | | 14 | 5.4 | 3/26 | | | |
| Red Wing | 22 | 5.0 | 2/4 | | | | | | | | | | | | | | | |
| " | 21 | 4.3 | 2/18 | | | | | | | | | | | | | | | |
| " | 19 | 4.1 | 2/25 | | | | | | | | | | | | | | | |
| Remer | 35 | 7.9 | 2/11 | 25 | 7.1 | 3/3 | | | | 23 | 4.9 | 3/18 | 20 | 4.9 | 3/25 | 21 | 4.6 | 4/1 |
| " | 28 | 5.2 | 2/18 | | | | | | | | | | | | | 18 | 4.4 | 4/4 |

TABLE 7.—Depth of snow on ground and water equivalent, in inches, February-April 1969, Minnesota.—Con.

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/8 | | |
|-------------------------|--------------|-----|------|-------|-----|------|--------|------|------|---------|------|------|---------|-----|------|----------|-----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date |
| Rockford | 21 | 4.8 | 2/11 | | | | 19 | 4.3 | 3/11 | 17 | 5.3 | 3/18 | 8 | 3.2 | 3/25 | 7 | 2.2 | 4/1 |
| " | 21 | 5.3 | 2/25 | | | | | | | 12 | 4.4 | 3/21 | 12 | 2.4 | 3/28 | | | |
| Roseau | 20 | 3.8 | 2/18 | | | | | | | | | | | | | | | |
| Rothsay, 4 E | | | | | | | 22 | 5.8 | 3/11 | | | | | | | | | |
| Rothsay, 10 W | | | | | | | 15 | 4.6 | 3/11 | | | | | | | | | |
| Russell, 5 S | | | | | | | | | | | | | 20 | 6.5 | 3/25 | | | |
| Rustad, 2 E | | | | | | | | | | | | | 13 | 4.2 | 3/26 | | | |
| Ruthron, 1 S | | | | | | | | | | | | | 20 | 7.2 | 3/25 | | | |
| St. Francis, 4 S | 22 | 5.0 | 2/11 | 18 | 4.5 | 3/4 | 17 | 4.4 | 3/11 | 15 | 4.0 | 3/18 | 12 | 3.4 | 3/28 | 10 | 3.1 | 4/1 |
| " " | 27 | 5.2 | 2/18 | | | | | | | 14 | 4.0 | 3/21 | | | | 2 | 0.7 | 4/4 |
| St. Francis, 4 S | 20 | 5.5 | 2/25 | | | | | | | | | | | | | | | |
| St. James | | | | 23 | 8.6 | 3/1 | | | | 18 | 7.3 | 3/17 | | | | | | |
| St. James, 2 SW | | | | | | | 14 | 4.1 | 3/14 | | | | | | | | | |
| Sanborn, 3 N | | | | 27 | 8.0 | 3/2 | 19 | 5.8 | 3/14 | | | | | | | | | |
| Sanborn, 2 NE | | | | | | | 18 | 5.2 | 3/14 | | | | | | | | | |
| Sandy Lake Dam | 26 | 5.5 | 1/27 | 28 | 7.9 | 3/1 | 27 | 8.3 | 3/10 | 23 | 6.8 | 3/19 | 23 | 7.0 | 3/24 | 20 | 7.0 | 3/31 |
| " | 30 | 8.8 | 2/23 | | | | | | | | | | | | | 12 | 3.8 | 4/7 |
| Sherburn | | | | 25 | 8.6 | 3/1 | | | | 14 | 6.2 | 3/17 | | | | | | |
| Slayton, 2 SE | 9 | 2.6 | 2/25 | 23 | 5.4 | 3/7 | | | | 7 | 3.3 | 3.19 | | | | | | |
| Spring Valley | | | | | | | 6 | 1.5 | 3/10 | | | | | | | | | |
| Spring Valley, 10 S | | | | | | | 5 | 1.3 | 3/10 | | | | | | | | | |
| Steen, 2 E | | | | | | | | | | | | | 12 | 4.8 | 3/23 | | | |
| " | | | | | | | | | | | | | 11 | 5.6 | 3/24 | | | |
| " | | | | | | | | | | | | | 11 | 5.4 | 3/25 | | | |
| " | | | | | | | | | | | | | 11 | 5.4 | 3/26 | | | |
| Stewartville, 8 E | | | | | | | 17 | 4.9 | 3/10 | | | | | | | | | |
| Storden, 1 S | | | | | | | | | | | | | | | | 12 | 5.4 | 4/3 |
| Thief River Falls AP | 33 | 3.1 | 2/14 | 21 | 3.0 | 3/6 | | | | 14 | 2.0 | 3/18 | 6 | 1.5 | 3/25 | 6 | 1.2 | 3/31 |
| " " " " | 28 | 3.0 | 2/21 | | | | | | | 16 | 1.8 | 3/21 | 6 | 1.2 | 3/28 | 2 | 0.3 | 4/8 |
| " " " " | 26 | 3.1 | 2/28 | | | | | | | | | | | | | | | |
| Thief River Falls, 1 NW | 21 | 4.2 | 2/18 | | | | | | | | | | 14 | 4.1 | 3/23 | | | |
| Tintah | | | | | | | 14 | 4.1 | 3/11 | | | | | | | | | |
| Tracey | 15 | 4.8 | 1/29 | | | | | | | | | | 23 | 7.8 | 3/26 | | | |
| Transem | | | | | | | 17 | 4.7 | 3/11 | | | | | | | | | |
| Trosky | | | | | | | | | | | | | 16 | 6.1 | 3/23 | | | |
| Trosky | | | | | | | | | | | | | 16 | 6.0 | 3/26 | | | |
| Trosky, 1 S | | | | | | | | | | | | | 16 | 6.2 | 3/25 | | | |
| Trosky, 1 W | | | | | | | | | | | | | 16 | 6.1 | 3/24 | | | |
| Tyler | 32 | 8.9 | 2/11 | 38 | 9.4 | 3/4 | 32 | 10.2 | 3/11 | 33 | 10.7 | 3/18 | 27 | 8.8 | 3/25 | 24 | 8.8 | 4/1 |
| " | 34 | 9.8 | 2/25 | 26 | 8.0 | 3/7 | | | | 32 | 8.7 | 3/21 | 26 | 8.1 | 3/28 | 15 | 6.7 | 4/4 |
| Ulen | | | | | | | | | | | | | 14 | 4.3 | 3/22 | | | |
| Virginia | 39 | 9.7 | 2/13 | | | | | | | | | | | | | | | |
| Wadena | 25 | 5.4 | 2/18 | 23 | 5.6 | 3/4 | 20 | 5.5 | 3/11 | 15 | 5.0 | 3/18 | 8 | 3.0 | 3/25 | 7 | 2.0 | 4/1 |
| " | 26 | 5.8 | 2/25 | | | | | | | 11 | 3.6 | 3/21 | 8 | 2.3 | 3/28 | T | T | 4/4 |
| Wales, 2 S | | | | 34 | 9.8 | 3/3 | | | | | | | | | | | | |
| Walker | 29 | 6.6 | 2/11 | 28 | 6.9 | 3/2 | | | | 19 | 5.3 | 3/20 | | | | | | |
| Walnut Grove, 5 N | | | | | | | 16 | 4.4 | 3/14 | | | | | | | | | |
| Warroad | 23 | 4.7 | 2/18 | | | | | | | | | | | | | | | |
| Waseca | 19 | 6.1 | 2/11 | 19 | 6.6 | 3/4 | 16 | 6.2 | 3/11 | 12 | 4.9 | 3/18 | 6 | 1.8 | 3/25 | 3 | 0.6 | 4/1 |
| " | 19 | 6.2 | 2/18 | | | | | | | 10 | 3.7 | 3/21 | 4 | 0.8 | 3/28 | | | |
| Waseca, 1 E | | | | | | | 13 | 3.9 | 3/13 | | | | | | | | | |
| Waseca, 2 S | | | | | | | 15 | 4.0 | 3/13 | | | | | | | | | |
| Waubun | 15 | 3.5 | 1/28 | | | | | | | | | | | | | | | |
| Wells, 5 N | | | | | | | 11 | 3.8 | 3/13 | | | | | | | | | |
| Wells, 1 NW | 16 | 4.2 | 2/11 | 9 | 2.6 | 3/4 | 10 | 3.1 | 3/11 | 13 | 4.3 | 3/18 | | | | | | |
| Wells, 1 NW | 16 | 4.3 | 2/18 | | | | | | | | | | | | | | | |
| Wells, 3 NW | | | | | | | 14 | 4.6 | 3/13 | | | | | | | | | |
| Whalan | | | | | | | 16 | 4.7 | 3/10 | | | | | | | | | |
| Williams | 25 | 5.2 | 2/18 | | | | | | | | | | | | | | | |
| Willmar | 27 | 8.6 | 2/11 | 20 | 5.6 | 3/4 | 19 | 5.5 | 3/11 | 17 | 5.2 | 3/18 | | | | 11 | 3.6 | 4/1 |
| Willmar | 28 | 8.9 | 2/18 | | | | | | | | | | | | | | | |
| " | 22 | 5.6 | 2/25 | | | | | | | | | | | | | | | |
| Windom | 19 | 4.9 | 2/25 | 23 | 7.1 | 3/2 | 17 | 4.9 | 3/14 | 17 | 6.7 | 3/18 | 13 | 4.7 | 3/24 | 5 | 2.2 | 4/3 |
| " | | | | | | | | | | | | | 12 | 4.5 | 3/25 | | | |
| " | | | | | | | | | | | | | 12 | 3.9 | 3/26 | | | |
| Windom, 7 N | | | | | | | | | | | | | 13 | 4.9 | 3/26 | | | |
| Winger | 24 | 5.3 | 1/28 | | | | | | | | | | | | | | | |
| Winnibigoshish Dam | 31 | 6.9 | 2/11 | 26 | 7.1 | 3/3 | 25 | 7.1 | 3/10 | 24 | 6.8 | 3/17 | 20 | 5.9 | 3/24 | 19 | 7.1 | 3/31 |
| Winona | 20 | 5.3 | 2/4 | | | | 5 | 3.0 | 3/11 | | | | | | | | | |
| " | 15 | 4.2 | 2/18 | | | | | | | | | | | | | | | |

TABLE 7.—Depth of snow on ground and water equivalent, in inches, February-April 1969, Minnesota.—Con.

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/8 | | |
|----------------|--------------|-----|------|-------|-----|------|--------|-----|------|---------|-----|------|---------|-----|------|----------|-----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date |
| Wolverton, 1 N | | | | | | | | | | | | | 11 | 3.3 | 3/26 | | | |
| Woodstock, 1 S | | | | | | | | | | | | | 17 | 4.8 | 3/22 | | | |
| " | | | | | | | | | | | | | 17 | 4.8 | 3/23 | | | |
| " | | | | | | | | | | | | | 16 | 5.0 | 3/24 | | | |
| " | | | | | | | | | | | | | 16 | 5.4 | 3/25 | | | |
| Woodstock, 1 S | | | | | | | | | | | | | 16 | 5.5 | 3/26 | | | |
| Woodstock, 6 N | | | | | | | | | | | | | 22 | 6.4 | 3/22 | | | |
| " | | | | | | | | | | | | | 22 | 6.4 | 3/23 | | | |
| " | | | | | | | | | | | | | 22 | 6.4 | 3/24 | | | |
| " | | | | | | | | | | | | | 22 | 6.7 | 3/25 | | | |
| Woodstock, 6 N | | | | | | | | | | | | | 22 | 7.0 | 3/26 | | | |
| Worthington | | | | 23 | 8.3 | 3/2 | | | | 11 | 4.4 | 3/18 | | | | | | |
| Young America | 26 | 7.3 | 2/11 | 18 | 5.0 | 3/4 | 18 | 6.1 | 3/11 | 14 | 5.3 | 3/18 | 12 | 1.2 | 3/25 | 7 | 2.1 | 4/1 |
| " | 24 | 6.3 | 2/18 | | | | | | | | | | | | | | | |
| Zerkel | 28 | 5.2 | 2/11 | 24 | 5.8 | 3/2 | | | | 18 | 5.1 | 3/20 | | | | | | |
| Zumbro Falls | 19 | - | 2/11 | | | | | | | | | | | | | | | |

TABLE 7.—*Depth of snow on ground and water equivalent, in inches, February-April 1969, Minnesota.—Con.*

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/3 | | |
|--------------------------|--------------|-----|------|-------|-----|------|--------|-----|------|---------|-----|------|---------|-----|------|----------|-----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date |
| Antelope | 16 | 3.0 | 2/26 | | | | | | | 10 | 3.8 | 3/18 | | | | | | |
| Augusta | | | | | | | | | | | | | | | | | | |
| Bainville | 14 | 3.3 | 2/16 | | | | | | | | | | | | | | | |
| Baker | 11 | 2.4 | 2/27 | 23 | 5.6 | 3/5 | 24 | 5.4 | 3/14 | 11 | 3.6 | 3/21 | 2 | 0.6 | 3/28 | | | |
| Barber | | | | | | | | | | 5 | 1.6 | 3/20 | | | | | | |
| Big Sandy | | | | 14 | 2.8 | 3/7 | | | | | | | | | | | | |
| Billings 5 N | 4 | 0.8 | 2/25 | | | | | | | | | | | | | | | |
| Box Elder | | | | 11 | 2.2 | 3/7 | | | | | | | | | | | | |
| Bredette | | | | | | | 16 | 3.0 | 3/14 | 11 | 2.8 | 3/21 | 9 | 2.7 | 3/28 | | | |
| Broadus | 8 | 1.6 | 2/27 | | | | 8 | 1.6 | 3/14 | | | | 1 | 0.1 | 3/28 | | | |
| Chester | | | | 7 | 1.5 | 3/6 | | | | | | | | | | | | |
| Chinook 15 N | | | | 13 | 3.1 | 3/6 | | | | | | | | | | | | |
| Circle | | | | 8 | 1.5 | 3/3 | | | | | | | | | | | | |
| Cleveland 5 ENE | | | | 8 | 1.6 | 3/6 | | | | | | | | | | | | |
| Craig 10 N | | | | | | | | | | 8 | 4.8 | 3/18 | | | | | | |
| Custer 4 W | 8 | 1.5 | 2/26 | | | | | | | | | | | | | | | |
| Dodson 3 W | | | | 12 | 2.5 | 3/4 | | | | | | | | | | | | |
| Eastern Crossing | | | | | | | | | | 6 | 2.2 | 3/18 | | | | | | |
| Eastern Crossing 10 E | | | | 8 | 1.1 | 3/7 | | | | | | | | | | | | |
| Ekalaka | | | | 20 | 4.0 | 3/4 | | | | 6 | 2.3 | 3/21 | 2 | 0.5 | 3/28 | | | |
| Flowing Wells 4 N | 8 | 1.6 | 2/28 | | | | | | | | | | | | | | | |
| Forks 4 NE | | | | | | | | | | | | | | | | | | |
| Forsyth | 11 | 1.6 | 2/26 | | | | | | | | | | | | | | | |
| Fort Belknap Agency | 15 | 3.5 | 2/24 | | | | | | | | | | | | | | | |
| Fort Benton | | | | 16 | 3.3 | 3/3 | | | | | | | | | | | | |
| Fort Peck | 13 | 3.0 | 2/25 | 13 | 2.4 | 3/3 | 13 | 2.6 | 3/14 | 9 | 1.9 | 3/18 | T | T | 3/28 | | | |
| Frazer | 11 | 2.7 | 2/25 | | | | | | | | | | | | | | | |
| Fresno Dam | | | | 10 | 2.5 | 3/6 | | | | | | | | | | | | |
| Gibson Dam | | | | | | | | | | 12 | 4.6 | 3/18 | | | | | | |
| Gilford | | | | | | | | | | 13 | 2.8 | 3/6 | | | | | | |
| Glasgow | | | | | | | | | | 6 | 2.0 | 3/18 | | | | | | |
| Glendive 18 NW | 6 | 1.1 | 2/28 | | | | | | | | | | | | | | | |
| Grass Range | | | | | | | | | | 6 | 1.8 | 3/20 | | | | | | |
| Harlem | | | | 17 | 3.4 | 3/5 | 19 | 3.8 | 3/14 | 10 | 3.3 | 3/21 | T | T | 3/28 | | | |
| Havre | 10 | 2.7 | 2/24 | 9 | 2.3 | 3/5 | | | | | | | | | | | | |
| Havre 6 SW | | | | 20 | 3.9 | 3/7 | | | | | | | | | | | | |
| Havre 22 NW | | | | 8 | 1.7 | 3/7 | | | | | | | | | | | | |
| Hingham | | | | 11 | 2.8 | 3/6 | | | | | | | | | | | | |
| Hinsdale 8 E | 15 | 3.1 | 2/25 | | | | | | | | | | | | | | | |
| Hogeland | | | | 13 | 3.2 | 3/5 | | | | | | | | | | | | |
| Joplin | | | | 10 | 1.6 | 3/3 | | | | 8 | 1.6 | 3/18 | | | | | | |
| Joplin 1 N | | | | 9 | 1.5 | 3/6 | | | | T | T | 3/21 | | | | | | |
| Joplin 25 N | | | | 9 | 1.8 | 3/6 | | | | | | | | | | | | |
| Kremlin | | | | 10 | 3.6 | 3/6 | | | | | | | | | | | | |
| Lewistown | | | | | | | | | | 5 | 1.2 | 3/20 | | | | | | |
| Lewistown 17 E | 10 | 1.9 | 2/25 | | | | | | | | | | | | | | | |
| Lindsay | 7 | 1.6 | 2/28 | | | | | | | | | | | | | | | |
| Lloyd | | | | 10 | 3.1 | 3/6 | | | | | | | | | | | | |
| Loring 23 NNE | | | | 9 | 2.6 | 3/4 | | | | | | | | | | | | |
| Loving | | | | | | | | | | 11 | 3.4 | 3/20 | | | | | | |
| Malta | 13 | 2.2 | 2/25 | 15 | 2.1 | 3/7 | | | | 5 | 1.5 | 3/21 | T | T | 3/28 | | | |
| Malta 35 S | | | | 23 | 2.4 | 3/7 | 24 | 2.4 | 3/14 | 3 | 0.9 | 3/21 | | | | 1 | 0.1 | 4/3 |
| Manchester Br. Gt. Falls | | | | | | | | | | 7 | 3.5 | 3/18 | | | | | | |
| Miles City 3 E | 11 | 1.8 | 2/28 | | | | | | | | | | | | | | | |
| Miles City 40 E | 10 | 1.8 | 2/27 | | | | | | | | | | | | | | | |
| Moccasin | | | | | | | 8 | 1.6 | 3/14 | 7 | 3.2 | 3/21 | | | | 1 | 0.1 | 4/3 |
| Opheim | | | | 13 | 3.2 | 3/4 | 11 | 2.6 | 3/14 | | | | 10 | 2.6 | 3/28 | | | |
| Poplar | 17 | 2.4 | 2/25 | 11 | 1.8 | 3/7 | 12 | 1.9 | 3/14 | 6 | 1.7 | 3/21 | 4 | 1.0 | 3/28 | | | |
| Redstone | 13 | 3.3 | 2/26 | | | | 14 | 4.6 | 3/14 | 9 | 4.3 | 3/21 | 9 | 3.8 | 3/28 | | | |
| Rocky Boy | | | | 11 | 2.2 | 3/7 | | | | | | | | | | | | |
| Roundup 6 S | 12 | 1.4 | 2/25 | | | | | | | | | | | | | | | |
| Roundup 20 N | | | | | | | | | | 20 | 3.0 | 3/20 | | | | | | |
| Roy 4 W | 13 | 1.9 | 2/24 | | | | | | | | | | | | | | | |
| Rudyard | | | | 8 | 2.0 | 3/6 | | | | | | | | | | | | |
| Rudyard 30 N | | | | | | | | | | 5 | 1.6 | 3/20 | | | | | | |
| Scobey 21 S | 15 | 3.5 | 2/27 | | | | | | | | | | | | | | | |
| Simms | | | | | | | | | | 6 | 2.6 | 3/18 | | | | | | |
| Simpson | | | | 8 | 1.7 | 3/7 | | | | | | | | | | | | |
| Stanford | | | | | | | | | | 9 | 3.8 | 3/20 | | | | | | |
| Sunburst | 8 | 1.6 | 2/28 | | | | 6 | 1.6 | 3/14 | 3 | 0.5 | 3/21 | T | T | 3/28 | | | |
| Turner | | | | 18 | 3.6 | 3/5 | | | | 12 | 2.1 | 3/18 | | | | | | |
| Vida | | | | | | | 25 | 2.7 | 3/14 | | | | | | | | | |
| Volborg 5 N | 10 | 2.1 | 2/26 | | | | | | | 12 | 1.7 | 3/21 | 10 | 1.3 | 3/28 | | | |
| Westby | | | | | | | 20 | 2.5 | 3/14 | | | | 3 | 0.3 | 3/28 | | | |
| Wyola | | | | 6 | 1.3 | 3/7 | 8 | 1.5 | 3/14 | | | | | | | | | |
| Zortman 7 S | 13 | 2.6 | 2/24 | | | | | | | | | | | | | | | |

TABLE 8.—Depth of snow on ground and water equivalent, in inches, for February–April 1969, Montana.

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/3 | | |
|------------------|--------------|-----|------|-------|-----|------|--------|-----|------|---------|-----|------|---------|-----|------|----------|-----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date |
| Albion | 11 | 3.8 | 2/27 | | | | 9 | 3.2 | 3/12 | | | | | | | | | |
| " | 12 | 3.7 | 2/28 | | | | | | | | | | | | | | | |
| Albion, 2 W | | | | | | | | | | 5 | 1.1 | 3/15 | | | | | | |
| Ansley | 7 | 1.8 | 2/24 | | | | 4 | 2.1 | 3/10 | | | | | | | | | |
| Atkinson | | | | 20 | 4.0 | 3/1 | | | | | | | | | | | | |
| Atkinson, 20 S | | | | 14 | 4.0 | 3/1 | | | | | | | | | | | | |
| Aurora | 4 | 0.6 | 2/4 | 6 | 2.3 | 3/7 | 6 | 2.2 | 3/10 | | | | | | | | | |
| " | 2 | 0/5 | 2/4 | | | | 5 | 1.6 | 3/14 | | | | | | | | | |
| Barneston | 4 | 1.8 | 2/4 | | | | | | | | | | | | | | | |
| " | 3 | 0.8 | 2/5 | | | | | | | | | | | | | | | |
| Barneston | 7 | 2.0 | 2/21 | | | | | | | | | | | | | | | |
| Bartlett | 9 | 2.8 | 2/27 | | | | 6 | 2.3 | 3/10 | | | | | | | | | |
| " | 8 | 2.7 | 2/28 | | | | | | | | | | | | | | | |
| Bassett | 9 | 2.7 | 2/25 | | | | | | | | | | | | | | | |
| Beatrice | 15 | 3.2 | 2/21 | | | | | | | | | | | | | | | |
| Beemer | 12 | 4.5 | 2/28 | | | | 10 | 3.6 | 3/14 | | | | | | | | | |
| Beemer, 5 N | | | | 12 | 5.7 | 3/4 | | | | | | | | | | | | |
| Blue Hill | 3 | 0.7 | 2/4 | | | | | | | | | | | | | | | |
| Bradshaw | | | | | | | 10 | 3.1 | 3/14 | 4 | 1.2 | 3/18 | | | | | | |
| Broken Bow, 2 W | | | | 8 | 3.0 | 3/1 | | | | | | | | | | | | |
| Bruning | 6 | 0.7 | 2/4 | | | | | | | | | | | | | | | |
| " | 4 | 0.6 | 2/7 | | | | | | | | | | | | | | | |
| Brunswick, 3 W | 7 | 2.9 | 2/26 | | | | 6 | 2.7 | 3/11 | 4 | 1.9 | 3/21 | | | | | | |
| Burwell | | | | 14 | 3.9 | 3/1 | | | | | | | | | | | | |
| Burwell, 12 N | | | | 14 | 4.0 | 3/1 | | | | | | | | | | | | |
| Butte | | | | | | | | | | 7 | 1.4 | 3/15 | | | | | | |
| Ceresco | 4 | 1.9 | 2/27 | | | | | | | | | | | | | | | |
| Chambers, 5 E | 8 | 2.6 | 2/28 | | | | 7 | 2.6 | 3/12 | | | | | | | | | |
| Clarkson | 10 | 3.5 | 2/28 | | | | | | | | | | | | | | | |
| Clay Center | 18 | 2.6 | 1/8 | 9 | 4.1 | 3/6 | 17 | 4.8 | 3/10 | 4 | 2.9 | 3/17 | | | | | | |
| Clearwater | 8 | 2.4 | 2/25 | 6 | 1.8 | 3/4 | | | | | | | | | | | | |
| Columbus | | | | | | | | | | 7 | 1.5 | 3/15 | | | | | | |
| Croighton | 18 | 2.5 | 2/5 | 14 | 3.0 | 3/4 | 11 | 4.5 | 3/14 | | | | | | | | | |
| " | 12 | 2.5 | 2/25 | 12 | 2.8 | 3/7 | | | | | | | | | | | | |
| Crete | 3 | 2.0 | 2/7 | | | | | | | | | | | | | | | |
| Crofton, 5 NE | 11 | 3.2 | 2/24 | | | | | | | | | | | | | | | |
| Crowell, 2 SE | 10 | 3.5 | 2/28 | | | | | | | | | | | | | | | |
| David City | 5 | 2.1 | 2/7 | | | | 4 | 1.4 | 3/14 | | | | | | | | | |
| " | 5 | 1.9 | 2/11 | | | | | | | | | | | | | | | |
| " | 11 | 3.2 | 2/21 | | | | | | | | | | | | | | | |
| Deweese | 7 | 2.5 | 2/4 | | | | | | | | | | | | | | | |
| Dodge | | | | 13 | 4.3 | 3/1 | | | | | | | | | | | | |
| Dorchester | | | | | | | 5 | 2.0 | 3/14 | | | | | | | | | |
| Eddyville | | | | 7 | 2.1 | 3/1 | | | | | | | | | | | | |
| Elgin, 1 E | | | | | | | 9 | 3.3 | 3/12 | | | | | | | | | |
| Elwood | 5 | 1.3 | 2/5 | | | | | | | | | | | | | | | |
| " | 3 | 1.2 | 2/11 | | | | | | | | | | | | | | | |
| Emerson | 13 | 4.2 | 2/28 | 10 | 4.0 | 3/4 | 9 | 3.5 | 3/11 | 8 | 3.0 | 3/18 | 6 | 2.1 | 3/25 | 2 | 0.8 | 4/1 |
| " | | | | | | | 9 | 3.1 | 3/14 | | | | | | | | | |
| Ewing | 15 | 3.7 | 2/25 | 14 | 3.5 | 3/4 | 14 | 3.8 | 3/11 | 10 | 2.9 | 3/18 | 4 | 2.2 | 3/25 | | | |
| Ewing | 15 | 4.2 | 2/27 | 14 | 3.6 | 3/7 | 10 | 3.5 | 3/12 | 8 | 2.4 | 3/21 | | | | | | |
| " | | | | | | | 14 | 3.7 | 3/14 | | | | | | | | | |
| Ewing, 3 W | | | | | | | 8 | 3.1 | 3/12 | | | | | | | | | |
| Fairbury | 5 | 0.9 | 2/4 | | | | | | | | | | | | | | | |
| " | 2 | 0.6 | 2/7 | | | | | | | | | | | | | | | |
| Fairmont | 7 | 1.5 | 2/4 | | | | 5 | 0.7 | 3/10 | | | | | | | | | |
| " | 8 | 3.1 | 2/24 | | | | 4 | - | 3/14 | | | | | | | | | |
| " | 5 | 2.6 | 2/28 | | | | | | | | | | | | | | | |
| Fairmont, 2 W | | | | | | | 5 | 2.4 | 3/10 | | | | | | | | | |
| Fremont | 7 | 2.1 | 2/28 | | | | 6 | 2.0 | 3/10 | | | | | | | | | |
| Fremont, 3 S | 8 | 2.1 | 2/28 | | | | | | | | | | | | | | | |
| Fullerton | | | | | | | 7 | 2.1 | 3/12 | | | | | | | | | |
| Gavins Point Dam | 13 | 4.6 | 2/25 | | | | | | | | | | | | | | | |
| Gibbon | | | | 4 | 1.7 | 3/1 | | | | | | | | | | | | |
| Gresham | 8 | 2.8 | 2/4 | | | | 8 | 3.1 | 3/10 | 4 | 2.4 | 3/18 | | | | | | |
| Gresham | | | | | | | 10 | 3.4 | 3/14 | | | | | | | | | |
| Hastings | 3 | 0.6 | 2/7 | 14 | 4.5 | 3/6 | 6 | 3.5 | 3/14 | 4 | 2.9 | 3/17 | | | | | | |
| " | 8 | 3.0 | 2/24 | | | | | | | | | | | | | | | |
| " | 6 | 2.9 | 2/28 | | | | | | | | | | | | | | | |
| Hastings, 3 E | | | | 8 | 3.9 | 3/6 | | | | | | | | | | | | |

TABLE 9.—Depth of snow on ground and water equivalent, in inches, for February–April 1969, Nebraska.

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/3 | | |
|----------------|--------------|-----|------|-------|-----|------|--------|-----|------|---------|------------------|------|---------|-----|------|----------|----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date |
| Hastings, 2 W | | | | | | | 6 | 3.2 | 3/10 | | | | | | | | | |
| Hebron | 3 | 1.0 | 2/4 | | | | | | | | | | | | | | | |
| " | 7 | 1.4 | 2/19 | | | | | | | | | | | | | | | |
| Holdredge | 5 | 2.3 | 2/4 | | | | | | | | | | | | | | | |
| " | 6 | 2.7 | 2/24 | | | | | | | | | | | | | | | |
| Holdredge | 4 | 2.8 | 2/28 | | | | | | | | | | | | | | | |
| Hooper | 8 | 2.2 | 2/28 | | | | 6 | 2.0 | 3/10 | | | | | | | | | |
| Humphrey | 9 | 3.7 | 2/28 | | | | | | | | | | | | | | | |
| Laurel | 21 | 5.9 | 2/25 | 19 | 5.5 | 3/4 | 17 | 5.6 | 3/14 | 13 | 4.9 | 3/18 | 5 | 1.5 | 3/28 | | | |
| " | 20 | 5.7 | 2/28 | 18 | 5.5 | 3/7 | | | | 12 | 3.6 | 3/21 | | | | | | |
| Lincoln, 2 N | 6 | 1.8 | 2/24 | | | | 2 | 1.3 | 3/10 | | | | | | | | | |
| Loup City | | | | 12 | 3.6 | 3/4 | | | | | | | | | | | | |
| Lyons | 15 | 3.7 | 2/28 | 14 | 4.6 | 3/4 | 12 | 4.2 | 3/11 | 6 | 2.2 | 3/18 | | | | | | |
| " | | | | | | | 12 | 4.4 | 3/14 | 3 | 1.3 | 3/21 | | | | | | |
| Madison | 12 | 2.5 | 2/5 | 9 | 2.9 | 3/4 | | | | 4 | 1.6 ^o | 3/21 | | | | | | |
| Madison | 11 | 3.0 | 2/25 | 8 | 3.0 | 3/7 | | | | | | | | | | | | |
| " | 12 | 3.7 | 2/28 | | | | | | | | | | | | | | | |
| Meadow Grove | 13 | 3.4 | 2/5 | 9 | 3.7 | 3/4 | 8 | 3.6 | 3/11 | | | | 2 | 2.2 | 3/22 | | | |
| " | 9 | 3.2 | 2/25 | 8 | 3.5 | 3/7 | 8 | 3.4 | 3/14 | | | | | | | | | |
| " | 10 | 3.6 | 2/28 | | | | | | | | | | | | | | | |
| Miller | 6 | 2.2 | 2/24 | 6 | 1.9 | 3/1 | 5 | 2.2 | 3/10 | | | | | | | | | |
| Neligh | 10 | 2.6 | 2/25 | 8 | 2.5 | 3/4 | 8 | 3.2 | 3/12 | 4 | 2.0 | 3/18 | 2 | 0.8 | 3/25 | | | |
| " | 9 | 3.0 | 2/28 | 7 | 2.2 | 3/7 | 7 | 3.0 | 3/14 | 3 | 1.5 | 3/20 | | | | | | |
| Nelson | 11 | 2.9 | 1/7 | | | | 2 | 0.8 | 3/6 | | | | | | | | | |
| " | 6 | 2.2 | 2/4 | | | | | | | | | | | | | | | |
| Nelson | 10 | 2.2 | 2/22 | | | | | | | | | | | | | | | |
| Norfolk, 3 E | | | | | | | 12 | 4.0 | 3/10 | | | | | | | | | |
| North Loup | 12 | 3.8 | 2/28 | | | | | | | | | | | | | | | |
| Oakdale | 14 | 3.8 | 2/25 | 13 | 3.8 | 3/4 | 11 | 3.7 | 3/11 | 2 | 0.9 | 3/21 | | | | | | |
| " | 13 | 3.8 | 2/28 | 11 | 3.9 | 3/7 | 10 | 3.9 | 3/12 | | | | | | | | | |
| Oakdale | | | | | | | 10 | 3.8 | 3/14 | | | | | | | | | |
| Oconto, 5 NE | 8 | 3.0 | 2/28 | | | | 11 | 4.4 | 3/12 | | | | | | | | | |
| O'Neill | 10 | 3.5 | 2/27 | | | | | | | | | | | | | | | |
| " | 18 | 4.1 | 2/28 | | | | | | | | | | | | | | | |
| O'Neill, 1 N | | | | | | | | | | 6 | 1.3 | 3/15 | | | | | | |
| O'Neill, 2 S | | | | | | | 10 | 3.2 | 3/10 | | | | | | | | | |
| O'Neill, 6 S | 12 | 3.2 | 2/28 | | | | | | | | | | | | | | | |
| Osceola | 12 | 3.1 | 2/22 | 9 | 3.5 | 3/7 | | | | 4 | 2.5 | 3/18 | | | | | | |
| " | 8 | 3.3 | 2/27 | | | | | | | | | | | | | | | |
| Osmond | 13 | 4.0 | 2/25 | 14 | 4.2 | 3/4 | 14 | 5.0 | 3/14 | 9 | 3.0 | 3/21 | 6 | 2.5 | 3/25 | | | |
| Osmond | 15 | 3.7 | 2/28 | 14 | 5.2 | 3/7 | | | | | | | | | | | | |
| Pender | | | | | | | | | | 5 | 2.5 | 3/21 | | | | | | |
| Pierce | 10 | 3.5 | 2/5 | 15 | 4.1 | 3/4 | 13 | 4.0 | 3/14 | 8 | 3.0 | 3/21 | T | T | 3/25 | | | |
| " | 15 | 4.2 | 2/28 | | | | | | | | | | | | | | | |
| Pilger | 12 | 4.5 | 2/25 | 12 | 4.4 | 3/7 | 12 | 4.4 | 3/10 | 5 | 1.5 | 3/21 | | | | | | |
| Pilger | 13 | 4.3 | 2/28 | 12 | 4.1 | 3/4 | 12 | 4.4 | 3/14 | | | | | | | | | |
| Plainview | | | | 16 | 4.4 | 3/1 | | | | 8 | 2.0 | 3/21 | | | | | | |
| " | | | | 17 | 5.6 | 3/4 | | | | | | | | | | | | |
| " | | | | 10 | 4.0 | 3/7 | | | | | | | | | | | | |
| Polk | 10 | 2.8 | 2/4 | | | | 8 | 3.6 | 3/10 | | | | | | | | | |
| Polk | | | | | | | 4 | 1.6 | 3/14 | | | | | | | | | |
| Ragan | 3 | 0.8 | 2/5 | | | | | | | | | | | | | | | |
| Randolph | 12 | 2.7 | 2/5 | 11 | 4.0 | 3/4 | 11 | 4.9 | 3/11 | 8 | 4.0 | 3/18 | 4 | 2.4 | 3/25 | | | |
| " | 14 | 4.3 | 2/28 | 10 | 4.7 | 3/7 | 11 | 4.7 | 3/14 | 7 | 4.5 | 3/21 | | | | | | |
| Red Cloud | 2 | 0.4 | 2/5 | | | | | | | | | | | | | | | |
| Riverdale | | | | 4 | 1.7 | 3/1 | | | | | | | | | | | | |
| Ruskin | | | | 2 | 0.9 | 3/6 | | | | | | | | | | | | |
| St. Helena | | | | | | | | | | 4 | 2.3 | 3/21 | | | | | | |
| St. Paul | 4 | 1.2 | 2/28 | 4 | 1.3 | 3/4 | 9 | 1.1 | 3/11 | 7 | 1.6 | 3/18 | | | | | | |
| " | | | | 4 | 1.1 | 3/7 | 8 | 2.7 | 3/12 | | | | | | | | | |
| St. Paul | | | | | | | 6 | 0.9 | 3/14 | | | | | | | | | |
| St. Paul, 2 SE | | | | | | | 5 | 1.9 | 3/12 | | | | | | | | | |
| St. Paul, 2 S | 6 | 2.3 | 2/27 | | | | | | | | | | | | | | | |
| Sargent | | | | 8 | 2.9 | 3/1 | | | | | | | | | | | | |
| Schuyler | 8 | 3.6 | 2/26 | 5 | 3.4 | 3/1 | | | | | | | | | | | | |
| Seward | 5 | 1.7 | 2/4 | 4 | 2.3 | 3/7 | 4 | 2.0 | 3/10 | | | | | | | | | |
| " | 5 | 2.1 | 2/27 | | | | 4 | 2.0 | 2/14 | | | | | | | | | |
| Shelby, 2 E | 5 | 2.8 | 2/27 | | | | | | | | | | | | | | | |
| Spalding | 12 | 3.5 | 2/28 | | | | 12 | 3.5 | 3/8 | | | | | | | | | |
| Stanton | 17 | 4.5 | 2/25 | 13 | 3.7 | 3/4 | 13 | 3.3 | 3/11 | 2 | 0.6 | 3/21 | | | | | | |

TABLE 9.—*Depth of snow on ground and water equivalent, in inches, for February–April 1969, Nebraska.—Continued*

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/3 | | |
|-----------------|--------------|-----|------|-------|-----|------|--------|-----|------|---------|------|------|---------|------|------|----------|----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date |
| Stanton | 16 | 4.4 | 2/28 | | | | 11 | 2.8 | 3/14 | | | | | | | | | |
| Sumner | | | | 8 | 2.2 | 3/1 | | | | | | | | | | | | |
| Superior | 5 | 1.4 | 2/4 | | | | | | | | | | | | | | | |
| " | 2 | 0.4 | 2/7 | | | | | | | | | | | | | | | |
| Sutton | | | | | | | | | 6 | 3.3 | 3/14 | 2 | 1.6 | 3/17 | | | | |
| Taylor | 8 | 1.8 | 2/24 | 9 | 3.5 | 3/1 | 5 | 1.8 | 3/10 | | | | | | | | | |
| Thedford | 8 | 1.4 | 2/27 | | | | | | | | | | | | | | | |
| Thedford, 23 N | 8 | 2.2 | 2/27 | | | | | | | | | | | | | | | |
| Uehling | | | | 5 | 2.9 | 3/7 | | | | | | | | | | | | |
| Upland | 7 | 2.4 | 2/4 | | | | | | | | | | | | | | | |
| Upland | 6 | 2.2 | 2/7 | | | | | | | | | | | | | | | |
| " | 4 | 1.3 | 2/11 | | | | | | | | | | | | | | | |
| Utica | 10 | 4.5 | 2/7 | | | | 8 | 2.9 | 3/14 | 5 | 2.8 | 3/14 | | | | | | |
| " | 8 | 3.3 | 2/11 | | | | | | | | | | | | | | | |
| " | 13 | 3.0 | 2/14 | | | | | | | | | | | | | | | |
| Valentine, 5 S | 9 | 3.3 | 2/27 | | | | | | | | | | | | | | | |
| Wahoo | 9 | 3.1 | 2/27 | | | | | | 6 | 2.7 | 3/10 | | | | | | | |
| Wahoo, 3 E | 3 | 2.2 | 2/27 | | | | | | | | | | | | | | | |
| Wakefield | 13 | 3.8 | 2/5 | 13 | 4.0 | 3/4 | 12 | 4.6 | 3/11 | 4 | 1.8 | 3/18 | 3 | 1.6 | 3/25 | | | |
| " | 12 | 4.2 | 2/24 | 12 | 4.4 | 3/7 | 11 | 4.2 | 3/14 | 4 | 2.0 | 3/21 | | | | | | |
| Wakefield | 14 | 4.6 | 2/25 | | | | | | | | | | | | | | | |
| Walhill | 18 | 5.3 | 2/28 | 16 | 5.4 | 3/7 | | | | 7 | 2.4 | 2/18 | 2 | 1.1 | 3/25 | | | |
| " | | | | | | | | | | 5 | 2.1 | 3/21 | | | | | | |
| Wayne | | | | | | | | | | | | | 3 | 1.5 | 3/25 | | | |
| Westerville | 6 | 2.1 | 2/28 | | | | | | | | | | | | | | | |
| West Point | 12 | 4.0 | 2/5 | 12 | 4.2 | 3/4 | 10 | 3.7 | 3/10 | | | | | | | | | |
| " " | 12 | 3.6 | 2/24 | 11 | 4.2 | 3/7 | 8 | 3.3 | 3/11 | | | | | | | | | |
| " " | 12 | 4.1 | 2/25 | | | | | | | | | | | | | | | |
| " " | 13 | 4.3 | 2/28 | | | | | | | | | | | | | | | |
| West Point, 5 S | | | | | | | 10 | 3.6 | 3/10 | | | | | | | | | |
| Wilber | 10 | 3.5 | 2/24 | | | | | | | | | | | | | | | |
| Winside | 14 | 4.5 | 2/28 | | | | | | | | | | | | | | | |
| Winslow | 12 | 2.9 | 2/28 | 11 | 4.0 | 3/4 | 13 | 4.4 | 3/14 | 8 | 2.7 | 3/21 | 6 | 2.4 | 3/25 | | | |
| Wood River | | | | 4 | 1.9 | 2/1 | | | | | | | | | | | | |
| York | 6 | 3.0 | 2/4 | | | | 10 | 3.4 | 3/10 | 3 | 2.8 | 3.17 | | | | | | |
| York | 6 | 2.9 | 2.7 | | | | | | | | | | | | | | | |
| " | 5 | 2.7 | 2/11 | | | | 5 | 3.2 | 3/14 | | | | | | | | | |

TABLE 10.—Depth of snow on ground and water equivalent, in inches, for February–April 1969, North Dakota.

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/8 | | |
|-------------------|--------------|-----|------|-------|-----|------|--------|-----|------|---------|-----|------|---------|-----|------|----------|-----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date |
| Abercrombie | 14 | 2.9 | 2/7 | 12 | 3.3 | 3/7 | 11 | 3.2 | 3/11 | 11 | 3.5 | 3/18 | 9 | 2.9 | 3/25 | 10 | 3.2 | 3/31 |
| " | 13 | 2.8 | 2/14 | | | | 10 | 3.2 | 3/14 | 10 | 3.3 | 3/21 | 9 | 3.0 | 3/28 | | | |
| " | 12 | 2.7 | 2/21 | | | | | | | | | | | | | T | T | 4/8 |
| " | 11 | 3.0 | 2/28 | | | | | | | | | | | | | | | |
| Abercrombie, 2 S | | | | | | | 10 | 3.3 | 3/12 | | | | | | | | | |
| Abercrombie, 2 NW | | | | | | | 14 | 4.5 | 3/11 | | | | | | | | | |
| Adams, 2 N | | | | | | | | | | | | | 15 | 5.7 | 3/24 | | | |
| Adrian | | | | 16 | 4.4 | 3/6 | | | | | | | | | | | | |
| Alfred, 5 NE | | | | 13 | 3.5 | 3/7 | | | | | | | | | | 4 | 2.3 | 4/2 |
| Alice, 1 S | | | | | | | | | | | | | | | | | | |
| Ambrose, 3 N | | | | 20 | 3.2 | 3/5 | | | | | | | | | | | | |
| Amenia | 16 | 3.8 | 2/7 | 10 | 2.9 | 3/7 | 11 | 3.0 | 3/11 | 9 | 2.5 | 3/18 | 7 | 2.4 | 3/25 | 7 | 2.4 | 3/31 |
| " | 13 | 3.0 | 2/14 | | | | 7 | 2.4 | 3/14 | 8 | 2.8 | 3/21 | 6 | 2.3 | 3/28 | 6 | 2.0 | 4/4 |
| " | 12 | 2.8 | 2/21 | | | | | | | | | | | | | 2 | 1.0 | 4/8 |
| " | 10 | 2.5 | 2/28 | | | | | | | | | | | | | | | |
| Amidon | 10 | 2.3 | 1/20 | 12 | 3.5 | 3/3 | 12 | 4.4 | 3/4 | 3 | 2.0 | 3/21 | | | | 3 | 0.8 | 4/2 |
| " | 11 | 2.0 | 2/25 | | | | | | | | | | | | | | | |
| Aneta, 3 S | | | | | | | | | | | | | 8 | 1.8 | 3/22 | | | |
| Arthur | | | | | | | | | | 9 | 2.1 | 3/21 | | | | | | |
| Ashley | 7 | 2.4 | 1/21 | | | | | | | | | | | | | | | |
| Ashley | 9 | 3.3 | 2/24 | | | | | | | | | | | | | | | |
| Ayr | | | | | | | | | | 14 | 4.8 | 3/21 | | | | | | |
| Baldhill Dam | 22 | 3.2 | 2/7 | 15 | 3.1 | 3/7 | 17 | 3.4 | 3/11 | 16 | 3.1 | 3/18 | 12 | 2.9 | 3/25 | 13 | 3.0 | 3/31 |
| " | 18 | 3.2 | 2/14 | | | | 16 | 3.1 | 3/14 | | | | 12 | 2.9 | 3/28 | 4 | 1.6 | 4/8 |
| " | 15 | 3.2 | 2/21 | | | | | | | | | | | | | | | |
| Baldhill Dam | 19 | 3.7 | 2/28 | | | | | | | | | | | | | | | |
| Balta | | | | | | | | | | | | | 13 | 3.5 | 3/22 | | | |
| Beach | 17 | 3.2 | 1/31 | | | | | | | | | | | | | | | |
| " | 7 | 1.4 | 2/25 | | | | | | | | | | | | | | | |
| Belcourt, 3 N | | | | 34 | 5.9 | 3/1 | | | | | | | | | | | | |
| Belfield | 6 | 2.7 | 1/20 | | | | | | | | | | 11 | 2.9 | 3/25 | 6 | 2.0 | 4/1 |
| " | 23 | 3.7 | 2/21 | | | | | | | | | | | | | | | |
| Belfield, 6 N | | | | | | | 13 | 3.1 | 3/12 | | | | | | | | | |
| Belfield, 13 N | 16 | 2.5 | 2/13 | | | | | | | | | | | | | | | |
| Belfield, 6 S | | | | | | | 14 | 3.8 | 3/12 | | | | | | | | | |
| Bergen | 10 | 1.3 | 1/21 | | | | | | | | | | | | | | | |
| " | 15 | 3.2 | 2/25 | | | | | | | | | | | | | | | |
| Beulah | 5 | 1.0 | 1/22 | 15 | 2.6 | 3/7 | 15 | 1.9 | 3/14 | 10 | 3.6 | 3/21 | 3 | 1.0 | 3/25 | 2 | 1.0 | 4/1 |
| " | 9 | 2.0 | 2/24 | | | | | | | | | | 2 | 0.9 | 3/28 | | | |
| Binford | | | | 13 | 2.9 | 3/1 | | | | 10 | 3.2 | 3/20 | | | | | | |
| Blanchard | 10 | 3.0 | 2/4 | | | | | | | | | | | | | | | |
| Bottineau | | | | 31 | 7.3 | 3/2 | | | | 16 | 5.1 | 3/21 | | | | | | |
| Bowman | 10 | 2.7 | 2/26 | 11 | 1.8 | 3/3 | 11 | 1.9 | 3/12 | 8 | 3.4 | 3/18 | 7 | 2.4 | 3/25 | 6 | 3.7 | 3/28 |
| " | | | | | | | | | | | | | 6 | 3.7 | 3/28 | | | |
| Bowman, 16 S | 10 | 2.7 | 2/26 | | | | | | | | | | | | | | | |
| Brantford | 10 | 2.4 | 2/18 | 17 | 3.9 | 3/7 | | | | | | | | | | | | |
| Breien | 8 | 1.2 | 1/20 | 24 | 4.3 | 3/3 | 20 | 5.8 | 3/14 | 12 | 4.1 | 3/21 | 7 | 1.5 | 3/25 | 5 | 2.1 | 4/1 |
| " | 13 | 2.6 | 2/24 | 16 | 4.3 | 3/6 | | | | | | | 6 | 2.5 | 3/28 | | | |
| Buchanan | 23 | 4.1 | 2/18 | | | | | | | | | | | | | | | |
| Buchanan, 2 S | | | | 29 | 6.5 | 3/7 | | | | | | | | | | | | |
| Buchanan, 5 W | | | | | | | | | | | | | | | | 7 | 3.6 | 4/2 |
| Bucyrus | 6 | 1.1 | 1/20 | | | | | | | | | | | | | | | |
| " | 11 | 1.9 | 2/24 | | | | | | | | | | | | | | | |
| " | 9 | 2.3 | 2/26 | | | | | | | | | | | | | | | |
| Buffalo, 4 S | | | | 10 | 2.8 | 3/7 | | | | | | | | | | | | |
| Buxton | | | | | | | | | | | | | 10 | 2.6 | 3/22 | | | |
| Cando | | | | 14 | 3.6 | 3/1 | | | | | | | | | | | | |
| Carrington | 9 | 2.0 | 1/22 | | | | | | | | | | | | | 10 | 3.4 | 4/2 |
| " | 12 | 3.3 | 2/25 | | | | | | | | | | | | | | | |
| " | 15 | 3.9 | 2/3 | | | | | | | | | | | | | | | |
| Carrington, 4 N | | | | | | | | | | | | | | | | | | |
| Carrington, 4 N | 12 | 3.0 | 2/18 | | | | | | | | | | | | | | | |
| Carrington, 7 E | 25 | 3.5 | 2/18 | 30 | 4.9 | 3/7 | | | | | | | | | | | | |
| Carson | 5 | 1.1 | 1/20 | | | | | | | | | | | | | | | |
| " | 9 | 2.1 | 2/24 | | | | | | | | | | | | | | | |
| Casselton | | | | | | | | | | | | | 8 | 3.2 | 3/25 | | | |
| Cavalier | 17 | 1.4 | 2/7 | 10 | 2.0 | 3/7 | 17 | 2.0 | 3/11 | 14 | 2.0 | 3/18 | 8 | 1.2 | 3/25 | 8 | 1.2 | 3/31 |
| " | 17 | 2.0 | 2/21 | | | | | | | 12 | 1.5 | 3/21 | | | | 6 | 1.0 | 4/4 |
| " | 16 | 2.0 | 2/24 | | | | | | | | | | | | | 3 | 0.9 | 4/8 |
| " | 13 | 1.7 | 2/28 | | | | | | | | | | | | | | | |
| Cayuga | | | | | | | 15 | 5.0 | 3/13 | | | | 8 | 1.7 | 3/26 | | | |

TABLE 10.—*Depth of snow on ground and water equivalent, in inches, for February–April 1969, North Dakota.—Continued*

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/8 | | | |
|-------------------|--------------|-----|------|-------|-----|------|--------|-----|------|---------|------|------|---------|------|------|----------|-----|------|-----|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | |
| Chaffee | 12 | 3.6 | 2/28 | | | | | | | | | | | | | | | | |
| Chaffee, 5 NE | 16 | 2.9 | 2/7 | 11 | 3.5 | 3/7 | 12 | 3.5 | 3/11 | 9 | 3.3 | 3/21 | 6 | 2.1 | 3/28 | 6 | 2.1 | 3/31 | |
| " | 14 | 3.1 | 2/14 | | | | 11 | 3.3 | 3/14 | | | | | | | 5 | 1.8 | 4/4 | |
| " | 13 | 3.8 | 2/21 | | | | | | | | | | | | | T | T | 4/8 | |
| " | 12 | 3.7 | 2/28 | | | | | | | | | | | | | | | | |
| Christine | 14 | 3.5 | 2/22 | | | | | | | | | | | | | | | | |
| Claveland, 5 NE | 18 | 2.9 | 2/24 | | | | | | | | | | | | | | | | |
| Colfax, 6 SW | | | | | | | | | | | | | 8 | 2.2 | 3/26 | | | | |
| Colgate | 20 | 4.7 | 2/7 | 15 | 3.6 | 3/7 | 16 | 3.9 | 3/11 | 13 | 3.8 | 3/18 | 10 | 3.9 | 3/25 | 11 | 3.7 | 3/31 | |
| " | 18 | 5.4 | 2/14 | | | | | | | 12 | 4.1 | 3/21 | 10 | 2.5 | 3/28 | 8 | 3.0 | 4/4 | |
| Colgate | 16 | 3.8 | 2/21 | | | | | | | | | | | | | | 2 | 0.7 | 4/8 |
| " | 15 | 4.3 | 2/28 | | | | | | | | | | | | | | | | |
| Cooperstown | 9 | 2.1 | 1/22 | | | | | | | | | 13 | 3.1 | 3/20 | | | | | |
| " | 9 | 2.9 | 2/25 | | | | | | | | | | | | | | | | |
| Courtenay, 1 NW | 25 | 5.1 | 2/3 | | | | | | | | | | | | | | | | |
| Crystal, 1 E | | | | | | | | | | | | | 9 | 3.1 | 3/24 | | | | |
| Crystal Springs | 10 | 2.0 | 1/31 | | | | | | | | | | | | | | | | |
| Davenport | | | | | | | | | | | | 10 | 2.5 | 3/21 | | | | | |
| Delamere | | | | | | | | | | | | | | | | | | | |
| Devils Lake | 14 | 2.5 | 2/6 | 22 | 4.2 | 3/1 | 12 | 3.6 | 3/13 | | | | 18 | 3.9 | 3/20 | | | | |
| Dickey | | | | 16 | 4.5 | 3/6 | | | | | | | | | | | 15 | 4.5 | 4/1 |
| Dickey, 5 ESE | | | | | | | | | | | | | | | | | 17 | 5.7 | 4/1 |
| Dickinson | 3 | 0.8 | 1/20 | | | | | | | | | | | | | | | | |
| " | 11 | 2.5 | 2/25 | | | | | | | | | | | | | | | | |
| Dickinson, 9 N | | | | | | | | | 11 | 2.5 | 3/12 | | | | | | | | |
| Dickinson, 4 S | | | | | | | | | 19 | 3.0 | 3/12 | | | | | | | | |
| Dover, 5 S | | | | | | | | | | | | | | | | | 22 | 6.7 | 4/2 |
| Drayton, 2 N | 12 | 2.6 | 2/7 | 16 | 4.1 | 3/7 | 16 | 4.1 | 3/11 | 15 | 3.6 | 3/18 | 14 | 3.2 | 3/25 | 8 | 2.5 | 3/31 | |
| " | 12 | 4.0 | 2/14 | | | | 15 | 4.1 | 3/14 | 14 | 4.1 | 3/21 | 13 | 4.3 | 3/28 | T | T | 4/8 | |
| " | 15 | 4.4 | 2/28 | | | | | | | | | | | | | | | | |
| Dunn Center | 21 | 2.5 | 2/21 | | | | | | | | | | | | | | | | |
| Dunn Center, 2 SW | 26 | 2.2 | 2/22 | 17 | 2.2 | 3/6 | 18 | 2.3 | 3/14 | 8 | 2.6 | 3/21 | 5 | 0.8 | 3/28 | | | | |
| Dunseith | | | | 22 | 5.8 | 3/2 | | | | | | | | | | | | | |
| Dwight | | | | | | | 15 | 4.5 | 3/12 | | | | | | | | | | |
| Eckelson | 14 | 4.3 | 2/24 | | | | | | | | | | | | | | 6 | 2.3 | 4/1 |
| Edgeley | | | | | | | | | | | | | | | | | | | |
| Eldridge | 12 | 4.3 | 2/24 | | | | | | | | | | | | | | | | |
| Elgin | | | | | | | 13 | 3.5 | 3/10 | | | | | | | | | | |
| Ellendale | 9 | 2.3 | 1/21 | | | | | | | | | | | | | | | | |
| " | 14 | 3.5 | 2/24 | | | | | | | | | | | | | | | | |
| Emerado, 1 SE | | | | | | | | | | | | | 12 | 2.8 | 3/22 | | | | |
| Enderlin, 1 E | | | | 9 | 3.0 | 3/7 | | | | | | | | | | | | | |
| Epping | 11 | 1.6 | 1/22 | | | | | | | | | | | | | | | | |
| " | 15 | 3.7 | 2/24 | | | | | | | | | | | | | | | | |
| Erie | | | | | | | | | | | | 9 | 2.3 | 3/21 | | | | | |
| Fessenden | 11 | 2.4 | 2/18 | | | | | | | | | | | | | | | | |
| Fessenden, 3 E | | | | 10 | 2.3 | 3/7 | | | | | | | | | | | | | |
| Fessenden, 10 W | | | | 15 | 3.5 | 3/7 | | | | | | | | | | | | | |
| Finley | - | 2.7 | 2/28 | | | | | | | | | | | | | | | | |
| Fordville, 1 E | | | | | | | | | | | | | 13 | 4.4 | 3/24 | | | | |
| Forman | 11 | 3.4 | 1/21 | 35 | 4.5 | 3/7 | 35 | 4.5 | 3/11 | 22 | 4.5 | 3/18 | 16 | 3.6 | 3/25 | 10 | 3.0 | 3/31 | |
| " | 26 | 3.4 | 2/7 | | | | 26 | 4.7 | 3/12 | 22 | 4.7 | 3/21 | | | | 1 | 0.3 | 4/4 | |
| " | 31 | 4.0 | 2/21 | | | | | | | | | | | | | | | | |
| " | 15 | 4.3 | 2/25 | | | | | | | | | | | | | | | | |
| " | 33 | 4.5 | 2/28 | | | | | | | | | | | | | | | | |
| Fort Ranjom | | | | 14 | 5.1 | 3/7 | | | | | | | | | | | | | |
| Foxholm, 7 N | | | | 26 | 3.6 | 3/5 | | | | | | | | | | | | | |
| Fullerton | 23 | 4.0 | 2/3 | | | | | | | | | | | | | | | | |
| Galchutt | 14 | 3.6 | 2/22 | | | | | | | | | | | | | | | | |
| Geneseo | 20 | 4.6 | 1/30 | | | | | | | | | | | | | | | | |
| Gladstone, 3 S | | | | | | | | | 10 | 2.6 | 3/12 | | | | | | | | |
| Gladstone, 2 NW | 6 | 1.7 | 2/13 | | | | | | | | | | | | | | | | |
| Glen Ullin | 10 | 2.0 | 1/20 | 17 | 3.4 | 3/1 | 16 | 3.2 | 3/14 | 12 | 4.8 | 3/21 | 9 | 2.8 | 3/25 | 6 | 2.6 | 4/1 | |
| " | 14 | 2.9 | 1/31 | | | | | | | | | | 9 | 3.2 | 3/28 | | | | |
| " | 6 | 1.2 | 2/13 | | | | | | | | | | | | | | | | |
| " | | | | | | | | | | | | | | | | | | | |
| Glen Ullin | 17 | 3.7 | 2/25 | | | | | | | | | | | | | | | | |
| Glen Ullin, 10 SE | | | | | | | | | 13 | 3.5 | 3/10 | | | | | | | | |
| Grafton | 9 | 2.3 | 2/5 | | | | | | | | | | | | | | | | |
| Grand Forks | 20 | 4.2 | 2/7 | 14 | 3.0 | 3/7 | 14 | 3.4 | 3/11 | 10 | 2.9 | 3/18 | 8 | 2.2 | 3/24 | 5 | 1.8 | 3/31 | |
| " | 16 | 3.4 | 2/14 | | | | | | | 9 | 2.3 | 3/21 | 6 | 2.0 | 3/28 | 4 | 1.5 | 4/4 | |

TABLE 10.—Depth of snow on ground and water equivalent, in inches, for February–April 1969, North Dakota.—Continued

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/8 | | |
|----------------------------|--------------|-----|------|-------|-----|------|--------|-----|------|---------|-----|------|---------|------|------|----------|-----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date |
| Grand Forks | 15 | 3.2 | 2/21 | | | | | | | | | | | | | | | |
| " " | 16 | 3.2 | 2/28 | | | | | | | | | | | | | | | |
| Grand Rapids | | | | 15 | 4.5 | 3/6 | | | | | | | | | | | | |
| Grassy Butte | 7 | 1.9 | 1/22 | | | | | | | | | | | | | | | |
| " " | 10 | 2.4 | 2/24 | | | | | | | | | | | | | | | |
| Great Bend | | | | | | | | | | | | | 17 | 5.9 | 3/26 | | | |
| Halliday | 6 | 1.1 | 1/22 | | | | | | | | | | | | | | | |
| " " | 12 | 2.2 | 2/24 | | | | | | | | | | | | | | | |
| Hankinson | 24 | 5.8 | 1/30 | | | | | | | | | | | | | | | |
| Hankinson, 8 ESE | | | | | | | 13 | 4.2 | 3/13 | | | | | | | | | |
| Hankinson, 13 SE | | | | | | | 12 | 4.0 | 3/13 | | | | | | | | | |
| Hankinson, 9 SW | | | | | | | 15 | 4.4 | 3/13 | | | | | | | | | |
| Hankinson, 2 W | | | | | | | 15 | 4.9 | 3/13 | | | | | | | | | |
| Harvey | 10 | 1.8 | 1/21 | | | | | | | | | | 13 | 3.5 | 3/22 | | | |
| Harvey, 4 N | 13 | 2.9 | 2/25 | | | | | | | | | | 12 | 3.1 | 3/22 | | | |
| Harvey, 4 E | 11 | 2.2 | 2/18 | | | | | | | | | | | | | | | |
| Hatton, 5 SE | | | | | | | | | | | | | 14 | 4.4 | 3/22 | | | |
| Hazleton | 12 | 3.1 | 1/21 | | | | | | | | | | | | | | | |
| " " | 18 | 4.3 | 2/24 | | | | | | | | | | | | | | | |
| Hettinger | 12 | 3.2 | 2/28 | 12 | 3.2 | 3/6 | 13 | 3.7 | 3/14 | | | | T | T | 3/25 | | | |
| Hettinger, 3 NW | 14 | 2.8 | 2/28 | | | | | | | | | | | | | | | |
| Horace, 5 SE | 14 | 3.5 | 2/22 | | | | | | | | | | | | | | | |
| Hurdsfield | 8 | 1.3 | 1/22 | | | | | | | | | | | | | | | |
| " " | 12 | 2.4 | 2/25 | | | | | | | | | | | | | | | |
| International Peace Garden | | | | | | | | | | | | | 27 | 6.1 | 3/21 | | | |
| Jamestown | 9 | 2.7 | 1/21 | | | | | | | | | | | | | | | |
| " " | 14 | 4.5 | 2/25 | | | | | | | | | | | | | | | |
| Jamestown, 6 E | 16 | 5.1 | 2/24 | | | | | | | | | | | | | | | |
| Jud | | | | | | | | | | | | | | | | 8 | 3.2 | 4/1 |
| Kathryn | 19 | 2.9 | 2/3 | | | | | | | | | | | | | | | |
| Kenmare | 10 | 2.3 | 2/18 | 15 | 2.6 | 3/5 | | | | | | 12 | 3.7 | 3/21 | | | | |
| Kensal, 4 W | 14 | 2.5 | 2/18 | | | | | | | | | | | | | | | |
| Kindred | 25 | 4.9 | 2/3 | | | | | | | | | | | | | | | |
| Lake Metigoshe | | | | 36 | 6.5 | 3/2 | | | | | | | 33 | 7.2 | 3/21 | | | |
| Lakota | 9 | 2.8 | 2/5 | | | | | | | | | | | | | | | |
| La Moure, 1 N | | | | 20 | 5.8 | 3/6 | | | | | | | | | | | | |
| La Moure, 2 E | | | | 26 | 6.5 | 3/7 | | | | | | | | | | | | |
| La Moure, 5 W | | | | | | | | | | | | | | | | 9 | 3.3 | 4/1 |
| Langdon | 10 | 2.6 | 2/5 | | | | | | | | | | | | | | | |
| Larimore | 20 | 3.1 | 2/7 | | | | | | | | | | 15 | 4.6 | 3/22 | 12 | 2.8 | 3/31 |
| " " | | | | | | | | | | | | | 20 | 4.8 | 3/25 | | | |
| " " | | | | | | | | | | | | | 12 | 2.8 | 3/28 | | | |
| Lefor | | | | | | | 12 | 3.1 | 3/22 | | | | | | | | | |
| Leonard | 11 | 3.5 | 2/3 | | | | | | | | | 11 | 3.6 | 3/21 | | | | |
| Lidgerwood | | | | | | | 17 | 5.4 | 3/13 | | | | | | | | | |
| Lisbon | 21 | 4.5 | 2/7 | 20 | 2.1 | 3/7 | 19 | 3.9 | 3/11 | 14 | 4.8 | 3/18 | 10 | 3.1 | 3/25 | 10 | 3.1 | 3/31 |
| " " | 20 | 4.3 | 2/14 | | | | | | | 14 | 4.0 | 3/21 | 9 | 3.0 | 3/28 | 16 | 2.5 | 4/4 |
| " " | 22 | 5.6 | 2/21 | | | | | | | | | | | | | 4 | 1.3 | 4/8 |
| " " | 22 | 4.9 | 2/28 | | | | | | | | | | | | | | | |
| Lostwood, 12 N | | | | 20 | 3.4 | 3/5 | | | | | | | | | | | | |
| Lucca | | | | | | | | | | | | | 6 | 1.9 | 3/21 | | | |
| Ludden | 18 | 5.0 | 2/25 | | | | | | | | | | | | | | | |
| Manvel | | | | | | | | | | | | | 6 | 1.7 | 3/22 | | | |
| Marmarth | 8 | 1.8 | 1/20 | | | | | | | | | | | | | | | |
| " " | 11 | 2.4 | 2/24 | | | | | | | | | | | | | | | |
| Mayville | 15 | 2.9 | 2/7 | 11 | 3.1 | 3/7 | 10 | 3.0 | 3/11 | 9 | 2.9 | 3/18 | 8 | 2.8 | 3/25 | 8 | 2.9 | 3/31 |
| " " | 14 | 2.8 | 2/14 | | | | | | | 9 | 2.9 | 3/21 | 8 | 2.8 | 3/28 | 5 | 2.1 | 4/8 |
| " " | 14 | 2.9 | 2/21 | | | | | | | | | | | | | | | |
| " " | 11 | 3.1 | 2/28 | | | | | | | | | | | | | | | |
| Mayville, 11 NNW | | | | | | | | | | | | | 8 | 3.3 | 3/21 | 8 | 3.3 | 3/22 |
| McHenry, 5 N | | | | 13 | 2.9 | 3/1 | | | | | | | | | | | | |
| McLeod, 3 E | 15 | 3.6 | 2/7 | 14 | 3.4 | 3/7 | 14 | 3.5 | 3/11 | 12 | 3.7 | 3/18 | 18 | 3.9 | 3/21 | 13 | 3.8 | 3/31 |
| " " | 14 | 3.6 | 2/14 | | | | | | | | | | 12 | 3.8 | 3/25 | 7 | 1.9 | 4/4 |
| " " | 14 | 3.0 | 2/21 | | | | | | | | | | | | | T | T | 4/8 |
| " " | 13 | 3.4 | 2/28 | | | | | | | | | | | | | | | |
| Medina | 3 | 0.6 | 1/21 | | | | | | | | | | | | | | | |
| Medora | 17 | 3.1 | 2/28 | 17 | 2.9 | 3/6 | 18 | 2.9 | 3/14 | 5 | 2.1 | 3/21 | 5 | 1.1 | 3/25 | | | |
| Melville, 5 WSW | | | | | | | | | | | | | | | | 13 | 4.3 | 4/2 |
| Mercer | 7 | 1.6 | 2/25 | | | | | | | | | | | | | | | |
| Millerton | | | | | | | | | | | | | | | | 4 | 2.2 | 4/2 |

TABLE 10.—*Depth of snow on ground and water equivalent, in inches, for February–April 1969, North Dakota.—Continued*

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/8 | | | | | |
|--------------------|--------------|-----|------|-------|-----|------|--------|----|------|---------|-----|------|---------|------|------|----------|------|------|------|-----|-----|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | | | |
| Milton, 4 NW | | | | | | | | | | | | 17 | 5.2 | 3/24 | | | | | | | |
| Minot | 10 | 1.4 | 1/21 | | | | | | | 13 | 3.1 | 3/21 | | | | | | | | | |
| " | 13 | 1.9 | 2/24 | | | | | | | | | | | | | | | | | | |
| Minto | 9 | 2.4 | 2/5 | | | | | | | | | | | | | | | | | | |
| Mohall | 7 | 1.8 | 2/18 | | | | | | | 10 | 3.0 | 3/21 | | | | | | | | | |
| Montpelier | 15 | 3.2 | 2/3 | | | | | 14 | 3.8 | 3/8 | | | | | | | | | | | |
| Mooretown | | | | | | | | 17 | 5.0 | 3/13 | | | 12 | 3.8 | 3/26 | | | | | | |
| Mott | 7 | 2.0 | 1/20 | 20 | 2.7 | 3/6 | | 22 | 2.9 | 3/14 | 10 | 3.0 | 3/21 | 5 | 1.5 | 3/25 | T | T | 4/1 | | |
| " | 15 | 1.7 | 2/21 | | | | | | | | | | 2 | 0.9 | 3/28 | | | | | | |
| " | 12 | 2.2 | 2/24 | | | | | | | | | | | | | | | | | | |
| Mott, 5 N | 12 | 1.6 | 2/3 | | | | | | | | | | | | | | | | | | |
| Neche, 2 N | | | | | | | | | | | | | 9 | 2.2 | 3/24 | | | | | | |
| New England | 15 | 2.3 | 2/3 | 10 | 2.7 | 3/6 | | 13 | 3.0 | 3/14 | 3 | 1.0 | 3/21 | | | | | | | | |
| " | 15 | 4.0 | 2/12 | | | | | | | | | | | | | | | | | | |
| " | 5 | 1.2 | 2/3 | | | | | | | | | | | | | | | | | | |
| New England, 8 S | | | | | | | | | | | | | | | | | | | | | |
| New Rockford | 12 | 2.3 | 1/22 | | | | | | | | | | | | | | | | | | |
| " | 17 | 3.8 | 2/25 | | | | | | | | | | | | | | | | | | |
| New Rockford, 3 SW | 10 | 2.4 | 2/18 | 11 | 3.0 | 3/7 | | | | | | | | | | | | | | | |
| New Salem | 15 | 4.0 | 2/21 | 24 | 3.1 | 3/6 | | | | | | 16 | 4.5 | 3/21 | 6 | 2.7 | 3/28 | | | | |
| Nome | 9 | 2.7 | 1/21 | | | | | | | | | | | | | | | | | | |
| Nome | 13 | 3.7 | 2/25 | | | | | | | | | | | | | | | | | | |
| Nome, 5 SW | | | | 12 | 3.1 | 3/7 | | | | | | | | | | | | | | | |
| Northwood, 2 NE | 11 | 3.3 | 2/4 | | | | | | | | | | 13 | 3.6 | 3/22 | | | | | | |
| Nortonville, 3 SE | | | | | | | | | | | | | | | | | 9 | 3.7 | 4/1 | | |
| Park River | 20 | 2.8 | 2/7 | | | | | | | | | | | | | 15 | 3.7 | 3/31 | | | |
| " | | | | | | | | 23 | 3.1 | 3/4 | 16 | 3.0 | 3/18 | 15 | 3.1 | 3/28 | 8 | 3.0 | 4/8 | | |
| Park River | 18 | 2.8 | 2/14 | | | | | | | | | | | | | | | | | | |
| " | 13 | 2.8 | 2/21 | | | | | | | | | | | | | | | | | | |
| " | 21 | 2.9 | 2/28 | | | | | | | | | | | | | | | | | | |
| Parshall | 9 | 1.4 | 1/22 | | | | | | | | | | | | | | | | | | |
| " | 15 | 2.8 | 2/24 | | | | | | | | | | | | | | | | | | |
| Pekin | 15 | 2.9 | 2/6 | | | | | | | | | | | | | | | | | | |
| Pembina, 1 S | 12 | 2.6 | 2/7 | 12 | 2.7 | 3/7 | | 12 | 2.7 | 3/11 | 9 | 2.6 | 3/18 | 8 | 2.6 | 3/25 | 6 | 2.2 | 3/31 | | |
| " | 24 | 2.6 | 2/14 | | | | | | | | 9 | 2.6 | 3/21 | 6 | 2.3 | 3/28 | 5 | 1.6 | 4/4 | | |
| " | 18 | 2.5 | 2/21 | | | | | | | | | | | | | | T | T | 4/8 | | |
| Petersburg, 2 N | | | | | | | | | | | | | | | 8 | 3.1 | 3/24 | | | | |
| Pillsbury | | | | | | | | | | | | 13 | 4.4 | 3/21 | | | | | | | |
| Pingree, 2 E | | | | 13 | 3.3 | 3/7 | | | | | | | | | | | | | | | |
| Pingree, 2 S | 9 | 2.2 | 2/18 | | | | | | | | | | | | | | | 9 | 3.9 | 4/2 | |
| Pingree, 3 W | | | | | | | | | | | | | | | | | | | | | |
| Reeder, 11 NNE | 4 | 1.0 | 2/3 | | | | | | | | | | | | | | | | | | |
| Reeder, 12 NNW | 16 | 3.5 | 2/28 | 17 | 5.1 | 3/6 | | 17 | 5.1 | 3/14 | 6 | 2.4 | 3/21 | 5 | 2.3 | 3/25 | | | | | |
| " | | | | | | | | | | | | | | 3 | 1.4 | 3/28 | | | | | |
| Reynolds | | | | | | | | | | | | | | 17 | 4.5 | 3/22 | | | | | |
| Richardton | 15 | 2.7 | 2/27 | | | | | 18 | 3.5 | 3/13 | 6 | 2.3 | 3/20 | 2 | 0.8 | 3/28 | 1 | 0.6 | 4/1 | | |
| Richardton, 5 S | | | | 14 | 3.1 | 3/4 | | | | | | | | | | | | | | | |
| Richardton, 9 S | 10 | 2.3 | 2/13 | | | | | | | | | | | | | | | | | | |
| Richardton, 12 S | | | | | | | | 10 | 2.5 | 3/12 | | | | | | | | | | | |
| Riverdale | 13 | 2.2 | 2/25 | | | | | | | | | | | 10 | 3.3 | 3/25 | | | | | |
| Rolette | | | | | | | | | | | | | | 14 | 4.0 | 3/22 | | | | | |
| Rolla | | | | | | | | | | | | 31 | 7.0 | 3/20 | | | | | | | |
| Rugby | | | | 13 | 3.7 | 3/2 | | | | | | | | | | | | | | | |
| San Haven | | | | 22 | 5.8 | 3/2 | | | | | | | | | | | | | | | |
| Selfridge | 12 | 2.5 | 2/24 | | | | | | | | | | | | | | | | | | |
| Sheldon | | | | | | | | | | | | 14 | 4.6 | 3/21 | | | | | | | |
| Sheyenne | 8 | 2.6 | 2/6 | | | | | | | | | | | | | | | | | | |
| Souris | | | | 15 | 4.2 | 3/2 | | | | | | | | | | | | | | | |
| Spiritwood, 5 S | | | | | | | | | | | | | | | | | | | | | |
| Stanley | 7 | 1.3 | 1/22 | | | | | | | | | | | | | | | | | | |
| " | 12 | 2.2 | 2/24 | | | | | | | | | | | | | | | | | | |
| Starloweather | | | | | | | | | | | | | | | | | | | | | |
| " | | | | | | | | | | | | | | | | | | | | | |
| Steel | 9 | 1.8 | 1/27 | | | | | | | | | | | | | | | | | | |
| " | 12 | 3.1 | 2/25 | | | | | | | | | | | | | | | | | | |
| Sykeston | | | | | | | | | | | | | | | | | | | | | |
| Tower City | | | | | | | | | | | | | | | | | | | | | |
| Towner | 8 | 1.9 | 2/18 | 15 | 2.8 | 3/2 | | | | | | 8 | 2.8 | 3/21 | | | | | 7 | 3.7 | 4/2 |
| Tyler | | | | | | | | | | | | | | | | | | | | | |
| Valley City | 15 | 3.8 | 2/7 | 9 | 2.6 | 3/7 | | 21 | 6.9 | 3/13 | | | | | | | | | | | |
| " | 14 | 3.9 | 2/14 | | | | | 9 | 2.7 | 3/11 | 6 | 1.5 | 3/18 | 5 | 1.3 | 3/25 | 7 | 1.7 | 3/31 | | |
| " | 10 | 2.7 | 2/21 | | | | | | | | 7 | 1.9 | 3/21 | 7 | 1.7 | 3/28 | 5 | 1.0 | 4/4 | | |
| " | 10 | 2.6 | 2/28 | | | | | | | | | | | | | | T | T | 4/8 | | |

TABLE 10.—*Depth of snow on ground and water equivalent, in inches, for February–April 1969, North Dakota.—Continued*

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/8 | | |
|--------------------|--------------|-----|------|-------|-----|------|--------|-----|------|---------|-----|------|---------|-----|------|----------|-----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date |
| Valley City, 4 E | 22 | 5.6 | 2/24 | | | | | | | | | | | | | | | |
| Valley City, 4 W | 14 | 5.0 | 2/24 | | | | | | | | | | | | | | | |
| Vang | | | | | | | | | | | | | 18 | 4.3 | 3/24 | | | |
| Velva | 11 | 1.8 | 2/17 | | | | | | | | | | | | | | | |
| Verona | 20 | 6.1 | 2/3 | 18 | 6.0 | 3/7 | | | | | | | | | | | | |
| Wahpeton | 25 | 5.2 | 2/7 | 20 | 5.3 | 3/7 | 20 | 5.3 | 3/11 | 17 | 5.2 | 3/18 | 14 | 4.7 | 3/25 | 13 | 4.7 | 3/31 |
| " | 24 | 5.2 | 2/14 | | | | | | | 16 | 5.2 | 3/21 | 12 | 4.0 | 3/28 | 10 | 3.4 | 4/4 |
| " | 22 | 5.5 | 2/21 | | | | | | | | | | | | | 7 | 2.5 | 4/8 |
| " | 20 | 5.4 | 2/22 | | | | | | | | | | | | | | | |
| " | 20 | 5.3 | 2/28 | | | | | | | | | | | | | | | |
| Walcott | | | | | | | | | | | | | 16 | 4.9 | 3/26 | | | |
| Walhalla | 16 | 2.1 | 2/7 | 21 | 2.9 | 3/7 | 24 | 3.0 | 3/11 | 20 | 2.9 | 3/18 | 9 | 1.2 | 3/25 | T | T | 4/4 |
| " | 14 | 2.1 | 2/14 | | | | | | | 15 | 2.8 | 3/21 | | | | | | |
| " | 15 | 2.1 | 2/21 | | | | | | | | | | | | | | | |
| " | 15 | 2.1 | 2/28 | | | | | | | | | | | | | | | |
| Warwick | | | | 14 | 3.2 | 3/1 | | | | 13 | 3.1 | 3/20 | | | | | | |
| Watford City | 11 | 2.3 | 1/22 | | | | | | | | | | | | | | | |
| " | 17 | 4.6 | 2/25 | | | | | | | | | | | | | | | |
| Watford City, 11 E | 12 | 3.1 | 2/25 | | | | | | | | | | | | | | | |
| Watford City, 14 S | 15 | 3.5 | 2/21 | 16 | 3.5 | 3/7 | 16 | 3.5 | 3/14 | 7 | 2.2 | 3/21 | T | T | 3/25 | T | T | 4/1 |
| Watford City, 14 S | 17 | 4.1 | 2/25 | | | | | | | | | | T | T | 3/28 | | | |
| Westhope | | | | | | | | | | 15 | 3.6 | 3/21 | | | | | | |
| Whitman, 1 SE | | | | 16 | 3.4 | 3/5 | | | | | | | 8 | 3.3 | 3/24 | | | |
| Wildrose | | | | | | | | | | | | | | | | | | |
| Williston, 5 W | 10 | 2.7 | 1/26 | | | | | | | | | | | | | | | |
| Wilton | 5 | 1.0 | 1/20 | | | | | | | | | | | | | | | |
| " | 7 | 1.7 | 2/24 | | | | | | | | | | | | | | | |
| Woodworth, 5 E | | | | | | | | | | | | | | | | 20 | 6.0 | 4/2 |
| Wydmere | 13 | 3.7 | 2/3 | 23 | 6.4 | 3/1 | | | | | | | 8 | 3.0 | 3/26 | | | |
| Ypsilanti | | | | | | | | | 13 | 4.1 | 3/8 | | | | | 7 | 2.7 | 4/1 |
| Zealand | 6 | 2.2 | 1/21 | | | | | | | | | | | | | | | |
| " | 9 | 2.3 | 2/24 | | | | | | | | | | | | | | | |

TABLE 11.—Depth of snow on ground and water equivalent, in inches, for South Dakota.

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/3 | | | | | |
|-------------------|--------------|-----|------|-------|------|------|--------|------|------|---------|-----|------|---------|------|------|----------|------|------|-----|------|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | | | |
| Academy | 16 | 4.1 | 2/21 | | | | | | | | | 1 | 0.4 | 3/28 | | | | | | | |
| Alcester | | | | | | | | | | | | 14 | 5.7 | 3/27 | | | | | | | |
| Alcester, 5 N | | | | | | | | | | | | 12 | 5.6 | 3/27 | | | | | | | |
| Alcester, 5 W | | | | | | | | | | | | 19 | 7.6 | 3/27 | | | | | | | |
| Alexandria | 18 | 4.9 | 2/28 | 17 | 4.7 | 3/7 | 15 | 4.9 | 3/14 | 8 | 4.0 | 3/21 | 4 | 1.6 | 3/28 | | | | | | |
| Altamont, 4 N | 14 | 3.3 | 2/25 | | | | | | | 16 | 4.8 | 3/21 | | | | 16 | 5.0 | 3/30 | | | |
| " | | | | | | | | | | | | | | | | 12 | 4.3 | 4/2 | | | |
| Andover, 8 NNE | 44 | 7.5 | 2/21 | 36 | 8.1 | 3/7 | | | | | | 9 | 3.4 | 3/28 | | | | | | | |
| Angostura Dam | 4 | 0.5 | 2/21 | 3 | 0.8 | 3/7 | 1 | 0.6 | 3/14 | | | | | | | | | | | | |
| " | 4 | 0.8 | 2/28 | | | | | | | | | | | | | | | | | | |
| Arlington | 29 | 6.0 | 2/21 | | | | | | | | | 24 | 6.4 | 3/21 | 20 | 7.5 | 3/28 | 11 | 4.2 | 3/30 | |
| " | 31 | 7.5 | 2/28 | | | | | | | | | | | | | | | 9 | 3.5 | 4/2 | |
| Armour | | | | | | | | | | | | | | | | | | 7 | 3.0 | 4/3 | |
| Ashton | 13 | 4.6 | 2/28 | | | | | | | | | 9 | 2.8 | 3/28 | | | | | | | |
| Avon | 7 | 2.7 | 2/26 | | | | | | | | | | | | | | | | | | |
| Baltic, 2 N | | | | | | | 22 | 8.4 | 3/10 | | | | | | | | | | | | |
| Barnard | | | | | | | | | | | | 19 | 6.1 | 3/28 | | | | | | | |
| Belle Fourche | 2 | 0.2 | 2/28 | | | | | | | | | | | | | | | | | | |
| Beresford | 14 | 4.3 | 2/24 | | | | | | | | | 12 | 4.6 | 3/22 | | | | 8 | 3.8 | 3/29 | |
| Beresford, 4 N | | | | | | | | | | | | 19 | 6.9 | 3/27 | | | | | | | |
| Beresford, 1 E | | | | | | | | | | | | 10 | 4.5 | 3/27 | | | | | | | |
| Big Bend Dam | 11 | 2.6 | 2/25 | | | | | | | | | | | | | | | | | | |
| " | 13 | 3.2 | 2/28 | | | | | | | | | | | | | | | | | | |
| Blunt | | | | | | | 5 | 1.9 | 2/14 | | | | | | | | | | | | |
| Bonilla | | | | | | | | | | | | 12 | 4.2 | 3/28 | | | | | | | |
| Bowdle | 9 | 3.0 | 2/21 | 17 | 5.0 | 3/7 | | | | 10 | 5.0 | 3/21 | | | | | | | | | |
| Bradley | | | | | | | | | | | | 10 | 3.9 | 3/28 | | | | | | | |
| Brandon | | | | | | | | | | 22 | 6.3 | 3/19 | | | | | | | | | |
| Brentford | 9 | 2.4 | 2/25 | | | | | | | | | | | | | | | | | | |
| Bridgewater | 35 | 7.2 | 2/21 | | | | 23 | 6.9 | 3/14 | 13 | 3.7 | 3/21 | 9 | 3.5 | 3/28 | | | | | | |
| Bridgewater | 25 | 7.1 | 2/28 | | | | | | | | | | | | | | | | | | |
| Bristol | | | | | | | | | | | | 12 | 4.8 | 3/28 | | | | | | | |
| Britton | 26 | 7.1 | 2/21 | | | | | | | | | 16 | 5.8 | 3/28 | | | | | | | |
| Brookings | 32 | 7.7 | 2/28 | 26 | 8.0 | 3/7 | | | | | | | | | | | | | | | |
| Brookings, 2 N | | | | | | | | | | | | 21 | 4.5 | 3/20 | | | | | | | |
| Brookings, 3 N | | | | | | | 32 | 10.4 | 3/7 | | | 21 | 4.5 | 3/20 | | | | 15 | 5.2 | 3/31 | |
| " | | | | | | | | | | | | | | | | | | 14 | 4.5 | 4/2 | |
| Brookings, 11 N | 16 | 4.5 | 2/25 | | | | | | | | | 21 | 4.5 | 3/20 | | | | 18 | 6.4 | 4/3 | |
| Brookings, 2 NE | 34 | 6.5 | 2/21 | 32 | 10.4 | 3/7 | 31 | 9.9 | 3/14 | 31 | 7.5 | 3/21 | | | | | | 14 | 5.0 | 3/31 | |
| Brookings, 10 S | | | | | | | | | | | | | | | | | | 12 | 4.6 | 4/2 | |
| Brookings, 10 S | | | | | | | | | | | | | | | | | | 6 | 2.7 | 4/3 | |
| Bryant, 1 NE | 24 | 6.5 | 2/7 | | | | 36 | 6.3 | 3/14 | 18 | 7.0 | 3/21 | 18 | 6.0 | 3/28 | | | | | | |
| Bryant, 4 W | | | | | | | | | | 17 | 5.3 | 3/21 | | | | | | 14 | 4.7 | 3/30 | |
| Bryant, 4 NW | | | | | | | | | | | | | | | | | | 10 | 3.8 | 4/2 | |
| " | | | | | | | | | | | | | | | | | | | | | |
| Buffalo | 7 | 2.1 | 2/26 | | | | | | | | | | | | | | | | | | |
| Buffalo Gap | 6 | 0.5 | 2/21 | | | | 3 | 0.7 | 3/14 | | | | | | | | | | | | |
| " | 5 | 0.9 | 2/28 | | | | | | | | | | | | | | | | | | |
| Buskala Ranch | 14 | 2.7 | 2/21 | 16 | 3.3 | 3/7 | 16 | 3.6 | 3/14 | 16 | 3.4 | 3/21 | 16 | 3.4 | 3/28 | | | 12 | 3.6 | 4/3 | |
| " | 16 | 2.9 | 2/28 | | | | | | | | | | | | | | | | | | |
| Canistota, 3 W | | | | 24 | 7.7 | 3/6 | | | | | | | | | | | | | | | |
| Canova | | | | 21 | 6.2 | 3/6 | | | | | | | | | | | | | | | |
| Canton | | | | | | | | | | | | 16 | 6.1 | 3/22 | | | | 12 | 4.9 | 3/29 | |
| " | | | | | | | | | | | | | | | | | | 11 | 4.3 | 4/1 | |
| Canton, 6 W | | | | 18 | 7.2 | 3/6 | | | | | | | | | | | | | | | |
| Carthage | 27 | 7.1 | 2/4 | | | | | | | | | | | | | | | | | | |
| Castlewood | 27 | 6.1 | 2/5 | 25 | 6.3 | 3/7 | | | | 22 | 5.6 | 3/21 | 16 | 5.1 | 3/28 | | | | | | |
| " | 26 | 5.6 | 2/21 | | | | | | | | | | | | | | | | | | |
| " | 30 | 6.4 | 2/18 | | | | | | | | | | | | | | | | | | |
| Centerville, 6 SE | 36 | 8.5 | 2/21 | 18 | 7.6 | 3/6 | 18 | 5.9 | 3/14 | 10 | 4.6 | 3/21 | 6 | 3.9 | 3/28 | | | | | | |
| Centerville, 6 SE | 30 | 8.8 | 2/28 | 20 | 7.6 | 3/7 | | | | | | | | | | | | | | | |
| Chamberlain | 12 | 4.1 | 2/21 | | | | | | | | | | | | | | | | | | |
| Chester | | | | | | | | | | 25 | 8.0 | 3/14 | 20 | 8.1 | 3/21 | 16 | 6.1 | 3/28 | 12 | 4.7 | 3/29 |
| " | | | | | | | | | | | | | | | | | | 10 | 4.7 | 4/1 | |
| Chester, 2 N | | | | 22 | 6.4 | 3/6 | | | | | | | | | | | | | | | |
| Chester, 7 SE | | | | | | | | | | | | | | | | | | 8 | 3.3 | 4/3 | |
| Chester, 5 S | 24 | 6.0 | 2/4 | | | | | | | | | | | | | | | | | | |
| Chester, 3 W | | | | | | | | | | | | | | | | | | 11 | 4.0 | 4/3 | |
| Claire City | | | | | | | | | | | | 4 | 3.0 | 3/26 | | | | | | | |
| Clark | 19 | 4.4 | 2/21 | 24 | 6.2 | 3/7 | 24 | 5.6 | 3/14 | 20 | 6.9 | 3/21 | 15 | 5.3 | 3/28 | | | 6 | 2.5 | 4/3 | |

TABLE 11.—*Depth of snow on ground and water equivalent, in inches, for South Dakota.—Continued*

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/3 | | | | |
|--------------------|--------------|------|------|-------|------|------|--------|------|------|---------|------|------|---------|-----|------|----------|-----|------|-----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | | |
| Clark | 26 | 5.1 | 2/28 | | | | | | | | | | | | | | | | | |
| Clark, 10E | | | | | | | | | 8 | 3.0 | 3/21 | | | | | 11 | 3.8 | 3/30 | | |
| Clear Lake | 36 | 8.4 | 2/5 | | | | | | | | | | 18 | 5.9 | 3/28 | 6 | 2.8 | 4/3 | | |
| Clear Lake, 2 N | 36 | 6.4 | 2/21 | | | | | | | | | | | | | 11 | 4.4 | 3/31 | | |
| " " | | | | | | | | | | | | | | | | 6 | 3/0 | 4/2 | | |
| Colton | 27 | 6.0 | 2/28 | | | | 22 | 6.8 | 3/14 | 17 | 6.7 | 3/21 | | | | 15 | 5.5 | 3/29 | | |
| " " | | | | 22 | 5.9 | 3/4 | | | | | | | | | | 11 | 4.6 | 4/1 | | |
| " " | | | | | | | | | | | | | | | | 6 | 2.0 | 4/3 | | |
| Conde | 27 | 5.7 | 2/21 | 36 | 10.1 | 3/7 | 37 | 10.2 | 3/14 | 2.8 | 9.1 | 3/21 | 22 | 8.8 | 3/28 | 6 | 3.0 | 4/3 | | |
| " " | 36 | 10.3 | 2/28 | | | | | | | | | | | | | | | | | |
| Cottonwood, 2 E | 6 | 1.5 | 2/28 | | | | 7 | 1.8 | 3/7 | 9 | 1.9 | 3/14 | | | | | | | | |
| Crooks | | | | 23 | 7.7 | 3/4 | 22 | 7.6 | 3/14 | | | | | | | | | | | |
| " " | | | | 16 | 5.2 | 3/7 | | | | | | | | | | | | | | |
| Deadwood | 2 | 0.3 | 2/28 | | | | 3 | 0.3 | 3/14 | | | | 5 | 0.8 | 3/28 | | | | | |
| Deerfield, 4 NW | 14 | 2.7 | 2/21 | | | | | | | | | | | | | | | | | |
| Deerfield, 4 NW | 16 | 2.9 | 2/28 | | | | | | | | | | | | | | | | | |
| De Smet, 10 S | 11 | 2.8 | 2/26 | | | | | | | | | | | | | | | | | |
| De Smet, 11 S | | | | | | | | | | 12 | 4.3 | 3/21 | | | | 11 | 4.2 | 3/30 | | |
| " " | | | | | | | | | | | | | | | | 7 | 2.3 | 4/2 | | |
| Doland | | | | | | | | | | | | | 16 | 6.2 | 3/28 | | | | | |
| Dupree | 21 | 2.9 | 2/28 | 21 | 3.0 | 3/7 | 20 | 3.0 | 3/14 | | | | | | | | | | | |
| Eagle Butte | 28 | 3.0 | 2/21 | 30 | 4.0 | 3/7 | | | | 15 | 2.5 | 3/21 | | | | | | | | |
| Eureka | | | | | | | 18 | 6.3 | 3/14 | | | | 9 | 3.6 | 3/28 | | | | | |
| Faith | 9 | 2.5 | 2/27 | | | | | | | | | | | | | | | | | |
| Faulkton, 4 E | 9 | 2.3 | 2/25 | | | | | | | | | | | | | | | | | |
| Faulkton, 1 NW | 20 | 3.5 | 2/28 | | | | 21 | 3.4 | 3/14 | 14 | 3.1 | 3/21 | 4 | 2.1 | 3/28 | | | | | |
| Ferney | | | | | | | | | | | | | 18 | 5.5 | 3/28 | | | | | |
| Flandreau | 23 | 4.9 | 2/21 | 23 | 6.1 | 3/7 | 22 | 6.0 | 3/14 | 19 | 5.8 | 3/21 | 17 | 6.4 | 3/28 | 10 | 4.1 | 4/3 | | |
| " " | 24 | 6.8 | 2/28 | | | | | | | | | | | | | | | | | |
| Flandreau, 3 S | | | | | | | | | | 12 | 4.5 | 3/20 | | | | 11 | 4.0 | 3/31 | | |
| Flandreau, 3 S | | | | | | | | | | | | | | | | 8 | 3.5 | 4/2 | | |
| Forestburg, 3 NE | 43 | 6.3 | 2.28 | | | | | | | 20 | 6.6 | 3/21 | 12 | 5.6 | 3/28 | | | | | |
| Fort Meade | 2 | 0.3 | 2/28 | | | | 2 | 0.6 | 3/14 | | | | | | | | | | | |
| Fort Thompson, 5 E | 5 | 1.4 | 2/26 | | | | | | | | | | | | | | | | | |
| Freeman | 17 | 5.2 | 2/24 | | | | | | | | | | | | | | | | | |
| Gettysburg | 6 | 1.5 | 2/28 | 6 | 1.5 | 3/7 | 18 | 3.7 | 3/14 | | | | | | | | | | | |
| Gettysburg, 6 W | 9 | 2.6 | 2/25 | | | | | | | | | | | | | | | | | |
| Gettysburg, 14 W | 12 | 2.3 | 2/21 | | | | | | | | | | | | | | | | | |
| Gregory | | | | | | | | | | | | | - | 2.0 | 3/21 | | | | | |
| Glad Valley, 2 W | 25 | 4.5 | 2/28 | | | | | | | | | | 4 | 0.4 | 3/28 | | | | | |
| Harrington | 3 | 1.2 | 2/28 | 8 | 2.2 | 3/7 | 12 | 2.4 | 3/14 | | | | | | | | | | | |
| Hartford, 4 N | | | | | | | | | | | | | | | | 9 | 2.9 | 4/3 | | |
| Henry, 3 W | 12 | 3.3 | 2/26 | | | | | | | | | | | | | | | | | |
| Henry, 5 NW | | | | | | | | | | | | | | | | 10 | 3.3 | 3/30 | | |
| " " | | | | | | | | | | | | | | | | 7 | 2.4 | 4/2 | | |
| Highmore, 1 W | 10 | 1.2 | 2/21 | 11 | 2.5 | 3/7 | | | | 5 | 1.9 | 3/21 | | | | | | | | |
| Houghton | | | | | | | | | | | | | 16 | 5.8 | 3/28 | | | | | |
| Howard | 27 | 5.0 | 2/21 | 23 | 5.8 | 3/7 | | | | | | | 15 | 5.4 | 3/28 | 3 | 2.3 | 4/3 | | |
| " " | 25 | 5.6 | 2/28 | | | | | | | | | | | | | | | | | |
| Howard, 9 NE | | | | | | | | | | | | | | | | | | 11 | 4.2 | 3/29 |
| Howard, 9 NE | | | | | | | | | | | | | | | | | | | | |
| Humboldt | | | | 24 | 7.3 | 3/6 | | | | 22 | 8.2 | 3/20 | | | | 9 | 3.3 | 4/2 | | |
| " " | | | | | | | | | | 7 | 3.0 | 3/21 | | | | | | | | |
| Humboldt, 3 N | | | | | | | | | | | | | | | | 7 | 3.1 | 3/29 | | |
| " " | | | | | | | | | | | | | | | | T | T | 4/1 | | |
| Huron, 9 W | 9 | 2.3 | 2/26 | | | | | | | | | | | | | | | | | |
| Interior | 3 | 0.4 | 2/21 | | | | | | | | | | | | | | | | | |
| Interior, 3 NE | 5 | 0.5 | 2/28 | | | | | | | | | | | | | | | | | |
| Ipswich | | | | | | | | | | | | | 5 | 1.8 | 3/28 | | | | | |
| Iroquois | | | | | | | | | | | | | 11 | 4.5 | 3/28 | | | | | |
| Kadoka | 9 | 0.8 | 2/21 | | | | | | | | | | | | | | | | | |
| Kadoka, 7 W | 3 | 0.8 | 2/27 | | | | | | | | | | | | | | | | | |
| Kennebec | 6 | 1.5 | 2/28 | 4 | 1.3 | 3/7 | 4 | 1.5 | 3/14 | | | | | | | | | | | |
| Kimball, 2 S | 8 | 2.5 | 2/26 | | | | | | | | | | | | | | | | | |
| Lake Andes | 5 | 2.3 | 2/26 | | | | | | | | | | | | | | | | | |
| Lake Norden, 5 E | | | | | | | | | | | | | | | | 12 | 3.8 | 3/30 | | |
| " " | | | | | | | | | | | | | | | | 9 | 3.4 | 4/2 | | |
| Lane, 2 W | 9 | 2.6 | 2/26 | | | | | | | | | | | | | | | | | |
| Lead, 1 SE | 2 | 0.2 | 2/21 | | | | | | | | | | | | | | | | | |
| " " | 2 | 0.3 | 2/28 | | | | | | | | | | | | | | | | | |

TABLE 11.—Depth of snow on ground and water equivalent, in inches, for South Dakota.—Continued

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/3 | | | |
|------------------|--------------|-----|------|-------|-----|------|--------|-----|------|---------|-----|------|---------|-----|------|----------|-----|------|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | |
| Lemmon | 12 | 2.5 | 2/26 | 18 | 1.2 | 3/7 | 11 | 1.5 | 3/14 | 4 | 1.1 | 3/21 | | | | | | | |
| Lemmon | 12 | 2.1 | 2/28 | | | | | | | | | | | | | | | | |
| Leola | 14 | 3.8 | 2/25 | | | | | | | | | | | | | | | | |
| Madison | 32 | 8.6 | 2/28 | 31 | 9.0 | 3/7 | 30 | 9.2 | 3/14 | 23 | 7.3 | 3/21 | 18 | 6.0 | 3/28 | 11 | 4.2 | 3/30 | |
| " | | | | | | | | | | | | | | | | 9 | 3.5 | 4/2 | |
| Madison | | | | | | | | | | | | | | | | | 7 | 2.4 | 4/3 |
| Madison, 9 S | | | | | | | | | | | | | | | | | 10 | 4.4 | 3/30 |
| " | | | | | | | | | | | | | | | | | 8 | 4.3 | 4/1 |
| Madison, 18 S | | | | | | | | | | | | | | | | | 6 | 3.2 | 4/3 |
| " | | | | | | | | | | | | | | | | | 14 | 4.5 | 3/30 |
| Madison, 18 S | | | | | | | | | | | | | | | | | T | T | 4/1 |
| " | | | | | | | | | | | | | | | | | 10 | 4.3 | 4/3 |
| Marcus, 8 NNW | 11 | 1.6 | 2/21 | 12 | 2.2 | 3/7 | 11 | 2.2 | 3/14 | | | | | | | | | | |
| " | 12 | 2.1 | 2/28 | | | | | | | | | | | | | | | | |
| Marion | 34 | 5.5 | 2/21 | 28 | 7.1 | 3/6 | 27 | 6.0 | 3/14 | 19 | 6.7 | 3/21 | 15 | 2.8 | 3/28 | | | | |
| Marion | 28 | 7.2 | 2/28 | 26 | 6.9 | 3/7 | | | | | | | | | | | | | |
| Martin | 6 | 1.0 | 2/21 | 4 | 0.7 | 3/7 | 4 | 0.4 | 3/14 | | | | | | | | | | |
| " | 2 | 0.6 | 2/28 | | | | | | | | | | | | | | | | |
| McIntosh | 15 | 3.9 | 2/21 | 19 | 4.8 | 3/7 | 19 | 4.8 | 3/14 | 7 | 2.5 | 3/21 | 4 | 1.9 | 3/28 | | | | |
| " | 14 | 2.9 | 2/26 | | | | | | | | | | | | | | | | |
| McIntosh | 19 | 4.8 | 2/28 | | | | | | | | | | | | | | | | |
| McLaughlin | 23 | 3.5 | 2/28 | 25 | 4.0 | 3/7 | 29 | 4.5 | 3/14 | | | | | | | | | | |
| Meadow, 2 E | 9 | 2.5 | 2/26 | | | | | | | | | | | | | | | | |
| Mellette | 13 | 4.6 | 2/28 | | | | | | | | | | | | | | | | |
| Mellette, 10 W | | | | 20 | 4.7 | 3/5 | 15 | 3.2 | 3/14 | 13 | 3.2 | 3/21 | 9 | 2.8 | 3/28 | | | | |
| Menno | 29 | 5.8 | 2/21 | 22 | 5.9 | 3/7 | 21 | 5.9 | 3/14 | 16 | 5.2 | 3/21 | 12 | 4.6 | 3/28 | | | | |
| " | 24 | 6.1 | 2/28 | | | | | | | | | | | | | | | | |
| Milbank | 22 | 5.3 | 2/26 | 21 | 5.5 | 3/7 | 21 | 5.5 | 3/14 | | | | | | | | | | |
| Milbank, 4 W | 13 | 3.7 | 2/25 | | | | | | | 17 | 2.1 | 3/21 | | | | | | | |
| Milesville, 5 NE | 7 | 1.3 | 2/21 | 8 | 1.4 | 3/7 | 10 | 1.6 | 3/14 | 11 | 3.8 | 3/21 | | | | | | | |
| Milgsville, 5 NE | 7 | 1.4 | 2/28 | | | | | | | | | | | | | | | | |
| Miller | 17 | 2.6 | 2/28 | 15 | 2.5 | 3/7 | 14 | 2.5 | 3/14 | 8 | 2.6 | 3/28 | 2 | 0.6 | 3/28 | | | | |
| Miller, 4 S | 8 | 2.6 | 2/25 | | | | | | | | | | | | | | | | |
| Mission | 3 | 1.6 | 2/27 | 4 | 0.3 | 3/7 | 4 | 0.6 | 3/14 | | | | | | | | | | |
| " | 3 | 0.2 | 2/28 | | | | | | | | | | | | | | | | |
| Mission, 14 SSE | 16 | 5.0 | 2/28 | 18 | 5.2 | 3/7 | 22 | 5.9 | 3/14 | 10 | 3.5 | 3/21 | 4 | 1.0 | 3/28 | | | | |
| Mission, 22 S | 9 | 2.7 | 2/27 | | | | | | | | | | | | | | | | |
| Mitchell, 2 N | 18 | 4.7 | 2/25 | | | | | | | | | | | | | | | | |
| Mitchell, 2 SSE | 23 | 5.2 | 2/21 | | | | | | | | | | | | | | | | |
| Mobridge | 13 | 2.9 | 2/21 | 15 | 3.5 | 3/7 | 12 | 2.9 | 3/14 | 5 | 1.8 | 3/21 | 2 | 1.0 | 3/28 | | | | |
| Mobridge | 9 | 2.1 | 2/26 | | | | | | | | | | | | | | | | |
| " | 16 | 3.4 | 2/28 | | | | | | | | | | | | | | | | |
| Montrose | | | | 20 | 6.5 | 3/6 | | | | | | | | | | | | | |
| Mound City, 3 N | 10 | 2.5 | 2/25 | | | | | | | | | | | | | | | | |
| Newell, 2 NW | 4 | 0.6 | 2/28 | 4 | 0.7 | 3/7 | 4 | 0.6 | 3/14 | | | | | | | | | | |
| Northville | | | | | | | | | | | | | 16 | 6.2 | 3/28 | | | | |
| Oahe Dam | 7 | 1.1 | 2/25 | | | | | | | | | | | | | | | | |
| Parkston | 15 | 4.2 | 2/25 | | | | | | | | | | | | | | | | |
| Parkston, 5 E | 28 | 9.6 | 2/28 | 26 | 7.4 | 3/7 | 25 | 7.1 | 3/14 | 18 | 7.0 | 3/21 | 16 | 5.6 | 3/28 | | | | |
| Pickstown | 20 | 4.6 | 2/21 | 9 | 3.4 | 3/5 | 10 | 3.3 | 3/14 | 6 | 2.2 | 3/21 | 2 | 0.7 | 3/28 | | | | |
| Pickstown | 18 | 4.5 | 2/25 | 11 | 3.6 | 3/7 | | | | | | | | | | | | | |
| " | 16 | 4.2 | 2/28 | | | | | | | | | | | | | | | | |
| Pierpont | 20 | 5.0 | 2/7 | | | | | | | | | | 9 | 3.4 | 3/28 | | | | |
| Pierre | 9 | 2.3 | 2/25 | 4 | 1.2 | 3/7 | 5 | 1.1 | 3/14 | | | | | | | | | | |
| " | 7 | 1.6 | 2/28 | | | | | | | | | | | | | | | | |
| Platte | 14 | 3.5 | 2/21 | 15 | 4.1 | 3/7 | 15 | 3.8 | 3/14 | 5 | 1.8 | 3/21 | | | | | | | |
| " | 20 | 4.3 | 2/28 | | | | | | | | | | | | | | | | |
| Platte, 10 W | 8 | 3.0 | 2/26 | | | | | | | | | | | | | | | | |
| Fresho | 10 | 2.3 | 2/25 | | | | | | | | | | | | | | | | |
| Ramona | | | | | | | | | | | | | 16 | 6.0 | 3/28 | | | | |
| Rapid City | 3 | 2.9 | 2/21 | 2 | 0.3 | 3/7 | 2 | 0.3 | 3/14 | | | | | | | | | | |
| " | 2 | 0.3 | 2/28 | | | | | | | | | | | | | | | | |
| Ravinia, 2 E | 13 | 3.9 | 2/26 | | | | | | | | | | | | | | | | |
| Raymond, 3 NE | 13 | 3.9 | 2/26 | | | | | | | | | | 11 | 4.1 | 3/28 | | | | |
| Redfield | 16 | 2.7 | 2/21 | 17 | 4.1 | 3/7 | 17 | 3.6 | 3/14 | 10 | 4.1 | 3/21 | 6 | 2.3 | 3/28 | 2 | 0.9 | 4/3 | |
| Redfield | 20 | 3.5 | 2/28 | | | | | | | | | | | | | | | | |
| Redfield, 6 E | | | | 24 | 6.6 | 3/7 | 22 | 4.0 | 3/14 | 14 | 3.5 | 3/21 | 12 | 3.5 | 3/28 | | | | |
| Richland | | | | | | | | | | | | | 5 | 3.2 | 3/27 | | | | |
| Rockham | | | | 23 | 6.3 | 3/5 | | | | | | | | | | | | | |
| Rowena, 2 E | 13 | 3.9 | 2/26 | | | | | | | | | | 12 | 5.0 | 3/22 | 12 | 5.2 | 3/29 | |

TABLE 11.—Depth of snow on ground and water equivalent, in inches, for South Dakota.—Continued

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/3 | | | | |
|--------------------------|--------------|-----|------|-------|-----|------|--------|-----|------|---------|------|------|---------|------|------|----------|------|------|-----|-----|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | | |
| Rowena, 2 E | 21 | 4.1 | 2/28 | 22 | 4.7 | 3/7 | | | | 15 | 6.3 | 3/21 | 9 | 3.3 | 3/28 | 9 | 4.8 | 4/1 | | |
| Salem, 2 S | 10 | 3.1 | 2/26 | | | | | | | 10 | 4.1 | 3/21 | | | | 7 | 3.0 | 3/29 | | |
| " | | | | | | | | | | | | | | | | T | T | 4/3 | | |
| Shadehill Dam | 20 | 1.8 | 2/21 | 14 | 2.4 | 3/7 | 17 | 2.5 | 3/14 | | | | | | | | | | | |
| Shadehill Dam | 14 | 1.8 | 2/28 | | | | | | | | | | | | | | | | | |
| Selby | 15 | 1.5 | 2/21 | 17 | 2.0 | 3/7 | 18 | 1.8 | 3/14 | | | | | | | | | | | |
| " | 9 | 2.7 | 2/25 | | | | | | | | | | | | | | | | | |
| " | 18 | 2.2 | 2/28 | | | | | | | | | | | | | | | | | |
| Sioux Falls, 17 W | | | | 24 | 7.2 | 3/6 | | | | | | | | | | | | | | |
| Sisseton | 31 | 6.7 | 2/28 | | | | | | | | | | | | | | | | | |
| Sisseton, 1 E | 18 | 4.9 | 2/6 | | | | | | | | | | | | | | | | | |
| Spearfish | 2 | 0.3 | 2/28 | 4 | 0.3 | 3/7 | 2 | 0.2 | 2/14 | | | | 6 | 2.7 | 3/27 | | | | | |
| Spink, 1 N | | | | | | | | | | | | | | | | | | | | |
| Stephan, 1 ENE | | | | | | | | | | - | 0.3 | 3/21 | | | | | | | | |
| Summit | 45 | 7.0 | 2/21 | 46 | 7.0 | 3/7 | 46 | 7.0 | 3/14 | 34 | 5.5 | 3/21 | 27 | 5.3 | 3/28 | 15 | 4.0 | 4/3 | | |
| " | 45 | 7.1 | 2/28 | | | | | | | | | | | | | | | | | |
| Timber Lake | 18 | 2.8 | 2/28 | 19 | 2.8 | 3/7 | | | | | | | | | | | | | | |
| Toronto, 3 NW | | | | | | | | | | 10 | 3.8 | 3/21 | | | | 10 | 3.5 | 3/31 | | |
| " | | | | | | | | | | | | | | | | 8 | 3.3 | 4/2 | | |
| Trent, 1 S | | | | | | | | | | | | | 17 | 6.6 | 3/22 | | | | | |
| Fulare | | | | | | | | | | | | | 12 | 4.2 | 3/28 | | | | | |
| Tuthill, 4 N | 2 | 0.5 | 2/27 | | | | | | | | | | | | | | | | | |
| Tyndall | 23 | 3.7 | 2/21 | 15 | 4.1 | 3/7 | 15 | 4.7 | 3/14 | 4 | 2.2 | 3/21 | | | | | | | | |
| " | 17 | 4.9 | 2/28 | | | | | | | | | | | | | | | | | |
| Victor | 24 | 6.6 | 2/6 | | | | | | | | | | | | | | | | | |
| Victor, 1 ESE | 42 | 7.8 | 2/21 | 36 | 6.8 | 3/7 | 34 | 8.7 | 3/14 | 14 | 5.6 | 3/21 | 10 | 4.1 | 3/28 | | | | | |
| " | 41 | 9.0 | 2/28 | | | | | | | | | | | | | | | | | |
| Vivian | 8 | 2.0 | 2/21 | 7 | 1.4 | 3/7 | 7 | 1.4 | 3/14 | | | | | | | | | | | |
| Volga, 2 NW | | | | | | | | | | | | | 23 | 7.9 | 3/22 | | | | | |
| Wagner | 21 | 4.5 | 2/21 | | | | | | | | | | - | 3.0 | 3/21 | | | | | |
| " | 14 | 4.9 | 2/28 | | | | | | | | | | | | | | | | | |
| Watertown | 28 | 7.8 | 2/21 | | | | 21 | 6.0 | 3/14 | 20 | 5.5 | 3/21 | 15 | 4.7 | 3/28 | 8 | 2.9 | 4/3 | | |
| " | 32 | 8.1 | 2/28 | | | | | | | | | | | | | | | | | |
| Waubay Natl. Wildlife | 33 | 5.6 | 2/21 | | | | 27 | 7.0 | 3/14 | 21 | 7.0 | 3/21 | 12 | 4.8 | 3/28 | | | | | |
| Webster | 22 | 4.6 | 2/7 | | | | | | | | | | | | | 8 | 2.8 | 3/30 | | |
| Webster, 3 W | 19 | 2.3 | 2/25 | | | | | | | 9 | 3.1 | 3/21 | | | | 8 | 2.7 | 3/30 | | |
| Wentworth | 30 | 6.9 | 2/21 | | | | | | | 15 | 5.3 | 3/20 | 16 | 6.0 | 3/28 | 12 | 4.6 | 3/29 | | |
| " | 27 | 7.5 | 2/28 | | | | | | | | | | | | | 10 | 5.1 | 4/2 | | |
| " | | | | | | | | | | | | | | | | 7 | 3.3 | 4/3 | | |
| Wentworth, 5 W | | | | | | | | | | 27 | 5.1 | 3/20 | | | | | | | | |
| Wessington | | | | | | | 16 | 4.3 | 3/14 | | | | 6 | 4.1 | 3/28 | | | | | |
| Wessington, 5 S | | | | 16 | 3.9 | 3/5 | | | | | | | | | | | | | | |
| Wessington Springs | 15 | 3.8 | 2/21 | 21 | 4.6 | 3/5 | | | | | | | | | | | | | | |
| Wessington Springs, 9 SW | 30 | 6.0 | 2/21 | | | | | | | | | | | | | | | | | |
| Wessington Springs, 9 SW | 25 | 7.0 | 2/28 | | | | | | | | | | | | | | | | | |
| Wewela | 14 | 2.1 | 2/28 | | | | | | | | | | | | | | | | | |
| White Lake | 20 | 4.2 | 2/21 | 20 | 4.0 | 3/7 | 20 | 3.6 | 3/14 | 14 | 2.8 | 3/21 | 10 | 2.1 | 3/28 | | | | | |
| " | 26 | 4.1 | 2/28 | | | | | | | | | | | | | | | | | |
| Willow Lake | | | | | | | | | | | | | 18 | 5.9 | 3/28 | | | | | |
| Wilmot | 30 | 6.6 | 2/6 | | | | | | | | | | | | | | | | | |
| Wilmot, 1 ENE | | | | | | | | | 35 | 4.3 | 3/14 | 30 | 3.8 | 3/21 | 30 | 3.5 | 3/28 | 11 | 2.5 | 4/3 |
| Winfred | | | | | | | | | | | | | 15 | 5.5 | 3/20 | | | | | |
| Winner | 7 | 1.2 | 2/28 | 6 | 1.0 | 3/7 | 5 | 0.8 | 3/14 | | | | | | | | | | | |
| Wolsey | 16 | 2.5 | 2/21 | | | | 17 | 5.2 | 3/14 | | | | 8 | 3.3 | 3/28 | | | | | |
| Yankton | | | | | | | | | 13 | 5.3 | 3/14 | | | | | | | | | |
| Yankton, 3 N | 26 | 5.8 | 2/21 | | | | | | 13 | 5.3 | 3/14 | | | | 4 | 1.8 | 3/28 | | | |
| " | 16 | 6.4 | 2/28 | | | | | | | | | | | | | | | | | |

TABLE 12.—Depth of snow on ground and water equivalent, in inches, for Wisconsin.

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/8 | | |
|-------------------|--------------|-----|------|-------|-----|------|--------|-----|------|---------|-----|------|---------|-----|------|----------|-----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date |
| Abbotsford, 12 E | | | | | | | 18 | 4.9 | 3/9 | | | | | | | | | |
| Alma | 22 | 5.9 | 2/4 | | | | | | | | | | | | | | | |
| " | 18 | 4.1 | 2/18 | | | | | | | | | | | | | | | |
| " | 15 | 3.6 | 2/25 | | | | | | | | | | | | | | | |
| Antigo | 18 | 5.6 | 2/18 | 17 | 4.9 | 3/4 | 16 | 4.8 | 3/11 | 14 | 4.8 | 3/18 | 8 | 3.1 | 3/25 | 7 | 2.5 | 4/1 |
| Antigo | 18 | 5.5 | 2/25 | | | | | | | 10 | 4.4 | 3/21 | 7 | 2.5 | 3/28 | 4 | 1.5 | 4/4 |
| Arkdale, 4 E | | | | | | | 17 | 5.5 | 3/9 | | | | | | | | | |
| Arpin | 22 | 4.0 | 1/31 | | | | | | | | | | | | | | | |
| " | 19 | 5.0 | 2/28 | | | | | | | | | | | | | | | |
| Ashland | | | | | | | 25 | 8.1 | 3/11 | | | | | | | | | |
| Baldwin | 22 | 6.0 | 2/18 | 15 | 4.6 | 3/4 | 14 | 4.4 | 3/11 | 14 | 4.3 | 3/18 | 6 | 2.9 | 3/25 | 5 | 1.5 | 4/1 |
| " | 18 | 5.2 | 2/25 | | | | | | | | | | | | | | | |
| Baldwin, 1 S | | | | | | | 17 | 5.4 | 3/8 | | | | | | | | | |
| Big Falls | 23 | 5.6 | 2/11 | | | | | | | 17 | 5.5 | 3/21 | 13 | 5.0 | 3/25 | 11 | 4.0 | 4/1 |
| " | 21 | 5.6 | 2/18 | | | | | | | | | | 13 | 4.7 | 3/28 | 9 | 3.9 | 4/4 |
| Big Falls | 19 | 5.4 | 2/25 | | | | | | | | | | | | | 3 | 1.4 | 4/8 |
| Black River Falls | | | | | | | 17 | 5.3 | 3/9 | | | | | | | | | |
| Blair | 18 | 5.0 | 2/18 | 14 | 4.9 | 3/4 | 13 | 3.9 | 3/11 | 10 | 3.8 | 3/18 | | | | | | |
| " | 17 | 4.9 | 2/25 | | | | | | | 4 | 1.6 | 3/21 | | | | | | |
| Bloomer | | | | | | | 15 | 6.3 | 3/9 | | | | | | | | | |
| Bloomer, 1 NE | | | | 18 | 6.1 | 3/7 | | | | | | | | | | | | |
| Breed | 21 | 6.0 | 2/11 | 19 | 6.1 | 3/4 | 18 | 5.7 | 3/11 | 16 | 4.7 | 3/18 | 8 | 2.9 | 3/25 | 8 | 2.6 | 4/1 |
| " | 21 | 6.0 | 2/18 | | | | | | | | | | | | | | | |
| " | 20 | 6.0 | 2/25 | | | | | | | | | | | | | | | |
| Bruce | | | | 18 | 5.1 | 3/6 | | | | | | | | | | | | |
| Brule | | | | 26 | 7.4 | 3/4 | 23 | 6.2 | 3/11 | | | | | | | | | |
| Brule, 1 S | | | | | | | 23 | 6.2 | 3/11 | | | | | | | | | |
| Burnt Rollway | 22 | 4.5 | 1/9 | | | | | | | | | | | | | | | |
| " | 23 | 4.9 | 2/7 | | | | | | | | | | | | | | | |
| Cadott, 2 E | | | | | | | 19 | 4.9 | 3/8 | | | | | | | | | |
| Cashton | | | | | | | 12 | 5.0 | 3/8 | | | | | | | | | |
| Cedar Falls | 23 | 5.8 | 1/31 | 19 | 3.7 | 3/1 | | | | | | | | | | | | |
| Clam Lake, 5 SW | | | | 28 | 8.0 | 3/5 | | | | | | | | | | | | |
| Clam Lake, 15 SW | | | | 23 | 6.4 | 3/5 | | | | | | | | | | | | |
| Colby, 1 S | | | | | | | 11 | 3.6 | 3/8 | | | | | | | | | |
| Cornell | | | | | | | 15 | 4.7 | 3/9 | | | | | | | | | |
| Couderay, 8 NW | | | | 21 | 5.5 | 3/6 | | | | | | | | | | | | |
| Cumberland | 24 | 6.7 | 2/11 | 17 | 5.9 | 3/4 | 15 | 5.0 | 3/11 | 13 | 3.9 | 3/18 | 5 | 2.0 | 3/25 | 13 | 1.3 | 4/1 |
| " | 20 | 6.7 | 2/25 | | | | | | | | | | | | | 2 | 0.8 | 4/4 |
| Cumberland, 1 SW | | | | 18 | 5.3 | 3/6 | | | | | | | | | | | | |
| Danbury | 30 | 6.7 | 2/11 | | | | 26 | 8.4 | 3/11 | | | | | | | | | |
| Drummond | | | | | | | 26 | 7.2 | 3/11 | | | | | | | | | |
| Drummond, 3 W | | | | 25 | 6.4 | 3/4 | | | | | | | | | | | | |
| Eagle River | | | | | | | 20 | 5.1 | 3/10 | | | | | | | | | |
| Eau Claire | | | | | | | 15 | 5.0 | 3/9 | | | | | | | | | |
| Eau Pleine | 20 | 4.1 | 2/5 | 16 | 4.0 | 3/1 | 25 | 4.9 | 3/10 | | | | | | | | | |
| Fifield | | | | | | | | | | | | | | | | | | |
| Fifield, 20 E | | | | 22 | 6.0 | 3/5 | | | | | | | | | | | | |
| Flambeau Dam, 3 W | | | | 24 | 6.5 | 3/4 | | | | | | | | | | | | |
| Fountain City | 18 | 5.9 | 2/4 | | | | | | | | | | | | | | | |
| Fountain City | 16 | 5.5 | 2/18 | | | | | | | | | | | | | | | |
| " | 14 | 5.0 | 2/25 | | | | | | | | | | | | | | | |
| Gays Mills | | | | | | | 4 | | 3/11 | 6 | 2.3 | 3/18 | T | T | 3/25 | | | |
| Genoa | 18 | 6.8 | 2/4 | | | | | | | | | | | | | | | |
| " | 10 | 4.5 | 2/18 | | | | | | | | | | | | | | | |
| Genoa | 6 | 3.2 | 2/25 | | | | | | | | | | | | | | | |
| Glidden, 4 NW | | | | 22 | 6.4 | 3/5 | | | | | | | | | | | | |
| Grantsburg | | | | | | | 20 | 6.0 | 3/11 | | | | | | | 10 | 4.0 | 4/4 |
| Grantsburg, 1 W | | | | | | | | | | | | | | | | 10 | 4.0 | 4/3 |
| Greenwood, 2 S | | | | | | | 14 | 3.9 | 3/8 | | | | | | | | | |
| Gurney | 25 | 6.9 | 2/18 | 25 | 5.7 | 3/4 | 27 | 7.4 | 3/11 | 22 | 7.4 | 3/18 | 18 | 7.2 | 3/25 | 17 | 7.4 | 4/1 |
| " | 26 | 7.0 | 2/25 | | | | | | | 23 | 7.4 | 3/21 | 19 | 6.9 | 3/28 | 16 | 7.2 | 4/4 |
| Halcombe, 2 N | | | | 18 | 5.0 | 3/7 | | | | | | | | | | | | |
| Hawkins | | | | | | | 20 | 5.8 | 3/10 | | | | | | | | | |
| Hawkins, 1 W | | | | 19 | 5.3 | 3/6 | | | | | | | | | | | | |
| Hayward | | | | | | | 21 | 6.4 | 3/10 | | | | | | | | | |
| Hayward, 3 SW | | | | 23 | 6.4 | 3/5 | | | | | | | | | | | | |
| Hillsboro | | | | | | | 9 | 4.6 | 3/8 | | | | | | | | | |
| Holcombe | | | | 18 | 5.0 | 3/7 | | | | | | | | | | | | |
| Hurley, 4 SW | | | | 28 | 8.3 | 3/4 | | | | | | | | | | | | |

TABLE 12.—Depth of snow on ground and water equivalent, in inches, for Wisconsin.—Continued

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/8 | | |
|-------------------|--------------|-----|------|-------|-----|------|--------|-----|------|---------|-----|------|---------|-----|------|----------|-----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date |
| Jump River, 7 E | | | | 17 | 4.9 | 3/7 | | | | | | | | | | | | |
| Ladysmith | 22 | 5.7 | 2/18 | | | | 18 | 6.1 | 3/10 | | | | | | | | | |
| La Farge | 13 | 4.1 | 2/11 | | | | 8 | 2.8 | 3/11 | 4 | 2.0 | 3/18 | 3 | 0.3 | 3/28 | | | |
| " " | 13 | 4.2 | 2/18 | | | | | | | | | | | | | | | |
| " " | 9 | 3.5 | 2/25 | | | | | | | | | | | | | | | |
| Lynxville | 14 | 4.2 | 2/4 | | | | | | | | | | | | | | | |
| " " | 14 | 4.4 | 2/18 | | | | | | | | | | | | | | | |
| Marshfield | | | | | | | 19 | 5.0 | 3/9 | | | | | | | | | |
| Medford, 1 S | | | | 14 | 4.2 | 3/7 | | | | | | | | | | | | |
| Mellen | | | | | | | 30 | 8.5 | 3/11 | | | | | | | | | |
| Mellen, 2 NW | | | | 22 | 6.4 | 3/4 | | | | | | | | | | | | |
| Menomonie, 10 E | | | | | | | 17 | 4.9 | 3/8 | | | | | | | | | |
| Mercer | | | | 24 | 6.5 | 3/5 | | | | | | | | | | | | |
| Merrill | | | | | | | 21 | 6.4 | 3/10 | | | | | | | | | |
| Mosinee | | | | | | | 18 | 5.0 | 3/9 | | | | | | | | | |
| Neillsville | 30 | 6.6 | 2/11 | | | | 15 | 6.2 | 3/9 | 12 | 4.7 | 3/18 | 3 | - | 3/25 | | | |
| " " | 18 | 7.2 | 2/25 | | | | | | | | | | | | | | | |
| Nekoosa | | | | | | | 17 | 5.5 | 3/9 | | | | | | | | | |
| New London | | | | | | | 13 | 5.8 | 3/8 | | | | | | | | | |
| Ontario | 15 | 3.7 | 2/11 | 12 | 3.4 | 3/4 | 13 | 3.4 | 3/11 | 11 | 3.2 | 3/18 | 5 | 1.8 | 3/25 | 5 | 0.4 | 4/1 |
| Ontario | 24 | 3.5 | 2/18 | | | | | | | 8 | 2.6 | 3/21 | | | | | | |
| " " | 14 | 3.5 | 2/25 | | | | | | | | | | | | | | | |
| Ontario, 3 S | | | | | | | 9 | 2.8 | 3/11 | | | | | | | | | |
| Ontario, 2 W | | | | | | | 13 | 3.0 | 3/11 | | | | | | | | | |
| Osseo | | | | | | | 13 | 4.3 | 3/9 | | | | | | | | | |
| Owen | 25 | 5.5 | 2/11 | 13 | 3.9 | 3/4 | 13 | 3.8 | 3/11 | 10 | 3.2 | 3/18 | 9 | 2.7 | 3/25 | 10 | 2.5 | 4/1 |
| " " | 20 | 4.7 | 2/18 | | | | | | | 12 | 3.4 | 3/21 | 10 | 2.8 | 3/28 | 6 | 1.8 | 4/4 |
| " " | 26 | 5.8 | 2/25 | | | | | | | | | | | | | | | |
| Park Falls | 21 | 6.9 | 2/7 | | | | | | | | | | | | | | | |
| Park Falls, 3 N | | | | 20 | 5.3 | 3/5 | | | | | | | | | | | | |
| Portage | 10 | 4.3 | 2/11 | | | | 8 | 3.6 | 3/9 | | | | 2 | 0.1 | 3/25 | | | |
| " " | | | | | | | 8 | 3.1 | 3/11 | | | | | | | | | |
| Prairie Du Chien | 8 | 2.1 | 2/11 | 2 | 1.1 | 3/4 | | | | | | | 1 | 0.2 | 3/25 | | | |
| " " " | 6 | 2.0 | 2/18 | | | | | | | | | | | | | | | |
| " " " | 4 | 1.8 | 2/25 | | | | | | | | | | | | | | | |
| Prentice | | | | | | | 23 | 6.6 | 3/10 | | | | | | | | | |
| Prentice, 2 W | | | | 19 | 5.9 | 3/6 | | | | | | | | | | | | |
| Rainbow Res. | 26 | 5.5 | 2/3 | 25 | 5.8 | 3/3 | | | | | | | | | | | | |
| Readstown | 13 | 3.3 | 2/11 | 8 | 2.9 | 3/4 | 6 | 1.8 | 3/11 | 5 | 2.6 | 3/18 | 2 | 0.3 | 3/28 | 3 | - | 4/1 |
| " " | 12 | 3.7 | 2/18 | | | | | | | | | | | | | | | |
| Readstown (Nt.) | 11 | 5.7 | 2/25 | | | | 7 | 4.1 | 3/8 | | | | | | | | | |
| Reedsburg | 17 | 4.2 | 2/11 | 10 | 3.1 | 3/4 | | | | | | | | | | | | |
| " " | 16 | 5.1 | 2/18 | | | | | | | | | | | | | | | |
| " " | 14 | 3.7 | 2/25 | | | | | | | | | | | | | | | |
| Rhineland | | | | | | | 22 | 5.4 | 3/10 | | | | | | | | | |
| Rice Lake | | | | | | | 16 | 5.3 | 3/10 | | | | | | | | | |
| Rice Lake, 3 W | | | | 13 | 4.4 | 3/6 | | | | | | | | | | | | |
| Ridgeland, 6 N | | | | 17 | 5.1 | 3/7 | | | | | | | | | | | | |
| Ridgeland, 7 SE | | | | 21 | 6.0 | 3/7 | | | | | | | | | | | | |
| Ridgeland, 2 S | | | | 20 | 5.1 | 3/7 | | | | | | | | | | | | |
| Saint Croix Falls | | | | | | | 12 | 4.9 | 3/12 | | | | | | | | | |
| Sanborn | | | | 22 | 6.7 | 3/4 | | | | | | | | | | | | |
| Soldiers Grove | | | | | | | 4 | - | 3/11 | | | | | | | | | |
| Solon Springs | 31 | 7.7 | 2/11 | 28 | 7.7 | 3/4 | 30 | 9.2 | 3/11 | 25 | 7.6 | 3/18 | 19 | 6.6 | 3/25 | 15 | 5.8 | 4/4 |
| " " | 32 | 8.6 | 2/25 | | | | | | | 24 | 7.2 | 3/21 | 21 | 6.5 | 3/28 | | | |
| Solon Springs | | | | 32 | 8.6 | 3/4 | | | | | | | | | | | | |
| Sparta | 22 | 5.8 | 2/11 | | | | 15 | 4.5 | 3/8 | 12 | 3.1 | 3/18 | 4 | 1.2 | 3/25 | 5 | 1.6 | 4/1 |
| " " | 20 | 5.5 | 2/18 | | | | | | | 6 | 2.9 | 3/21 | 10 | 2.3 | 3/28 | | | |
| " " | 20 | 5.5 | 2/25 | | | | | | | | | | | | | | | |
| Spencer, 1 W | | | | | | | 15 | 3.9 | 3/8 | | | | | | | | | |
| Spooner | | | | 16 | 4.9 | 3/4 | 19 | 5.5 | 3/10 | | | | | | | | | |
| Spooner, 1 N | | | | 16 | 4.8 | 3.5 | | | | | | | | | | | | |
| Spirit Dam | | | | | | | | | | | | | 12 | 3.1 | 3/25 | | | |
| Springbrook, 2 SW | | | | 21 | 6.1 | 3/5 | | | | | | | | | | | | |
| Stanley, 1 SW | | | | | | | 16 | 5.4 | 3/8 | | | | | | | | | |
| Stone Lake | | | | | | | 18 | 5.3 | 3/10 | | | | | | | | | |
| Stauben | | | | | | | 13 | 4.0 | 3/11 | | | | | | | | | |
| Stevens Point | | | | | | | 15 | 5.1 | 3/9 | | | | | | | | | |
| Tomah | | | | | | | 16 | 5.0 | 3/8 | | | | | | | | | |
| Tomahawk | | | | | | | 17 | 5.8 | 3/10 | | | | | | | | | |

TABLE 12.—Depth of snow on ground and water equivalent, in inches, for Wisconsin.—Continued

| Location | Prior to 3/1 | | | 3/1-7 | | | 3/8-14 | | | 3/15-21 | | | 3/22-28 | | | 3/29-4/8 | | |
|-----------------|--------------|-----|------|-------|-----|------|--------|-----|------|---------|-----|------|---------|-----|------|----------|-----|------|
| | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date | SOG | WE | Date |
| Trempealeau | 18 | 5.2 | 2/4 | | | | | | | | | | | | | | | |
| " | 17 | 5.1 | 2/18 | | | | | | | | | | | | | | | |
| " | 14 | 4.4 | 2/25 | | | | | | | | | | | | | | | |
| Viroqua | 13 | 4.0 | 2/11 | 10 | 4.5 | 3/4 | 8 | 3.7 | 3/11 | 6 | 3.5 | 3/18 | 4 | 1.4 | 3/25 | | | |
| " | 12 | 4.0 | 2/18 | | | | | | | | | | | | | | | |
| Viroqua | 11 | 4.3 | 2/25 | | | | | | | | | | | | | | | |
| Wentworth | | | | 34 | 7.0 | 3/4 | | | | | | | | | | | | |
| Westboro, 3 S | | | | 19 | 5.5 | 3/7 | | | | | | | | | | | | |
| Westboro, 8 W | | | | 16 | 4.1 | 3/7 | | | | | | | | | | | | |
| Westby | 12 | 4.0 | 2/18 | 11 | - | 3/4 | 9 | 2.9 | 3/11 | 6 | 2.3 | 3/18 | 4 | 0.5 | 3/20 | | | |
| Westby, 4 NE | | | | | | | 13 | 3.0 | 3/11 | | | | | | | | | |
| West Salem | | | | | | | 12 | 4.5 | 3/8 | | | | | | | | | |
| Winter | 25 | 4.8 | 2/11 | | | | 20 | 4.8 | 3/10 | 18 | 6.4 | 3/18 | 16 | 6.0 | 3/25 | 10 | 3.7 | 4/4 |
| " | 14 | 4.8 | 2/18 | | | | 20 | 6.2 | 3/11 | 17 | 6.2 | 3/21 | | | | | | |
| " | 11 | 4.2 | 2/25 | | | | | | | | | | | | | | | |
| Winter, 5 N | | | | 21 | 5.5 | 3/6 | | | | | | | | | | | | |
| Winter, 21 SE | | | | 21 | 5.3 | 3/6 | | | | | | | | | | | | |
| Wisconsin Dells | 15 | 5.1 | 2/11 | 6 | 2.4 | 3/4 | 12 | 5.3 | 3/9 | 2 | 1.0 | 3/18 | 2 | 1.2 | 3/25 | 2 | 0.4 | 4/1 |
| " | 9 | 6.3 | 2/25 | | | | 10 | 3.1 | 3/11 | | | | | | | | | |
| Withee | | | | | | | 14 | 4.5 | 3/9 | | | | | | | | | |
| Withee, 1 SW | | | | | | | 17 | 5.3 | 3/8 | | | | | | | | | |
| Woodruff | | | | | | | 22 | 6.0 | 3/10 | | | | | | | | | |

