# Flooding in Illinois, April-June 2002

Open-File Report 02-487

U.S. Department of the Interior
U.S. Geological Survey

U.S. Department of the Interior
U.S. Geological Survey

# Flooding in Illinois, April-June 2002

**By Charles Avery and Daniel F. Smith**

Open-File Report 02-487

Urbana, Illinois
2003

U.S. DEPARTMENT OF THE INTERIOR
GALE A. NORTON, Secretary

U.S. GEOLOGICAL SURVEY
Charles G. Groat, Director

---

For additional information write to:

District Chief
U.S. Geological Survey
221 N. Broadway Avenue
Urbana, IL 61801

Copies of this report can be purchased from:

U.S. Geological Survey
Branch of Information Services
Box 25286
Denver, CO 80225-0286

# CONTENTS

Abstract ..... 1
Introduction ..... 1
Purpose and scope ..... 2
Flood damage assessments ..... 2
Acknowledgments ..... 2
Meteorological conditions and rainfall distribution ..... 2
Flooding in Illinois, April-June 2002 ..... 6
Kaskaskia River drainage ..... 6
Wabash River drainage ..... 10
Illinois River drainage ..... 10
Rock River drainage ..... 10
Other tributaries to the Mississippi and Ohio Rivers ..... 14
Summary ..... 14
References cited ..... 14

## FIGURES

1. Map showing selected U.S. Geological Survey streamflow-gaging stations in Illinois, in drainages just upstream of the State, and on the Mississippi, Ohio, and Wabash Rivers ..... 3
2. Photograph showing water from the Sangamon River flowing over Business Route I-55 at Riverside Park between Springfield and Sherman, Ill. ..... 4
3. Photograph showing the river stage at the bridge deck of the State Highway 1 bridge over the Embarras River at Lawrenceville, Ill. ..... 5
4. Map showing provisional rainfall totals for Illinois, May 11-13, 2002, from the National Weather Service Cooperative Observer Network ..... 7
5. Map showing provisional rainfall totals for Illinois, June 12-13, 2002, from the National Weather Service Cooperative Observer Network ..... 8
6. Hydrograph of the stage of Kaskaskia River near Cowden, Ill. (05592100), April-July 2002 ..... 9
7. Hydrograph of the stage of Little Wabash River at Carmi, Ill. (03381500), April-July 2002 ..... 11
8. Hydrograph of the stage of Illinois River at Hardin, Ill. (05587060), April-July 2002 ..... 12
9. Hydrograph of the stage of Rock River near Joslin, Ill. (05446500), April-July 2002 ..... 13

## TABLE

1. Flood-flow data at selected U.S. Geological Survey streamflow-gaging stations in Illinois and adjacent States ..... 15

## CONVERSION FACTORS AND DATUM

| Multiply | By | To obtain |
|---|---|---|
| | **Length** | |
| inch (in.) | 25.4 | millimeter |
| foot (ft) | 0.3048 | meter |
| square mile ($mi^2$) | 2.590 | square kilometer |
| | **Area** | |
| cubic foot per second ($ft^3/s$) | 0.02832 | cubic meter per second |

**Temperature** in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$°F = (1.8 \times °C) + 32$$

## DATUM

In this report, "datum" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

# Flooding in Illinois, April-June 2002

***By*** **Charles Avery *and* Daniel F. Smith**

## Abstract

Widespread flooding occurred throughout most of Illinois in spring 2002 as a result of multiple intense rainstorms that moved through the State during an extended 2-month period from the third week in April through the month of May in central and southern Illinois, the first week in June in northern Illinois, and the second week in June in west-central Illinois. The scale of flooding was highly variable in time and intensity throughout the State. A Federal disaster was declared for central and southern Illinois to deal with the extensive damage incurred during the severe weather, and to provide emergency aid relief.

Discharge and stage records for the flood periods described above are presented for 193 streamflow-gaging stations throughout Illinois and in drainages just upstream of the State. New maximum instantaneous discharge was recorded at 12 stations during this flood period, and new maximum stage was recorded at 15 stations. Flood stage was exceeded for at least 1 day during this 2-month period at 67 of the 82 stations with established flood-stage elevations given by the National Weather Service. Of the162 streamflow-gaging stations with an established flood-frequency distribution, a 5-year or greater flood discharge was recorded at 87 stations, and a 100-year or greater flood discharge occurred at six stations.

[1] U.S. Geological Survey, Urbana, Ill.

[2] National Weather Service, National Oceanic and Atmospheric Administration (NOAA), Lincoln, Ill.

## INTRODUCTION

Widespread flooding occurred throughout most of Illinois in spring 2002 as a result of multiple intense rainstorms that moved through the State during an extended period from the third week in April through the entire month of May in central and southern Illinois, the first week in June in northern Illinois, and the second week in June in west-central Illinois. Because the flooding resulted from multiple rainfall events stretched along successive frontal boundaries, many of which stalled as they passed over Illinois, the scale of flooding was highly variable in time and intensity through the State. A Federal disaster area was declared for central and southern Illinois to deal with the extensive damage incurred during the severe weather, and to provide emergency aid relief.

The U.S. Geological Survey (USGS) operates more than 193 active discharge or stage-recording streamflow-gaging stations (as of 2002) throughout Illinois, in drainages just upstream of the State, and on the Mississippi, Ohio, and Wabash Rivers (fig. 1). Most of the selected stations have 10 or more years of record and subsequently have an established flood-frequency distribution relating annual maximum instantaneous peak flows to recurrence intervals at the station (David T. Soong and others, U.S. Geological Survey, written commun., 2002). The method described in Bulletin 17B (Interagency Advisory Committee on Water Data, 1982) was used to compute the flood frequencies. The recurrence interval, which is the reciprocal of the annual exceedance probability, is the statistical average number of years between exceedances of a specified flood magnitude. For example, a flood discharge with a recurrence interval of 100 years has a 1-percent (probability of annual exceedance of 0.01) chance of occurrence in any one year.

## Purpose and Scope

This report documents the maximum instantaneous discharge and stage recorded during flooding from mid-April to mid-June 2002 at selected USGS streamflow-gaging stations in Illinois, selected streamflow-gaging stations in the adjacent States on drainages upstream of Illinois, and streamflow-gaging stations on the Mississippi, Ohio, and Wabash Rivers. The duration of time that stage was above flood stage is shown for gages with established flood-stage elevations. The data presented in this report are considered provisional, and subject to revision until the data are finalized after the completion of this water year[1].

## Flood Damage Assessments

A Federal Disaster Declaration was issued May 21, 2002, by President George W. Bush that provided aid to individuals, families, and businesses in 30 counties in southern Illinois affected by storms, tornadoes, and flooding that began April 21. An amendment to that Declaration issued May 30, 2002, expanded the area to include 68 counties of central and southern Illinois. On June 6, 2002, disaster assistance was expanded to include aid for local governments in 33 counties. The aid to local governments later was expanded on June 21, 2002, to 38 counties. By June 28, 2002, the amount of disaster assistance to individuals and businesses had exceeded $10.3 million (Federal Emergency Management Agency, 2002).

During the flooding, numerous highways and bridges were washed out, inundated, or threatened by high water (figs. 2, 3), levees were breached, agricultural land and low-lying residential areas were inundated for extensive periods of time, and several deaths were attributed to lightning strikes, tornado damage, and drownings in the floodwaters.

[1] The water year is the 12-month period from October 1 to September 30, and designated by the year in which it ends, during which streamflow data are collected, compiled, and reported.

## Acknowledgments

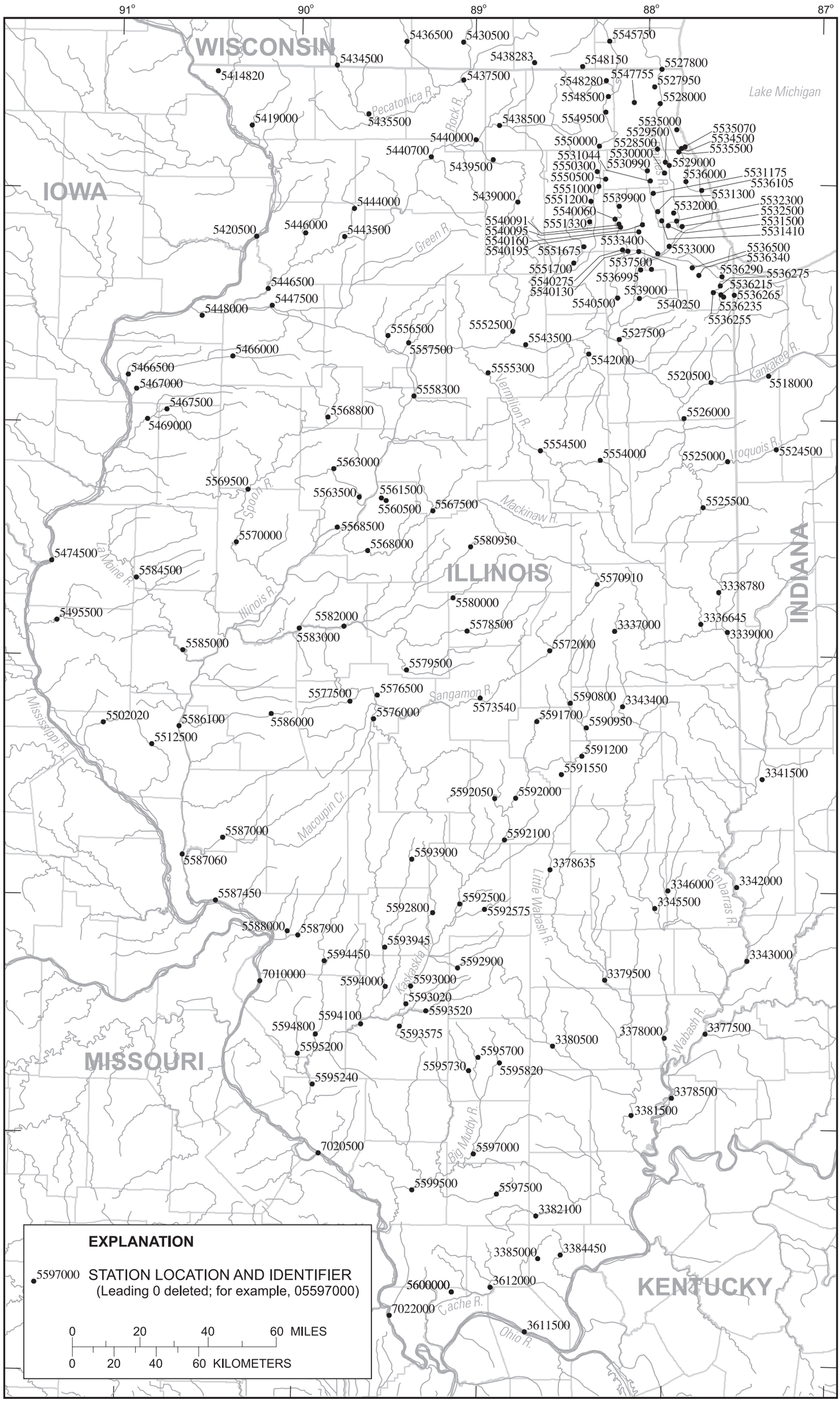
Jennifer Sharpe (USGS) prepared the report illustrations, and James Angel (Illinois State Water Survey) and Daniel Kelly (National Weather Service (NWS), National Oceanic and Atmospheric Administration) provided maps of precipitation distributions estimated for various periods from data obtained from the NWS cooperative observer network.

# METEOROLOGICAL CONDITIONS AND RAINFALL DISTRIBUTION

During the third week of April 2002, atmospheric steering currents evolved into a broad southwesterly flow, which translates to a much more active weather pattern in the Midwest, and generally persisted until the middle of June. An active jet stream pattern developed with the polar and subtropical jet streams both contributing to conditions that produced multiple episodes of appreciable rainfall across Illinois.

On April 19, a cold front moved across Illinois and became stationary over central Illinois. Waves of low pressure moved along the stalled frontal boundary and produced a band of moderate to heavy rainfall (1 to 2 in.) during the following several days. The combination of abundant low-level moisture from the Gulf of Mexico, a stationary east-west frontal boundary, and the presence of the upper-level (25,000 ft) jet contributed to produce the widespread rainfall.

In the last week of April, several strong low-pressure systems and frontal boundaries moved across the Midwest. A rainfall event in the region on April 24-25 was aided by a merging of the polar and subtropical jet streams over the Midwest. The strong lift associated with the merging jets, the influx of low-level moisture from the Gulf of Mexico, and frontal activity across the Midwest combined to produce the widespread heavy rainfall. On April 27, a more intense low-pressure system approached the Midwest from the southern Rockies and produced another heavy rainfall event. Total precipitation in Illinois during April 2002 ranged from less than 3 in. to more than 8 in. (Illinois State Water Survey, 2002). Normal precipitation in Illinois during April ranges from about 3.3 to 4.7 in.




Base from U.S. Geological Survey, 1:100,000 Digital Data
Albers Equal-Area Conic projection, standard parallels 33° and 45°, central meridian -89°

**Figure 1.** Selected U.S. Geological Survey streamflow-gaging stations in Illinois, in drainages just upstream of the State, and on the Mississippi, Ohio, and Wabash Rivers.

**Figure 2.** Water from the Sangamon River flowing over Business Route I-55 at Riverside Park between Springfield and Sherman, Ill. The stage at the Sangamon River at Riverton, Ill. (05576500) at the time of the photograph was 29.31 feet. Photograph by Daniel Smith, National Weather Service, Lincoln, Ill.

**Figure 3.** The river stage at the bridge deck of the State Highway 1 bridge over the Embarras River at Lawrenceville, Ill. Photograph by Daniel Smith, National Weather Service, Lincoln, Ill.

The weather pattern across the Midwest started to change during the first 2 weeks in May. The polar jet began its normal migration northward, although the subtropical jet still was active out of the southwestern United States. Heavy rainfall and severe weather continued to be a problem in southern Illinois during the first week of May. On May 11, an area of low pressure and its attendant frontal boundary developed west of Illinois and started tracking slowly eastward across the State. Mid- to high-level moisture (15,000-25,000 ft) provided in large part by the subtropical jet and transport of moisture from the Gulf of Mexico at low levels (less than 5,000 ft) brought in tremendous amounts of moisture to the State. The 3-day rainfall amounts (fig. 4) for this storm ranged from less than 1 in. in extreme northern Illinois to greater than 5 in. at several widely separated raingages in central Illinois. Total precipitation in Illinois during May 2002 ranged from less than 2 in. to more than 12 in. (Illinois State Water Survey, 2002). Normal precipitation in Illinois during May ranges from about 3.4 to 4.6 in.

More rainfall events occurred across Illinois during the first 2 weeks of June. A stalled frontal boundary over the northern part of Illinois produced over 8 in. of rain in the northwestern part of the State during June 3-4. On June 11, low pressure aloft began to move towards the center of the Nation and transported high dew-point air (greater than 70°F dew points) into the Midwest ahead of an approaching frontal boundary. Although the contribution from the upper levels (jet stream dynamics) was not as prolific as in the April and May events, an appreciable rainfall event occurred across central Illinois as the thunderstorms interacted with a slow moving frontal boundary. The pattern was more typical of a heavy mid-summer rainfall event in which cells develop and "back build" to the west, which leads to storms continually moving over the same location (commonly referred to as training). By the time the low-level pattern supporting the training of cells across central Illinois broke down, rainfall amounts greater than 6 in. had occurred in the western and central sections of Illinois (fig. 5). This rain fell on generally the same area that received large amounts of rain in April and May, and aggravated an already serious flooding situation across central Illinois.

Total amounts of rain for the 2-month period from mid-April to mid-June, 2002 ranged from less than 8 in. in extreme northeastern Illinois to over 23 in. in the central part of the State (Illinois State Water Survey, 2002; Daniel Kelly, National Weather Service, written commun., 2002). For comparison, annual precipitation in the State normally ranges from about 35 in. in the north to 46 in. in the south.

## FLOODING IN ILLINOIS, APRIL-JUNE 2002

### Kaskaskia River Drainage

Seven new maximum discharge values were recorded at streamflow-gaging stations during this period of flooding in the Kaskaskia River drainage (table 1, on page 15). Most of the records were broken as result of the rainfall during the first 2 weeks of May. Five-year or greater flood discharges occurred at all the stations, except for two stations on small tributaries in the southwestern part of the drainage. The discharge recorded at Kaskaskia River near Cowden, Ill. (05592100) was determined to have been a 500-year flood discharge.

Stage at the three streamflow-gaging stations on the Kaskaskia River with established flood-stage elevations (by the NWS) was above flood stage for 22 days or more; Kaskaskia River near Cowden, Ill. (05592100) was intermittently above flood stage for 24 days (fig. 6). Eight new record stage values were recorded. The stage recorded at Kaskaskia River at Vandalia, Ill. (05592500) during the highest flows was affected by levee breaks upstream of the station and, thus, is not applicable to the discharge.

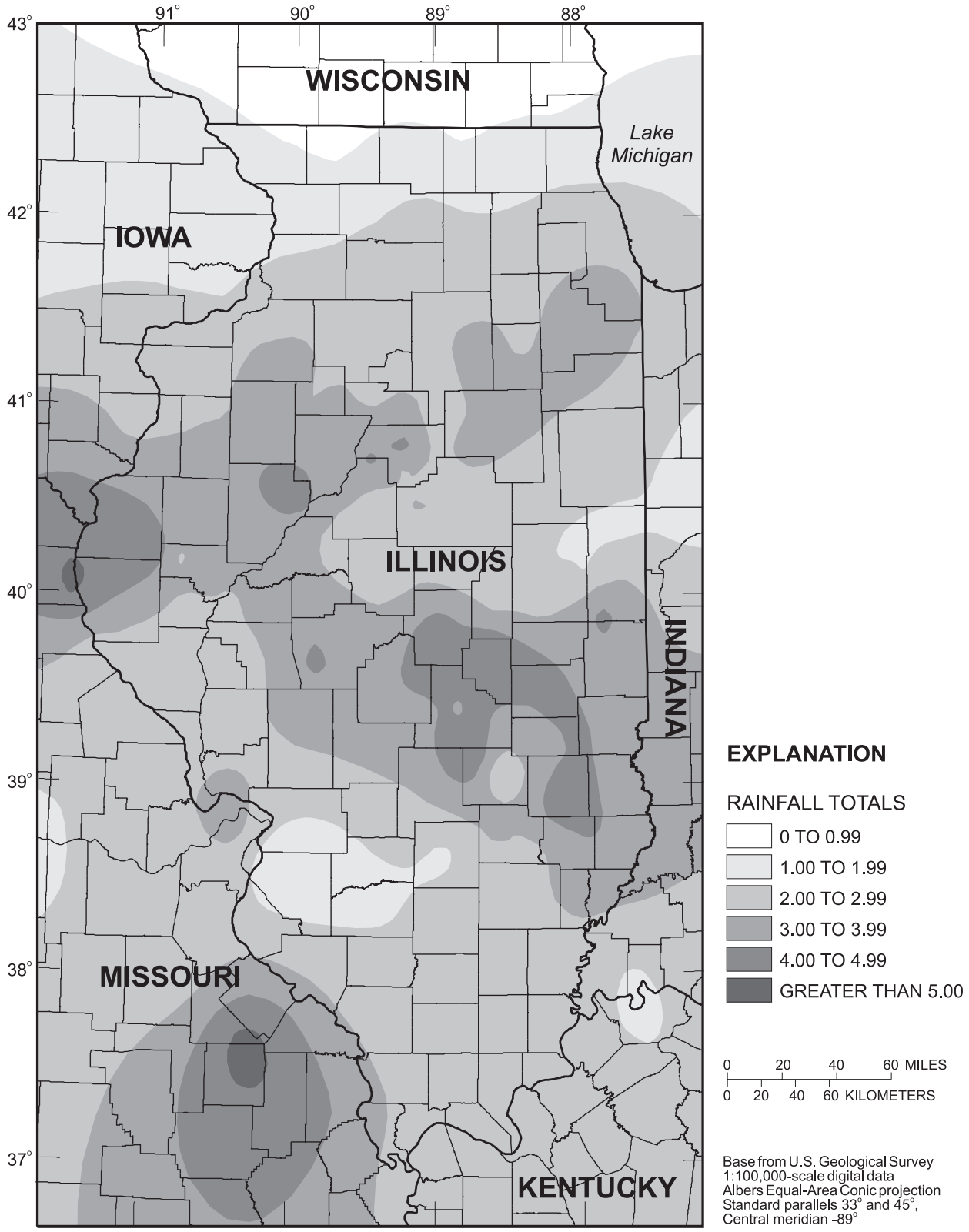



**Figure 4.** Provisional rainfall totals for Illinois, May 11-13, 2002, from the National Weather Service Cooperative Observer Network.

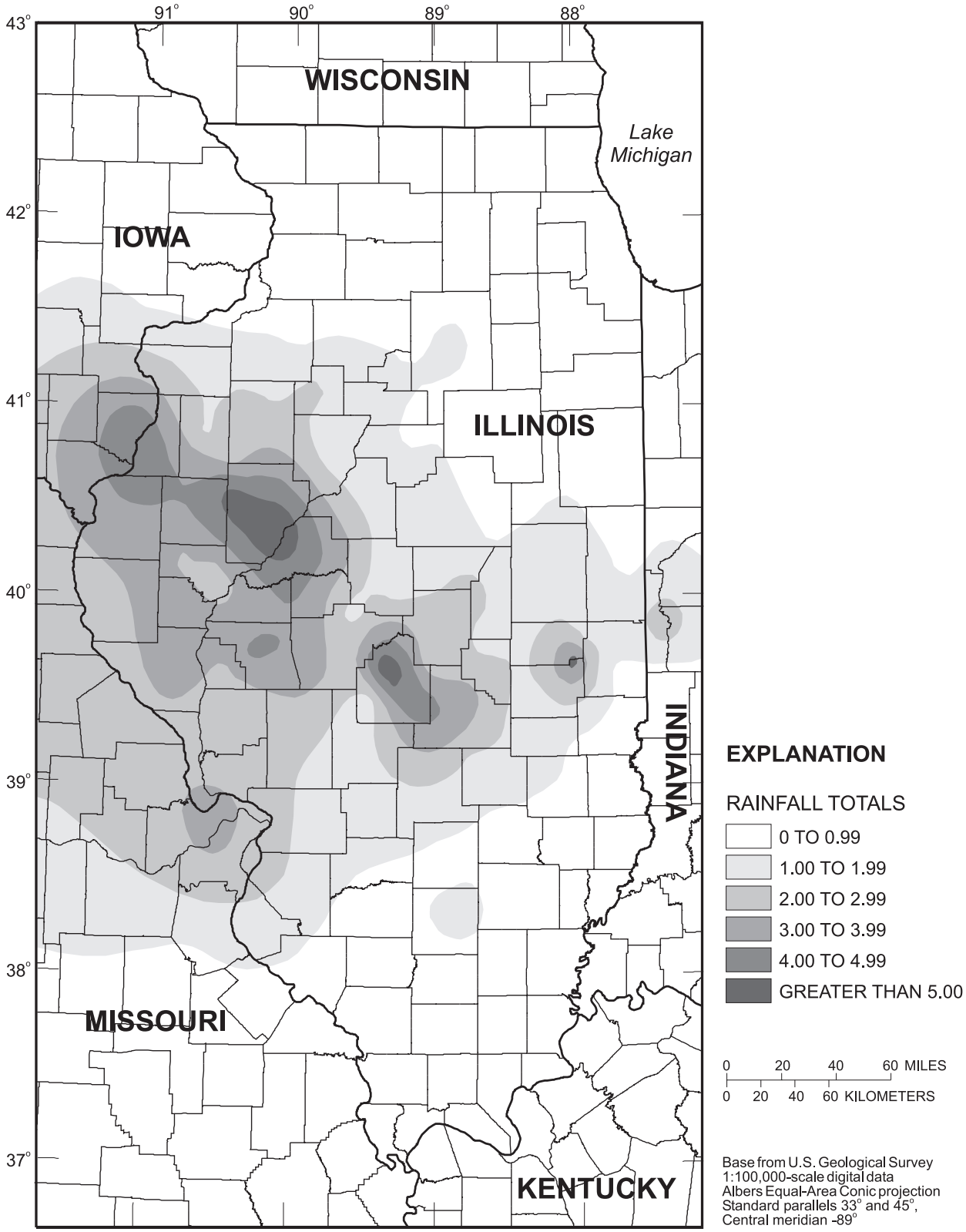



**Figure 5.** Provisional rainfall totals for Illinois, June 12-13, 2002, from the National Weather Service Cooperative Observer Network.

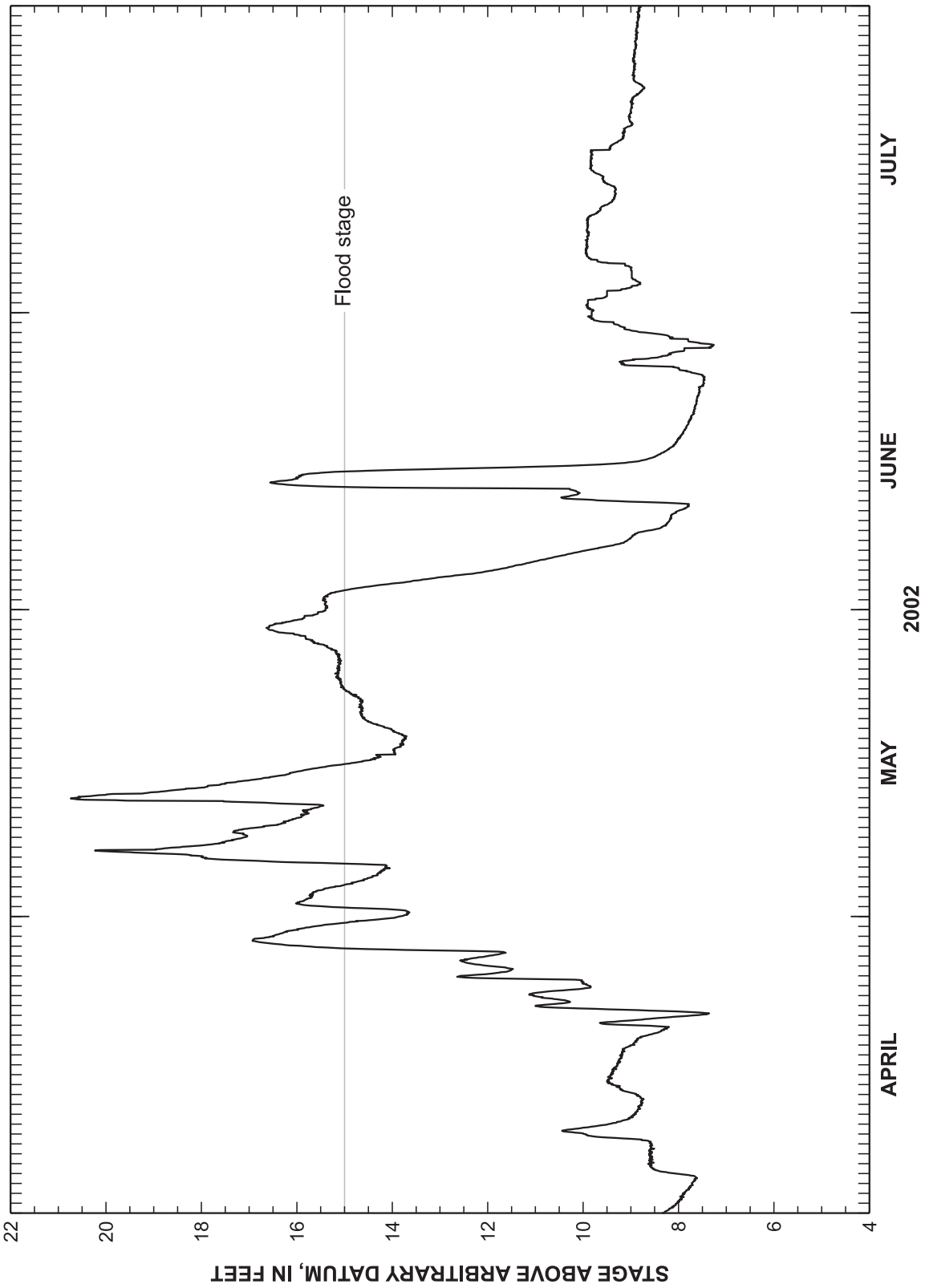



**Figure 6.** Hydrograph of the stage of Kaskaskia River near Cowden, Ill. (05592100), April-July 2002.

## Wabash River Drainage

A new maximum discharge was recorded at Little Wabash River near Effingham, Ill. (03378635) and was determined to have been about a 500-year flood discharge. Five-year or greater flood discharges occurred at all stations, except for Skillet Fork at Wayne City, Ill. (033080500) and the three stations in the Vermilion River drainage. The maximum flooding in the Wabash River drainage occurred as a result of the storms during the first 2 weeks of May.

Stage exceeded flood stage for 14 days or more at 8 of the 11 stations with established flood-stage elevations. Two new maximum stage values were recorded. Little Wabash River at Carmi, Ill. (03381500) was above flood stage for 23 days (fig. 7).

## Illinois River Drainage

The greatest flooding within the Illinois River drainage occurred along the Sangamon River. A new maximum discharge was recorded at Sangamon River at Route 48 at Decatur, Ill. (05573540) and was determined to be about a 500-year flood discharge. Streamflow-gaging stations on tributary streams in the northern part of the Sangamon River drainage and other drainages tributary to the Illinois River north of the Sangamon River generally recorded 2-year or less flood discharges but stations on the main stem of the lower Sangamon River recorded 50-year or greater flood discharges. A new maximum stage value was recorded at South Fork Sangamon River near Rochester, Ill. (05576000). The maximum flooding in the Illinois River drainage occurred as a result of the storms during the first 2 weeks of May.

Stations in the Kankakee and Iroquois River drainages recorded 2- to 10-year flood discharges. The highest magnitude flooding occurred at Kankakee River at Momence, Ill. (05520500) and Iroquois River near Foresman, Ind. (05524500).

No large-magnitude flooding occurred in the Des Plaines and Fox River drainages. A 10-year flood discharge was recorded at Deer Creek near Chicago Heights, Ill. (05536235). A 500-year flood discharge was recorded at Tyler Creek at Elgin, Ill. (05550300), but the drainage probably has been affected by recent urbanization in the basin that has changed the flood-frequency distribution. Illinois River at Marseilles, Ill. (05543500) recorded a 10-year flood discharge, probably the result of combined inflows from the minor flooding simultaneously occurring on the Du Page, Des Plaines and Kankakee Rivers. All the flooding in the Fox River drainage occurred from the storms during the first week in June.

In the lower part of the Illinois River drainage, 10- to 25-year flood discharges were recorded at streamflow-gaging stations on the LaMoine River and Macoupin Creek, with a 10-year flood discharge recorded at Illinois River at Valley City, Ill. (05586100).

No new maximum stages were recorded in the Illinois River drainage. The Illinois River at Henry, Ill. (05558300) recorded 17 days above flood stage, whereas Illinois River at Hardin, Ill. (05587060) recorded 55 days above flood stage (fig. 8). South Fork Sangamon River near Rochester, Ill. (05576000) recorded 40 days above flood stage, whereas Sangamon River at Riverton, Ill. (05576500) recorded 35 days above flood stage.

## Rock River Drainage

A new maximum discharge was recorded at Rock River near Joslin, Ill. (05447500). The higher-magnitude flood discharges (5 years and greater) generally were confined to the lower reaches of the Rock River drainage, such as Rock Creek at Morrison, Ill. (05446000) with a 100-year flood discharge. An exception was Kishwaukee River near Perryville, Ill. (05440000), which recorded a 10-year flood discharge. All of the high flows in the Rock River drainage occurred as a result of storms during the first week of June.

New maximum stages were recorded at Rock River near Joslin, Ill. (05447500) and Rock Creek at Morrison, Ill. (05446000). Rock River near Joslin, Ill. (05446500) was above flood stage for 9 days (fig. 9), whereas Pecatonica River at Freeport, Ill. (05435500) and Kishwaukee River near Perryville, Ill. (05440000) were above flood stage for 5 days.

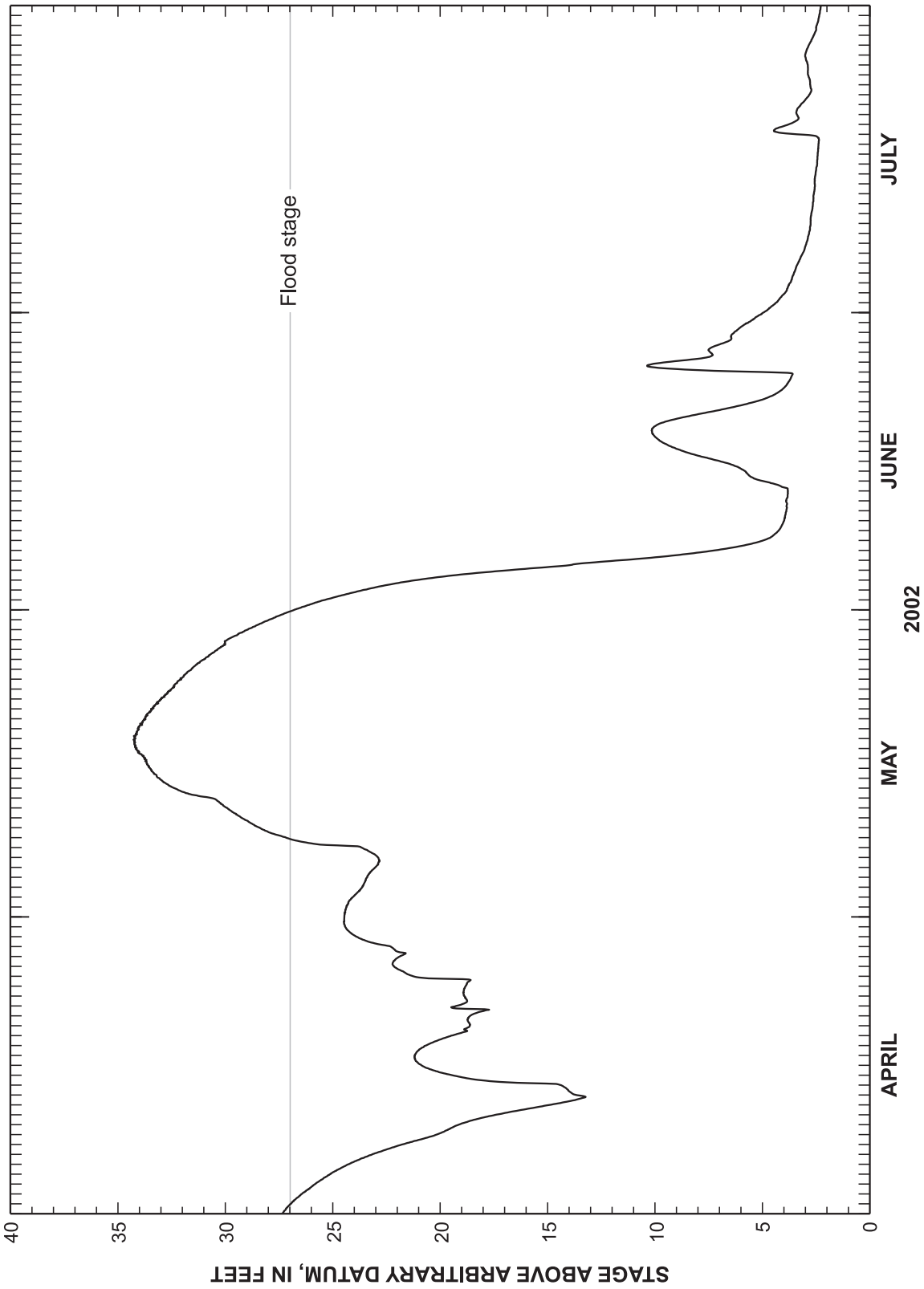



**Figure 7.** Hydrograph of the stage of Little Wabash River at Carmi, Ill. (03381500), April-July 2002.

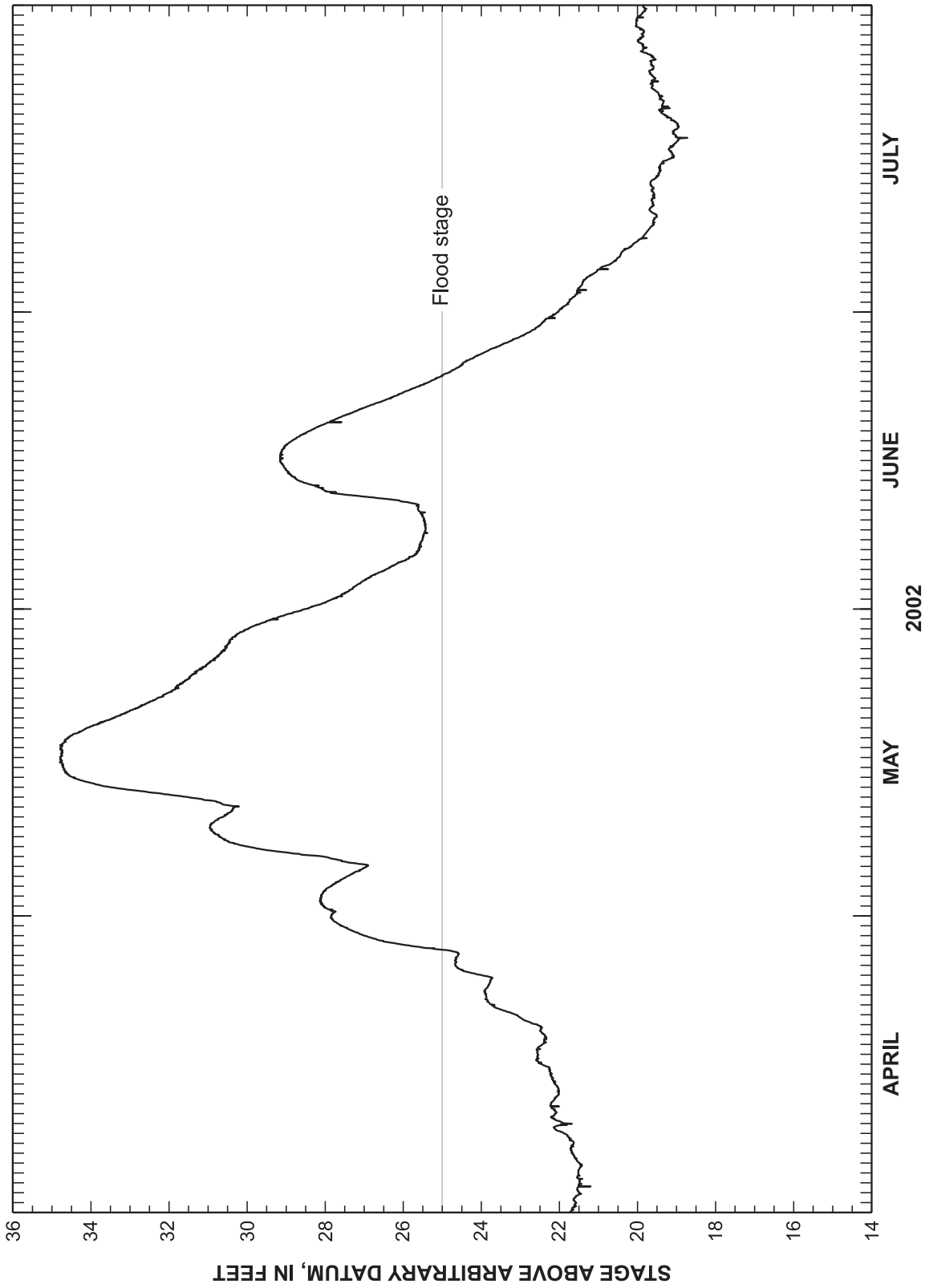



**Figure 8.** Hydrograph of the stage of Illinois River at Hardin, Ill. (05587060), April-July 2002.

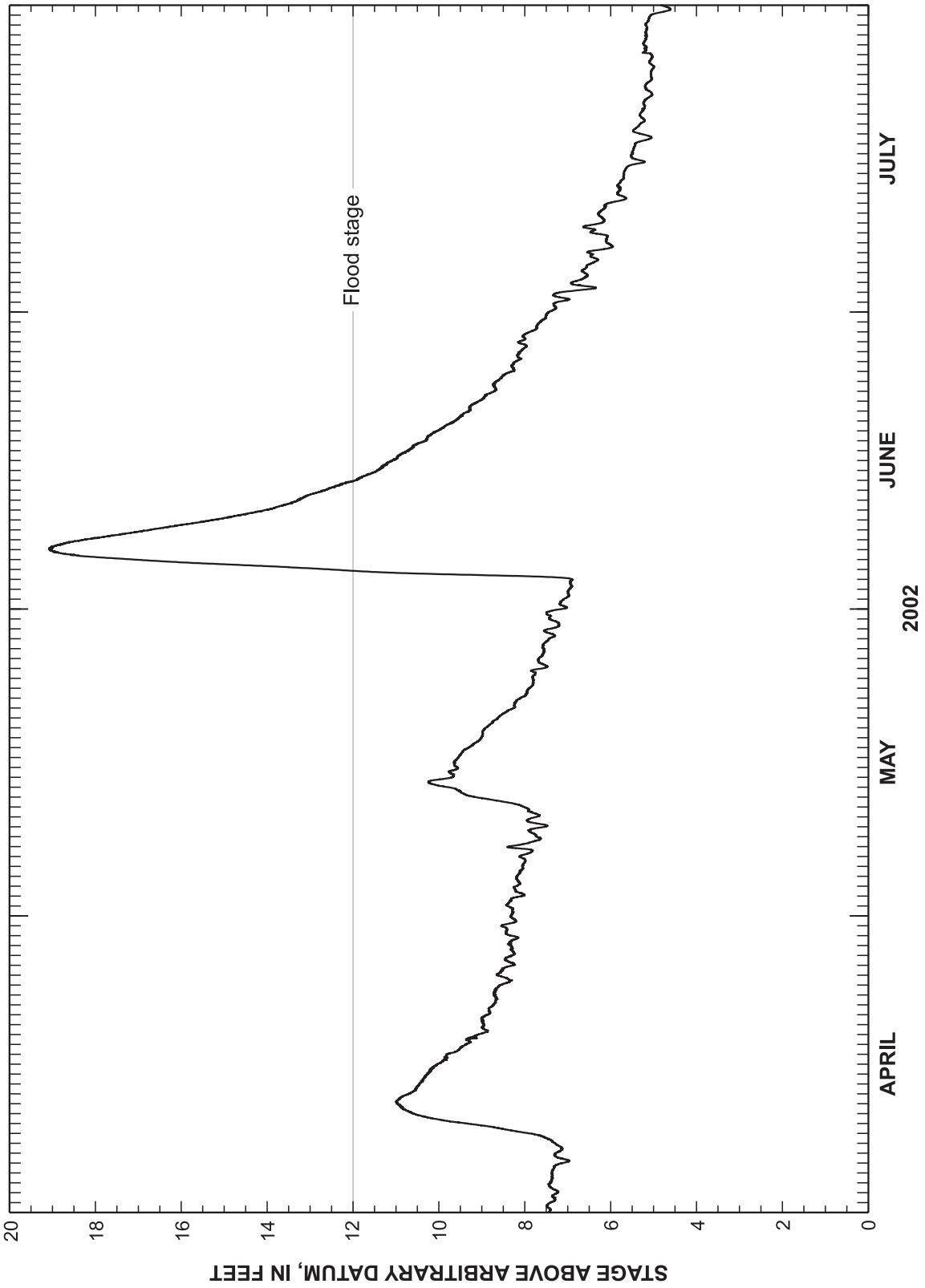



**Figure 9.** Hydrograph of the stage of Rock River near Joslin, Ill. (05446500), April-July 2002.

## Other Tributaries to the Mississippi and Ohio Rivers

A new maximum discharge and stage was recorded at Apple River near Hanover, Ill. (05419000) and the discharge was determined to be a 50-year flood discharge. Bear Creek near Marcelline, Ill. (05495500) recorded a 20-year flood discharge. Sinsinawa River near Menominee, Ill. (05414820), Green River near Geneseo, Ill. (05447500), Cahokia Creek at Edwardsville, Ill. (05587900), and Pope Creek near Keithsburg, Ill. (05467000) recorded 10-year flood discharges. The remainder of the streamflow-gaging stations on other tributaries to the Mississippi and Ohio Rivers recorded 5-year or less flood discharges. Flooding in northwestern Illinois was the result of storms during the first week of June. Flooding in west-central Illinois occurred during the first 2 weeks of May and minor flooding again occurred during the second week of June.

## SUMMARY

Widespread flooding occurred throughout most of Illinois in spring 2002 as a result of multiple intense rainstorms that moved through the State during an extended period from the last 2 weeks in April through the month of May in central and southern Illinois, the first week in June in northern Illinois, and the second week in June in west-central Illinois. Discharge or stage records for this flood period are presented for 193 streamflow-gaging stations throughout Illinois and in drainages just upstream of the State.

New maximum instantaneous discharge was recorded at 12 streamflow-gaging stations during this flood period, and new maximum stage was recorded at 15 stations. Flood stage was exceeded for at least 1 day during this 2-month period at 67 of the 82 stations with established flood-stage elevations determined by the National Weather Service. Of the 162 streamflow-gaging stations for which flood-frequency distributions have been determined, a 5-year or greater flood discharge was recorded at 87 stations. A 100-year or greater flood discharge was recorded at 6 stations.

## REFERENCES CITED

Federal Emergency Management Agency, 2002, Information on Federally declared disasters: accessed August 5, 2002, at URL http://www.fema.gov/diz02/d1416.shtm

Illinois State Water Survey, 2002, Maps and data of the Heavy Spring 2002 Rainfall in the Midwest: accessed August 12, 2002, at URL http://www.sws.uiuc.edu/atmos/statecli/Flood2002/flood2002.htm

Interagency Advisory Committee on Water Data, 1982, Guidelines for determining flood flow frequency: Hydrology Subcommittee Bulletin 17B, 28 p. and appendixes.

**Table 1.** Flood-flow data at selected U.S. Geological Survey streamflow-gaging stations in Illinois and adjacent States

[Stage and discharge values in bold type are new maximums for the period of record at the station; $ft^3/s$, cubic feet per second; NWS, National Weather Service; --, not available or applicable; ne, flood-frequency distribution not established; >, greater than; <, less than]
Current (2002) type of record: Q, continuous stage and discharge; GH, continuous stage; CS, annual maximum discharge (crest-stage gage).

| | | | | | Previous maximum flood | | | | | Flood period of April 19-June 20, 2002 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Station number | Station Name | Drainage area, in square miles | Period of record, water years (may include gaps in record) | Current type of record | Maximum discharge, in $ft^3/s$ | Maximum stage, in feet above arbitrary datum | Water year of maximum peak | Water year of maximum stage, if different than date of maximum peak | Approximate recurrence interval of maximum discharge, in years | Date of maximum discharge | Maximum discharge, in $ft^3/s$ | Maximum stage, in feet above arbitrary datum | Approximate recurrence interval of maximum discharge, in years | Flood stage (NWS), in feet above arbitrary datum | Period, in days, of daily mean stage above flood stage |
| 03336645 | Middle Fork Vermilion River above Oakwood, IL | 432 | 1979-current | Q | 15,500 | 20.46 | 1994 | -- | 50 | 12-May | 4,490 | 8.34 | 1.25 | -- | -- |
| 03337000 | Boneyard Creek at Urbana, IL | 4.46 | 1948-current | Q | 946 | 9.93 | 1993 | -- | 25 | 11-Jun | 535 | 18.33[b] | 2 | -- | -- |
| 03338780 | North Fork Vermilion River near Bismarck, IL | 262 | 1989-current | Q | 20,100 | 22.45 | 1990\1994 | 1994 | 15 | 13-May | 3,620 | 12.31 | 1.25 | -- | -- |
| 03339000 | Vermilion River near Danville, IL | 1,290 | 1915-current | Q | 48,700 | 31.56 | 1939 | 1994 | 200 | 13-May | 15,500 | 18.54 | 2 | 18.0 | 1 |
| 03341500 | Wabash River at Terre Haute, IN | 12,263 | 1928-current | Q | 189,000 | 30.50 | 1943 | -- | 200 | 15-May | 78,500 | 23.26 | 5 | 14.0 | >22 |
| 03342000 | Wabash River at Riverton, IN | 13,161 | 1939-current | Q | 201,000 | 29.36 | 1943 | -- | 200 | 17-May | 86,400 | 22.81 | 5 | 15.0 | 44 |
| 03343000 | Wabash River at Vincennes, IN | 13,706 | 1930-current | GH | -- | 29.33 | 1943 | -- | ne | 17-May | -- | 26.66 | ne | 17.5 | 27 |
| 03343400 | Embarras River near Camargo, IL | 186 | 1961-current | Q | 8,040 | 17.33 | 1994 | -- | 50 | 13-May | 7,540 | 17.04 | 50 | -- | -- |
| 03345500 | Embarras River at Ste. Marie, IL | 542 | 1908-current | Q | 44,800 | 26.54 | 1950 | 1957 | 50 | 13-May | 38,300 | 26.28 | 20 | 19.0 | 14 |
| 03346000 | North Fork Embarras River near Oblong, IL | 318 | 1941-current | Q | 27,100 | 24.38 | 1950 | -- | 60 | 13-May | 17,000 | 23.13 | 10 | 19.0 | 3 |
| 03346500 | Embarras River at Lawrenceville, IL | 2,333 | 2002-current | Q | -- | -- | -- | -- | ne | 16-May | 41,800 | 41.56 | ne | -- | -- |
| 03377500 | Wabash River at Mount Carmel, IN | 28,635 | 1928-current | Q | 305,000 | 27.54 | 1943 | -- | 80 | 17-May | 237,000 | **32.35** | 20 | 19.0 | 43 |
| 03378000 | Bonpas Creek at Browns, IL | 228 | 1941-current | Q | 7,500 | 24.04 | 1961 | -- | 80 | 14-May | 5,320 | 22.32[b] | 15 | -- | -- |
| 03378500 | Wabash River at New Harmony, IN | 29,234 | 1939-current | GH | -- | 23.84 | 1943 | -- | ne | 18-May | -- | 21.79 | ne | 15.0 | 42 |
| 03378635 | Little Wabash River near Effingham, IL | 240 | 1967-current | Q | 17,800 | 21.19 | 1996 | -- | 50 | 13-May | **32,000** | **24.34** | 500 | -- | -- |
| 03379500 | Little Wabash River below Clay City, IL | 1,131 | 1915-current | Q | 47,000 | 26.67 | 1950 | -- | 40 | 15-May | 35,900 | 24.66 | 15 | 16.0 | 27 |
| 03380500 | Skillet Fork at Wayne City, IL | 464 | 1909-current | Q | 59,400 | 26.68 | 1990 | 1961 | 200 | 14-May | 7,660 | 16.95 | 2 | 15.0 | 2 |
| 03381500 | Little Wabash River at Carmi, IL | 3,102 | 1940-current | Q | 46,900 | 36.70 | 1961 | 1961 | 100 | 18-May | 37,200 | 34.22 | 30 | 27.0 | 23 |
| 03381700 | Ohio River at Old Shawneetown, IL | 141,000 | 2002-current | Q | -- | -- | -- | -- | ne | 23-May | 640,000 | 44.5 | ne | -- | -- |
| 03382100 | South Fork Saline River nr Carrier Mills, IL | 147 | 1966-current | Q | 5,160 | 16.32 | 1982 | -- | 20 | 14-May | 3,380 | 14.69 | 5 | -- | -- |
| 03384450 | Lusk Creek near Eddyville, IL | 42.9 | 1968-current | Q | 16,100 | 27.78 | 1985 | -- | 100 | 13-May | 4,680 | 15.67 | 2 | -- | -- |
| 03385000 | Hayes Creek at Glendale, IL | 19.1 | 1950-current | CS | 9,450 | 19.14 | 1985 | -- | 200 | 13-May | 2,030 | 14.17 | 2 | -- | -- |
| 03611500 | Ohio River at Metropolis, IL | 203,000 | 1928-current | Q | 1,850,000 | 66.60 | 1937 | -- | ne | 24-May | 822,000 | 52.69[c] | ne | -- | -- |
| 03612000 | Cache River at Forman, IL | 244 | 1923-current | Q | 9,630 | 42.29 | 1935 | -- | 25 | 15-May | 6,050 | 33.18[b] | 5 | -- | -- |
| 05414820 | Sinsinawa River near Menominee, IL | 39.6 | 1968-current | Q | 17,000 | 14.37 | 1999 | -- | 50 | 4-Jun | 7,630 | 12.01 | 10 | -- | -- |
| 05419000 | Apple River near Hanover, IL | 247 | 1935-current | Q | 12,000 | 26.12 | 1946 | -- | 25 | 4-Jun | **13,700** | **27.91** | 50 | 20.0 | 1 |
| 05420500 | Mississippi River at Clinton, IA | 85,600 | 1874-current | Q | 307,000 | 24.65 | 1965 | -- | ne | 25-Apr | 168,000 | 17.26 | ne | 17.0 | 3 |
| 05430500 | Rock River at Afton, WI | 3,340 | 1914-current | Q | 13,000 | 13.05 | 1929 | 1916 | 50 | 20-Apr | 4,200 | 6.99 | 1.25 | 9.0 | 0 |
| 05434500 | Pecatonica River at Martintown, WI | 1,034 | 1940-current | Q | 15,100 | 21.46 | 1969 | -- | 30 | 7-Jun | 3,060 | 13.57 | 1.25 | 13.5 | 1 |
| 05435500 | Pecatonica River at Freeport, IL | 1,326 | 1914-current | Q | 18,400 | 19.76 | 1929 | -- | 25 | 6-Jun | 4,880 | 13.54 | 2 | 13.0 | 5 |
| 05436500 | Sugar River near Brodhead, WI | 523.00 | 1914-current | Q | 14,800 | 11.40 | 1915 | -- | 70 | 5-Jun | 1,410 | 4.41 | 1.25 | 5.0 | 0 |

**Table 1.** Flood-flow data at selected U.S. Geological Survey streamflow-gaging stations in Illinois and adjacent States—Continued

| Station number | Station Name | Drainage area, in square miles | Period of record, water years (may include gaps in record) | Previous maximum flood | | | | | | Flood period of April 19-June 20, 2002 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Current type of record | Maximum discharge, in $ft^3/s$ | Maximum stage, in feet above arbitrary datum | Water year of maximum peak | Water year of maximum stage, if different than date of maximum peak | Approximate recurrence interval of maximum discharge, in years | Date of maximum discharge | Maximum discharge, in $ft^3/s$ | Maximum stage, in feet above arbitrary datum | Approximate recurrence interval of maximum discharge, in years | Flood stage (NWS), in feet above arbitrary datum | Period, in days, of daily mean stage above flood stage |
| 05437500 | Rock River at Rockton, IL | 6,363 | 1904-current | Q | 32,500 | 15.54 | 1916 | 1975 | 50 | 9-Jun | 13,400 | 8.84b | 1.25 | 10.0 | 0 |
| 05438283 | Piscasaw Creek near Walworth, WI | 9.58 | 1993-current | Q | 571 | 10.05 | 1999 | 1993 | ne | 4-Jun | 90 | 6.42 | ne | -- | -- |
| 05438500 | Kishwaukee River at Belvidere, IL | 538 | 1940-current | Q | 11,900 | 14.19 | 1994 | -- | 25 | 5-Jun | 4,570 | 9.32 | 2 | 9.0 | 1 |
| 05439000 | South Branch Kishwaukee River at DeKalb, IL | 77.7 | 1926-current | Q | 3,500 | 15.80 | 1983 | -- | 200 | 5-Jun | 1,090 | 9.86 | 2 | -- | -- |
| 05439500 | South Branch Kishwaukee River nr Fairdale, IL | 387 | 1940-current | Q | 25,400 | 13.37 | 1996 | -- | 500 | 4-Jun | 10,900 | 10.95 | 1.25 | -- | -- |
| 05440000 | Kishwaukee River near Perryville, IL | 1,099 | 1940-current | Q | 24,200 | 23.54 | 1996 | -- | 50 | 5-Jun | 15,700 | 18.59 | 10 | 12.0 | 5 |
| 05440700 | Rock River at Byron, IL | 7,990 | 2000-current | Q | -- | -- | -- | -- | ne | 5-Jun | 31,600 | 14.72 | ne | -- | -- |
| 05443500 | Rock River at Como, IL | 8,753 | 1915-current | Q | 59,700 | 17.51 | 1973 | 1938 | 70 | 5-Jun | 49,100 | 13.69 | 20 | 10.0 | 2 |
| 05444000 | Elkhorn Creek near Penrose, IL | 146 | 1940-current | Q | 6,770 | 17.75 | 1974 | 1946 | 20 | 5-Jun | 4,720 | 13.84 | 5 | -- | -- |
| 05446000 | Rock Creek at Morrison, IL | 164 | 1940-2000 | CS | 5,770 | 17.12 | 1946 | 1990 | 200 | 5-Jun | 5,230 | **17.84**[bd] | 100 | -- | -- |
| 05446500 | Rock River near Joslin, IL | 9,549 | 1940-current | Q | 46,500 | 18.88 | 1993 | 1997 | 20 | 7-Jun | **47,700** | **19.24** | 20 | 12.0 | 9 |
| 05447500 | Green River near Geneseo, IL | 1,003 | 1936-current | Q | 12,100 | 21.59 | 1974 | 1969 | 30 | 5-Jun | 9,520 | 17.93 | 10 | 15.0 | 2 |
| 05448000 | Mill Creek at Milan, IL | 62.4 | 1940-current | Q | 9,300 | 12.65 | 1973 | -- | 50 | 12-May | 1,520 | 5.98 | 1.25 | -- | -- |
| 05466000 | Edwards River near Orion, IL | 155 | 1941-current | Q | 8,910 | 15.52 | 1951 | 1974 | 50 | 12-May | 3,880 | 14.17 | 2 | -- | -- |
| 05466500 | Edwards River near New Boston, IL | 445 | 1935-current | Q | 18,000 | 23.33 | 1973 | -- | 500 | 15-May | 4,300 | 22.11 | 2 | -- | -- |
| 05467000 | Pope Creek near Keithsburg, IL | 174 | 1935-current | Q | 8,900 | 29.25 | 1973 | 2001 | 60 | 12-May | 4,840 | 28.04 | 10 | -- | -- |
| 05468500 | Cedar Creek at Little York, IL | 132 | 1941-current | CS | 18,100 | 18.76 | 1993 | -- | 100 | 13-Jun | 3,080 | 15.05 | 5 | -- | -- |
| 05469000 | Henderson Creek near Oquawka, IL | 432 | 1935-current | Q | 34,600 | 32.65 | 1982 | 1993 | 200 | 14-Jun | 6,530 | 25.56 | 2 | -- | -- |
| 05474500 | Mississippi River at Keokuk, IA | 119,000 | 1878-current | Q | 446,000 | 27.58 | 1993 | -- | ne | 29-Apr | 193,100 | -- | ne | 16.0 | ne |
| 05495500 | Bear Creek near Marcelline, IL | 349 | 1944-current | Q | 35,500 | 28.38 | 1996 | 1985 | 100 | 12-May | 23,700 | 23.56 | 20 | -- | -- |
| 05502020 | Hadley Creek near Barry, IL | 40.9 | 1956-current | CS | 9,000 | 15.31 | 1973\1979 | -- | 25 | 11-May | 3,630 | 9.56 | 2 | -- | -- |
| 05512500 | Bay Creek at Pittsfield, IL | 39.4 | 1940-current | Q | 13,700 | 14.92 | 1993 | -- | 15 | 6-May | 5,270 | 12.22 | 2 | -- | -- |
| 05518000 | Kankakee River at Shelby, IN | 1,779 | 1923-current | Q | 7,650 | -- | 1982 | -- | 300 | 19-May | 5,110 | 11.72 | 5 | 9.0 | 24 |
| 05520500 | Kankakee River at Momence, IL | 2,294 | 1915-current | Q | 16,000 | 10.51 | 1979 | -- | 500 | 12-May | 10,300 | 5.85 | 10 | 5.0 | 3 |
| 05524500 | Iroquois River near Foresman, IN | 449 | 1949-current | Q | 5,930 | 24.42 | 1958 | -- | 70 | 13-May | 4,230 | 19.32[c] | 10 | -- | -- |
| 05525000 | Iroquois River at Iroquois, IL | 686 | 1945-current | Q | 10,400 | 26.31 | 1958 | -- | 200 | 14-May | 4,440 | 19.91 | 2 | 18.0 | 7 |
| 05525500 | Sugar Creek at Milford, IL | 446 | 1949-current | Q | 22,900 | 28.16 | 1951 | 1994 | 50 | 13-May | 7,920 | 20.38 | 2 | -- | -- |
| 05526000 | Iroquois River near Chebanse, IL | 2,091 | 1924-current | Q | 27,000 | 21.68 | 1933 | 1979 | 25 | 13-May | 18,500 | 15.41 | 5 | 16.0 | 0 |
| 05527500 | Kankakee River near Wilmington, IL | 5,150 | 1915-current | Q | 75,900 | 13.88 | 1957 | 1968 | 40 | 13-May | 44,600 | 8.17 | 5 | 5.0 | 6 |
| 05527800 | Des Plaines River at Russell, IL | 123 | 1960-current | Q | 2,130 | 10.75 | 2000 | 1976\1986 | 25 | 13-Apr | 527 | 6.87 | 2 | 7.0 | 0 |
| 05527950 | Mill Creek at Old Mill Creek, IL | 61.0 | 1962-current | Q | 1,160 | 12.88 | 1999 | 1976 | 15 | 4-Jun | 411 | 10.31 | 1.25 | -- | -- |
| 05528000 | Des Plaines River near Gurnee, IL | 232 | 1946-current | Q | 3,530 | 11.95 | 1986 | -- | 100 | 13-Apr | 734 | 5.59 | 1.25 | 7.0 | 0 |
| 05528500 | Buffalo Creek near Wheeling, IL | 19.6 | 1953-current | Q | 887 | 7.94 | 1982 | -- | 50 | 4-Jun | 296 | 5.22 | 1.25 | -- | -- |
| 05529000 | Des Plaines River near Des Plaines, IL | 360 | 1941-current | Q | 4,900 | 10.88 | 1986 | -- | 60 | 5-Jun | 1,920 | 4.55 | 1.25 | 5.0 | 0 |
| 05529500 | Mc Donald Creek near Mount Prospect, IL | 7.93 | 1953-current | Q | 806 | 8.08 | 1987 | -- | 70 | 4-Jun | 151 | 4.50 | 1.25 | -- | -- |
| 05530000 | Weller Creek at Des Plaines, IL | 13.2 | 1951-current | Q | 1,590 | 15.09 | 1967 | -- | 30 | 11-May | 691 | 6.34 | 1.25 | -- | -- |
| 05530990 | Salt Creek at Rolling Meadows, IL | 30.5 | 1974-current | Q | 1,650 | 14.03 | 1987 | -- | 70 | 4-Jun | 805 | 8.33 | 2 | 8.5 | 0 |

**Table 1.** Flood-flow data at selected U.S. Geological Survey streamflow-gaging stations in Illinois and adjacent States—Continued

| Station number | Station Name | Drainage area, in square miles | Period of record, water years (may include gaps in record) | Previous maximum flood | | | | | | Flood period of April 19-June 20, 2002 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Current type of record | Maximum discharge, in $ft^3/s$ | Maximum stage, in feet above arbitrary datum | Water year of maximum peak | Water year of maximum stage, if different than date of maximum peak | Approximate recurrence interval of maximum discharge, in years | Date of maximum discharge | Maximum discharge, in $ft^3/s$ | Maximum stage, in feet above arbitrary datum | Approximate recurrence interval of maximum discharge, in years | Flood stage (NWS), in feet above arbitrary datum | Period, in days, of daily mean stage above flood stage |
| 05531044 | Salt Creek near Elk Grove Village, IL | 51.9 | 1992-current | GH | -- | 14.78 | 1997 | -- | ne | 4-Jun | 954 | 13.47 | ne | -- | -- |
| 05531175 | Salt Creek at Wood Dale, IL | 74.7 | 2000-current | GH | -- | -- | -- | -- | ne | 5-Jun | -- | 12.82 | ne | -- | -- |
| 05531300 | Salt Creek at Elmhurst, IL | 91.5 | 1960-current | Q | 2,230 | 13.56 | 1972 | 1989 | 100 | 5-Jun | 1,240 | 10.84[b] | 2 | -- | -- |
| 05531410 | Salt Creek at 22nd St. at Oakbrook IL | 103 | 1994-current | GH | -- | 55.03 | 1995 | -- | ne | 5-Jun | -- | 53.38 | ne | -- | -- |
| 05531500 | Salt Creek at Western Springs, IL | 115 | 1946-current | Q | 3,540 | 10.54 | 1987 | -- | 500 | 12-May | 1,220 | 7.36 | 2 | 7.5 | 0 |
| 05532000 | Addison Creek at Bellwood, IL | 17.9 | 1952-current | Q | 1,120 | 12.84 | 1987 | -- | 200 | 11-May | 326 | 5.63 | 1.25 | -- | -- |
| 05532300 | Salt Creek at Brookfield, IL (North Riverside) | 146 | 1990-current | GH | -- | 10.63 | 1997 | -- | ne | 12-May | -- | 7.35 | ne | -- | -- |
| 05532500 | Des Plaines River at Riverside, IL | 630 | 1914-current | Q | 9,770 | 9.90 | 1987 | -- | 500 | 12-May | 3,720 | 6.35 | 2 | 6.0 | 3 |
| 05533000 | Flag Creek near Willow Springs, IL | 16.5 | 1951-current | Q | 2,680 | 13.71 | 1961 | -- | 60 | 12-May | 830 | 7.94 | 2 | -- | -- |
| 05533400 | Sawmill Creek near Lemont, IL | 13.0 | 1961-current | Q | 3,070 | 17.53 | 1996 | -- | 200 | 12-May | 1,060 | 13.97 | 5 | -- | -- |
| 05534500 | North Branch Chicago River at Deerfield, IL | 19.7 | 1953-current | Q | 933 | 11.52 | 1987 | -- | 100 | 4-Jun | 415 | 9.64 | 2 | -- | -- |
| 05535000 | Skokie River at Lake Forest, IL | 13.0 | 1952-current | Q | 496 | 8.35 | 1997 | 1982 | 30 | 4-Jun | 273 | 5.38 | 2 | -- | -- |
| 05535070 | Skokie River near Highland Park, IL | 21.1 | 1967-current | Q | 895 | 9.13 | 1987 | 1997 | 30 | 4-Jun | 534 | 8.12 | 2 | -- | -- |
| 05535500 | Wf of Nb Chicago River at Northbrook IL | 11.5 | 1953-current | Q | 1,190 | 10.10 | 1987 | -- | 200 | 11-May | 384 | 5.83 | 1.25 | -- | -- |
| 05536000 | North Branch Chicago River At Niles, IL | 100 | 1951-current | Q | 2,590 | 11.35 | 1987 | -- | 100 | 12-May | 1,270 | 8.03 | 2 | -- | -- |
| 05536105 | Nb Chicago River at Albany Avenue at Chicago, IL | 113 | 1990-current | Q | 2,390 | 6.81 | 1997 | -- | ne | 12-May | 1,360 | 5.58 | ne | -- | -- |
| 05536215 | Thorn Creek at Glenwood, IL | 24.7 | 1950-current | Q | 2,700 | 11.26 | 1996 | 1968 | 50 | 12-May | 1,280 | 9.96 | 5 | -- | -- |
| 05536235 | Deer Creek near Chicago Heights, IL | 23.1 | 1948-current | Q | 1,380 | 11.79 | 1957 | 1990 | 500 | 12-May | 755 | 11.49 | 10 | 10.0 | 2 |
| 05536255 | Butterfield Creek at Flossmoor, IL | 23.5 | 1948-current | Q | 2,220 | 12.59 | 1996 | -- | 30 | 12-May | 949 | 10.52 | 5 | 9.5 | 1 |
| 05536265 | Lansing Ditch near Lansing, IL | 8.84 | 1948-current | Q | 461 | 10.18 | 1948 | 1954 | 70 | 12-May | 126 | 7.88 | 1.25 | -- | -- |
| 05536275 | Thorn Creek at Thornton, IL | 104 | 1948-current | Q | 4,700 | 17.06 | 1957 | 1981 | 30 | 12-May | 2,920 | 14.04 | 5 | 10.0 | 2 |
| 05536290 | Little Calumet River at South Holland, IL | 208 | 1948-current | Q | 4,440 | 20.50 | 1957 | 1990 | 50 | 13-May | 3,260 | 18.38 | 5 | 13.0 | 3 |
| 05536340 | Midlothian Creek at Oak Forest, IL | 12.6 | 1951-current | Q | 627 | 9.00 | 1973 | 1957 | 100 | 12-May | 263 | 4.53 | 2 | 6.0 | 0 |
| 05536500 | Tinley Creek near Palos Park, IL | 11.2 | 1951-current | Q | 2,010 | 10.30 | 1996 | 1954 | 60 | 12-May | 837 | 8.57 | 5 | -- | -- |
| 05536995 | Chicago Sanitary and Ship Canal at Romeoville, IL | 739 | 1985-current | Q | 19,466 | 26.43 | 1997 | 1996 | 100 | 27-Apr | 9,511 | 24.44 | <1.25 | -- | -- |
| 05537500 | Long Run near Lemont, IL | 20.9 | 1951-current | Q | 5,310 | 11.10 | 1996 | -- | 500 | 12-May | 811 | 6.93 | 2 | -- | -- |
| 05539000 | Hickory Creek at Joliet, IL | 107 | 1945-current | Q | 17,300 | 14.90 | 1981 | -- | 200 | 12-May | 4,400 | 7.27 | 5 | 7.0 | 0 |
| 05539900 | W Branch Du Page River nr West Chicago, IL | 28.5 | 1961-current | Q | 984 | 10.78 | 1983 | 1997 | 30 | 4-Jun | 764 | 9.97 | 5 | -- | -- |
| 05540060 | Kress Creek at West Chicago, IL | 18.1 | 1961-current | Q | 1,980 | 9.24 | 1996 | -- | 500 | 12-May | 273 | 6.45 | 2 | -- | -- |
| 05540091 | Spring Brook at Forest Preserve near Warrenville, IL | 6.83 | 1992-current | Q | 393 | 12.60 | 1996 | -- | ne | 12-May | 205 | 10.46 | ne | -- | -- |
| 05540095 | West Br Du Page River near Warrenville, IL | 90.4 | 1969-current | Q | 3,470 | 6.41 | 1996 | -- | 100 | 12-May | 1,600 | 4.13 | 2 | 4.0 | 0 |
| 05540130 | West Branch Du Page River near Naperville, IL | 123 | 1989-current | Q | 6,620 | 14.31 | 1996 | -- | 500 | 12-May | 1,860 | 9.15 | 1.25 | -- | -- |
| 05540160 | E Br Du Page River near Downers Grove, IL | 26.6 | 1961-current | Q | 1,720 | 4.73 | 1972 | -- | 200 | 12-May | 474 | 13.54[b] | 1.25 | -- | -- |
| 05540195 | St. Joseph Creek At U.S. Route 34 at Lisle, IL | 11.1 | 1989-current | Q | 1,280 | 12.89 | 1996 | -- | 30 | 12-May | 437 | 8.48 | 1.25 | -- | -- |
| 05540250 | East Branch Du Page River at Bolingbrook, IL | 75.8 | 1989-current | Q | 3,980 | 23.75 | 1996 | -- | 500 | 12-May | 1,050 | 20.50 | 2 | -- | -- |
| 05540275 | Spring Brook at 87th Street near Naperville, IL | 9.90 | 1988-current | Q | 1,750 | 10.77 | 1996 | -- | 500 | 12-May | 272 | 6.60 | 2 | -- | -- |
| 05540500 | Du Page River at Shorewood, IL | 324 | 1941-current | Q | 17,300 | 14.03 | 1996 | -- | 500 | 12-May | 4,130 | 6.45 | 2 | 8.0 | 0 |

**Table 1.** Flood-flow data at selected U.S. Geological Survey streamflow-gaging stations in Illinois and adjacent States—Continued

| Station number | Station Name | Drainage area, in square miles | Period of record, water years (may include gaps in record) | Previous maximum flood | | | | | | Flood period of April 19-June 20, 2002 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Current type of record | Maximum discharge, in $ft^3/s$ | Maximum stage, in feet above arbitrary datum | Water year of maximum peak | Water year of maximum stage, if different than date of maximum peak | Approximate recurrence interval of maximum discharge, in years | Date of maximum discharge | Maximum discharge, in $ft^3/s$ | Maximum stage, in feet above arbitrary datum | Approximate recurrence interval of maximum discharge, in years | Flood stage (NWS), in feet above arbitrary datum | Period, in days, of daily mean stage above flood stage |
| 05542000 | Mazon River near Coal City, IL | 455 | 1940-current | Q | 22,400 | 19.70 | 1983 | 1958 | 50 | 13-May | 14,000 | 15.02 | 5 | 8.5 | 2 |
| 05543500 | Illinois River at Marseilles, IL | 8,259 | 1919-current | Q | 95,000 | 16.85 | 1997 | -- | 30 | 13-May | 79,500 | 14.56 | 10 | -- | -- |
| 05545750 | Fox River near New Munster, WI | 811 | 1940-current | Q | 7,520 | 14.10 | 1960 | 1994 | 100 | 5-Jun | 2,480 | 11.50[b] | 2 | 10.0 | 4 |
| 05547755 | Squaw Creek at Round Lake, IL | 17.0 | 1990-current | Q | 312 | 6.42 | 1993 | -- | 15 | 7-Jun | 248 | 5.54 | 5 | -- | -- |
| 05548150 | North Br Nippersink Crk nr Genoa City, WI | 13.6 | 1962-current | Q | 517 | 13.90 | 1999 | -- | 100 | 4-Jun | 237 | 11.96 | 5 | -- | -- |
| 05548280 | Nippersink Creek near Spring Grove, IL | 192 | 1966-current | Q | 2,910 | 14.26 | 1986 | -- | 20 | 7-Jun | 893 | 8.47 | 1.25 | -- | -- |
| 05548500 | Fox River at Johnsburg, IL | 1,205 | 1939-current | GH | -- | 7.55 | -- | 1960 | ne | 9-Jun | -- | 4.46 | ne | 6.5 | 0 |
| 05549500 | Fox River near McHenry, IL | 1,250 | 1941-current | GH | -- | 6.36 | -- | 1960 | ne | 28-May | -- | 4.35 | ne | 4.0 | 5 |
| 05550000 | Fox River at Algonquin, IL | 1,403 | 1916-current | Q | 6,610 | 4.50 | 1960\1979 | 1916 | 50 | 6-Jun | 3,740 | 3.20 | 2 | 3.0 | 5 |
| 05550300 | Tyler Creek at Elgin, IL | 38.9 | 1962-current | Q | 953 | 8.23 | 1999 | -- | 500 | 4-Jun | **1,360** | 8.08 | 500 | -- | -- |
| 05550500 | Poplar Creek at Elgin, IL | 35.2 | 1952-current | Q | 1,180 | 6.78 | 1997 | -- | 100 | 5-Jun | 526 | 4.57 | 2 | -- | -- |
| 05551000 | Fox River at South Elgin, IL | 1,556 | 1989-current | GH | 6,990 | 14.45 | 1993 | -- | ne | 6-Jun | 4,100 | 13.79 | ne | -- | -- |
| 05551200 | Ferson Creek near St. Charles, IL | 51.7 | 1961-current | Q | 2,580 | 9.66 | 1997 | 1965 | 50 | 5-Jun | 1,430 | 6.73 | 5 | 5.0 | 1 |
| 05551330 | Mill Creek near Batavia, IL | 27.6 | 1998-current | Q | 1,080 | 7.52 | 1999 | -- | ne | 5-Jun | 368 | 6.46 | ne | -- | -- |
| 05551675 | Blackberry Creek near Montgomery, IL | 55.0 | 1998-current | Q | 1,040 | 8.61 | 1999 | -- | ne | 5-Jun | 608 | 7.63 | ne | -- | -- |
| 05551700 | Blackberry Creek near Yorkville, IL | 70.2 | 1961-current | Q | 5,510 | 13.16 | 1996 | -- | 500 | 6-Jun | 529 | 7.31 | 2 | 6.0 | 6 |
| 05552500 | Fox River at Dayton, IL | 2,642 | 1915-current | Q | 55,400 | 36.47 | 1996 | 1960 | 500 | 5-Jun | 16,900 | 14.65 | 2 | 12.0 | 3 |
| 05554000 | North Fork Vermilion River near Charlotte, IL | 186 | 1943-current | CS | 4,900 | 17.09 | 1987\1990 | 1987 | 15 | 13-May | 3,800 | 14.54 | 5 | -- | -- |
| 05554500 | Vermilion River at Pontiac, IL | 579 | 1943-current | Q | 13,100 | 19.16 | 1983 | -- | 30 | 13-May | 9,930 | 16.35 | 10 | 14.0 | 2 |
| 05555300 | Vermilion River near Leonore, IL | 1,251 | 1931-current | Q | 33,500 | 27.13 | 1958 | 1982 | 30 | 13-May | 21,200 | 22.65[b] | 10 | 16.0 | 4 |
| 05556500 | Big Bureau Creek at Princeton, IL | 196 | 1936-current | Q | 12,500 | 16.01 | 1974 | -- | 50 | 5-Jun | 7,980 | 12.76 | 10 | 8.0 | 2 |
| 05557500 | East Bureau Creek near Bureau, IL | 99 | 1936-current | CS | 9,260 | 17.39 | 1997 | 1938 | 80 | 12-May | 2,250 | 12.62 | 2 | -- | -- |
| 05558300 | Illinois River at Henry, IL | 13,543 | 1982-current | Q | 117,000 | 32.02 | 1997 | 1985 | 20 | 14-May | 88,500 | 28.28 | 5 | 23.0 | 17 |
| 05560500 | Farm Creek at Farmdale, IL | 27.4 | 1949-current | Q | 1,050a | 6.55[a] | 1980 | 1982 | 15 | 12-May | 597 | 9.37[b] | 2 | -- | -- |
| 05561500 | Fondulac Creek near East Peoria, IL | 5.54 | 1948-current | Q | 560 | 4.66 | 1979 | -- | 25 | 12-May | 172 | 3.13 | 1.25 | -- | -- |
| 05563000 | Kickapoo Creek near Kickapoo, IL | 119 | 1945-current | CS | 27,500 | 17.08 | 1967 | -- | 25 | 12-May | 6,580 | 13.90 | 2 | -- | -- |
| 05563500 | Kickapoo Creek at Peoria, IL | 297 | 1942-current | CS | 48,500 | 29.68 | 1974 | -- | 300 | 12-May | 8,890 | 15.99 | 2 | -- | -- |
| 05567500 | Mackinaw River near Congerville, IL | 767 | 1945-current | Q | 44,800 | 20.21 | 1983 | -- | 100 | 12-May | 19,400 | 18.13 | 5 | 13.0 | 3 |
| 05568000 | Mackinaw River near Green Valley, IL | 1,073 | 1921-current | Q | 51,000 | 28.29 | 1983 | 1993 | 100 | 14-May | 14,300 | 27.59 | 5 | 24.0 | 4 |
| 05568500 | Illinois River at Kingston Mines, IL | 15,818 | 1939-current | Q | 88,800 | 26.02 | 1983 | 1943 | 50 | 20-May | 48,300 | 23.84 | 2 | 20.0 | 13 |
| 05568800 | Indian Creek near Wyoming, IL | 62.7 | 1960-current | Q | 6,540 | 23.81 | 1974 | -- | 100 | 12-May | 2,000 | 20.77 | 2 | -- | -- |
| 05569500 | Spoon River at London Mills, IL | 1,072 | 1943-current | Q | 41,000 | 28.03 | 1974 | -- | 200 | 13-May | 13,200 | 23.29 | 5 | 15.0 | 4 |
| 05570000 | Spoon River at Seville, IL | 1,636 | 1914-current | Q | 37,300 | 33.10 | 1924 | 1993 | 60 | 14-May | 24,700 | 28.45 | 10 | 22.0 | 9 |
| 05570910 | Sangamon River at Fisher, IL | 240 | 1979-current | Q | 13,000 | 21.58 | 1994 | -- | 50 | 13-May | 4,040 | 16.12 | 2 | -- | -- |
| 05572000 | Sangamon River at Monticello, IL | 550 | 1908-current | Q | 19,000 | 19.06 | 1927 | 1994 | 70 | 14-May | 5,670 | 15.77 | 2 | 13.0 | 12 |
| 05573540 | Sangamon River at Rt 48 at Decatur, IL | 938 | 1983-current | Q | 17,100 | 23.04 | 1994 | 1983 | 15 | 12-May | **31,900** | **24.35** | 500 | -- | -- |

**Table 1.** Flood-flow data at selected U.S. Geological Survey streamflow-gaging stations in Illinois and adjacent States—Continued

| Station number | Station Name | Drainage area, in square miles | Period of record, water years (may include gaps in record) | Previous maximum flood | | | | | | Flood period of April 19-June 20, 2002 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Current type of record | Maximum discharge, in $ft^3/s$ | Maximum stage, in feet above arbitrary datum | Water year of maximum peak | Water year of maximum stage, if different than date of maximum peak | Approximate recurrence interval of maximum discharge, in years | Date of maximum discharge | Maximum discharge, in $ft^3/s$ | Maximum stage, in feet above arbitrary datum | Approximate recurrence interval of maximum discharge, in years | Flood stage (NWS), in feet above arbitrary datum | Period, in days, of daily mean stage above flood stage |
| 05576000 | South Fork Sangamon River nr Rochester, IL | 867 | 1949-current | Q | 20,300 | 32.40 | 1994 | -- | 50 | 13-May | 17,000 | **33.65** | 30 | 20.0 | 40 |
| 05576500 | Sangamon River at Riverton, IL | 2,618 | 1908-current | Q | 68,700 | 31.52 | 1943 | -- | 500 | 14-May | 49,200 | 30.07 | 200 | 18.0 | 35 |
| 05577500 | Spring Creek at Springfield, IL | 107 | 1948-current | Q | 10,700 | 16.23 | 1996 | -- | 50 | 12-May | 5,860 | 14.01 | 10 | -- | -- |
| 05578500 | Salt Creek near Rowell, IL | 335 | 1908-current | Q | 24,500 | 29.21 | 1968 | -- | 200 | 14-May | 3,230 | 19.86 | 2 | 19.0 | 4 |
| 05579500 | Lake Fork near Cornland, IL | 214 | 1948-current | Q | 8,930 | 23.11 | 1979 | -- | 25 | 13-May | 4,950 | 20.41 | 5 | 17.0 | 6 |
| 05580000 | Kickapoo Creek at Waynesville, IL | 227 | 1948-current | Q | 24,600 | 16.91 | 1981 | -- | 100 | 12-May | 3,840 | 13.41 | 1.25 | -- | -- |
| 05580950 | Sugar Creek near Bloomington, IL | 34.4 | 1975-current | Q | 6,600 | 14.02 | 1983 | -- | 30 | 13-Jun | 1,690 | 7.15 | 1.25 | -- | -- |
| 05582000 | Salt Creek near Greenview, IL | 1,804 | 1942-current | Q | 41,200 | 20.50 | 1943 | -- | 50 | 14-May | 17,600 | 15.71 | 5 | 16.0 | 0 |
| 05583000 | Sangamon River near Oakford, IL | 5,093 | 1910-current | Q | 123,000 | 25.63 | 1943 | -- | 500 | 15-May | 77,300 | 23.85 | 50 | 18.12 (471[e]) | 10 |
| 05584500 | La Moine River at Colmar, IL | 655 | 1945-current | Q | 38,900 | 27.03 | 1985 | 1965 | 70 | 13-May | 29,400 | 25.76 | 25 | 18.5 | 13 |
| 05585000 | La Moine River at Ripley, IL | 1,293 | 1921-current | Q | 28,000 | 29.15 | 1985 | 1995 | 50 | 15-May | 20,000 | 28.41 | 10 | 22.0 | 15 |
| 05586000 | N Fk Mauvaise Terre Cr nr Jacksonville, IL | 29.1 | 1950-current | CS | 7,160 | 12.77 | 1994 | 1990 | 50 | 11-May | 3,940 | 11.57 | 10 | -- | -- |
| 05586100 | Illinois River at Valley City, IL | 26,744 | 1939-current | Q | 123,000 | 28.61 | 1943 | -- | 25 | 20-May | 103,000 | 25.48 | 10 | 11.0 | 63 |
| 05587000 | Macoupin Creek near Kane, IL | 868 | 1921-current | Q | 40,100 | 28.50 | 1994 | 1943 | 100 | 17-May | 29,400 | 26.60 | 25 | -- | -- |
| 05587060 | Illinois River at Hardin, IL | 28,690 | 1986-current | GH | -- | 38.20 | -- | 1973 | ne | 16-May | -- | 34.80 | ne | 25.0 | 55 |
| 05587450 | Mississippi River at Grafton, IL | 171,300 | 1879-current | Q | 598,000 | 441.96[e] | 1993 | -- | ne | 16-May | 383,000 | 28.10 (431.89[e])[c] | ne | 18.0 | 54 |
| 05587900 | Cahokia Creek at Edwardsville, IL | 212 | 1969-current | Q | 8,200 | 24.74 | 1979 | -- | 20 | 13-May | 8,120 | 23.12 | 10 | -- | -- |
| 05588000 | Indian Creek at Wanda, IL | 36.7 | 1941-current | Q | 9,340 | 18.41 | 1946 | -- | 200 | 12-May | 3,600 | 16.47[b] | 5 | -- | -- |
| 05590800 | Lake Fork at Atwood, IL | 149 | 1973-current | Q | 4,030 | 15.39 | 1979 | 1994 | 25 | 13-May | **4,040** | 15.25 | 25 | -- | -- |
| 05590950 | Kaskaskia River at Chesterville, IL | 358 | 1995-current | Q | 8,290 | 43.86 | 1996 | -- | ne | 13-May | **8,880** | **44.49** | ne | -- | -- |
| 05591200 | Kaskaskia River at Cooks Mills, IL | 473 | 1971-current | Q | 9,950 | 17.30 | 1994 | -- | 15 | 14-May | **10,800** | **17.72** | 25 | 8.0 | 38 |
| 05591550 | Whitley Creek near Allenville, IL | 34.6 | 1980-current | Q | 3,200 | 13.04 | 1996 | 1999 | 25 | 12-May | 3,140 | **13.27** | 25 | -- | -- |
| 05591700 | West Okaw River near Lovington, IL | 112 | 1980-current | Q | 10,300 | 16.40 | 1996 | -- | 100 | 12-May | 9,930 | 16.26 | 50 | -- | -- |
| 05592000 | Kaskaskia River at Shelbyville, IL | 1,054 | 1908-current | Q | 8,160[a] | 16.42[a] | 1969 | -- | 20 | 1-Jun | 4,920 | **17.65** | 5 | -- | -- |
| 05592050 | Robinson Creek near Shelbyville, IL | 93.1 | 1980-current | Q | 11,300 | 14.92 | 1983 | 1993 | 20 | 12-May | 7,590 | 13.73 | 10 | -- | -- |
| 05592100 | Kaskaskia River near Cowden, IL | 1,330 | 1971-current | Q | 19,700 | 19.12 | 1979 | 1985 | 50 | 12-May | **27,900** | **20.74** | 500 | 15.0 | 24 |
| 05592500 | Kaskaskia River at Vandalia, IL | 1,940 | 1908-current | Q | 30,000[a] | 27.41[a] | 1970 | 1996 | 15 | 7-May | **41,000** | -- | 30 | 18.0 | 22 |
| 05592575 | Hickory Creek nr Brownstown, IL | 44.2 | 1989-current | Q | 6,250 | 16.43 | 1994 | -- | 10 | 13-May | 4,610 | 15.92 | 5 | -- | -- |
| 05592800 | Hurricane Creek near Mulberry Grove, IL | 152 | 1971-current | Q | 17,900 | 20.91 | 1990 | -- | 25 | 13-May | 15,500 | **21.00** | 10 | -- | -- |
| 05592900 | East Fork Kaskaskia River near Sandoval, IL | 113 | 1980-current | Q | 17,000 | 20.03 | 1990 | -- | 50 | 13-May | 5,960 | 18.03 | 5 | -- | -- |
| 05593000 | Kaskaskia River at Carlyle, IL | 2,719 | 1908-current | Q | 12,300[a] | 25.04[a] | 1996 | 1970 | 5 | 27-May | **13,500** | 23.72 | 10 | -- | -- |
| 05593020 | Kaskaskia River at Posey, IL | 2,745 | 1996-current | GH | -- | 26.20 | -- | 1993 | ne | 2-Jun | -- | 25.47 | ne | -- | -- |
| 05593520 | Crooked Creek near Hoffman, IL | 254 | 1975-current | GH | 26,900 | 17.40 | 1990 | -- | ne | 9-May | -- | 14.39 | ne | 12.0 | 8 |
| 05593575 | Little Crooked Creek near New Minden, IL | 84.3 | 1968-current | Q | 11,900 | 21.76 | 1995 | -- | 20 | 13-May | 2,650 | 17.51 | 1.25 | -- | -- |
| 05593900 | East Fork Shoal Creek near Coffeen, IL | 55.5 | 1964-current | Q | 5,910 | 14.75 | 1967 | 1998 | 50 | 7-May | 5,320 | **14.88** | 25 | -- | -- |
| 05593945 | Shoal Creek near Pierron, IL | 678 | 1995-current | Q | 17,700 | 60.21 | 1995 | -- | ne | 8-May | **20,400** | **60.50** | ne | -- | -- |

**Table 1.** Flood-flow data at selected U.S. Geological Survey streamflow-gaging stations in Illinois and adjacent States—Continued

| Station number | Station Name | Drainage area, in square miles | Period of record, water years (may include gaps in record) | Current type of record | Previous maximum flood: Maximum discharge, in $ft^3/s$ | Previous maximum flood: Maximum stage, in feet above arbitrary datum | Previous maximum flood: Water year of maximum peak | Previous maximum flood: Water year of maximum stage, if different than date of maximum peak | Previous maximum flood: Approximate recurrence interval of maximum discharge, in years | Flood period of April 19-June 20, 2002: Date of maximum discharge | Flood period of April 19-June 20, 2002: Maximum discharge, in $ft^3/s$ | Flood period of April 19-June 20, 2002: Maximum stage, in feet above arbitrary datum | Flood period of April 19-June 20, 2002: Approximate recurrence interval of maximum discharge, in years | Flood period of April 19-June 20, 2002: Flood stage (NWS), in feet above arbitrary datum | Flood period of April 19-June 20, 2002: Period, in days, of daily mean stage above flood stage |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05594000 | Shoal Creek near Breese, IL | 735 | 1910-current | Q | 23,100 | 23.02 | 1950 | 1979 | 500 | 9-May | 20,900 | 22.12 | 10 | 14.5 | 28 |
| 05594100 | Kaskaskia River near Venedy Station, IL | 4,393 | 1970-current | Q | 50,300 | 25.79 | 1995 | -- | 15 | 11-May | 35,200 | 24.07 | 5 | -- | -- |
| 05594450 | Silver Creek near Troy, IL | 154 | 1967-current | Q | 10,600 | 17.94 | 1979 | 1990 | 25 | 13-May | 7,420 | 17.41 | 5 | -- | -- |
| 05594800 | Silver Creek near Freeburg, IL | 464 | 1971-current | Q | 15,300 | 25.38 | 1995 | -- | 30 | 10-May | 7,720 | 19.52 | 5 | -- | -- |
| 05595200 | Richland Creek near Hecker, IL | 129 | 1970-current | Q | 23,400 | 44.40 | 1996 | -- | 100 | 12-Jun | 3,760 | 39.62 | 1.25 | -- | -- |
| 05595240 | Kaskaskia River near Red Bud, IL | 5,505 | 1994-current | GH | -- | 91.90 | -- | 1995 | ne | 18-May | -- | 88.56 | ne | -- | -- |
| 05595700 | Big Muddy River near Mt. Vernon, IL | 71.9 | 1979-current | GH | -- | 12.04 | -- | 1993 | ne | 13-May | -- | 10.48 | ne | -- | -- |
| 05595730 | Rayse Creek near Waltonville, IL | 88.0 | 1980-current | Q | 21,200 | 17.73 | 1994 | -- | 15 | 13-May | 6,110 | 13.85 | 2 | -- | -- |
| 05595820 | Casey Fork at Mount Vernon, IL | 76.9 | 1986-current | Q | 16,100 | 17.03 | 1990 | -- | 15 | 13-May | 4,500 | 13.91 | 2 | -- | -- |
| 05597000 | Big Muddy River at Plumfield, IL | 794 | 1908-current | Q | 14,200[a] | 31.83[a] | 1996 | -- | 500 | 17-May | 7,500 | 27.21[b] | 5 | 20.0 | 18 |
| 05597500 | Crab Orchard Creek near Marion, IL | 31.7 | 1952-current | Q | 9,270 | 13.60 | 1996 | -- | 200 | 13-May | 3,400 | 11.98 | 5 | -- | -- |
| 05599500 | Big Muddy River at Murphysboro, IL | 2,169 | 1916-current | Q | 33,800[a] | 36.85[a] | 1996 | 1983 | 25 | 17-May | 22,300 | 32.53 | 5 | 16.0 | 42 |
| 05600000 | Big Creek near Wetaug, IL | 32.2 | 1942-current | CS | 7,200 | 16.32 | 1943 | 1945 | 500 | 13-May | 2,630 | 15.09 | 5 | -- | -- |
| 07010000 | Mississippi River at St. Louis, MO | 697,000 | 1861-current | Q | 1,080,000 | 49.58 | 1993 | -- | ne | 17-May | 682,000 | 37.34 | ne | 30.0 | 14 |
| 07020500 | Mississippi River at Chester, IL | 708,600 | 1928-current | Q | 1,000,000 | 49.74 | 1993 | -- | ne | 17-May | 728,000 | 40.58 | ne | 27.0 | 24 |
| 07022000 | Mississippi River at Thebes, IL | 713,200 | 1933-current | Q | 996,000 | 45.91 | 1993 | 1995 | ne | 18-May | 866,000 | 44.31[c] | ne | 33.0 | 23 |

[a] discharge and stage are for post-reservoir period of record

[b] datum change

[c] maximum instantaneous discharge did not occur at the same time as maximum instantaneous stage

[d] from floodmark; streamflow-gaging station discontinued on September 30, 2000

[e] flood stage in feet above sea level