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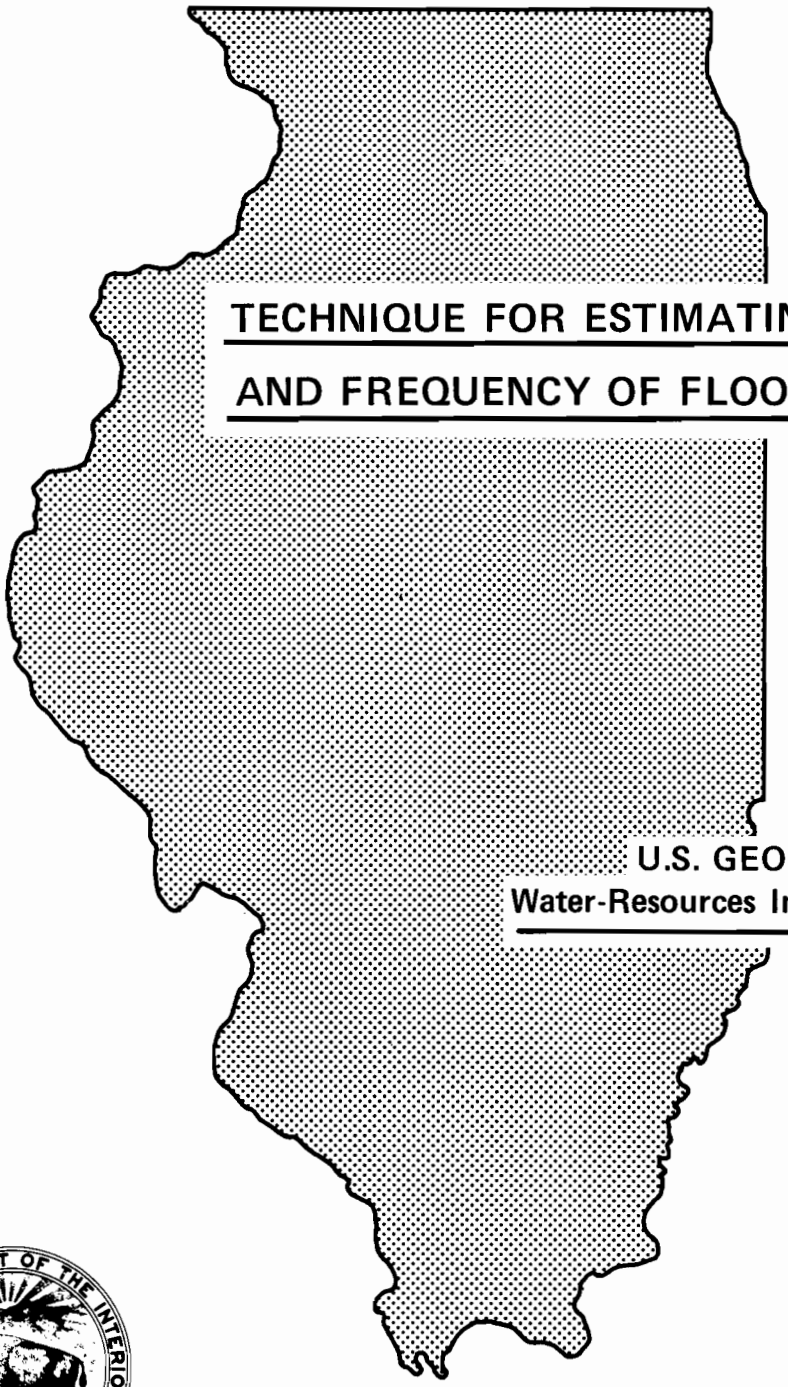

TECHNIQUE FOR ESTIMATING MAGNITUDE AND FREQUENCY OF FLOODS IN ILLINOIS

U.S. GEOLOGICAL SURVEY
Water-Resources Investigations 77–117

Prepared in cooperation with
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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Prepared in cooperation with
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

1977

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CECIL D. ANDRUS, Secretary

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GLOSSARY

Annual peak discharge. The highest instantaneous peak discharge in a water year.

Cubic feet per second (ft^3/s). The rate of discharge representing a volume of 1 cubic foot of water passing a given point during 1 second and is equivalent to 7.48 gallons per second, 448.8 gallons per minute, or 0.028 cubic meters per second.

Discharge. The rate of flow of water in a stream at a given place and within a given period of time.

Drainage area. An area from which surface runoff is carried away by a single drainage system. Also called watershed, drainage basin.

Flood. A relatively high flow, as measured by either gage height or discharge, which usually overtops the natural banks along some reaches of a stream.

Flood peak. The maximum rate of flow, usually expressed in cubic feet per second, that occurred during a flood.

Frequency. The number of occurrences of a certain phenomenon in a given period of time.

Gaging station. A particular site on a stream where systematic observations of gage height and discharge are obtained. The station usually has a recording gage for continuous measurement of the elevation of the water surface in the channel.

Probability. The likelihood or chance that a flood or storm will occur or that the magnitude of a flood or storm will be exceeded.

Q_T. The discharge for a recurrence interval of T-years. It is the annual maximum peak flow that will be exceeded every T-number of years on the average.

Recurrence interval. The average interval of time within which a given flood will be exceeded once. Also called return period.

Regression equation. It is a mathematical relationship between a dependent variable and one or more independent variables.

Regulated stream. A stream that has been subjected to control by reservoirs, diversions, or other manmade hydraulic structures.

Return period. See recurrence interval.

Standard error of regression. Refers to the standard error of estimate of the dependent variable. It is the standard deviation of the residual errors about a regression line used to predict the dependent variable converted to an average percentage. Approximately two-thirds of the data values for the dependent variable are included within one standard error of estimate.

Water year. A continuous 12-month period from October 1 to September 30, during which streamflow data are collected, compiled, and reported.

Watershed. See drainage area.

SYSTEM OF MEASUREMENT UNITS

The following report uses both the English and the metric systems of units. In the text the English units are given first, and the equivalent measurement in metric units is given in parentheses. The units are frequently abbreviated, using the notations shown below. The English units given in tables and elsewhere can be converted to metric units by multiplying by the factors given in the following list.

Multiply English unit	By	To obtain metric unit
Inches (in)	2.54×10^{1}	Millimeters (mm).
	2.54×10^{0}	Centimeters (cm).
	2.54×10^{-2}	Meters (m).
Feet (ft)	3.048×10^{-1}	Meters (m).
Miles (mi)	1.609×10^{0}	Kilometers (km).
Square miles (mi^2)	2.590×10^{0}	Square kilometers (km^2).
Feet per mile (ft/mi)	1.894×10^{-1}	Meters per kilometers (m/km).
Cubic feet (ft^3)	2.832×10^{1}	Cubic decimeters (dm^3).
	2.832×10^{-2}	Cubic meters (m^3).
Cfs-day (ft^3/s-day)	2.447×10^{3}	Cubic meters (m^3).
Cubic feet per second (ft^3/s)	2.832×10^{1}	Liters per second (L/s).
	2.832×10^{1}	Cubic decimeters per second (dm^3/s).
	2.832×10^{-2}	Cubic meters per second (m^3/s).

TECHNIQUE FOR ESTIMATING MAGNITUDE AND FREQUENCY OF FLOODS IN ILLINOIS

By George W. Curtis

ABSTRACT

A technique is presented for estimating flood magnitudes at recurrence intervals ranging from 2 to 500 years, for unregulated rural streams in Illinois, with drainage areas ranging from 0.02 to 10,000 square miles (0.05 to 25,900 square kilometers). Multiple regression analyses, using streamflow data from 241 sampling sites, were used to define the flood-frequency relationships. The independent variables drainage area, slope, rainfall intensity, and an areal factor are used in the estimating equations to determine flood peaks. Examples are given to demonstrate a step-by-step procedure in computing a 100-year flood for a site on an ungaged stream and a site on a gaged stream in Illinois.

INTRODUCTION

The purpose of this report is to present techniques and procedures for estimating the probable magnitudes and frequencies of floods for both ungaged and gaged streams in Illinois. The report is oriented toward planners and designers of engineering projects such as highways, bridges, culverts, flood-control structures, and drainage systems, and toward planners responsible for planning flood-plain use and establishing flood-insurance rates. The report provides a simple straightforward approach for estimating floods.

Previous investigators (Mitchell, 1954, Speer and Gamble, 1965, Wiitala, 1965, Patterson and Gamble, 1968, Ellis, 1968, Carns, 1973) have all provided estimating techniques. Additional data and improved analytical methods that have become available since these reports were published increase the confidence in estimating techniques provided in this report as compared to earlier techniques.

Annual peak discharges from 303 gaging stations having at least 10 years of record through the 1975 water year were used to define station flood-frequency relationships. Two hundred ninety-two (292) of these stations are located in Illinois, 4 in Indiana, and 7 in Wisconsin. Drainage areas for the stations ranged from 0.02 to 9,550 mi^2 (0.05 to 24,700 km^2). Locations of these gaging stations are shown in figures 1 and 2, and the geographic coordinates for each station are listed in table 1. These, and all other figures and tables, are grouped together on pages 10 to 70 for easy reference.

A flood-frequency curve defines the relationship of flood-peak magnitude to exceedance probability or recurrence interval. Exceedance probability is the percent chance that a given magnitude will be exceeded in any one year. Recurrence interval is the reciprocal of the exceedance probability times 100, and is the average time interval between actual occurrences of a flood peak of a greater magnitude. For example, a flood having an exceedance probability of 1 percent has a recurrence interval of 100 years; or, a 100-year

flood may be exceeded on the average once in 100 years. However, probability only describes the likelihood of a random event occurring and a flood magnitude of a given recurrence interval may be exceeded in a much shorter period of time, such as successive weeks or months. Flood-frequency relations for gaging stations were defined using the U.S. Water Resources Council (1976) guidelines. These guidelines outline procedures to fit observed annual peak data to the log-Pearson Type III frequency distribution.

Streamflow and basin characteristics from 241 of the above 303 stations were used in multiple regression analyses to develop estimating equations for flood frequencies on unregulated rural streams in Illinois. Streamflow records from 62 of the 303 stations were affected either by urbanization or by regulation, and these stations were not included in the regression analyses. Relationships were developed for estimating peak flows corresponding to the 2-, 5-, 10-, 25-, 50-, 100-, and 500-year recurrence interval flood (T-year flood, or Q_T). The regression analyses indicated that the independent variable drainage area (A), slope (S), rainfall intensity (I), and an areal factor (Af) are the most significant variables to use in estimating flood-peak discharges on Illinois streams. Furthermore, one estimating equation for each recurrence interval and one set of basin characteristics provide a straightforward technique to describe flood frequencies for both small and large Illinois streams. Frequency-discharge data, watershed characteristics, and other pertinent data are tabulated in tables 1 and 2. The reliability of flood-frequency estimates is uncertain for very large return periods. Because of this uncertainty, the 500-year flood discharges are omitted from table 1. An estimating equation for the 500-year flood is provided primarily for planners who are required to compute this event for special purposes such as flood-insurance studies. Only those stations used in the regression analyses are listed in table 2.

The flood-frequency and the regression analyses, used to develop the technique presented in this report, are defined in detail in Curtis (1977).

ESTIMATING TECHNIQUE

Flood-frequency equations, applicable Statewide, for estimating Q_T for various recurrence intervals are shown below along with associated equivalent lengths of record:

Equation	Equivalent record (years)	
$Q_2 = 42.7\,A^{0.776}\,S^{0.466}\,(I-2.5)^{0.834}\,Af$	4	(1)
$Q_5 = 71.1\,A^{0.769}\,S^{0.485}\,(I-2.5)^{0.833}\,Af$	4	(2)
$Q_{10} = 90.8\,A^{0.767}\,S^{0.494}\,(I-2.5)^{0.833}\,Af$	5	(3)
$Q_{25} = 115\,A^{0.764}\,S^{0.504}\,(I-2.5)^{0.834}\,Af$	6	(4)
$Q_{50} = 134\,A^{0.763}\,S^{0.510}\,(I-2.5)^{0.836}\,Af$	6	(5)
$Q_{100} = 152\,A^{0.762}\,S^{0.515}\,(I-2.5)^{0.836}\,Af$	7	(6)
$Q_{500} = 191\,A^{0.761}\,S^{0.528}\,(I-2.5)^{0.837}\,Af$	7	(7)

The four variables required to solve the equations are: drainage area (A), main-channel slope (S), rainfall intensity (I), and areal factor (Af). Drainage area, in square miles, and main-channel slope, in feet per mile, are determined from topographic maps. Slope is the main-channel slope and is determined between points 10 percent and 85 percent of the total distance measured along the low-water channel from the site to the basin divide. The rainfall intensity is the maximum 24-hour rainfall expected to be exceeded on an average of once every 2 years. Rainfall intensity was obtained from Hershfield (1961). A constant of 2.5 was subtracted from the rainfall intensity to decrease the range and the magnitude of the regression coefficients for each recurrence interval. The rainfall intensity, in inches, and areal factor are determined from figures 3 and 4, respectively. Equivalent years of record is discussed in the section "Accuracy and Limitation," and the areal factor is discussed in detail in Curtis (1977).

Flood-frequency discharge equations may be developed for any recurrence interval between 2 and 100 years. The regression constant and coefficients for all parameters in equations 1 to 7 are plotted versus recurrence interval in figure 5.

The equations are based on English units of measurement and are not applicable for use with metric units. To convert the final answers of discharge from cubic feet per second to cubic meters per second, multiply by the factor 0.0283.

Accuracy and Limitation

The accuracy of a regression equation may be expressed in two ways. The standard error of estimate is the measure of the distribution of the observed data about the regression equation. The standard errors of the estimating equations 1 to 7 are the ranges of error, expressed as percentages of the estimated values, within which about two-thirds of the estimates should fall. The accuracy of a regression may also be expressed in equivalent years of record. Equivalent years of record for equations 1 to 7 were determined using techniques developed by Hardison (1971). When converted to equivalent years of record, the standard error of estimate is expressed as the number of actual years of streamflow record needed at an ungaged site to provide an estimate equal in accuracy to the standard error of estimate. The accuracy of equations 1 to 7 is summarized in table 3.

The flood-frequency equations in this report may be used to estimate magnitude and frequency of floods on most Illinois streams for drainage areas ranging from 0.02 to 10,000 mi^2 (0.05 to 25,900 km^2), slopes ranging from 0.7 to 250 ft/mi (0.13 to 47.4 m/km), and 24-hour 2-year rainfall intensity from 2.6 to 3.6 inches (66.0 to 91.4 mm). The equations are not applicable to streams where floodflows are appreciably affected by natural or reservoir storage; channel changes; diversions; urbanization; unusual hydrogeologic or morphologic conditions such as in karst terrane, bluff-flood plain combinations (streams that traverse the bluff and adjacent flood plain of major rivers), and so forth; or other unusual conditions that affect floodflow.

Weighting of Independent Estimates

A technique is recommended for weighting flood estimates at a gaged site and flood estimates at an ungaged site located on a gaged stream. The weighted value becomes the "best" estimate of the flood discharge at both sites. Judgment must be used in deciding whether the location of the gaging station is such that station data will improve the estimate at the ungaged site. However, it is recommended that no weighting be made to a flood estimate at an ungaged site when the drainage area is less than 50 or greater than 200 percent of the drainage area at the gaged site.

The T-year flood estimated from a fit of the log-Pearson Type III frequency distribution to the station data and the corresponding estimate from the regional equation are considered independent. The station weighted value was obtained by using the equation:

$$\text{Log } Q_T = \frac{\text{Yrs of record (log sta. } Q_T) + \text{Eq yrs record (log regional } Q_T)}{\text{Yrs of record + Eq yrs record}} \qquad (8)$$

In equation 8 station Q_T is obtained from the first line of discharge values in table 1 and converted to a logarithm (log). The years of record are determined from table 2. The regional Q_T is computed using the desired regional estimating equation on page 2 or obtained from the second line of discharge values in table 1 and then transformed into logs. The equivalent years of record for the equation are also given on page 2. The anti-log of the result from equation 8 is the weighted or best estimate of the station flood discharge. For convenience, the weighted or best station discharge estimates have been tabulated in the third line of values in table 1. The equation may be used to update the values of line 3 in table 1 as additional years of record are obtained.

The station Q_T from equation 8 can then be used to determine a weighted or best estimate of Q_T at an ungaged site above or below the gaging station. The procedure for determining Q_T at an ungaged site is as follows:

$$\text{Weighted } Q_T = \frac{Q_T \text{ (weighted at the gage)}}{Q_T \text{ (regional at gage)}} \times Q_T \text{ (regional at ungaged site)} \qquad (9)$$

The regional Q_T at an ungaged site in equation 9 is computed from the appropriate equation on page 2.

Illustrative Examples

Figure 6 is a flow diagram showing the proper sequence used in determining a flood-peak discharge. The application of the flood-frequency estimating equations is also illustrated by a step-by-step procedure for two examples. The first example illustrates the recommended procedure used to estimate a flood discharge for a site located on a rural ungaged stream and the second example illustrates the technique used when the site is located on a rural gaged stream. The equations may be solved either mathematically or by using the appropriate nomographs in figures 7 to 13. The values from the graphical solutions will generally be within 3 percent, with a maximum error of about 5 percent, of the values obtained mathematically.

Example 1: Assume the discharge is needed for a 100-year recurrence flood at a site located on an ungaged stream:

1. Determine the size of drainage area (A), in square miles. The area can be planimetered on topographic, county, or other maps suitable for delineating the watershed boundary. For this example, assume A = 200 square miles.

2. Determine the slope (S), in feet per mile. Slope is based on the difference of elevations divided by distance between points 10 percent and 85 percent of the total distance measured along the low-water channel of the stream from the site to the watershed divide. For this example, assume S = 7 feet per mile.

3. Determine the rainfall intensity (I), in inches, from figure 3. The value of I should be an average for the watershed. For this example, assume I = 3.1 inches.

4. Determine the areal factor (Af) from figure 4. For this example, assume Af = 0.85.

5. Select the appropriate equation from page 2 and compute the flood magnitude.

$$Q_{100} = 152\, A^{0.762}\, S^{0.515}\, (I-2.5)^{0.836}\, Af$$

$$= (152)\,(200)^{0.762}\,(7)^{0.515}\,(3.1-2.5)^{0.836}\,(0.85)$$

$$= (152)\,(56.7)\,(2.72)\,(0.652)\,(0.85)$$

$$= 13{,}000\ ft^3/s.$$

The Q_{100} may also be estimated by using figure 12. For a drainage area of 200 square miles on the drainage area scale draw a straight line to 7 feet per mile on the slope scale, turn on pivot line 1 and draw a straight line to 3.1 on the I scale, turn on pivot line 2 and draw a straight line to 0.85 on the areal factor scale. From the intersection of this line with the discharge scale read the answer, Q_{100} = 13,000 ft^3/s.

Example 2: Assume the discharge estimated is needed for a 100-year recurrence flood at a site located on a gaged stream, and the gaging station frequency could improve the discharge estimate. The estimate is obtained by two separate computations. The discharge is first computed for the site using the same technique as used for a site on an ungaged stream. Secondly, the ratio of the gaging station Q_T (weighted)/ gaging station Q_T (regional) is used to weight the discharge thus obtained to provide the best estimate of discharge for the site.

For illustrative purpose, assume the site in example 1 is located on Kickapoo Creek upstream from gaging station 05580000 Kickapoo Creek at Waynesville, Illinois (map No. 243). The drainage area, from table 2, is 227 square miles for the gaging station. The procedure is as follows:

First computation:

1-5. Same as example 1, Q_{100} = 13,000 ft^3/s.

Second computation:

6. From table 1, select from the third line of discharge values the weighted or best estimate Q_{100} value for gaging station 05580000. Q_{100} = 14,400 ft^3/s.

7. From table 1, select from the second line of discharge values the station frequency value computed using the regional equation. Q_{100} = 13,500 ft^3/s.

8. The drainage area ratio, $\frac{A_{ungaged\ site}}{A_{gaged\ site}} = \frac{200}{227} = .88$, or 88 percent, and is within the weighting technique limits of application (50-200 percent). Therefore, the final weighted (best estimate) discharge for the ungaged site is computed using equation 9.

$$\text{Weighted } Q_T = \frac{Q_T \text{ (weighted at gage)}}{Q_T \text{ (regional at gage)}} \times Q_T \text{ (regional at ungaged site)}$$

$$= \frac{14{,}400}{13{,}500} \times 13{,}000$$

$$= 13{,}900\ ft^3/s.$$

Rivers Excluded From Use of Estimating Equations

The regional equations are not appropriate for making flood frequency estimates on the main stem of the following streams:

Fox River
Illinois River
Saline River (below mouth of Cypress ditch).

Flood peaks on these streams are altered by channel improvements, levees, dams, diversion, or inter-basin flow. For the Fox and Illinois Rivers, flood frequencies may be estimated for ungaged sites by interpolation between observed data on basis of drainage area. This interpolation is facilitated by the graphs shown in figures 14 and 15.

Many of the flood discharges recorded for Saline River near Junction include inter-basin flow from the Wabash River through Cypress ditch just upstream from the gaging station. The magnitude of the inter-basin flow depends upon the stages on the Wabash River which, in turn, are dependent upon the stages of the Ohio River. Frequently the stages on the Saline River near Junction are affected by backwater from the Ohio River. The complexity of flood conditions precludes the use of the regionalized equations for estimating the frequency of floods on the Saline River downstream from Cypress ditch.

MAXIMUM FLOODS OF RECORD

The maximum recorded discharge for the period of record at most gaging stations is shown in figure 16 and listed in table 2. This figure shows the maximum flood discharges that have been recorded for drainage areas of different sizes. The enveloping curve is drawn through selected maximum values and serves as a guide for making rule-of-thumb estimates of the magnitude of floods without reference to their frequency, that may be expected on streams in Illinois.

CONCLUSIONS

Equations, maps, tables, and graphs are presented in this manual to provide a means of estimating flood frequencies on both gaged and ungaged natural streams in Illinois. The independent variables drainage area, slope, rainfall intensity, and areal factor presented in the regression equations are the most significant variables found for computing peak flow in Illinois. They result in flood peak values with the smallest standard error and with the least number of variables.

The estimating equations should be used only within the stated limits of application.

REFERENCES

Carns, J. M., 1973, Magnitude and frequency of floods in Illinois: Ill. Dept. of Transportation, Div. of Water Resources Management, 599 p.

Curtis, G. W., 1977, Frequency analysis of Illinois floods using observed and synthetic streamflow records: U.S. Geol Survey Water-Resources Inv. 77-104, 32 p.

Ellis, D. W., 1968, Floodflows from small drainage areas in Illinois: preliminary flood-frequency relations: U.S. Geol. Survey open-file report, 10 p.

Hardison, C. H., 1971, Prediction error of regression estimates of streamflow characteristics at ungaged sites: U.S. Geol. Survey Prof. Paper 750-C, p. C228-C236.

Hershfield, D. M., 1961, Rainfall frequency atlas of the United States: U.S. Weather Bureau Tech. Paper 40, 115 p.

Mitchell, W. D., 1954, Floods in Illinois: magnitude and frequency: Ill. Dept. of Public Works and Buildings, Div. of Waterways, 386 p.

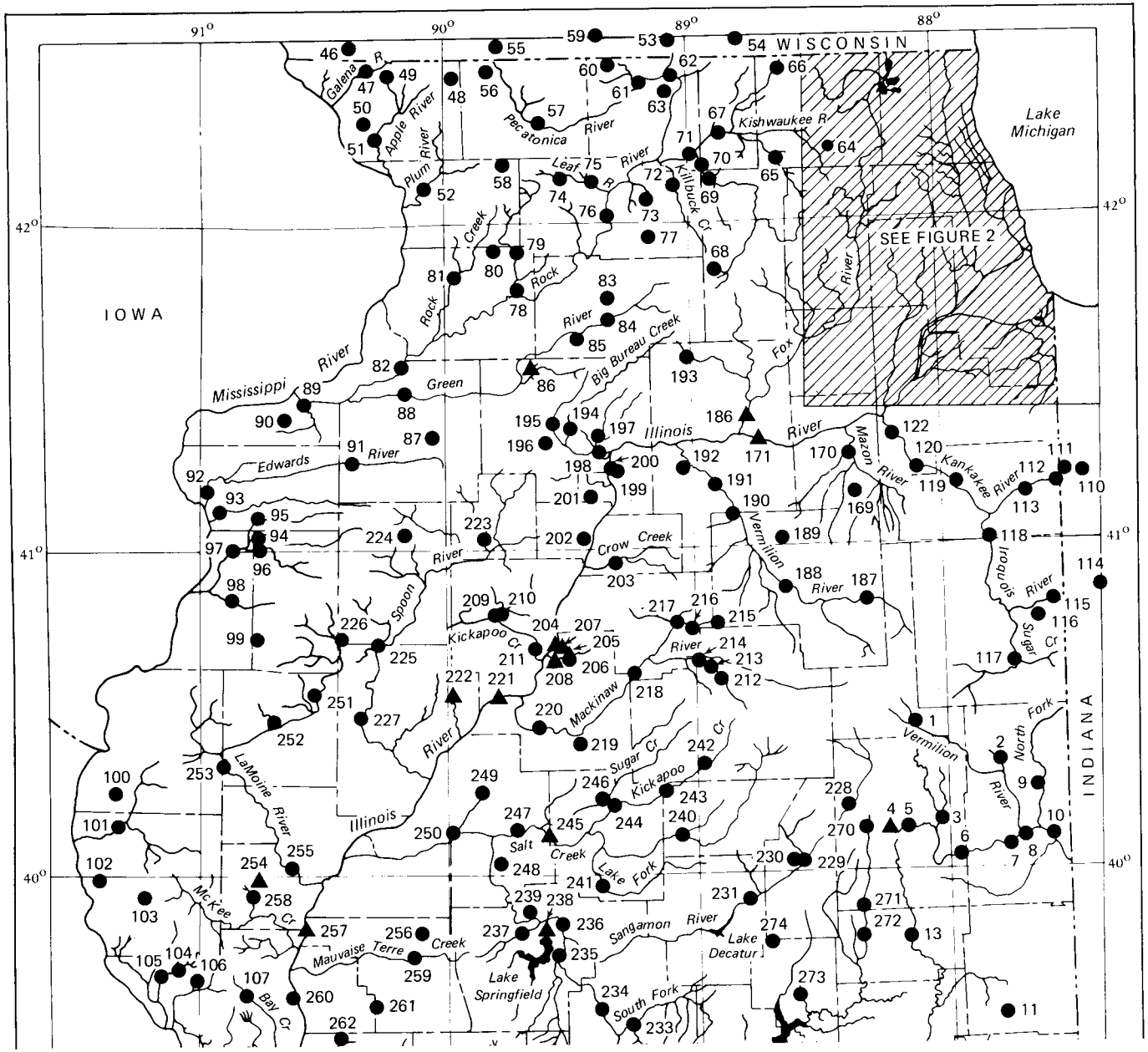
Patterson, J. L., and Gamble, C. R., 1968, Magnitude and frequency of floods in the United States, Part 5, Hudson Bay and Upper Mississippi River basin: U.S. Geol. Survey Water-Supply Paper 1698, 546 p.

Speer, P. R., and Gamble, C. R., 1965, Magnitude and frequency of floods in the United States, Part 3-A, Ohio River basin except Cumberland and Tennessee Rivers basins: U.S. Geol. Survey Water-Supply Paper 1675, 630 p.

U.S. Water Resources Council, 1976, Guidelines for determining flood flow frequency: U.S. Water Resources Council Bull. 17, 195 p.

Wiitala, S. W., 1965, Magnitude and frequency of floods in the United States, Part 4, St. Lawrence River basin: U.S. Geol. Survey Water-Supply Paper 1677, 357 p.

FIGURES 1 to 16; TABLES 1 to 3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Plum River
Pecatonica River
Leaf River
Killbuck Cr.
Kishwaukee R.
Rock River
Creek
Mississippi River
Green
Big Bureau Creek
Fox River
Illinois River
Edwards River
Mazon River
Kankakee River
Vermilion River
Crow Creek
Spoon River
Kickapoo Cr.
Mackinaw River
Sugar Cr.
Iroquois River
Vermilion
North Fork
LaMoine River
Illinois
Salt Creek
Lake Fork
McKee Cr.
Mauvaise Terre Creek
Bay Cr.
Lake Springfield
Sangamon River
Lake Decatur
South Fork

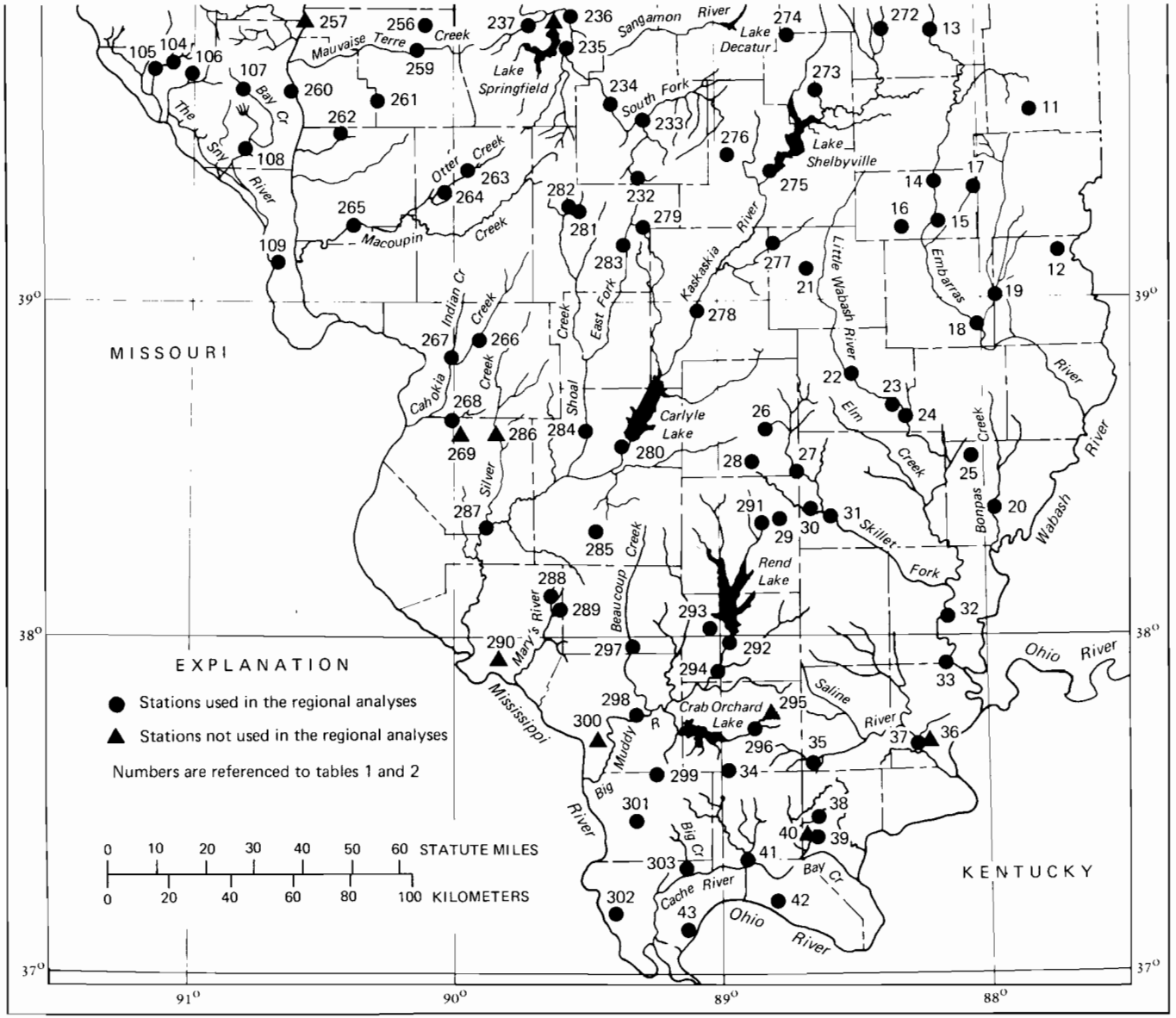

Figure 1.--Streamflow data collection sites.

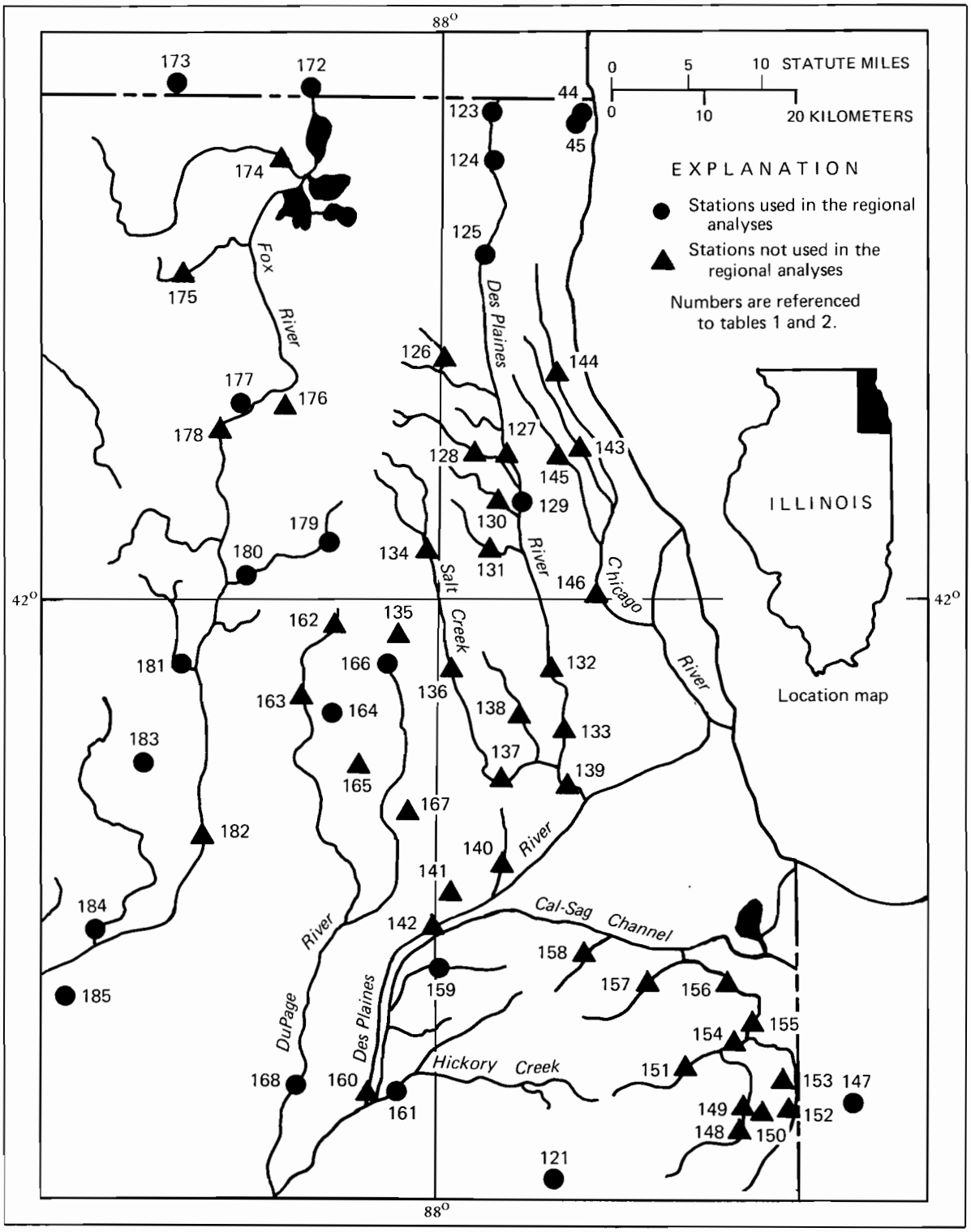

Figure 2.--Streamflow data collection sites in northeastern Illinois.

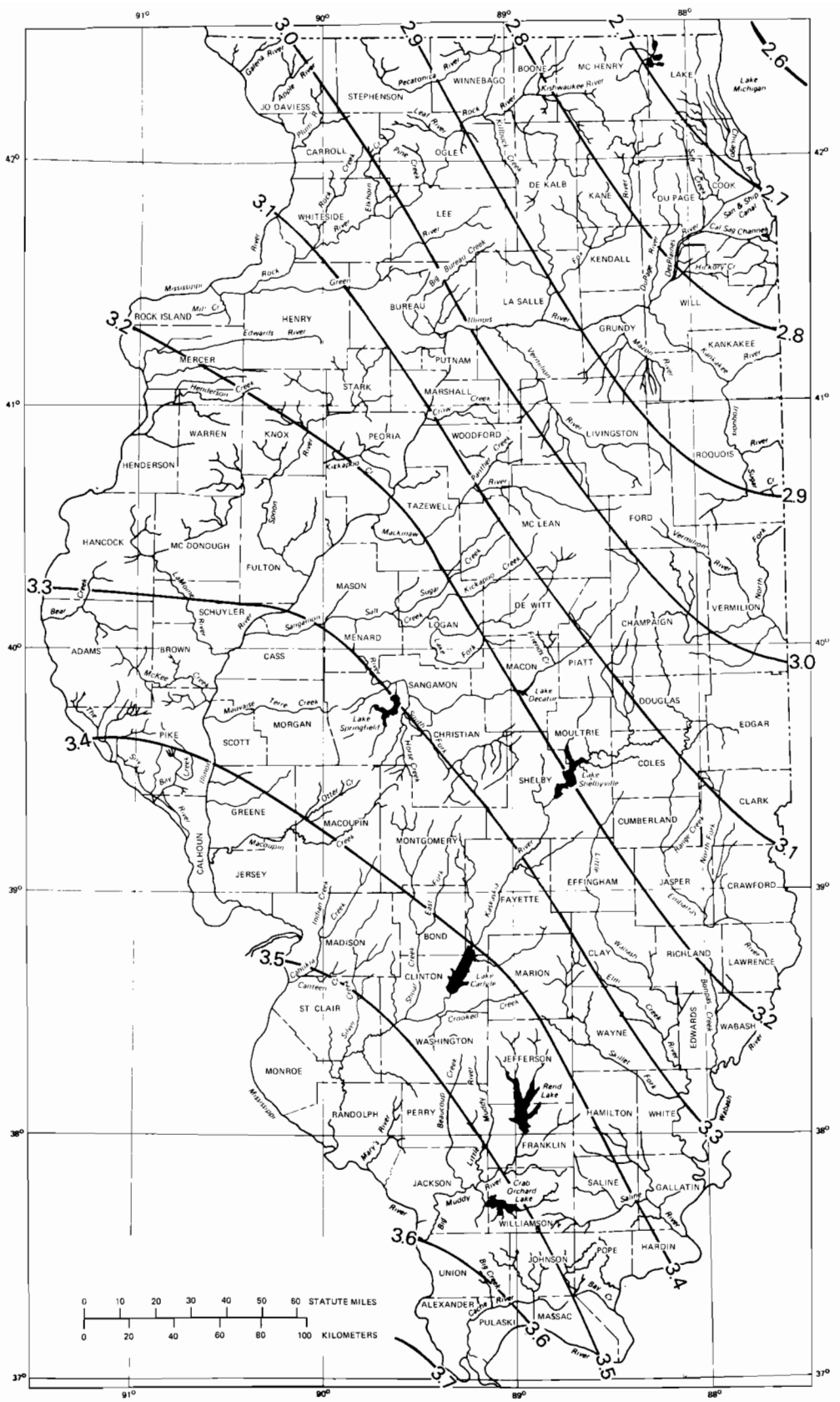

Figure 3.--Values of 24-hour 2-year rainfall, I, in inches.

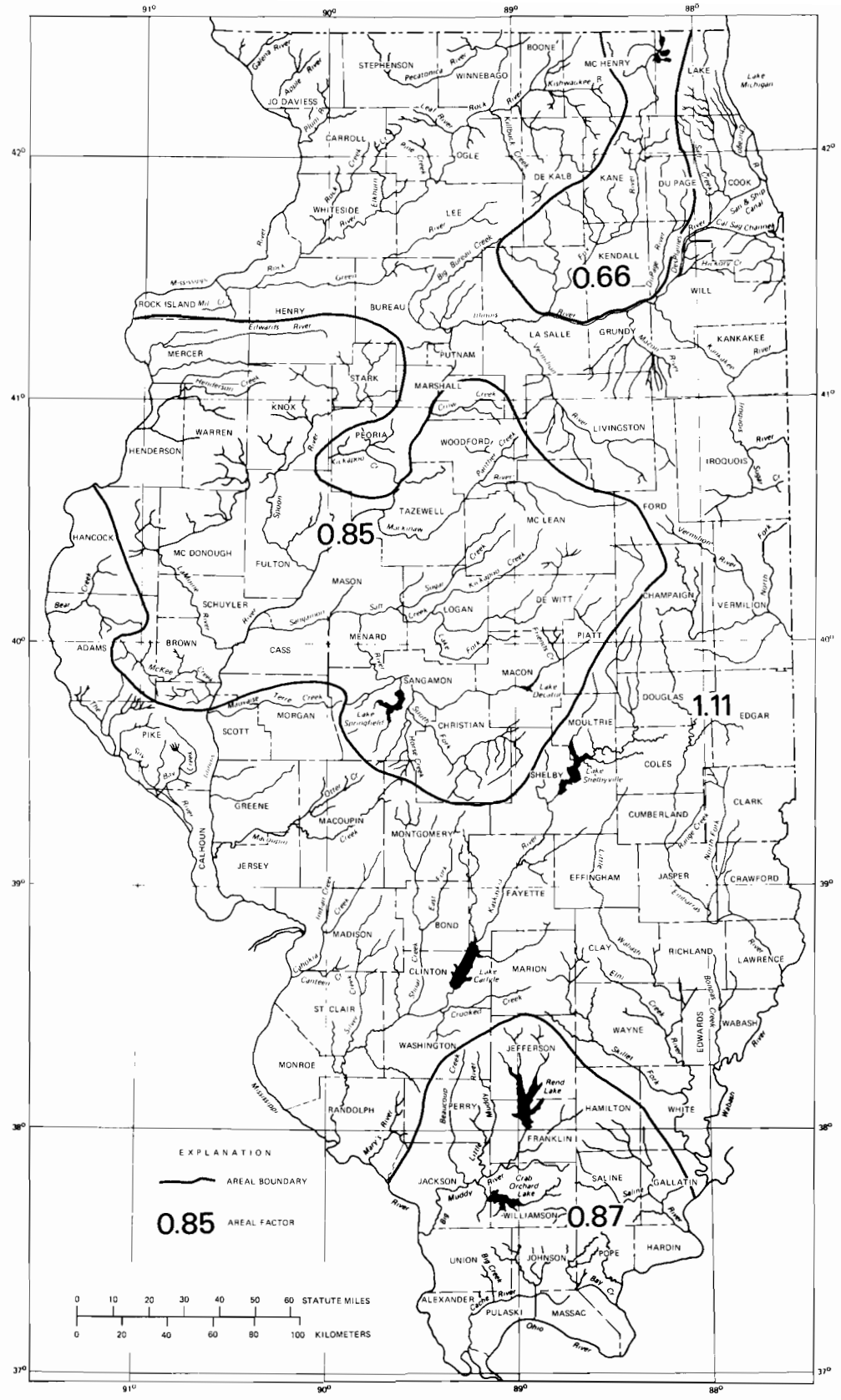

Figure 4.--Values and boundaries of areal adjustment factor, Af.

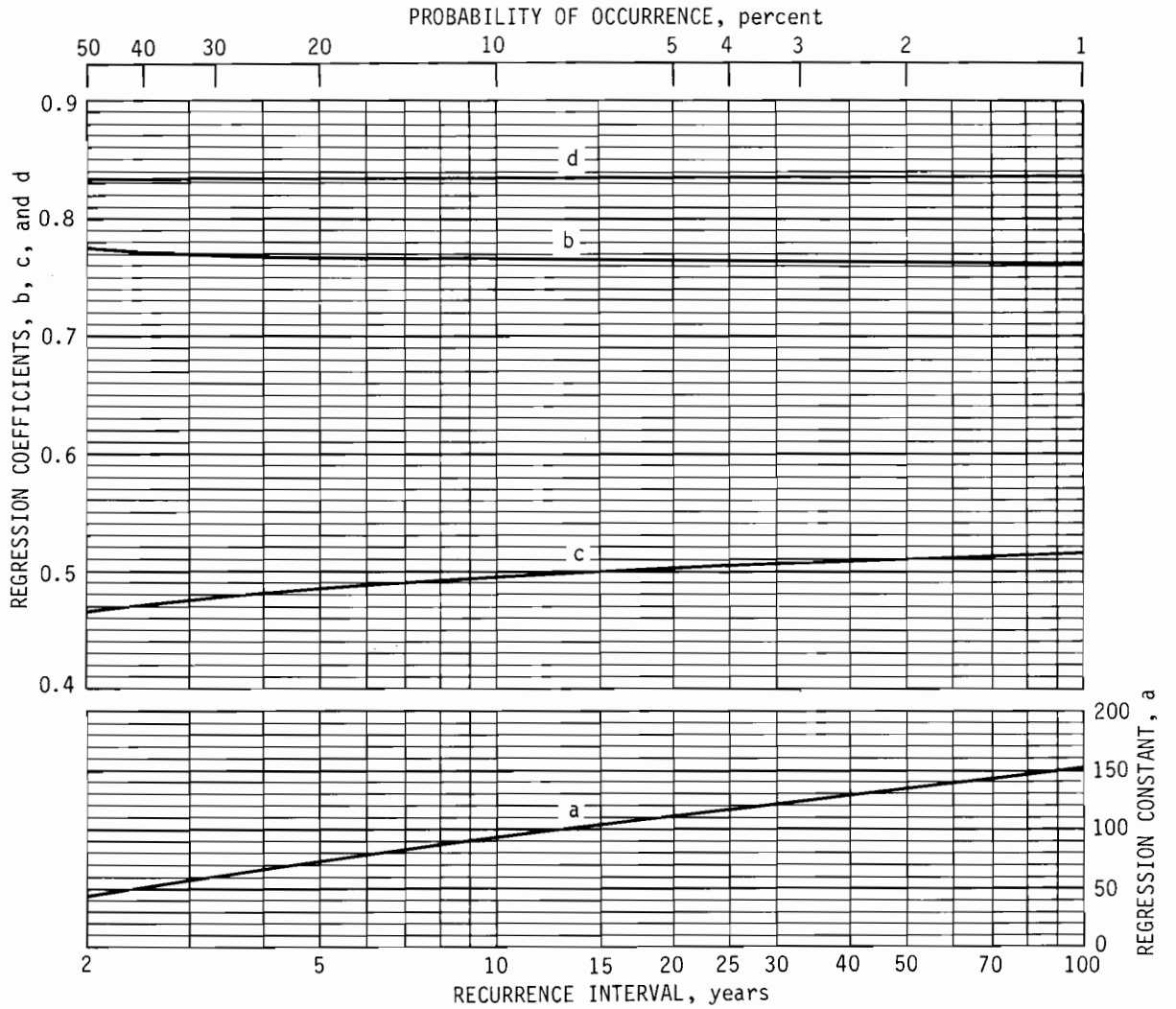

Figure 5.--Regression constant and coefficients for estimating equations, $Q_T = a\ A^b\ S^c\ (I - 2.5)^d\ Af$.

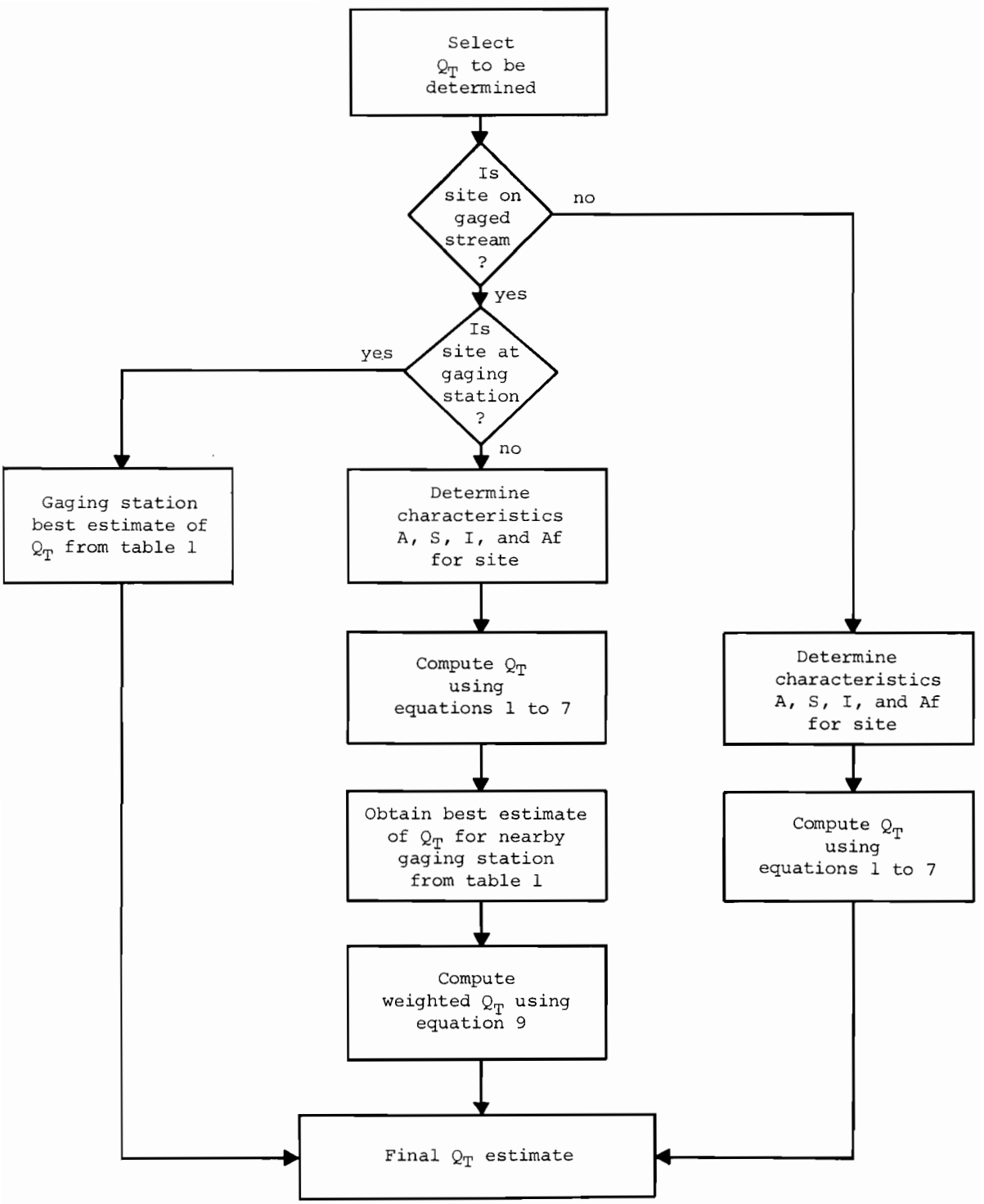

Figure 6.--Flow diagram for determining flood-peak discharge.

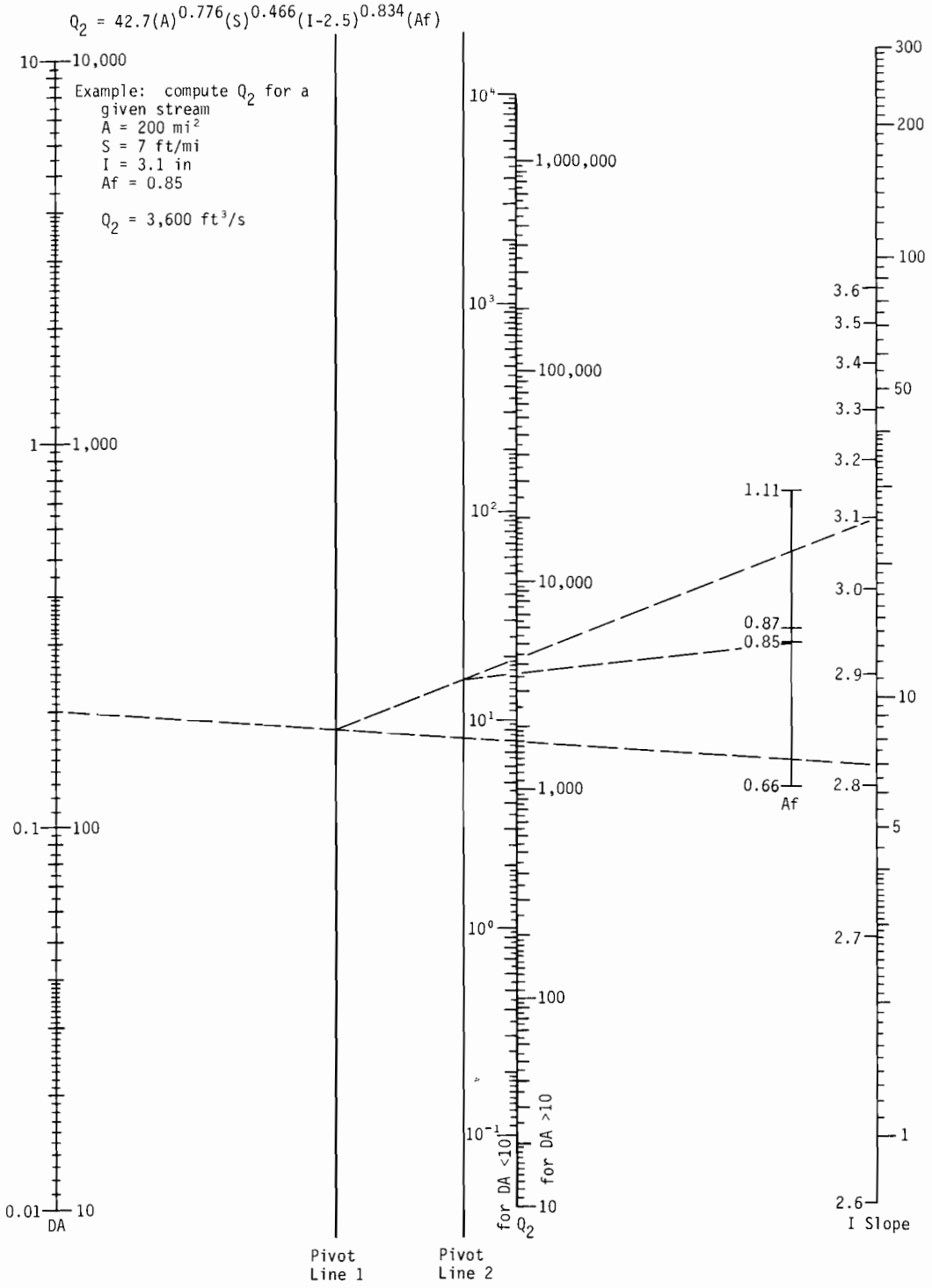

Figure 7.--Nomograph for estimating Q_2.

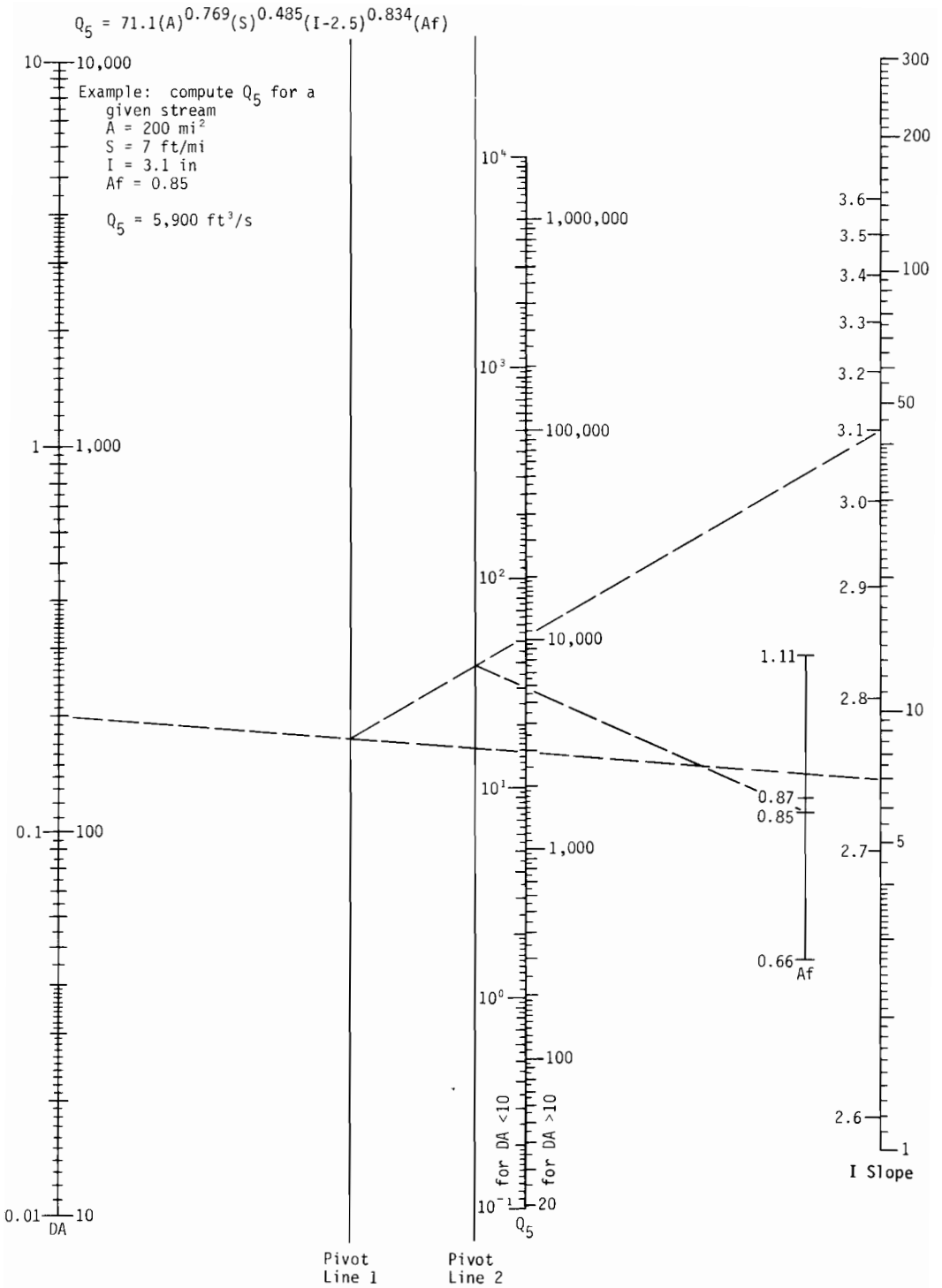

Figure 8.--Nomograph for estimating Q_5.

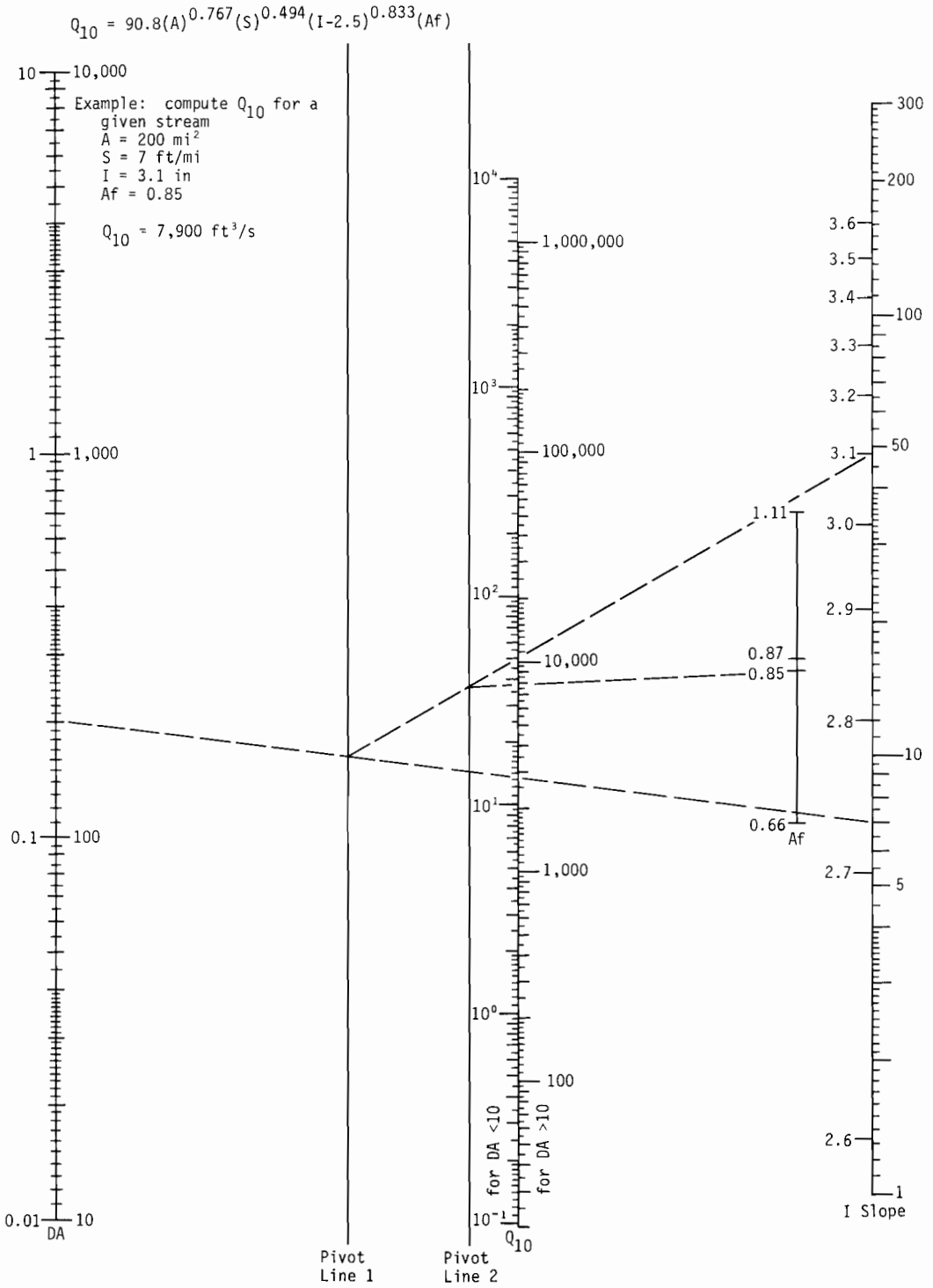

Figure 9.--Nomograph for estimating Q_{10}.

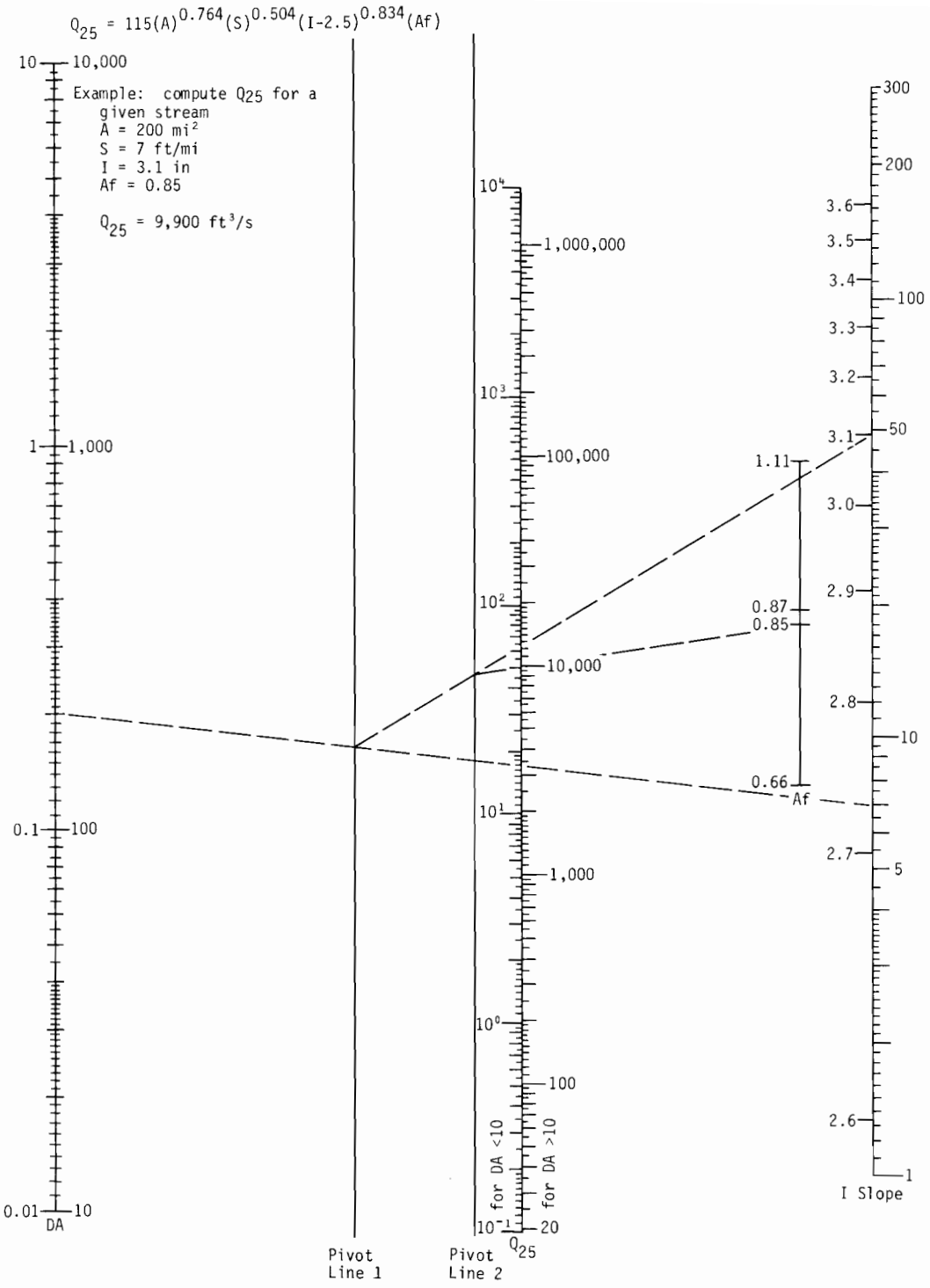

Figure 10.--Nomograph for estimating Q_{25}.

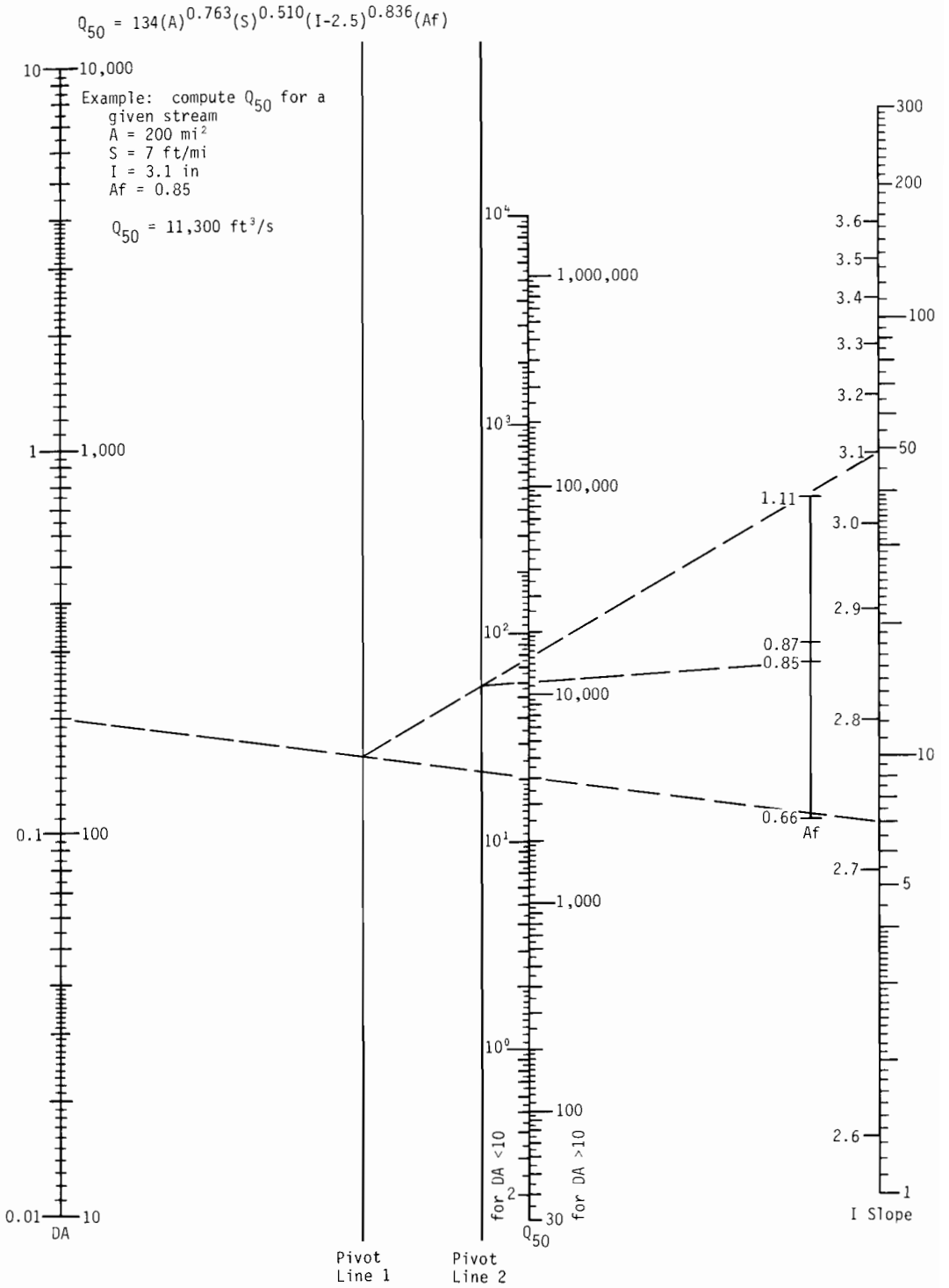

Figure 11.--Nomograph for estimating Q_{50}.

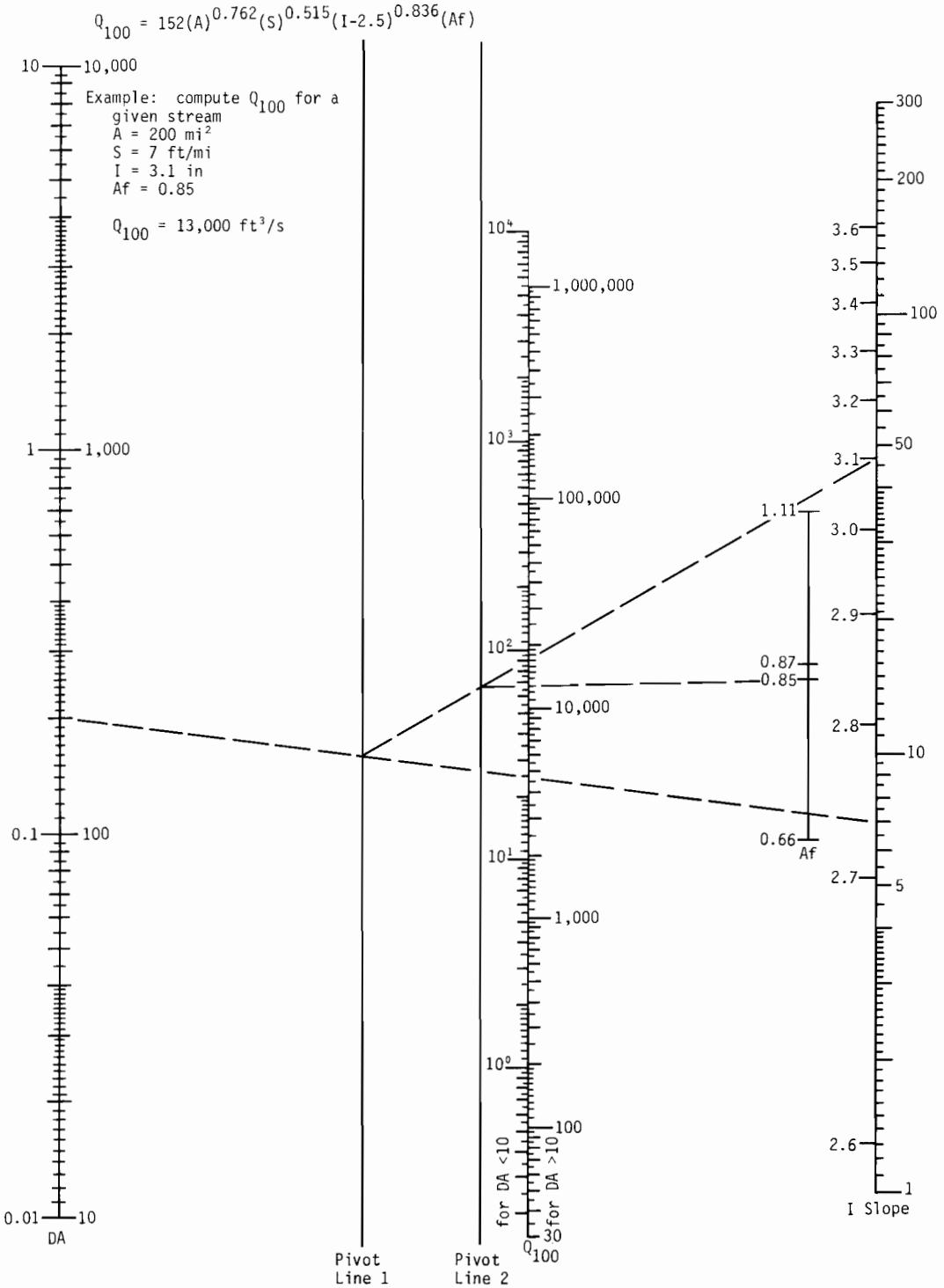

Figure 12.--Nomograph for estimating Q_{100}.

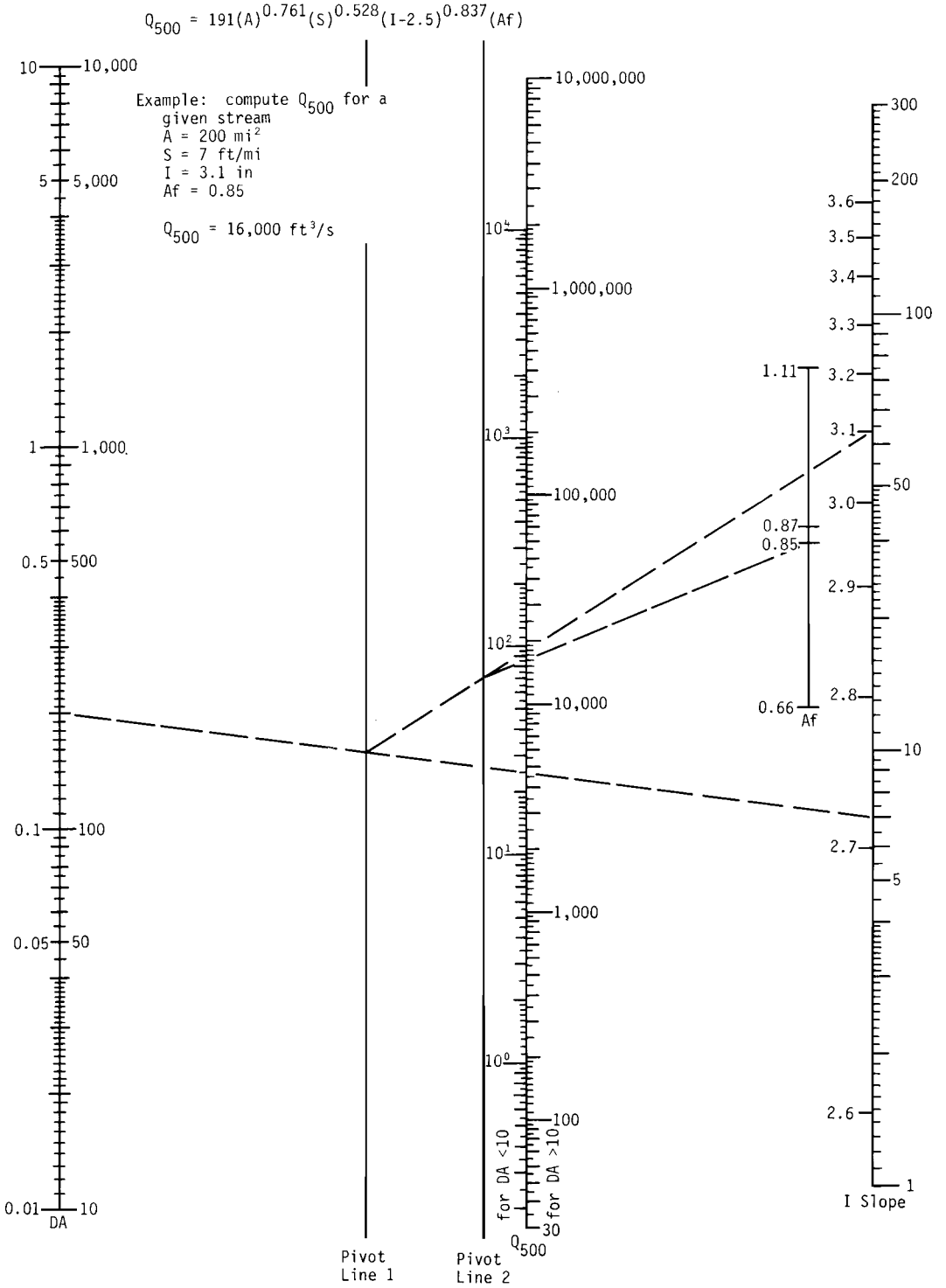

Figure 13.--Nomograph for estimating Q_{500}.

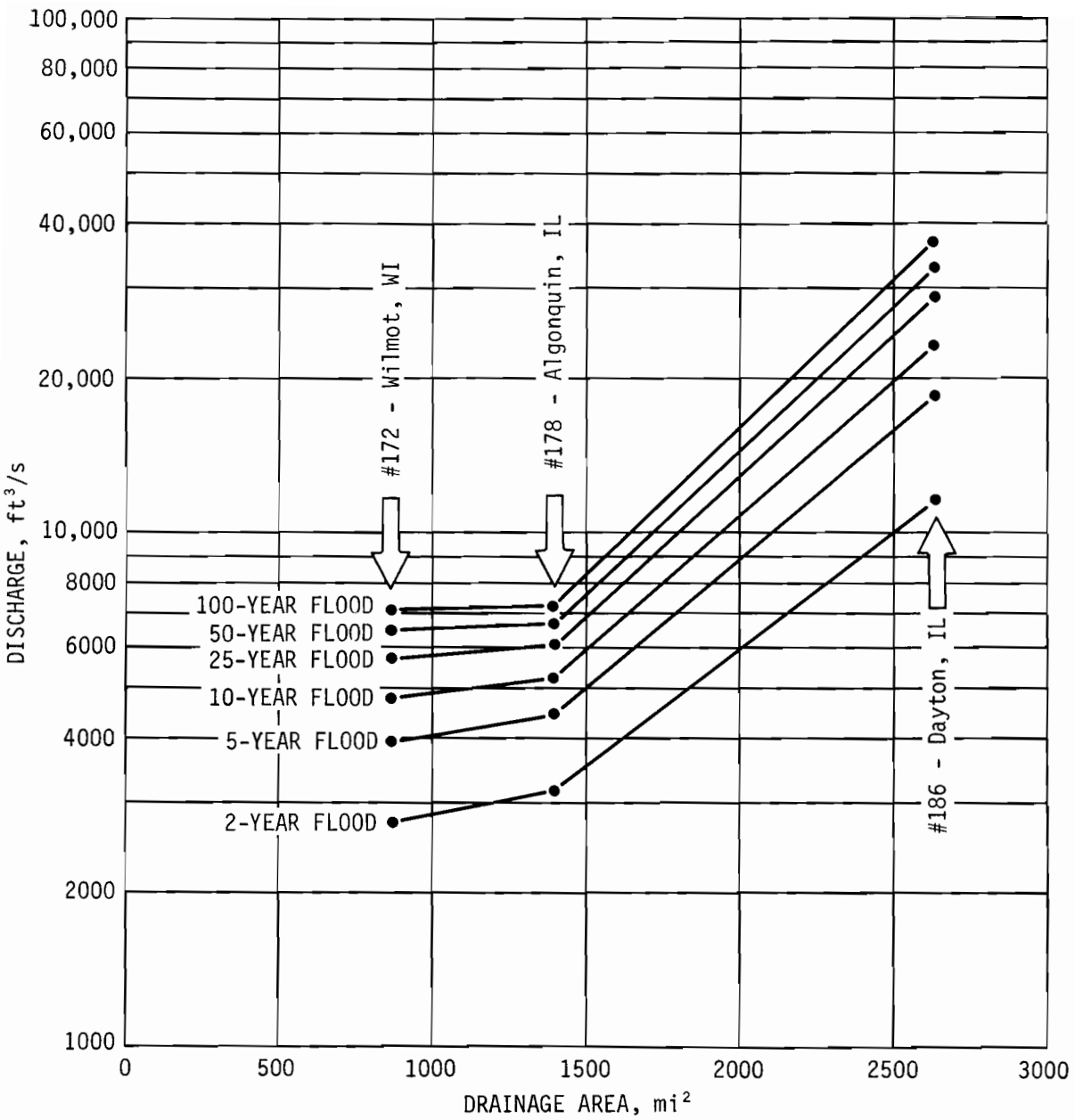

Figure 14.--Relation of flood magnitudes for selected recurrence intervals to drainage area, Fox River main stem.

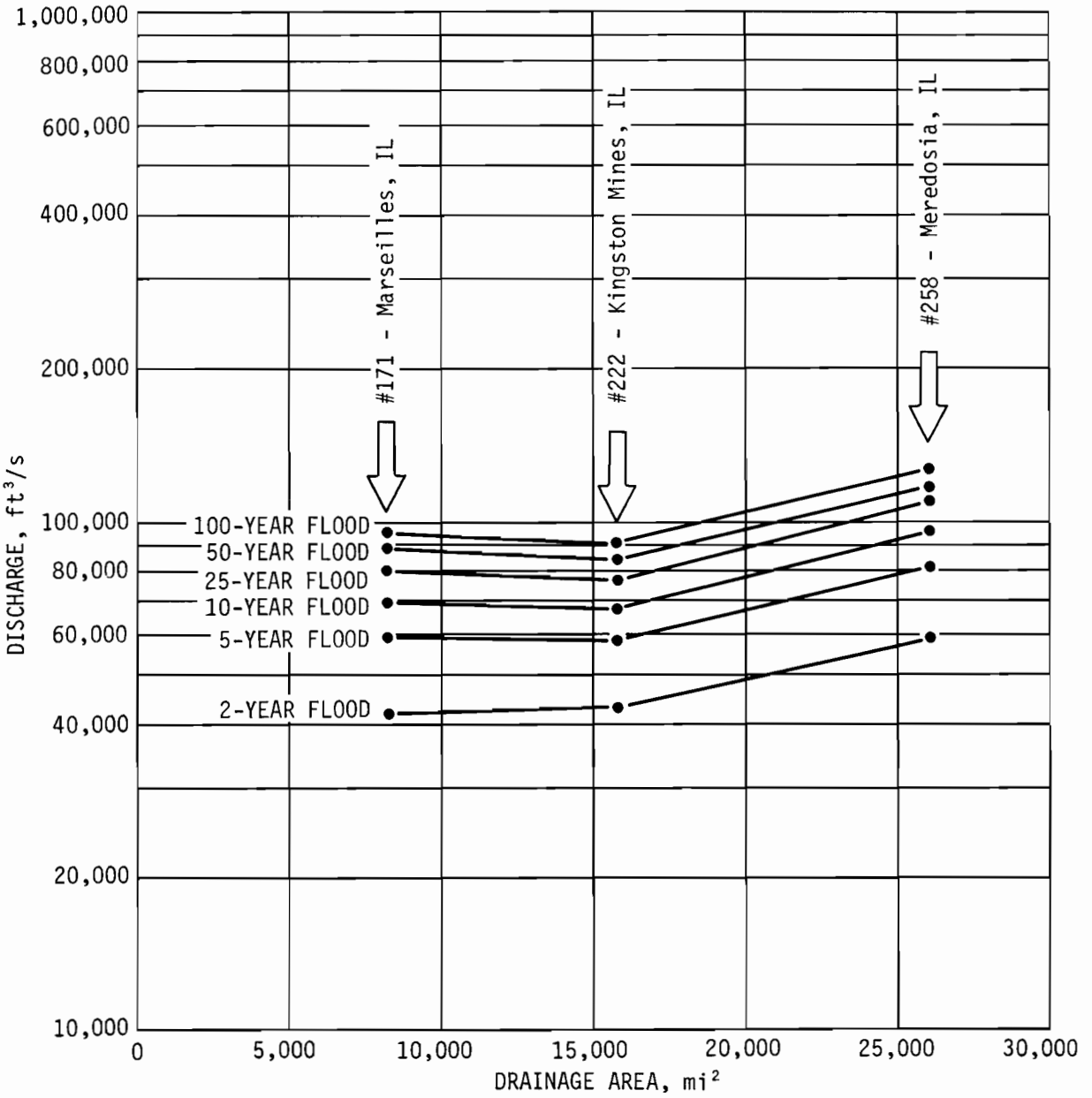

Figure 15.--Relation of flood magnitudes for selected recurrence intervals to drainage area, Illinois River main stem.

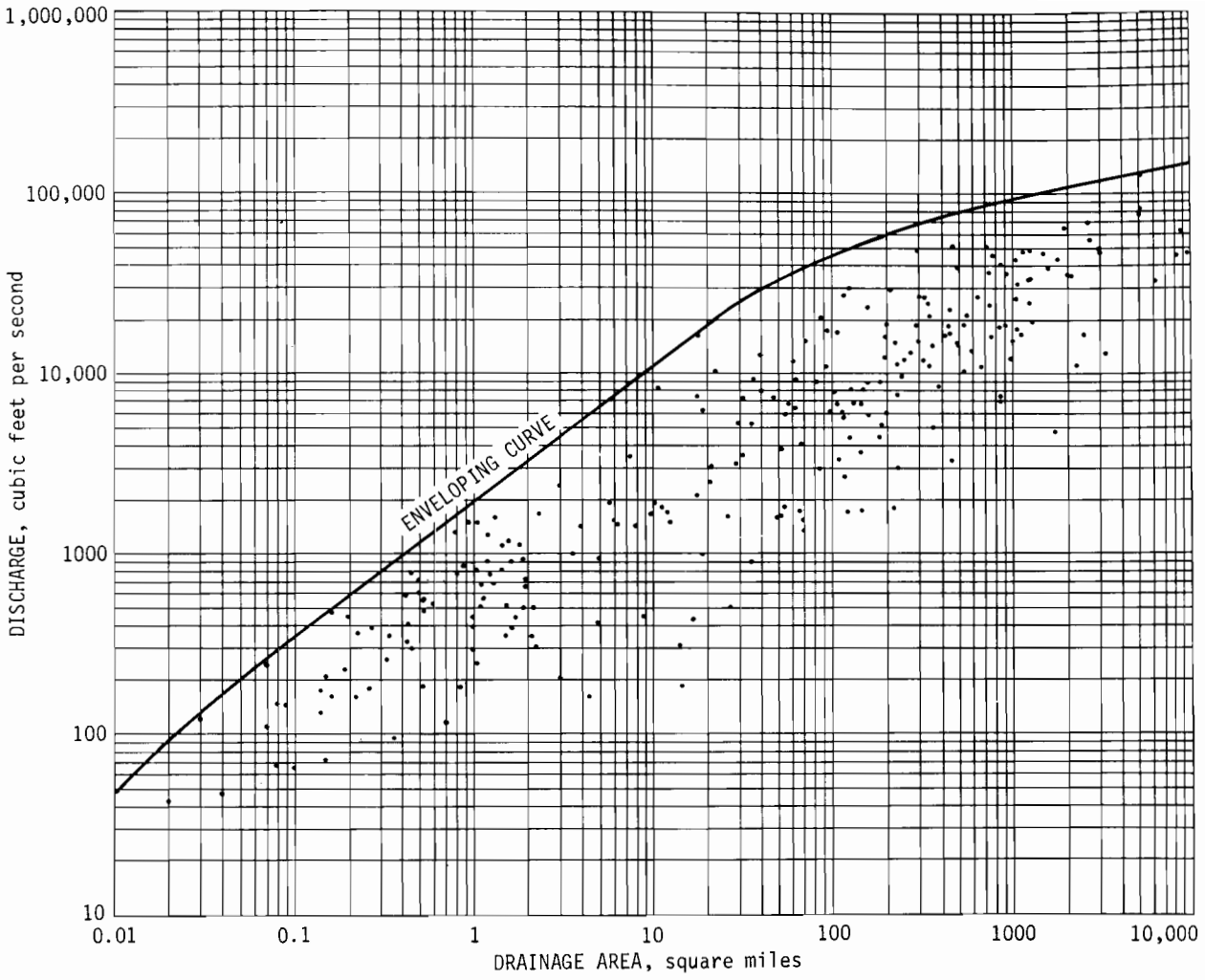

Figure 16.-- Relation of maximum known discharges to drainage area for stream-gaging stations in Illinois with drainage areas less than 10,000 square miles.

Table 1.–T-year peak discharges at gaging stations, in cubic feet per second

The upper numbers are values of Q_T from individual station frequency curves. The middle numbers are values of Q_T computed using regression equations. The lower numbers are values of the weighted or best estimated frequency curve and were obtained by weighting the station and regionalized equation curves.

Stations noted by an asterisk (*) are not natural-flow rural streams and were omitted from the regional analysis.

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
1	03336100	Big Four Ditch tributary near Paxton, Ill.	112	199	261	343	405	466
		Lat 40°27′15″, long 88°09′10″, in NW¼NW¼ sec.14,	114	201	264	345	409	471
		T.23 N., R.9 E., Ford County.	112	199	262	343	406	467
2	03336500	Bluegrass Creek at Potomac, Ill.	1,780	2,850	3,570	4,460	5,120	5,760
		Lat 40°19′19″, long 87°48′02″, in SE¼NE¼ sec.34,	1,030	1,740	2,250	2,870	3,370	3,840
		T.22 N., R.13 W., Vermilion County.	1,650	2,670	3,310	4,110	4,730	5,290
3	03336900	Salt Fork near St. Joseph, Ill.	2,640	4,000	4,890	5,960	6,730	7,460
		Lat 40°08′55″, long 88°02′00″, in NW¼SE¼ sec.35,	2,630	4,370	5,620	7,130	8,340	9,490
		T.20 N., R.10 E., Champaign County.	2,640	4,070	5,050	6,250	7,120	8,000
4	*03337000	Boneyard Creek at Urbana, Ill.	453	533	575	621	651	677
		Lat 40°06′40″, long 88°13′35″, in NW¼NE¼ sec.18,	–	–	–	–	–	–
		T.19 N., R.9 E., Champaign County.	–	–	–	–	–	–
5	03337500	Saline Branch at Urbana, Ill.	1,270	2,020	2,510	3,120	3,560	3,990
		Lat 40°07′12″, long 88°11′41″, in NE¼SW¼ sec.9,	1,090	1,800	2,300	2,910	3,390	3,840
		T.19 N., R.9 E., Champaign County.	1,250	2,000	2,490	3,090	3,540	3,970
6	03338000	Salt Fork near Homer, Ill.	3,660	5,860	7,310	9,110	10,400	11,700
		Lat 40°03′20″, long 87°57′30″, in SW¼SW¼ sec.33,	4,090	6,690	8,530	10,700	12,500	14,200
		T.19 N., R.14 W., Champaign County.	3,710	5,950	7,470	9,360	10,700	12,100
7	03338100	Salt Fork tributary near Catlin, Ill.	186	379	531	745	915	1,090
		Lat 40°03′55″, long 87°46′05″, in SE¼NE¼ sec.36,	177	310	405	526	622	714
		T.19 N., R.13 W., Vermilion County.	184	365	499	680	827	963
8	03338500	Vermilion River near Catlin, Ill.	8,770	14,600	18,500	23,600	27,300	31,000
		Lat 40°06′09″, long 87°42′58″, in SE¼SE¼ sec.16,	9,300	15,100	19,200	24,100	28,000	31,800
		T.19 N., R.12 W., Vermilion County.	8,860	14,700	18,600	23,700	27,500	31,200

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second—Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
9	03338800	North Fork Vermilion River tributary near Danville, Ill.	303	521	674	872	1,020	1,170
		Lat 40°14′23″, long 87°38′40″, in NE¼NE¼ sec.36,	168	298	393	514	611	705
		T.21 N., R.12 W., Vermilion County.	275	475	605	772	906	1,030
10	03339000	Vermilion River near Danville, Ill.	13,100	20,900	26,100	32,500	37,000	41,400
		Lat 40°05′53″, long 87°35′37″, in SE¼NW¼ sec.22,	11,900	19,300	24,500	30,700	35,700	40,500
		T.19 N., R.11 W., Vermilion County.	13,000	20,800	26,000	32,300	36,900	41,300
11	03341700	Big Creek tributary near Dudley, Ill.	190	295	364	449	509	568
		Lat 39°33′55″, long 87°47′25″, in SW¼NW¼ sec.19,	192	344	455	598	712	823
		T.13 N., R.12 W., Edgar County.	190	305	385	487	560	639
12	03341900	Raccoon Creek tributary near Annapolis, Ill.	18	34	45	61	73	85
		Lat 39°08′36″, long 87°41′10″, in NE¼NE¼ sec.13,	18	34	45	60	72	83
		T.8 N., R.12 W., Crawford County.	18	34	45	61	73	84
13	03343400	Embarras River near Camargo, Ill.	2,930	4,460	5,450	6,650	7,500	8,330
		Lat 39°47′30″, long 88°11′10″, in NE¼NW¼ sec.3,	2,960	4,860	6,200	7,810	9,100	10,300
		T.15 N., R.9 E., Douglas County.	2,940	4,540	5,630	6,960	7,930	8,910
14	03344000	Embarras River near Diona, Ill.	8,810	13,400	16,400	20,000	22,600	25,100
		Lat 39°20′40″, long 88°10′15″, in NE¼NW¼ sec.2,	7,520	12,000	15,200	19,000	22,000	24,800
		T.10 N., R.9 E., Cumberland County.	8,450	13,000	16,000	19,600	22,400	25,000
15	03344250	Embarras River tributary near Greenup, Ill.	22	34	42	53	60	67
		Lat 39°14′00″, long 88°09′20″, in NW¼SW¼ sec.12,	15	26	34	45	53	61
		T.9 N., R.9 E., Cumberland County.	21	33	40	51	58	65
16	03344425	Muddy Creek tributary at Woodbury, Ill.	25	52	73	102	124	148
		Lat 39°11′58″, long 88°17′38″, in NE¼NW¼ sec.27,	38	70	93	125	150	174
		T.9 N., R.8 E., Cumberland County.	27	55	77	108	131	155
17	03344500	Range Creek near Casey, Ill.	888	1,630	2,180	2,910	3,470	4,030
		Lat 39°19′36″, long 88°01′46″, in NE¼SE¼ sec.12,	614	1,060	1,390	1,790	2,120	2,430
		T.10 N., R.10 E., Cumberland County.	844	1,540	2,020	2,650	3,150	3,610

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second—Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
18	03345500	Embarras River at Ste. Marie, Ill.	13,800	23,100	29,800	38,700	45,500	52,500
		Lat 38°56′10″, long 88°01′10″, in NW¼NW¼ sec.30,	12,800	20,400	25,800	32,100	37,200	42,000
		T.6 N., R.14 W., Jasper County.	13,700	22,900	29,500	38,100	44,700	51,400
19	03346000	North Fork Embarras River near Oblong, Ill.	7,050	14,600	20,400	28,300	34,300	40,400
		Lat 39°00′01″, long 87°56′42″, in NE¼SW¼ sec.35,	6,110	10,100	12,900	16,200	19,000	21,500
		T.7 N., R.14 W., Crawford County.	6,950	14,100	19,300	26,100	31,500	36,400
20	03378000	Bonpas Creek at Browns, Ill.	2,740	4,060	4,860	5,790	6,430	7,010
		Lat 38°23′11″, long 87°58′32″, in NW¼SE¼ sec.33,	4,330	7,080	9,030	11,400	13,300	15,000
		T.1 S., R.14 W., Wabash County.	2,870	4,300	5,250	6,390	7,150	7,960
21	03378650	Second Creek tributary at Keptown, Ill.	239	410	531	686	802	917
		Lat 39°04′50″, long 88°39′55″, in NE¼SW¼ sec.5,	229	402	527	686	813	936
		T.7 N., R.5 E., Effingham County.	237	408	530	686	805	923
22	03378900	Little Wabash River at Louisville, Ill.	10,500	17,000	21,400	26,800	30,800	34,700
		Lat 38°46′23″, long 88°29′50″, in NW¼SE¼ sec.23,	10,500	17,000	21,700	27,100	31,600	35,800
		T.4 N., R.6 E., Clay County.	10,500	17,000	21,500	26,900	31,100	35,100
23	03378980	Little Wabash River tributary at Clay City, Ill.	148	260	341	447	527	607
		Lat 38°40′46″, long 88°20′53″, in NW¼SW¼ sec.20,	136	246	328	434	519	602
		T.3 N., R.8 E., Clay County.	146	257	338	444	525	606
24	03379500	Little Wabash River below Clay City, Ill.	12,900	23,200	30,700	40,700	48,400	56,100
		Lat 38°38′05″, long 88°17′50″, in NE¼SE¼ sec.3,	12,800	20,500	26,000	32,400	37,700	42,600
		T.2 N., R.8 E., Clay County.	12,900	23,000	30,300	39,900	47,300	54,500
25	03379650	Madden Creek near West Salem, Ill.	448	703	872	1,080	1,230	1,370
		Lat 38°32′15″, long 88°03′25″, in SW¼NW¼ sec.12,	304	540	712	933	1,110	1,280
		T.1 N., R.10 E., Edwards County.	420	673	837	1,040	1,200	1,350
26	03380300	Dums Creek tributary near Iuka, Ill.	45	77	99	128	150	171
		Lat 38°37′35″, long 88°49′20″, in NE¼SW¼ sec.12,	52	96	129	172	206	240
		T.2 N., R.3 E., Marion County.	46	80	104	137	161	187

Table 1.–T-year peak discharges at gaging stations, in cubic feet per second––Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
27	03380350	Skillet Fork near Iuka, Ill.	5,310	10,100	13,700	18,500	22,300	26,200
		Lat 38°31′10″, long 88°43′39″, in SE¼SW¼ sec.14,	3,990	6,520	8,320	10,500	12,200	13,800
		T.1 N., R.4 E., Marion County.	4,890	8,910	11,600	15,000	17,800	20,100
28	03380400	Horse Creek tributary near Cartter, Ill.	228	368	462	580	665	749
		Lat 38°31′10″, long 88°51′50″, in SW¼SW¼ sec.15,	254	452	596	782	931	1,070
		T.1 N., R.3 E., Marion County.	234	387	498	641	744	854
29	03380450	White Feather Creek near Marlow, Ill.	149	242	305	384	442	499
		Lat 38°20′40″, long 88°46′50″, in NW¼NE¼ sec.20,	181	331	440	585	700	813
		T.2 S., R.4 E., Jefferson County.	154	255	328	423	491	566
30	03380475	Horse Creek near Keenes, Ill.	3,910	6,120	7,570	9,360	10,700	11,900
		Lat 38°22′34″, long 88°39′44″, in NW¼SW¼ sec.4,	2,910	4,820	6,180	7,830	9,150	10,400
		T.2 S., R.5 E., Wayne County.	3,690	5,830	7,210	8,920	10,300	11,400
31	03380500	Skillet Fork at Wayne City, Ill.	8,200	14,300	18,700	24,400	28,700	32,900
		Lat 38°21′25″, long 88°35′00″, in SW¼SW¼ sec.7,	6,870	11,100	14,100	17,600	20,500	23,100
		T.2 S., R.6 E., Wayne County.	8,110	14,100	18,300	23,700	27,800	31,700
32	03381500	Little Wabash River at Carmi, Ill.	14,300	22,000	27,100	33,300	37,900	42,300
		Lat 38°03′40″, long 88°09′35″, in NW¼SE¼ sec.25,	21,600	34,100	42,900	53,100	61,400	69,200
		T.5 S., R.9 E., White County.	14,900	23,000	28,700	35,600	40,600	45,800
33	03381600	Little Wabash River tributary near New Haven, Ill.	97	154	191	238	271	304
		Lat 37°55′50″, long 88°09′55″, in NE¼SW¼ sec.12,	77	142	189	252	302	351
		T.7 S., R.9 E., White County.	93	152	191	242	279	318
34	03382025	Little Saline Creek tributary near Goreville, Ill.	286	378	432	495	538	578
		Lat 37°36′28″, long 88°58′44″, in SW¼NW¼ sec.34,	168	305	405	537	642	745
		T.10 S., R.2 E., Williamson County.	258	363	426	506	563	622
35	03382100	South Fork Saline River near Carrier Mills, Ill.	2,640	3,640	4,260	4,980	5,490	5,960
		Lat 37°38′16″, long 88°40′40″, in SW¼NE¼ sec.20,	3,510	5,800	7,430	9,400	11,000	12,500
		T.10 S., R.5 E., Saline County.	2,860	4,160	5,130	6,320	7,120	8,090

Table 1.--T-year peak discharges at gaging stations, in cubic feet per second--Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
36	*03382500	Saline River near Junction, Ill.	11,100	17,400	21,800	27,300	31,300	35,400
		Lat 37°41′52″, long 88°16′00″, in NE¼ sec.36, T.9 S.,	–	–	–	–	–	–
		R.8 E., Gallatin County.	–	–	–	–	–	–
37	03382520	Black Branch tributary near Junction, Ill.	161	307	419	574	696	822
		Lat 37°41′13″, long 88°16′55″, in NE¼ sec.2, T.10 S.,	174	308	406	531	631	728
		R.8 E., Gallatin County.	164	307	415	560	675	788
38	03385000	Hayes Creek at Glendale, Ill.	2,290	3,570	4,420	5,480	6,260	7,020
		Lat 37°27′25″, long 88°40′05″, in SW¼SW¼ sec.21,	1,530	2,640	3,450	4,470	5,280	6,070
		T.12 S., R.5 E., Pope County.	2,170	3,430	4,250	5,270	6,060	6,810
39	03385500	Lake Glendale Inlet near Dixon Springs, Ill.	646	942	1,130	1,360	1,520	1,670
		Lat 37°24′55″, long 88°39′00″, in NE¼SW¼ sec.3,	393	718	959	1,280	1,530	1,780
		T.13 S., R.5 E., Pope County.	597	902	1,090	1,340	1,520	1,700
40	*03386500	Sugar Creek near Dixon Springs, Ill.	1,500	1,970	2,250	2,570	2,800	3,010
		Lat 37°24′56″, long 88°40′25″, in NW¼SW¼ sec.4,	–	–	–	–	–	–
		T.13 S., R.5 E., Pope County.	–	–	–	–	–	–
41	03612000	Cache River at Forman, Ill.	3,820	6,260	7,940	10,100	11,700	13,300
		Lat 37°20′11″, long 88°55′26″, in NE¼NW¼ sec.6,	4,200	6,850	8,730	11,000	12,800	14,500
		T.14 S., R.3 E., Johnson County.	3,850	6,300	8,010	10,200	11,800	13,400
42	03612200	Q ditch tributary near Choat, Ill.	141	224	281	351	404	455
		Lat 37°13′10″, long 88°48′00″, in NW¼NW¼ sec.17,	135	249	334	446	536	624
		T.15 S., R.4 E., Massac County.	140	228	291	371	431	494
43	03614000	Hess Bayou tributary near Mound City, Ill.	449	611	709	823	902	977
		Lat 37°08′11″, long 89°08′31″, in NE¼SE¼ sec.7,	296	521	684	893	1,060	1,220
		T.16 S., R.1 E., Pulaski County.	409	590	702	843	947	1,050
44	04087300	Lake Michigan tributary at Winthrop Harbor, Ill.	85	149	194	253	298	342
		Lat 42°29′10″, long 87°49′20″, in SW¼SW¼ sec.3,	88	157	206	270	320	370
		T.46 N., R.12 E., Lake County.	86	150	197	257	304	350

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second—Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
45	04087400	Kellogg Ravine at Zion, Ill.	214	426	592	821	1,000	1,190
		Lat 42°28′02″, long 87°49′29″, in SW¼NW¼ sec.15,	102	179	234	303	358	412
		T.46 N., R.12 E., Lake County.	182	351	464	609	735	836
46	05415000	Galena River at Buncombe, Wis.	5,430	8,460	10,500	13,200	15,200	17,200
		Lat 42°30′49″, long 90°22′40″, in SW¼ sec.33, T.1 N.,	3,560	6,000	7,750	9,910	11,600	13,300
		R.1 E., Lafayette County.	5,210	8,170	10,100	12,700	14,600	16,500
47	05415500	East Fork Galena River at Council Hill, Ill.	2,100	4,230	5,930	8,330	10,300	12,300
		Lat 42°28′05″, long 90°20′20″, in W½ sec.31, T.29 N.,	1,330	2,320	3,050	3,970	4,700	5,420
		R.2 E., Jo Daviess County.	1,990	3,940	5,390	7,360	9,040	10,500
48	05418750	South Fork Apple River near Nora, Ill.	214	385	509	672	795	920
		Lat 42°25′35″, long 89°57′50″, in NW¼NW¼ sec.17,	233	413	544	712	846	976
		T.28 N., R.5 E., Jo Daviess County.	218	391	518	683	809	937
49	05418800	Mill Creek tributary near Scales Mound, Ill.	249	414	527	670	776	879
		Lat 42°27′10″, long 90°15′10″, near center of sec.2,	250	459	614	818	982	1,140
		T.28 N., R.2 E., Jo Daviess County.	249	421	543	702	819	940
50	05418980	Apple River tributary near Hanover, Ill.	231	456	631	871	1,060	1,250
		Lat 42°17′26″, long 90°18′02″, in NW¼SE¼ sec.32,	314	568	756	1,000	1,190	1,390
		T.27 N., R.2 E., Jo Daviess County.	256	491	676	924	1,110	1,310
51	05419000	Apple River near Hanover, Ill.	5,570	8,280	10,000	12,100	13,700	15,100
		Lat 42°15′05″, long 90°17′10″, in NE¼NW¼ sec.16,	5,830	9,780	12,600	16,100	18,900	21,600
		T.26 N., R.2 E., Jo Daviess County.	5,590	8,400	10,300	12,500	14,300	15,900
52	05420000	Plum River below Carroll Creek near Savanna, Ill.	3,690	6,110	7,790	9,940	11,500	13,100
		Lat 42°06′50″, long 90°05′35″, in NW¼SW¼ sec.31,	4,340	7,220	9,280	11,800	13,800	15,700
		T.25 N., R.4 E., Carroll County.	3,750	6,220	7,960	10,200	11,800	13,500
53	05430500	Rock River at Afton, Wis.	6,360	9,070	10,700	12,500	13,800	14,900
		Lat 42°36′33″, long 89°04′14″, in NE¼ sec.28, T.2 N.,	8,180	12,800	16,100	19,800	22,800	25,600
		R.12 E., Rock County.	6,460	9,260	11,000	13,000	14,400	15,800

Table 1. -T-year peak discharges at gaging stations, in cubic feet per second——Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
54	05431500	Turtle Creek near Clinton, Wis.	2,150	4,310	6,020	8,420	10,300	12,300
		Lat 42°35′47″, long 88°51′50″, in SE¼ sec.29, T.2 N.,	1,690	2,770	3,530	4,440	5,160	5,850
		R.14 E., Rock County.	2,100	4,120	5,640	7,680	9,330	10,900
55	05434500	Pecatonica River at Martintown, Wis.	5,980	9,300	11,500	14,200	16,100	18,000
		Lat 42°30′34″, long 89°47′58″, in SE¼ sec.32, T.1 N.,	7,060	11,400	14,500	18,100	21,000	23,700
		R.6 E., Green County.	6,080	9,490	11,800	14,700	16,700	18,800
56	05435000	Cedar Creek near Winslow, Ill.	105	254	387	589	760	945
		Lat 42°28′00″, long 89°50′02″, in SE¼NE¼ sec.32,	185	330	435	571	680	785
		T.29 N., R.6 E., Stephenson County.	114	264	395	585	743	906
57	05435500	Pecatonica River at Freeport, Ill.	6,180	9,850	12,400	15,700	18,200	20,700
		Lat 42°18′13″, long 89°36′57″, in SE¼ sec.30, T.27 N.,	9,750	15,700	19,800	24,700	28,700	32,400
		R.8 E., Stephenson County.	6,350	10,100	12,800	16,300	18,900	21,700
58	05435650	Lost Creek tributary near Shannon, Ill.	269	433	543	682	782	881
		Lat 42°10′10″, long 89°44′45″, in SE¼SE¼ sec.12,	216	381	501	655	777	896
		T.25 N., R.6 E., Carroll County.	257	421	532	674	781	886
59	05436500	Sugar River near Brodhead, Wis.	3,710	6,790	9,080	12,100	14,500	16,900
		Lat 42°36′42″, long 89°23′53″, in SW¼ sec.26, T.2 N.,	4,870	7,940	10,100	12,700	14,800	16,800
		R.9 E., Rock County.	3,770	6,860	9,150	12,200	14,500	16,900
60	05436900	Otter Creek tributary near Durand, Ill.	57	108	146	197	237	278
		Lat 42°28′10″, long 89°19′25″, in SE¼NE¼ sec.34,	117	214	285	378	452	525
		T.29 N., R.10 E., Winnebago County.	66	125	173	237	285	340
61	05437000	Pecatonica River at Shirland, Ill.	8,420	12,300	14,700	17,600	19,700	21,600
		Lat 42°26′10″, long 89°11′50″, in SW¼ sec.11, T.28	13,400	21,500	27,200	33,800	39,200	44,300
		N., R.11 E., Winnebago County.	8,870	13,100	16,000	19,500	22,000	24,600
62	05437500	Rock River at Rockton, Ill.	15,200	21,800	25,900	30,900	34,300	37,600
		Lat 42°26′55″, long 89°04′11″, in SW¼NE¼ sec.24,	10,200	16,000	20,000	24,600	28,300	31,800
		T.46 N., R.1 E., Winnebago County.	14,700	21,300	25,300	30,100	33,500	36,800

Table 1.–T-year peak discharges at gaging stations, in cubic feet per second––Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
63	05437600	Rock River tributary near Rockton, Ill.	135	246	328	436	518	602
		Lat 42°23′00″, long 89°05′50″, in SE¼SE¼ sec.10,	180	320	422	552	655	757
		T.45 N., R.1 E., Winnebago County.	143	260	349	466	554	648
64	05437950	Kishwaukee River near Huntley, Ill.	128	154	168	183	193	201
		Lat 42°13′47″, long 88°25′21″, in SE¼SW¼ sec.4,	249	423	548	701	822	939
		T.43 N., R.7 E., McHenry County.	153	202	243	294	322	366
65	05438250	Coon Creek at Riley, Ill.	1,070	1,910	2,520	3,320	3,920	4,520
		Lat 42°10′58″, long 88°38′28″, in SE¼SW¼ sec.22,	1,230	2,060	2,640	3,360	3,930	4,470
		T.43 N., R.5 E., McHenry County.	1,100	1,940	2,550	3,330	3,920	4,500
66	05438300	Lawrence Creek tributary near Harvard, Ill.	77	122	151	186	211	235
		Lat 42°27′30″, long 88°36′10″, in SE¼SW¼ sec.13,	122	221	294	389	465	540
		T.46 N., R.5 E., McHenry County.	85	138	178	230	264	306
67	05438500	Kishwaukee River at Belvidere, Ill.	3,560	6,360	8,390	11,100	13,100	15,200
		Lat 42°15′22″, long 88°51′50″, in SE¼SE¼ sec.27,	4,650	7,630	9,760	12,300	14,300	16,300
		T.44 N., R.3 E., Boone County.	3,660	6,480	8,550	11,300	13,300	15,400
68	05438850	Middle Branch of South Branch Kishwaukee River near	128	248	339	464	562	661
		Malta, Ill.	157	278	366	478	567	653
		Lat 41°51′20″, long 88°53′10″, in NE¼SE¼ sec.16,	132	253	344	467	563	659
		T.39 N., R.3 E., De Kalb County.						
69	05439500	South Branch Kishwaukee River near Fairdale, Ill.	3,720	5,830	7,200	8,870	10,100	11,200
		Lat 42°06′40″, long 88°54′00″, in SW¼SW¼ sec.16,	2,590	4,210	5,350	6,700	7,790	8,820
		T.42 N., R.3 E., De Kalb County.	3,590	5,640	6,940	8,520	9,730	10,800
70	05439550	South Branch Kishwaukee River tributary near Irene, Ill.	119	289	442	675	872	1,090
		Lat 42°10′38″, long 88°56′50″, in SW¼NE¼ sec.25,	169	302	399	525	625	722
		T.43 N., R.2 E., Winnebago County.	127	291	432	632	799	967
71	05440000	Kishwaukee River near Perryville, Ill.	7,000	11,700	14,900	19,000	22,000	25,000
		Lat 42°11′45″, long 88°59′55″, in NE¼NE¼ sec.21,	7,650	12,500	15,900	20,000	23,300	26,400
		T.43 N., R.2 E., Winnebago County.	7,060	11,800	15,000	19,100	22,200	25,200

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second——Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
72	05440500	Killbuck Creek near Monroe Center, Ill.	2,280	4,360	5,900	7,950	9,500	11,100
		Lat 42°05′55″, long 89°03′10″, in NW¼SW¼ sec.19,	2,100	3,510	4,510	5,730	6,710	7,650
		T.42 N., R.2 E., Ogle County.	2,260	4,270	5,710	7,590	9,040	10,400
73	05440650	Stillman Creek tributary near Holcomb, Ill.	82	145	190	250	295	340
		Lat 42°03′48″, long 89°08′36″, in NE¼NW¼ sec.5,	113	201	265	347	412	476
		T.41 N., R.1 E., Ogle County.	87	154	205	272	322	375
74	05440900	Leaf River tributary near Forreston, Ill.	59	113	154	210	253	297
		Lat 42°07′40″, long 89°31′20″, in NE¼NW¼ sec.36,	62	115	154	206	247	288
		T.25 N., R.8 E., Ogle County.	59	113	154	209	252	295
75	05441000	Leaf River at Leaf River, Ill.	2,660	5,340	7,410	10,200	12,400	14,700
		Lat 42°07′40″, long 89°23′25″, in NW¼ sec.31, T.25	2,400	4,050	5,240	6,690	7,860	8,980
		N., R.10 E., Ogle County.	2,630	5,190	7,100	9,600	11,600	13,600
76	05441500	Rock River at Oregon, Ill.	22,000	33,100	40,200	48,700	54,800	60,600
		Lat 42°01′00″, long 89°19′44″, in SE¼NW¼ sec.3,	18,500	28,900	36,200	44,600	51,300	57,700
		T.23 N., R.10 E., Ogle County.	20,900	31,800	38,800	47,100	53,500	59,400
77	05442000	Kyte River near Flagg Center, Ill.	1,280	1,750	2,020	2,340	2,560	2,760
		Lat 41°56′15″, long 89°09′22″, in SE¼ sec.18, T.40	1,900	3,160	4,050	5,140	6,010	6,840
		N., R.1 E., Ogle County.	1,410	2,030	2,480	3,040	3,400	3,860
78	05443500	Rock River at Como, Ill.	24,100	36,200	43,600	52,100	57,900	63,200
		Lat 41°47′00″, long 89°44′58″, in NE¼ sec.25, T.21	19,900	31,100	39,000	48,100	55,400	62,200
		N., R.6 E., Whiteside County.	23,800	35,900	43,200	51,700	57,700	63,100
79	05444000	Elkhorn Creek near Penrose, Ill.	3,100	4,950	6,160	7,620	8,660	9,640
		Lat 41°54′10″, long 89°41′40″, in SW¼SE¼ sec.9,	2,500	4,140	5,300	6,710	7,840	8,910
		T.22 N., R.7 E., Whiteside County.	3,030	4,860	6,050	7,480	8,540	9,520
80	05444100	Spring Creek tributary near Coleta, Ill.	275	481	628	820	964	1,110
		Lat 41°50′40″, long 89°47′39″, in SE¼SW¼ sec.34,	236	423	560	738	880	1,020
		T.22 N., R.6 E., Whiteside County.	266	467	609	794	938	1,080

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second——Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
81	05445500	Rock Creek near Morrison, Ill.	2,280	3,180	3,730	4,370	4,820	5,250
		Lat 41°49′50″, long 89°58′00″, in SW¼SE¼ sec.6,	2,550	4,210	5,390	6,810	7,950	9,030
		T.21 N., R.5 E., Whiteside County.	2,310	3,280	3,920	4,690	5,220	5,790
82	05446500	Rock River near Joslin, Ill.	22,300	33,000	39,700	47,800	53,500	59,000
		Lat 41°33′35″, long 90°10′55″, in NE¼ sec.18, T.18	28,400	44,500	55,800	68,800	79,400	89,300
		N., R.3 E., Rock Island County.	22,800	34,000	41,400	50,400	56,600	63,100
83	05446950	Green River tributary near Amboy, Ill.	97	214	312	453	569	692
		Lat 41°45′30″, long 89°20′10″, in SE¼SW¼ sec.34,	130	236	314	417	498	578
		T.21 N., R.10 E., Lee County.	103	218	312	442	548	653
84	05447000	Green River at Amboy, Ill.	2,640	4,180	5,160	6,340	7,170	7,950
		Lat 41°42′35″, long 89°19′28″, in SE¼NE¼ sec.22,	2,530	4,180	5,340	6,740	7,860	8,930
		T.20 N., R.10 E., Lee County.	2,630	4,180	5,180	6,400	7,260	8,100
85	05447050	Green River tributary No. 2 near Ohio, Ill.	140	248	326	427	503	579
		Lat 41°39′13″, long 89°27′21″, in NW¼ sec.10, T.19	379	662	866	1,120	1,330	1,530
		N., R.9 E., Lee County.	175	308	422	570	673	800
86	*05447200	Normandy ditch at Normandy, Ill.	44	77	101	132	156	180
		Lat 41°33′50″, long 89°39′20″, in SW¼NE¼ sec.11,	—	—	—	—	—	—
		T.18 N., R.7 E., Bureau County.	—	—	—	—	—	—
87	05447350	Mud Creek tributary near Atkinson, Ill.	191	370	503	677	812	951
		Lat 41°20′42″, long 90°02′38″, in NE¼SW¼ sec.28,	183	325	428	561	667	770
		T.16 N., R.4 E., Henry County.	189	360	483	642	768	889
88	05447500	Green River near Geneseo, Ill.	5,660	8,140	9,630	11,300	12,500	13,600
		Lat 41°29′20″, long 90°09′30″, in NE¼SW¼ sec.4,	8,740	14,100	17,900	22,400	26,100	29,500
		T.17 N., R.3 E., Henry County.	5,890	8,570	10,300	12,400	13,800	15,300
89	05448000	Mill Creek at Milan, Ill.	2,790	5,330	7,250	9,840	11,900	13,900
		Lat 41°26′35″, long 90°33′15″, in SW¼SE¼ sec.24,	2,220	3,730	4,810	6,130	7,200	8,210
		T.17 N., R.2 W., Rock Island County.	2,730	5,140	6,900	9,200	11,100	12,800

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second——Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
90	05448050	Sand Creek near Milan, Ill.	38	76	105	146	179	212
		Lat 41°24′05″, long 90°36′20″, in SE¼SE¼ sec.4,	77	141	187	248	297	345
		T.16 N., R.2 W., Rock Island County.	43	84	118	165	201	241
91	05466000	Edwards River near Orion, Ill.	3,130	4,720	5,720	6,910	7,730	8,500
		Lat 41°16′20″, long 90°22′40″, in NE¼SE¼ sec.21,	2,880	4,770	6,120	7,760	9,070	10,300
		T.15 N., R.1 E., Henry County.	3,100	4,730	5,770	7,030	7,910	8,780
92	05466500	Edwards River near New Boston, Ill.	3,880	6,130	7,650	9,560	11,000	12,300
		Lat 41°11′15″, long 90°58′05″, at quarter corner be-	3,910	6,300	7,990	9,980	11,600	13,100
		tween secs.21 and 28, T.14 N., R.5 W., Mercer	3,880	6,140	7,690	9,610	11,100	12,400
		County.						
93	05467000	Pope Creek near Keithsburg, Ill.	2,140	3,330	4,120	5,110	5,840	6,550
		Lat 41°07′45″, long 90°55′14″, in SE¼ sec.11, T.13	2,790	4,580	5,860	7,400	8,640	9,810
		N., R.5 W., Mercer County.	2,190	3,430	4,280	5,360	6,140	6,950
94	05467500	Henderson Creek near Little York, Ill.	2,310	3,830	4,880	6,230	7,240	8,250
		Lat 41°02′35″, long 90°44′45″, between secs.8 and 9,	2,590	4,280	5,480	6,930	8,100	9,210
		T.12 N., R.3 W., Warren County.	2,340	3,880	4,950	6,330	7,360	8,410
95	05468000	North Henderson Creek near Seaton, Ill.	1,100	1,440	1,630	1,860	2,010	2,150
		Lat 41°05′25″, long 90°46′25″, near center of sec.30,	1,500	2,490	3,200	4,070	4,770	5,430
		T.13 N., R.3 W., Mercer County.	1,190	1,670	2,010	2,450	2,730	3,080
96	05468500	Cedar Creek at Little York, Ill.	2,210	4,290	5,890	8,090	9,820	11,600
		Lat 41°00′50″, long 90°44′45″, between secs.20 and	2,370	3,930	5,040	6,380	7,460	8,480
		21, T.12 N., R.3 W., Warren County.	2,230	4,250	5,780	7,810	9,430	11,000
97	05469000	Henderson Creek near Oquawka, Ill.	4,870	7,760	9,730	12,200	14,100	15,900
		Lat 41°00′05″, long 90°51′15″, in NE¼SW¼ sec.28,	5,680	9,310	11,900	15,000	17,500	19,900
		T.12 N., R.4 W., Henderson County.	4,940	7,890	9,950	12,500	14,500	16,400
98	05469500	South Henderson Creek at Biggsville, Ill.	1,730	3,290	4,480	6,090	7,330	8,610
		Lat 40°51′25″, long 90°51′50″, between secs.16 and	1,930	3,230	4,160	5,290	6,200	7,060
		17, T.10 N., R.4 W., Henderson County.	1,750	3,280	4,440	5,970	7,160	8,340

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second——Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
99	05469750	Ellison Creek tributary near Roseville, Ill.	41	86	122	172	212	254
		Lat 40°44′00″, long 90°45′35″, near quarter section	45	81	107	141	168	194
		corner between secs.29 and 32, T.9 N., R.3 W.,	42	85	119	164	201	237
		Warren County.						
100	05495200	Little Creek near Breckenridge, Ill.	417	744	981	1,290	1,530	1,760
		Lat 40°15′00″, long 91°19′15″, in E½ sec.16, T.3 N.,	273	486	640	838	997	1,150
		R.8 W., Hancock County.	389	693	901	1,170	1,390	1,580
101	05495500	Bear Creek near Marcelline, Ill.	8,430	14,100	18,000	22,900	26,600	30,200
		Lat 40°08′34″, long 91°20′14″, between secs.20 and	6,810	11,200	14,200	18,000	21,000	23,800
		21, T.2 N., R.8 W., Adams County.	8,230	13,700	17,400	22,000	25,600	28,900
102	05496900	Homan Creek tributary near Quincy, Ill.	266	457	591	765	894	1,020
		Lat 39°58′45″, long 91°22′40″, in SW¼ sec.18, T.1 S.,	202	369	491	653	783	910
		R.8 W., Adams County.	254	441	569	738	867	990
103	05501500	Burton Creek tributary near Burton, Ill.	173	366	525	750	932	1,120
		Lat 39°56′00″, long 91°13′15″, in SW¼SW¼ sec.33,	127	231	306	406	486	563
		T.1 S., R.7 W., Adams County.	162	330	455	624	767	891
104	05502020	Hadley Creek near Barry, Ill.	4,390	6,380	7,630	9,120	10,200	11,100
		Lat 39°42′48″, long 91°03′56″, in SW¼SW¼ sec.14,	3,100	5,330	6,940	8,960	10,600	12,100
		T.4 S., R.6 W., Pike County.	4,130	6,180	7,480	9,080	10,300	11,400
105	05502040	Hadley Creek at Kinderhook, Ill.	5,850	10,100	13,100	16,900	19,700	22,500
		Lat 39°41′35″, long 91°08′55″, in SE¼NE¼ sec.25,	4,270	7,260	9,420	12,100	14,300	16,300
		T.4 S., R.7 W., Pike County.	5,670	9,770	12,600	16,100	18,800	21,300
106	05502120	Kiser Creek tributary near Barry, Ill.	374	637	822	1,060	1,240	1,410
		Lat 39°41′05″, long 91°00′00″, in SW¼SE¼ sec.29,	274	496	659	873	1,040	1,210
		T.4 S., R.5 W., Pike County.	355	611	786	1,010	1,190	1,360
107	05512500	Bay Creek at Pittsfield, Ill.	4,640	8,440	11,200	14,800	17,400	20,100
		Lat 39°37′30″, long 90°47′40″, in NE¼SW¼ sec.18,	2,320	3,940	5,110	6,560	7,720	8,830
		T.5 S., R.3 W., Pike County.	4,330	7,820	10,200	13,200	15,500	17,600

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second—Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
108	05513000	Bay Creek at Nebo, Ill.	6,510	12,100	16,100	21,500	25,500	29,500
		Lat 39°26′35″, long 90°47′45″, in NW¼ sec.19, T.7 S.,	5,550	9,260	11,900	15,200	17,800	20,200
		R.3 W., Pike County.	6,410	11,800	15,500	20,500	24,200	27,700
109	05513200	Salt Spring Creek near Gilead, Ill.	301	616	867	1,220	1,500	1,790
		Lat 39°07′00″, long 90°39′50″, in SW¼ sec.8, T.11 S.,	513	935	1,250	1,660	1,990	2,310
		R.2 W., Calhoun County.	329	660	933	1,310	1,600	1,910
110	05518000	Kankakee River at Shelby, Ind.	4,070	4,940	5,400	5,900	6,210	6,480
		Lat 41°10′58″, long 87°20′33″, in SW¼NE¼ sec.33,	6,990	11,000	13,900	17,100	19,800	22,300
		T.32 N., R.8 W., Lake County.	4,230	5,230	5,860	6,570	6,990	7,490
111	05519500	West Creek near Schneider, Ind.	935	1,470	1,830	2,270	2,590	2,910
		Lat 41°12′52″, long 87°29′36″, in NW¼NE¼ sec.19,	726	1,200	1,530	1,920	2,240	2,540
		T.32 N., R.9 W., Lake County.	899	1,420	1,770	2,190	2,510	2,820
112	05520000	Singleton ditch at Illinoi, Ill.	1,720	2,010	2,160	2,320	2,420	2,500
		Lat 41°11′20″, long 87°31′35″, in SW¼NW¼ sec.8,	2,730	4,460	5,680	7,140	8,310	9,420
		T.31 N., R.15 E., Kankakee County.	1,810	2,200	2,470	2,780	2,960	3,190
113	05520500	Kankakee River at Momence, Ill.	6,200	7,960	8,910	9,920	10,600	11,100
		Lat 41°09′36″, long 87°40′07″, in NE¼ sec.24, T.31	6,700	10,600	13,300	16,400	18,900	21,200
		N., R.13 E., Kankakee County.	6,230	8,100	9,180	10,400	11,200	11,900
114	05524500	Iroquois River near Foresman, Ind.	2,630	3,560	4,110	4,750	5,190	5,590
		Lat 40°52′14″, long 87°18′24″, in NE¼SE¼ sec.15,	1,960	3,170	4,020	5,020	5,820	6,590
		T.28 N., R.8 W., Newton County.	2,530	3,510	4,100	4,800	5,300	5,780
115	05525000	Iroquois River at Iroquois, Ill.	3,500	4,970	5,890	6,990	7,760	8,500
		Lat 40°49′25″, long 87°34′55″, in SE¼ sec.15, T.27	3,680	5,870	7,410	9,200	10,600	12,000
		N., R.11 W., Iroquois County.	3,520	5,070	6,080	7,310	8,160	9,060
116	05525050	Eastburn Hollow near Sheldon, Ill.	256	572	839	1,230	1,550	1,890
		Lat 40°46′30″, long 87°38′40″, in NE¼NW¼ sec.6,	360	614	795	1,020	1,200	1,370
		T.26 N., R.11 W., Iroquois County.	273	580	829	1,170	1,450	1,720

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second——Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
117	05525500	Sugar Creek at Milford, Ill.	6,350	10,600	13,500	17,300	20,000	22,800
		Lat 40°37′50″, long 87°43′25″, in N½ sec.16, T.25 N.,	5,240	8,630	11,000	13,900	16,300	18,500
		R.12 W., Iroquois County.	6,190	10,300	13,100	16,600	19,300	21,800
118	05526000	Iroquois River near Chebanse, Ill.	12,000	17,600	21,200	25,600	28,700	31,700
		Lat 41°00′29″, long 87°49′22″, in SW¼ sec.10, T.29	7,000	11,000	13,800	17,000	19,500	22,000
		N., R.13 W., Kankakee County.	11,500	17,000	20,400	24,500	27,600	30,400
119	05526150	Kankakee River tributary near Bourbonnais, Ill.	33	78	118	178	228	282
		Lat 41°11′35″, long 87°57′00″, in SW¼ sec.3, T.31 N.,	31	57	76	100	120	139
		R.11 E., Kankakee County.	33	74	108	156	197	235
120	05526500	Terry Creek near Custer Park, Ill.	164	309	418	566	681	799
		Lat 41°14′00″, long 88°05′55″, near southwest corner	485	833	1,080	1,390	1,640	1,880
		of SE¼ sec.20, T.32 N., R.10 E., Will County.	190	353	487	670	803	958
121	05527050	Prairie Creek near Frankfort, Ill.	107	204	277	375	452	530
		Lat 41°26′12″, long 87°50′42″, in NW¼ sec.15, T.34	71	126	166	218	258	298
		N., R.12 E., Will County.	99	186	247	326	390	448
122	05527500	Kankakee River near Wilmington, Ill.	21,600	32,100	39,100	47,700	54,100	60,300
		Lat 41°20′48″, long 88°11′11″, in NW¼ sec.15, T.33	14,700	23,200	29,200	36,100	41,700	47,000
		N., R.9 E., Will County.	21,100	31,500	38,200	46,500	52,900	58,800
123	05527800	Des Plaines River at Russell, Ill.	565	1,050	1,410	1,900	2,270	2,650
		Lat 42°29′22″, long 87°55′32″, in SE¼ sec.3, T.46 N.,	675	1,100	1,400	1,750	2,030	2,300
		R.11 E., Lake County.	587	1,060	1,410	1,860	2,200	2,530
124	05527840	Des Plaines River at Wadsworth, Ill.	712	1,370	1,870	2,550	3,080	3,630
		Lat 42°25′45″, long 87°55′49″, in NW¼NE¼ sec.34,	693	1,120	1,430	1,780	2,060	2,330
		T.46 N., R.11 E., Lake County.	708	1,310	1,740	2,290	2,730	3,130
125	05528000	Des Plaines River near Gurnee, Ill.	1,190	1,970	2,500	3,170	3,650	4,130
		Lat 42°20′39″, long 87°56′18″, in SE¼SW¼ sec.27,	948	1,530	1,940	2,410	2,790	3,150
		T.45 N., R.11 E., Lake County.	1,160	1,910	2,410	3,020	3,490	3,920

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second—Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
126	*05528170	Diamond Lake drain at Mundelein, Ill.	50	77	95	116	132	147
		Lat 42°14′56″, long 87°59′37″, in SW¼NE¼ sec.31,	—	—	—	—	—	—
		T.44 N., R.11 E., Lake County.	—	—	—	—	—	—
127	*05528400	Des Plaines River at Wheeling, Ill.	1,840	2,660	3,170	3,770	4,190	4,590
		Lat 42°08′21″, long 87°54′14″, in SW¼SW¼ sec.1,	—	—	—	—	—	—
		T.42 N., R.11 E., Cook County.	—	—	—	—	—	—
128	*05528500	Buffalo Creek near Wheeling, Ill.	314	541	702	909	1,060	1,220
		Lat 42°09′05″, long 87°57′25″, in NE¼NW¼ sec.4,	—	—	—	—	—	—
		T.42 N., R.11 E., Cook County.	—	—	—	—	—	—
129	05529000	Des Plaines River near Des Plaines, Ill.	2,100	3,080	3,690	4,410	4,920	5,400
		Lat 42°04′55″, long 87°53′25″, in SE¼SE¼ sec.25,	1,250	2,010	2,540	3,150	3,640	4,110
		T.42 N., R.11 E., Cook County.	1,990	2,950	3,520	4,200	4,710	5,160
130	*05529500	McDonald Creek near Mount Prospect, Ill.	170	361	517	739	919	1,110
		Lat 42°05′42″, long 87°54′46″, in NW¼NE¼ sec.26,	—	—	—	—	—	—
		T.42 N., R.11 E., Cook County.	—	—	—	—	—	—
131	*05530000	Weller Creek at Des Plaines, Ill.	617	1,000	1,260	1,590	1,830	2,070
		Lat 42°02′58″, long 87°55′05″, in NW¼NW¼ sec.18,	—	—	—	—	—	—
		T.41 N., R.12 E., Cook County.	—	—	—	—	—	—
132	*05530600	Des Plaines River at River Grove, Ill.	2,610	3,390	3,840	4,340	4,690	5,000
		Lat 41°55′46″, long 87°50′40″, in NW¼SW¼ sec.26,	—	—	—	—	—	—
		T.40 N., R.12 E., Cook County.	—	—	—	—	—	—
133	*05530800	Des Plaines River at Forest Park, Ill.	2,690	3,620	4,170	4,800	5,230	5,630
		Lat 41°52′05″, long 87°49′39″, in SE¼SE¼ sec.14,	—	—	—	—	—	—
		T.39 N., R.12 E., Cook County.	—	—	—	—	—	—
134	*05531000	Salt Creek near Arlington Heights, Ill.	407	611	742	900	1,010	1,120
		Lat 42°03′02″, long 88°00′37″, on north boundary of	—	—	—	—	—	—
		sec.17, T.41 N., R.11 E., Cook County.	—	—	—	—	—	—

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second—Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
135	*05531100	Meacham Creek at Medinah, Ill.	59	86	102	121	134	147
		Lat 41°58′39″, long 88°02′52″, in SW¼ sec.1, T.40 N.,	–	–	–	–	–	–
		R.10 E., Du Page County.	–	–	–	–	–	–
136	*05531200	Salt Creek at Addison, Ill.	802	1,090	1,260	1,460	1,590	1,720
		Lat 41°55′44″, long 87°58′40″, in SW¼NW¼ sec.27,	–	–	–	–	–	–
		T.40 N., R.11 E., Du Page County.	–	–	–	–	–	–
137	*05531500	Salt Creek at Western Springs, Ill.	1,070	1,410	1,610	1,830	1,980	2,120
		Lat 41°49′35″, long 87°54′00″, in NE¼SE¼ sec.31,	–	–	–	–	–	–
		T.39 N., R.12 E., Cook County.	–	–	–	–	–	–
138	*05532000	Addison Creek at Bellwood, Ill.	400	543	629	728	795	858
		Lat 41°52′48″, long 87°52′07″, in SW¼SE¼ sec.9,	–	–	–	–	–	–
		T.39 N., R.12 E., Cook County.	–	–	–	–	–	–
139	*05532500	Des Plaines River at Riverside, Ill.	3,830	5,150	5,920	6,780	7,360	7,890
		Lat 41°49′20″, long 87°49′15″, in SW¼SW¼ sec.36,	–	–	–	–	–	–
		T.39 N., R.12 E., Cook County.	–	–	–	–	–	–
140	*05533000	Flag Creek near Willow Springs, Ill.	677	1,120	1,420	1,800	2,080	2,350
		Lat 41°44′20″, long 87°53′48″, in SE¼NE¼ sec.31,	–	–	–	–	–	–
		T.38 N., R.12 E., Cook County.	–	–	–	–	–	–
141	*05533300	Wards Creek near Woodridge, Ill.	81	114	134	157	173	188
		Lat 41°43′32″, long 87°59′19″, in SW¼NW¼ sec.4,	–	–	–	–	–	–
		T.37 N., R.11 E., Du Page County.	–	–	–	–	–	–
142	*05533500	Des Plaines River at Lemont, Ill.	3,100	4,190	4,830	5,550	6,040	6,500
		Lat 41°40′54″, long 88°00′09″, in NW¼ sec.20, T.37	–	–	–	–	–	–
		N., R.11 E., Cook County.	–	–	–	–	–	–
143	*05534500	North Branch Chicago River at Deerfield, Ill.	258	351	406	470	514	554
		Lat 42°09′10″, long 87°49′07″, in SW¼SE¼ sec.34,	–	–	–	–	–	–
		T.43 N., R.12 E., Lake County.	–	–	–	–	–	–

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second—Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
144	*05535000	Skokie River at Lake Forest, Ill.	204	283	331	387	426	462
		Lat 42°13′57″, long 87°50′41″, in NW¼SW¼ sec.4,	–	–	–	–	–	–
		T.43 N., R.12 E., Lake County.	–	–	–	–	–	–
145	*05535500	West Fork of North Branch Chicago River at	404	612	747	910	1,030	1,140
		Northbrook, Ill.	–	–	–	–	–	–
		Lat 42°08′18″, long 87°50′04″, in SW¼SE¼ sec.4,	–	–	–	–	–	–
		T.42 N., R.12 E., Cook County.						
146	*05536000	North Branch Chicago River at Niles, Ill.	1,090	1,460	1,670	1,910	2,080	2,230
		Lat 42°00′44″, long 87°47′45″, in SW¼SE¼ sec.30,	–	–	–	–	–	–
		T.41 N., R.13 E., Cook County.	–	–	–	–	–	–
147	05536190	Hart Ditch at Munster, Ind.	1,290	1,860	2,220	2,660	2,970	3,260
		Lat 41°33′40″, long 87°28′50″, in SE¼NW¼ sec.20,	2,440	4,090	5,280	6,730	7,890	9,010
		T.36 N., R.9 W., Lake County.	1,390	2,040	2,500	3,090	3,480	3,930
148	*05536210	Thorn Creek near Chicago Heights, Ill.	1,010	1,510	1,840	2,230	2,510	2,780
		Lat 41°30′50″, long 87°38′07″, in SE¼SE¼ sec.17,	–	–	–	–	–	–
		T.35 N., R.14 E., Cook County.	–	–	–	–	–	–
149	*05536215	Thorn Creek at Glenwood, Ill.	998	1,430	1,690	2,010	2,230	2,440
		Lat 41°31′50″, long 87°36′20″, in SW¼SE¼ sec.9,	–	–	–	–	–	–
		T.35 N., R.14 E., Cook County.	–	–	–	–	–	–
150	*05536235	Deer Creek near Chicago Heights, Ill.	487	715	859	1,030	1,150	1,270
		Lat 41°31′15″, long 87°35′25″, 0.1 mi west of center	–	–	–	–	–	–
		of sec.14, T.35 N., R.14 E., Cook County.	–	–	–	–	–	–
151	*05536255	Butterfield Creek at Flossmoor, Ill.	591	982	1,250	1,600	1,860	2,120
		Lat 41°32′25″, long 87°38′55″, in NE¼NW¼ sec.8,	–	–	–	–	–	–
		T.35 N., R.14 E., Cook County.	–	–	–	–	–	–
152	*05536265	Lansing ditch near Lansing, Ill.	205	350	452	583	681	777
		Lat 41°31′40″, long 87°31′45″, at north boundary of	–	–	–	–	–	–
		sec.17, T.35 N., R.15 E., Cook County.	–	–	–	–	–	–

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second—Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
153	*05536270	North Creek near Lansing, Ill.	358	518	618	737	821	900
		Lat 41°32′45″, long 87°33′30″, in SE¼SE¼ sec.1,	—	—	—	—	—	—
		T.35 N., R.14 E., Cook County.	—	—	—	—	—	—
154	*05536275	Thorn Creek at Thornton, Ill.	2,000	2,950	3,560	4,290	4,800	5,300
		Lat 41°34′05″, long 87°36′30″, near center of N½	—	—	—	—	—	—
		sec.34, T.36 N., R.14 E., Cook County.	—	—	—	—	—	—
155	*05536290	Little Calumet River at South Holland, Ill.	2,400	3,290	3,830	4,460	4,890	5,290
		Lat 41°36′05″, long 87°34′38″, in SW¼SW¼ sec.13,	—	—	—	—	—	—
		T.36 N., R.14 E., Cook County.	—	—	—	—	—	—
156	*05536325	Little Calumet River at Harvey, Ill.	1,990	2,970	3,600	4,360	4,900	5,410
		Lat 41°37′35″, long 87°38′05″, in NW¼ sec.9, T.36	—	—	—	—	—	—
		N., R.14 E., Cook County.	—	—	—	—	—	—
157	*05536340	Midlothian Creek at Oak Forest, Ill.	272	375	436	508	557	603
		Lat 41°36′51″, long 87°43′46″, in SE¼NW¼ sec.15,	—	—	—	—	—	—
		T.36 N., R.13 E., Cook County.	—	—	—	—	—	—
158	*05536500	Tinley Creek near Palos Park, Ill.	480	728	888	1,080	1,220	1,350
		Lat 41°38′48″, long 87°45′59″, in SW¼SE¼ sec.32,	—	—	—	—	—	—
		T.37 N., R.13 E., Cook County.	—	—	—	—	—	—
159	05537500	Long Run near Lemont, Ill.	611	1,090	1,440	1,900	2,250	2,600
		Lat 41°38′33″, long 87°59′57″, in SW¼SE¼ sec.32,	479	812	1,050	1,340	1,580	1,800
		T.37 N., R.11 E., Cook County.	591	1,050	1,370	1,780	2,100	2,400
160	*05538000	Des Plaines River at Joliet, Ill.	15,500	18,100	19,600	21,100	22,000	22,900
		Lat 41°31′54″, long 88°05′05″, in SE¼NE¼ sec.9,	—	—	—	—	—	—
		T.35 N., R.10 E., Will County.	—	—	—	—	—	—
161	05539000	Hickory Creek at Joliet, Ill.	2,900	4,850	6,230	8,010	9,350	10,700
		Lat 41°31′10″, long 88°04′10″, in SW¼NE¼ sec.15,	1,670	2,810	3,610	4,600	5,390	6,150
		T.35 N., R.10 E., Will County.	2,740	4,580	5,810	7,370	8,610	9,730

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second—Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
162	*05539870	West Branch Du Page River at Ontarioville, Ill.	324	476	572	687	768	845
		Lat 41°58′42″, long 88°07′59″, in NW¼SE¼ sec.6,	—	—	—	—	—	—
		T.40 N., R.10 E., Du Page County.	—	—	—	—	—	—
163	*05539900	West Branch Du Page River near West Chicago, Ill.	455	681	826	1,000	1,130	1,240
		Lat 41°54′39″, long 88°10′44″, in SE¼NW¼ sec.35,	—	—	—	—	—	—
		T.40 N., R.9 E., Du Page County.	—	—	—	—	—	—
164	05539950	Klein Creek at Carol Stream, Ill.	154	241	298	369	421	470
		Lat 41°54′24″, long 88°08′32″, in NE¼SW¼ sec.31,	132	224	290	371	435	497
		T.40 N., R.10 E., Du Page County.	149	237	296	370	425	478
165	*05540080	Spring Brook at Wheaton, Ill.	168	232	271	316	347	375
		Lat 41°51′02″, long 88°06′53″, in NE¼SE¼ sec.20,	—	—	—	—	—	—
		T.39 N., R.10 E., Du Page County.	—	—	—	—	—	—
166	05540140	East Branch Du Page River near Bloomingdale, Ill.	70	135	186	255	309	364
		Lat 41°56′06″, long 88°03′29″, in SW¼SE¼ sec.23,	111	196	257	335	397	457
		T.40 N., R.10 E., Du Page County.	77	146	202	276	332	391
167	*05540190	St. Joseph Creek at Belmont, Ill.	367	584	728	908	1,040	1,160
		Lat 41°47′31″, long 88°02′15″, in NW¼SE¼ sec.12,	—	—	—	—	—	—
		T.38 N., R.10 E., Du Page County.	—	—	—	—	—	—
168	05540500	Du Page River at Shorewood, Ill.	3,660	5,690	7,050	8,770	10,000	11,300
		Lat 41°31′20″, long 88°11′35″, in SE¼SW¼ sec.10,	1,820	3,000	3,840	4,850	5,650	6.420
		T.35 N., R.9 E., Will County.	3,410	5,330	6,530	8,040	9,200	10,300
169	05541750	Mazon River tributary near Gardner, Ill.	94	162	211	273	320	366
		Lat 41°09′36″, long 88°20′35″, in SE¼ sec.18, T.31	171	292	378	485	570	652
		N., R.8 E., Grundy County.	105	181	241	317	372	433
170	05542000	Mazon River near Coal City, Ill.	7,530	13,000	16,700	21,400	24,700	28,000
		Lat 41°17′10″, long 88°21′35″, in SW¼SW¼ sec.31,	5,050	8,290	10,600	13,400	15,600	17,700
		T.33 N., R.8 E., Grundy County.	7,240	12,400	15,800	20,000	23,100	26,000

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second——Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
171	*05543500	Illinois River at Marseilles, Ill.	41,900	58,800	68,900	80,300	88,000	95,000
		Lat 41°19′40″, long 88°43′10″, in SE¼SW¼ sec.13,	–	–	–	–	–	–
		T.33 N., R.4 E., La Salle County.	–	–	–	–	–	–
172	05546500	Fox River at Wilmot, Wis.	2,710	3,960	4,760	5,730	6,420	7,090
		Lat 42°30′40″, long 88°10′45″, in SW¼ sec.30, T.1 N.,	1,470	2,350	2,960	3,670	4,240	4,780
		R.20 E., Kenosha County.	2,550	3,760	4,490	5,380	6,050	6,650
173	05548150	North Branch Nippersink Creek tributary near Genoa	196	252	284	320	345	367
		City, Wis.	289	499	649	838	988	1,130
		Lat 42°30′15″, long 88°23′01″, in E½ sec.32, T.1 N.,	215	296	357	434	481	544
		R.18 E., Walworth County.						
174	*05548280	Nippersink Creek near Spring Grove, Ill.	1,510	2,850	3,860	5,220	6,280	7,350
		Lat 42°26′37″, long 88°14′51″, in NE¼NW¼ sec.25,	–	–	–	–	–	–
		T.46 N., R.8 E., McHenry County.	–	–	–	–	–	–
175	*05549000	Boone Creek near McHenry, Ill.	128	201	250	310	353	396
		Lat 42°19′15″, long 88°18′45″, in NW¼SW¼ sec.4,	–	–	–	–	–	–
		T.44 N., R.8 E., McHenry County.	–	–	–	–	–	–
176	*05549850	Flint Creek near Fox River Grove, Ill.	256	317	352	390	415	438
		Lat 42°12′40″, long 88°10′23″, in NW¼ sec.15, T.43	–	–	–	–	–	–
		N., R.9 E., Lake County.	–	–	–	–	–	–
177	05549900	Fox River tributary near Cary, Ill.	13	27	38	52	64	75
		Lat 42°11′48″, long 88°15′54″, in NW¼NE¼ sec.23,	12	22	30	40	48	56
		T.43 N., R.8 E., McHenry County.	13	26	36	49	60	70
178	*05550000	Fox River at Algonquin, Ill.	3,140	4,430	5,200	6,090	6,690	7,240
		Lat 42°09′59″, long 88°17′25″, in NE¼NW¼ sec.34,	–	–	–	–	–	–
		T.43 N., R.8 E., McHenry County.	–	–	–	–	–	–
179	05550450	Poplar Creek near Ontarioville, Ill.	157	274	358	466	548	630
		Lat 42°02′48″, long 88°09′20″, in NE¼NW¼ sec.13,	291	499	648	834	981	1,120
		T.41 N., R.9 E., Cook County.	179	311	415	550	647	757

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second—Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
180	05550500	Poplar Creek at Elgin, Ill.	351	490	574	673	741	805
		Lat 42°01′35″, long 88°15′20″, in SE¼NW¼ sec.19,	458	776	1,000	1,280	1,510	1,720
		T.41 N., R.9 E., Cook County.	365	523	632	765	854	956
181	05551200	Ferson Creek near St. Charles, Ill.	829	1,360	1,720	2,170	2,500	2,830
		Lat 41°56′00″, long 88°20′30″, in NE¼SE¼ sec.20,	737	1,260	1,630	2,090	2,460	2,810
		T.40 N., R.8 E., Kane County.	809	1,340	1,700	2,150	2,490	2,820
182	*05551500	Fox River at Aurora, Ill.	5,110	8,490	10,800	13,800	16,000	18,100
		Lat 41°46′15″, long 88°18′32″, in SW¼SE¼ sec.15,	—	—	—	—	—	—
		T.38 N., R.8 E., Kane County.	—	—	—	—	—	—
183	05551650	Lake Run tributary near Batavia, Ill.	53	121	178	258	323	394
		Lat 41°50′45″, long 88°24′20″, near center of sec.23,	88	156	205	268	317	366
		T.39 N., R.7 E., Kane County.	59	128	184	261	321	385
184	05551700	Blackberry Creek near Yorkville, Ill.	612	941	1,160	1,420	1,600	1,780
		Lat 41°40′18″, long 88°26′29″, in SE¼NW¼ sec.21,	624	1,040	1,340	1,710	1,990	2,270
		T.37 N., R.7 E., Kendall County.	615	961	1,200	1,500	1,700	1,920
185	05551800	Fox River tributary No. 2 near Fox, Ill.	93	185	256	355	433	513
		Lat 41°36′28″, long 88°28′43″, in NE¼SW¼ sec.7,	57	103	138	182	218	253
		T.36 N., R.7 E., Kendall County.	84	164	219	293	356	410
186	*05552500	Fox River at Dayton, Ill.	11,700	18,500	23,100	28,800	33,000	37,100
		Lat 41°23′14″, long 88°47′21″, in SE¼ sec.29, T.34	—	—	—	—	—	—
		N., R.4 E., La Salle County.	—	—	—	—	—	—
187	05554000	North Fork Vermilion River near Charlotte, Ill.	2,140	3,280	4,020	4,930	5,580	6,210
		Lat 40°50′08″, long 88°17′58″, in SE¼SE¼ sec.4,	2,790	4,630	5,940	7,530	8,800	10,000
		T.27 N., R.8 E., Livingston County.	2,200	3,400	4,230	5,260	5,990	6,750
188	05554500	Vermilion River at Pontiac, Ill.	4,680	7,220	8,890	10,900	12,400	13,900
		Lat 40°52′40″, long 88°38′10″, in SW¼ sec.22, T.28	3,890	6,210	7,830	9,740	11,300	12,700
		N., R.5 E., Livingston County.	4,590	7,110	8,750	10,700	12,200	13,700

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second——Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
189	05554600	Mud Creek tributary near Odell, Ill.	57	96	124	159	185	211
		Lat 41°00′50″, long 88°38′36″, in NW¼ sec.3, T.29	43	79	105	140	167	194
		N., R.5 E., Livingston County.	54	93	119	154	180	206
190	05555000	Vermilion River at Streator, Ill.	7,820	12,400	15,400	19,100	21,800	24,500
		Lat 41°05′35″, long 88°50′05″, in SE¼ sec.2, T.30 N.,	6,730	10,700	13,500	16,800	19,500	22,000
		R.3 E., Livingston County.	7,580	12,000	14,900	18,400	21,100	23,700
191	05555300	Vermilion River near Leonore, Ill.	10,800	17,800	22,600	28,800	33,300	37,800
		Lat 41°12′30″, long 88°55′51″, in SW¼SW¼ sec.30,	7,800	12,400	15,700	19,500	22,600	25,500
		T.32 N., R.3 E., La Salle County.	10,500	17,300	21,800	27,500	31,800	35,800
192	05555400	Vermilion River tributary at Lowell, Ill.	31	69	102	150	190	233
		Lat 41°14′30″, long 89°00′35″, in SE¼ sec.17, T.32	36	65	87	115	137	159
		N., R.2 E., La Salle County.	32	68	99	141	176	211
193	05555775	Vermilion Creek tributary at Meriden, Ill.	42	75	98	129	152	176
		Lat 41°34′08″, long 89°01′28″, on line between secs.	26	47	62	81	96	111
		20 and 29, T.36 N., R.2 E., La Salle County.	38	67	86	111	131	150
194	05556500	Big Bureau Creek at Princeton, Ill.	4,180	7,280	9,430	12,100	14,100	16,000
		Lat 41°21′55″, long 89°29′55″, in SW¼SE¼ sec.18,	3,700	6,150	7,900	10,000	11,700	13,400
		T.16 N., R.9 E., Bureau County.	4,130	7,170	9,240	11,800	13,800	15,600
195	05557000	West Bureau Creek at Wyanet, Ill	2,790	5,100	6,840	9,200	11,100	13,000
		Lat 41°21′54″, long 89°34′08″, in northeast corner of	2,370	3,980	5,140	6,570	7,710	8,800
		sec.21, T.16 N., R.8 E., Bureau County.	2,750	4,980	6,620	8,800	10,600	12,300
196	05557100	West Bureau Creek tributary near Wyanet, Ill.	83	156	210	282	338	394
		Lat 41°18′40″, long 89°35′20″, in SE¼ sec.5, T.15 N.,	95	174	232	308	369	429
		R.8 E., Bureau County.	85	159	214	288	345	403
197	05557500	East Bureau Creek near Bureau, Ill.	2,360	3,940	5,010	6,370	7,370	8,340
		Lat 41°20′06″, long 89°22′53″, in NW¼NE¼ sec.31,	3,080	5,210	6,740	8,640	10,200	11,600
		T.16 N., R.10 E., Bureau County.	2,420	4,050	5,190	6,640	7,700	8,780

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second—Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
198	05558000	Big Bureau Creek at Bureau, Ill.	8,110	11,800	14,100	16,800	18,700	20,500
		Lat 41°16′40″, long 89°23′00″, in SE¼SW¼ sec.18,	7,600	12,600	16,100	20,400	23,800	27,100
		T.15 N., R.10 E., Bureau County.	7,970	12,000	14,700	18,000	20,400	22,900
199	05558050	Coffee Creek tributary near Florid, Ill.	24	44	58	78	93	108
		Lat 41°14′25″, long 89°18′00″, in SE¼ sec.14, T.32	22	42	56	76	92	107
		N., R.2 W., Putnam County.	24	44	58	78	93	108
200	05558075	Coffee Creek tributary near Hennepin, Ill.	62	124	172	239	292	346
		Lat 41°14′35″, long 89°18′25″, near center of sec.14,	82	152	203	271	326	379
		T.32 N., R.2 W., Putnam County.	65	128	178	246	300	354
201	05558500	Crow Creek (West) near Henry, Ill.	1,820	3,010	3,830	4,870	5,640	6,400
		Lat 41°09′00″, long 89°25′00″, in SW¼SE¼ sec.36,	1,790	3,030	3,920	5,020	5,900	6,750
		T.14 N., R.9 E., Putnam County.	1,820	3,010	3,840	4,900	5,690	6,470
202	05559000	Gimlet Creek at Sparland, Ill.	809	1,290	1,610	2,000	2,290	2,570
		Lat 41°01′35″, long 89°26′20″, in SE¼NW¼ sec.14,	583	1,040	1,370	1,790	2,130	2,460
		T.12 N., R.9 E., Marshall County.	777	1,260	1,570	1,960	2,260	2,550
203	05559500	Crow Creek near Washburn, Ill.	2,240	3,390	4,130	5,030	5,670	6,290
		Lat 40°57′15″, long 89°18′30″, in SW¼ sec.23, T.29	1,870	3,130	4,020	5,110	5,980	6,810
		N., R.2 W., Marshall County.	2,190	3,360	4,110	5,040	5,720	6,380
204	*05560000	Illinois River at Peoria, Ill.	37,500	49,000	55,600	63,000	67,900	72,400
		Lat 40°42′08″, long 89°33′52″, in NW¼ sec.2, T.8 N.,	—	—	—	—	—	—
		R.8 E., Peoria County.	—	—	—	—	—	—
205	*05560500	Farm Creek at Farmdale, Ill.	567	684	748	818	864	906
		Lat 40°40′00″, long 89°30′15″, in NE¼SE¼ sec.36,	—	—	—	—	—	—
		T.26 N., R.4 W., Tazewell County.	—	—	—	—	—	—
206	05561000	Ackerman Creek at Farmdale, Ill.	556	1,120	1,560	2,170	2,650	3,150
		Lat 40°39′43″, long 89°30′13″, in SE¼SE¼ sec.36,	979	1,720	2,260	2,950	3,500	4,030
		T.26 N., R.4 W., Tazewell County.	607	1,200	1,670	2,320	2,810	3,340

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second——Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
207	*05561500	Fondulac Creek near East Peoria, Ill.	291	388	445	511	555	597
		Lat 40°40′38″, long 89°31′52″, on line between SW¼	–	–	–	–	–	–
		and SE¼ sec.26, T.26 N., R.4 W., Tazewell County.	–	–	–	–	–	–
208	*05562000	Farm Creek at East Peoria, Ill.	3,420	6,670	9,220	12,800	15,600	18,500
		Lat 40°40′04″, long 89°34′40″, in SW¼NW¼ sec.33,	–	–	–	–	–	–
		T.26 N., R.4 W., Tazewell County.	–	–	–	–	–	–
209	05563000	Kickapoo Creek near Kickapoo, Ill.	6,720	12,200	16,200	21,700	25,800	30,100
		Lat 40°48′00″, long 89°48′00″, in SW¼SE¼ sec.34,	4,380	7,380	9,540	12,200	14,300	16,400
		T.10 N., R.6 E., Peoria County.	6,400	11,500	15,100	19,800	23,400	26,900
210	05563100	Kickapoo Creek tributary near Kickapoo, Ill.	29	57	80	110	135	160
		Lat 40°47′40″, long 89°46′30″, in NW¼ sec.1, T.9 N.,	34	62	83	110	132	154
		R.6 E., Peoria County.	30	58	81	110	134	158
211	05563500	Kickapoo Creek at Peoria, Ill.	7,410	12,400	16,000	20,700	24,200	27,700
		Lat 40°40′52″, long 89°39′19″, in NE¼NW¼ sec.13,	7,470	12,400	16,000	20,300	23,800	27,100
		T.8 N., R.7 E., Peoria County.	7,420	12,400	16,000	20,600	24,100	27,600
212	05564400	Money Creek near Towanda, Ill.	761	1,120	1,340	1,610	1,790	1,970
		Lat 40°36′19″, long 88°53′56″, in SW¼SW¼ sec.20,	1,050	1,760	2,260	2,880	3,370	3,840
		T.25 N., R.3 E., McLean County.	807	1,220	1,500	1,860	2,100	2,370
213	05564500	Money Creek above Lake Bloomington, Ill.	942	1,650	2,150	2,800	3,290	3,780
		Lat 40°37′13″, long 88°54′59″, in SE¼SW¼ sec.18,	932	1,560	2,000	2,540	2,980	3,390
		T.25 N., R.3 E., McLean County.	941	1,640	2,120	2,750	3,230	3,690
214	05565000	Hickory Creek above Lake Bloomington, Ill.	483	1,030	1,480	2,120	2,640	3,190
		Lat 40°38′15″, long 88°57′00″, in SW¼SE¼ sec.11,	379	652	848	1,090	1,290	1,470
		T.25 N., R.2 E., McLean County.	464	954	1,320	1,820	2,240	2,610
215	05566000	East Branch Panther Creek near Gridley, Ill.	173	340	468	645	784	926
		Lat 40°46′00″, long 88°54′35″, between secs.29 and	261	450	585	754	889	1,020
		30, T.27 N., R.3 E., Livingston County.	184	354	487	666	805	947

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second——Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
216	05566500	East Branch Panther Creek at El Paso, Ill.	537	922	1,190	1,550	1,810	2,080
		Lat 40°45′15″, long 89°00′20″, on line between secs.	585	979	1,260	1,600	1,870	2,130
		32 and 33, T.27 N., R.2 E., Woodford County.	543	929	1,200	1,560	1,820	2,090
217	05567000	Panther Creek near El Paso, Ill.	1,900	3,210	4,120	5,280	6,140	6,990
		Lat 40°46′05″, long 89°04′30″, in center of sec.26,	1,350	2,240	2,880	3,640	4,260	4,840
		T.27 N., R.1 E., Woodford County.	1,820	3,060	3,890	4,920	5,730	6,470
218	05567500	Mackinaw River near Congerville, Ill.	8,020	12,800	16,100	20,300	23,300	26,400
		Lat 40°37′25″, long 89°14′30″, in NE¼SW¼ sec.17,	5,170	8,350	10,600	13,300	15,400	17,400
		T.25 N., R.1 W., Woodford County.	7,630	12,200	15,200	19,000	21,800	24,400
219	05567800	Indian Creek tributary near Hopedale, Ill.	179	350	482	664	807	953
		Lat 40°24′35″, long 89°27′45″, in NW¼NE¼ sec.32,	131	234	308	403	480	553
		T.23 N., R.3 W., Tazewell County.	166	316	423	562	679	780
220	05568000	Mackinaw River near Green Valley, Ill.	7,520	12,700	16,700	22,400	27,100	32,100
		Lat 40°26′43″, long 89°39′10″, in SE¼NW¼ sec.15,	8,230	13,300	16,900	21,100	24,500	27,700
		T.23 N., R.5 W., Tazewell County.	7,570	12,700	16,700	22,300	26,800	31,600
221	*05568500	Illinois River at Kingston Mines, Ill.	43,400	58,200	67,000	77,100	84,000	90,400
		Lat 40°33′10″, long 89°46′40″, in SE¼SE¼ sec.26,	—	—	—	—	—	—
		T.7 N., R.6 E., Peoria County.	—	—	—	—	—	—
222	*05568650	Duck Creek near Canton, Ill.	69	104	126	153	172	190
		Lat 40°32′45″, long 89°59′35″, in E½ sec.36, T.7 N.,	—	—	—	—	—	—
		R.4 E., Fulton County.	—	—	—	—	—	—
223	05568800	Indian Creek near Wyoming, Ill.	1,470	2,380	3,010	3,790	4,350	4,910
		Lat 41°01′06″, long 89°50′07″, in SE¼SE¼ sec.17,	1,400	2,350	3,030	3,850	4,520	5,150
		T.12 N., R.6 E., Stark County.	1,460	2,370	3,010	3,810	4,400	4,980
224	05568850	Forman Creek tributary near Victoria, Ill.	99	209	297	416	512	613
		Lat 41°02′30″, long 90°09′20″, in SW¼NW¼ sec.10,	147	262	345	453	539	623
		T.12 N., R.3 E., Knox County.	108	219	308	426	520	616

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second——Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
225	05569500	Spoon River at London Mills, Ill.	11,100	18,100	23,000	29,400	34,200	39,100
		Lat 40°42′51″, long 90°16′00″, in NW¼NE¼ sec.3,	8,810	14,200	18,000	22,500	26,200	29,600
		T.8 N., R.2 E., Fulton County.	10,800	17,600	22,300	28,200	32,800	37,200
226	05569825	Cedar Creek tributary at St. Augustine, Ill.	410	746	993	1,320	1,570	1,820
		Lat 40°43′20″, long 90°24′40″, in E½ sec.32, T.9 N.,	354	621	814	1,060	1,260	1,450
		R.1 E., Knox County.	400	724	954	1,250	1,490	1,720
227	05570000	Spoon River at Seville, Ill.	12,100	18,600	23,100	28,900	33,200	37,500
		Lat 40°29′24″, long 90°20′26″, in NW¼ sec.24, T.6	11,600	18,500	23,400	29,200	33,900	38,300
		N., R.1 E., Fulton County.	12,100	18,600	23,100	28,900	33,300	37,600
228	05571000	Sangamon River at Mahomet, Ill.	4,270	7,300	9,430	12,200	14,200	16,300
		Lat 40°11′30″, long 88°24′00″, in NE¼SW¼ sec.15,	3,570	5,850	7,470	9,410	11,000	12,500
		T.20 N., R.7 E., Champaign County.	4,180	7,100	9,100	11,700	13,600	15,500
229	05572000	Sangamon River at Monticello, Ill.	5,190	8,910	11,600	15,000	17,600	20,200
		Lat 40°01′51″, long 88°35′20″, in SW¼ sec.12, T.18	4,370	7,090	9,030	11,300	13,200	14,900
		N., R.5 E., Piatt County.	5,140	8,800	11,400	14,700	17,200	19,600
230	05572100	Wildcat Creek tributary near Monticello, Ill.	30	51	66	84	98	112
		Lat 40°01′37″, long 88°38′24″, in SW¼SE¼ sec.9,	21	37	49	65	78	90
		T.18 N., R.5 E., Piatt County.	28	48	62	79	93	106
231	05572500	Sangamon River near Oakley, Ill.	5,900	9,400	11,700	14,600	16,800	18,800
		Lat 39°55′09″, long 88°48′09″, in SE¼NE¼ sec.24,	5,980	9,660	12,300	15,300	17,800	20,200
		T.17 N., R.3 E., Macon County.	5,910	9,440	11,800	14,700	17,000	19,100
232	05574000	South Fork Sangamon River near Nokomis, Ill.	1,110	2,130	2,910	3,970	4,800	5,640
		Lat 39°21′12″, long 89°15′05″, in NE¼SE¼ sec.36,	760	1,320	1,720	2,220	2,630	3,020
		T.11 N., R.2 W., Christian County.	1,050	1,990	2,670	3,550	4,270	4,920
233	05574500	Flat Branch near Taylorville, Ill.	3,750	6,880	9,180	12,200	14,600	16,900
		Lat 39°33′14″, long 89°15′12″, in SE¼SE¼ sec.24,	2,920	4,750	6,030	7,560	8,790	9,950
		T.13 N., R.2 W., Christian County.	3,630	6,550	8,580	11,200	13,300	15,100

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second——Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
234	05575500	South Fork Sangamon River at Kincaid, Ill.	4,610	8,220	10,900	14,500	17,400	20,200
		Lat 39°34′44″, long 89°23′31″, in SW¼NE¼ sec.14,	5,680	9,170	11,600	14,600	16,900	19,100
		T.13 N., R.3 W., Christian County.	4,680	8,280	11,000	14,500	17,300	20,100
235	05576000	South Fork Sangamon River near Rochester, Ill.	5,120	9,130	12,000	15,800	18,700	21,600
		Lat 39°44′32″, long 89°34′02″, in NE¼NW¼ sec.20,	6,530	10,400	13,200	16,400	19,000	21,400
		T.15 N., R.4 W., Sangamon County.	5,290	9,290	12,200	15,900	18,800	21,600
236	05576500	Sangamon River at Riverton, Ill.	14,900	24,900	30,900	37,600	41,900	45,600
		Lat 39°50′34″, long 89°32′52″, in NE¼ sec.16, T.16	14,500	23,100	29,100	36,100	41,900	47,200
		N., R.4 W., Sangamon County.	14,900	24,800	30,800	37,500	41,900	45,800
237	05577500	Spring Creek at Springfield, Ill.	1,560	3,130	4,370	6,080	7,440	8,840
		Lat 39°48′57″, long 89°41′57″, in NW¼NE¼ sec.30,	2,480	4,130	5,310	6,740	7,890	8,980
		T.16 N., R.5 W., Sangamon County.	1,650	3,240	4,500	6,190	7,520	8,870
238	*05577520	Spring Creek tributary at Springfield, Ill.	324	397	438	482	512	538
		Lat 39°50′04″, long 89°37′14″, in SW¼SE¼ sec.14,	—	—	—	—	—	—
		T.16 N., R.5 W., Sangamon County.	—	—	—	—	—	—
239	05577700	Sangamon River tributary at Andrew, Ill.	221	381	494	640	750	858
		Lat 39°53′45″, long 89°38′50″, near center of sec.27,	231	411	542	711	847	978
		T.17 N., R.5 W., Sangamon County.	223	386	503	656	771	888
240	05578500	Salt Creek near Rowell, Ill.	3,860	7,520	10,400	14,500	17,700	21,200
		Lat 40°06′54″, long 89°02′57″, in NE¼SE¼ sec.11,	3,360	5,480	6,980	8,760	10,200	11,600
		T.19 N., R.1 E., De Witt County.	3,810	7,300	9,930	13,500	16,400	19,300
241	05579500	Lake Fork near Cornland, Ill.	2,030	4,170	5,880	8,300	10,200	12,300
		Lat 39°57′00″, long 89°23′10″, in SW¼ sec.1, T.17	3,550	5,860	7,510	9,500	11,100	12,600
		N., R.3 W., Logan County.	2,180	4,350	6,100	8,500	10,400	12,400
242	05579750	Kickapoo Creek tributary at Heyworth, Ill.	433	743	960	1,240	1,450	1,660
		Lat 40°19′05″, long 88°58′55″, in NW¼SW¼ sec.34,	237	416	544	708	839	965
		T.22 N., R.2 E., McLean County.	388	669	848	1,080	1,260	1,430

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second——Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
243	05580000	Kickapoo Creek at Waynesville, Ill.	3,850	6,540	8,440	10,900	12,700	14,600
		Lat 40°15′20″, long 89°07′40″, on line between secs.	3,740	6,220	7,980	10,100	11,900	13,500
		19 and 20, T.21 N., R.1 E., De Witt County.	3,840	6,500	8,370	10,800	12,600	14,400
244	05580500	Kickapoo Creek near Lincoln, Ill.	4,190	7,050	9,050	11,600	13,600	15,500
		Lat 40°11′30″, long 89°21′40″, in NE¼NW¼ sec.18,	4,900	8,090	10,400	13,100	15,300	17,400
		T.20 N., R.2 W., Logan County.	4,270	7,160	9,230	11,800	13,900	15,800
245	*05580700	Salt Creek tributary at Middletown, Ill.	122	371	633	1,080	1,480	1,960
		Lat 40°06′00″, long 89°34′55″, in E½ sec.18, T.19	—	—	—	—	—	—
		N., R.4 W., Logan County.	—	—	—	—	—	—
246	05581500	Sugar Creek near Hartsburg, Ill.	4,610	7,510	9,510	12,100	14,000	15,900
		Lat 40°13′20″, long 89°24′12″, in SE¼SW¼ sec.35,	5,530	9,140	11,700	14,800	17,400	19,700
		T.21 N., R.3 W., Logan County.	4,710	7,680	9,790	12,500	14,500	16,500
247	05582000	Salt Creek near Greenview, Ill.	11,900	20,000	25,600	32,900	38,300	43,700
		Lat 40°08′01″, long 89°44′08″, in NE¼NE¼ sec.2,	13,100	21,100	26,700	33,400	38,700	43,800
		T.19 N., R.6 W., Mason County.	12,000	20,100	25,700	33,000	38,400	43,700
248	05582200	Cabiness Creek tributary near Petersburg, Ill.	141	294	417	591	731	876
		Lat 40°02′00″, long 89°46′35″, in NE¼ sec.9, T.18	126	222	292	382	454	523
		N., R.6 W., Menard County.	138	281	388	534	655	766
249	05582500	Crane Creek near Easton, Ill.	189	343	455	604	717	832
		Lat 40°14′46″, long 89°51′40″, in NE¼NW¼ sec.26,	549	906	1,160	1,460	1,710	1,940
		T.21 N., R.7 W., Mason County.	218	390	529	713	844	996
250	05583000	Sangamon River near Oakford, Ill.	21,000	36,800	47,900	62,100	72,600	82,900
		Lat 40°07′25″, long 89°59′05″, in NW¼SE¼ sec.3,	22,700	35,700	45,000	55,600	64,300	72,400
		T.19 N., R.8 W., Mason County.	21,100	36,700	47,700	61,500	71,800	81,700
251	05584400	Drowning Fork at Bushnell, Ill.	604	1,040	1,360	1,760	2,060	2,360
		Lat 40°33′45″, long 90°31′23″, in NE¼SE¼ sec.29,	862	1,450	1,870	2,380	2,800	3,190
		T.7 N., R.1 W., McDonough County.	651	1,120	1,470	1,920	2,250	2,600

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second——Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
252	05584450	Wigwam Hollow Creek near Macomb, Ill.	218	357	451	570	656	742
		Lat 40°29′05″, long 90°42′25″, in SE¼SW¼ sec.23,	167	303	404	536	642	745
		T.6 N., R.3 W., McDonough County.	206	345	439	560	652	743
253	05584500	La Moine River at Colmar, Ill.	7,810	13,800	18,100	23,700	28,000	32,300
		Lat 40°19′45″, long 90°53′55″, in SE¼SW¼ sec.18,	8,500	13,900	17,700	22,200	25,900	29,400
		T.4 N., R.4 W., McDonough County.	7,890	13,800	18,000	23,400	27,600	31,700
254	*05584950	West Creek at Mount Sterling, Ill.	236	371	459	569	648	724
		Lat 39°59′45″, long 90°46′05″, near center of sec.8,	—	—	—	—	—	—
		T.1 S., R.3 W., Brown County.	—	—	—	—	—	—
255	05585000	La Moine River at Ripley, Ill.	8,290	12,900	15,800	19,500	22,100	24,500
		Lat 40°01′31″, long 90°37′55″, in NE¼ sec.33, T.1 N.,	10,400	16,700	21,200	26,400	30,600	34,600
		R.2 W., Brown County.	8,420	13,100	16,200	20,100	22,800	25,500
256	05585220	Indian Creek tributary near Sinclair, Ill.	390	792	1,110	1,560	1,910	2,280
		Lat 39°48′42″, long 90°06′15″, in NW¼ sec.27, T.16	494	868	1,140	1,480	1,760	2,030
		N., R.9 W., Morgan County.	406	804	1,120	1,540	1,870	2,210
257	*05585500	Illinois River at Meredosia, Ill.	59,000	81,500	94,700	110,000	119,000	128,000
		Lat 39°49′24″, long 90°34′05″, in SE¼ sec.21, T.16	—	—	—	—	—	—
		N., R.13 W., Morgan County.	—	—	—	—	—	—
258	05585700	Dry Fork tributary near Mount Sterling, Ill.	34	61	81	108	128	148
		Lat 39°57′46″, long 90°45′35″, in SW¼ sec.21, T.1 S.,	42	77	102	135	161	187
		R.3 W., Brown County.	35	63	85	114	135	157
259	05586000	North Fork Mauvaise Terre Creek near Jacksonville, Ill.	816	1,790	2,610	3,790	4,760	5,780
		Lat 39°45′38″, long 90°08′07″, in SE¼NW¼ sec.8,	1,500	2,550	3,290	4,220	4,960	5,670
		T.15 N., R.9 W., Morgan County.	885	1,880	2,710	3,870	4,800	5,760
260	05586200	Illinois River tributary at Florence, Ill.	309	547	718	941	1,110	1,280
		Lat 39°37′55″, long 90°37′05″, in NE¼NW¼ sec.15,	242	445	595	793	951	1,110
		T.5 S., R.2 W., Pike County.	297	529	692	905	1,070	1,230

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second—Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
261	05586350	Little Sandy Creek tributary near Murrayville, Ill.	404	791	1,090	1,500	1,820	2,150
		Lat 39°36′05″, long 90°17′45″, in NW¼ sec.2, T.13	443	792	1,050	1,380	1,640	1,900
		N., R.11 W., Morgan County.	413	791	1,080	1,460	1,760	2,050
262	05586500	Hurricane Creek near Roodhouse, Ill.	190	383	535	746	914	1,090
		Lat 39°29′20″, long 90°25′00″, in NE¼ sec.15, T.12	366	644	846	1,100	1,310	1,510
		N., R.12 W., Greene County.	208	411	577	804	980	1,170
263	05586800	Otter Creek near Palmyra, Ill.	2,450	5,080	7,190	10,200	12,500	15,000
		Lat 39°22′42″, long 89°56′50″, in SE¼ sec.23, T.11	2,960	5,020	6,500	8,330	9,800	11,200
		N., R.8 W., Macoupin County.	2,540	5,070	7,020	9,650	11,700	13,700
264	05586850	Bear Creek tributary near Reeders, Ill.	14	21	25	31	34	38
		Lat 39°17′40″, long 90°01′05″, in SE¼ sec.19, T.10	14	27	36	48	57	66
		N., R.8 W., Macoupin County.	14	22	27	34	38	44
265	05587000	Macoupin Creek near Kane, Ill.	9,080	17,200	23,200	31,200	37,200	43,200
		Lat 39°14′03″, long 90°23′40″, in SE¼SE¼ sec.11,	12,300	19,800	25,100	31,400	36,500	41,300
		T.9 N., R.12 W., Greene County.	9,290	17,400	23,400	31,200	37,100	43,000
266	05587850	Cahokia Creek tributary No. 2 near Carpenter, Ill.	174	288	366	465	538	609
		Lat 38°52′40″, long 89°54′30″, in SE¼SE¼ sec.18,	134	241	319	420	501	580
		T.5 N., R.7 W., Madison County.	167	280	356	454	529	601
267	05588000	Indian Creek at Wanda, Ill.	1,910	3,630	4,950	6,780	8,230	9,740
		Lat 38°50′30″, long 90°01′59″, in SE¼NW¼ sec.31,	2,040	3,440	4,440	5,680	6,680	7,630
		T.5 N., R.8 W., Madison County.	1,920	3,610	4,880	6,610	7,980	9,350
268	05589500	Canteen Creek at Caseyville, Ill.	2,000	3,580	4,740	6,300	7,490	8,710
		Lat 38°38′35″, long 90°01′00″, in N½NW¼ sec.8, T.2	1,630	2,790	3,620	4,650	5,480	6,270
		N., R.8 W., St. Clair County.	1,960	3,490	4,590	6,040	7,170	8,270
269	*05589780	Little Canteen Creek tributary near Collinsville, Ill.	176	380	548	791	988	1,200
		Lat 38°37′38″, long 89°59′04″, in NW¼NW¼ sec.15,	—	—	—	—	—	—
		T.2 N., R.8 W., St. Clair County.	—	—	—	—	—	—

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second—Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
270	05590000	Kaskaskia Ditch at Bondville, Ill.	373	648	846	1,110	1,300	1,500
		Lat 40°06′47″, long 88°20′55″, in NW¼NW¼ sec.18,	705	1,220	1,590	2,050	2,420	2,780
		T.19 N., R.8 E., Champaign County.	402	698	926	1,230	1,440	1,690
271	05590400	Kaskaskia River near Pesotum, Ill.	1,690	2,450	2,930	3,500	3,890	4,270
		Lat 39°52′44″, long 88°22′35″, on north boundary of	1,790	2,940	3,750	4,730	5,510	6,250
		sec.2, T.16 N., R.7 E., Douglas County.	1,720	2,570	3,160	3,890	4,400	4,950
272	05590500	Kaskaskia River at Ficklin, Ill.	1,970	3,230	4,090	5,170	5,960	6,740
		Lat 39°48′00″, long 88°21′55″, in SW¼NW¼ sec.36,	1,910	3,130	3,990	5,010	5,840	6,620
		T.16 N., R.7 E., Douglas County.	1,950	3,200	4,060	5,110	5,920	6,690
273	05591500	Asa Creek at Sullivan, Ill.	293	600	844	1,190	1,460	1,740
		Lat 39°37′11″, long 88°36′17″, in NE¼NE¼ sec.35,	384	650	840	1,070	1,260	1,440
		T.14 N., R.5 E., Moultrie County.	304	607	843	1,170	1,420	1,670
274	05591750	Stringtown Branch tributary near Lake City, Ill.	48	79	101	128	149	169
		Lat 39°46′15″, long 88°43′10″, in SE¼ sec.2, T.15 N.,	79	140	183	239	284	327
		R.4 E., Moultrie County.	53	89	117	153	179	208
275	05592000	Kaskaskia River at Shelbyville, Ill.	9,040	16,800	22,500	29,800	35,300	40,800
		Lat 39°24′25″, long 88°46′50″, in SE¼SW¼ sec.8,	8,110	13,000	16,400	20,400	23,600	26,600
		T.11 N., R.4 E., Shelby County.	8,940	16,400	21,600	28,200	33,200	37,900
276	05592025	Mud Creek tributary near Tower Hill, Ill.	123	215	280	366	430	493
		Lat 39°25′55″, long 88°57′20″, in NE¼ sec.3, T.11	70	128	170	225	269	313
		N., R.2 E., Shelby County.	112	197	253	327	386	438
277	05592300	Wolf Creek near Beecher City, Ill.	3,320	5,600	7,180	9,190	10,700	12,200
		Lat 39°09′30″, long 88°48′20″, in NE¼NE¼ sec.12,	1,910	3,210	4,130	5,270	6,190	7,060
		T.8 N., R.3 E., Fayette County.	2,990	5,040	6,330	7,950	9,280	10,400
278	05592500	Kaskaskia River at Vandalia, Ill.	13,200	22,900	29,900	38,900	45,800	52,800
		Lat 38°57′35″, long 89°05′20″, in SE¼ sec.16, T.6 N.,	14,500	23,100	29,100	36,100	41,800	47,100
		R.1 E., Fayette County.	13,300	22,900	29,800	38,600	45,400	52,200

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second—Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
279	05592700	Hurricane Creek tributary near Witt, Ill.	70	95	109	126	138	149
		Lat 39°13′00″, long 89°15′15″, in SE¼ sec.13, T.9 N.,	40	72	95	124	148	171
		R.2 W., Montgomery County.	64	91	106	126	140	154
280	05593000	Kaskaskia River at Carlyle, Ill.	13,900	26,100	34,800	46,000	54,300	62,500
		Lat 38°36′42″, long 89°21′22″, in SE¼ sec.18, T.2 N.,	18,200	28,800	36,300	45,000	52,000	58,600
		R.2 W., Clinton County.	14,200	26,300	35,000	45,900	54,000	61,900
281	05593600	Blue Grass Creek near Raymond, Ill.	915	1,550	1,990	2,560	2,970	3,390
		Lat 39°16′07″, long 89°32′02″, in NE¼SE¼ sec.33,	708	1,190	1,530	1,950	2,280	2,600
		T.10 N., R.4 W., Montgomery County.	867	1,470	1,860	2,370	2,750	3,120
282	05593700	Blue Grass Creek tributary near Raymond, Ill.	150	214	254	300	333	364
		Lat 39°16′46″, long 89°33′24″, in SE¼ sec.29, T.10	88	158	209	275	328	379
		N., R.4 W., Montgomery County.	132	199	241	292	331	369
283	05593900	East Fork Shoal Creek near Coffeen, Ill.	2,310	3,670	4,580	5,700	6,510	7,300
		Lat 39°08′56″, long 89°21′08″, in NW¼SE¼ sec.7,	1,970	3,300	4,240	5,400	6,330	7,210
		T.8 N., R.2 W., Montgomery County.	2,220	3,570	4,480	5,600	6,450	7,270
284	05594000	Shoal Creek near Breese, Ill.	9,000	16,700	22,300	29,800	35,500	41,200
		Lat 38°36′35″, long 89°29′40″, in SW¼SW¼ sec.13,	10,800	17,400	22,100	27,700	32,200	36,400
		T.2 N., R.4 W., Clinton County.	9,170	16,800	22,300	29,500	35,000	40,400
285	05594200	Williams Creek near Cordes, Ill.	365	628	813	1,050	1,230	1,410
		Lat 38°19′40″, long 89°28′35″, in NW¼ sec.30, T.2	293	513	672	873	1,030	1,190
		S., R.3 W., Washington County.	350	604	779	1,000	1,170	1,340
286	*05594500	Silver Creek near Lebanon, Ill.	4,060	4,610	4,900	5,200	5,400	5,570
		Lat 38°35′40″, long 89°49′57″, in SW¼NW¼ sec.25,	—	—	—	—	—	—
		T.2 N., R.7 W., St. Clair County.	—	—	—	—	—	—
287	05595000	Kaskaskia River at New Athens, Ill.	23,300	42,100	56,200	75,000	89,700	105,000
		Lat 38°19′45″, long 89°52′45″, in SW¼NE¼ sec.28,	31,500	49,500	62,200	76,900	88,800	100,000
		T.2 S., R.7 W., St. Clair County.	23,900	42,600	56,800	75,200	89,600	104,000

Table 1.–T-year peak discharges at gaging stations, in cubic feet per second––Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
288	05595500	Marys River near Sparta, Ill.	1,520	2,920	4,000	5,480	6,660	7,870
		Lat 38°06′29″, long 89°38′56″, in NE¼SE¼ sec.9,	1,280	2,180	2,830	3,630	4,280	4,900
		T.5 S., R.5 W., Randolph County.	1,480	2,800	3,760	5,030	6,080	7,050
289	05595510	Lick Branch near Eden, Ill.	171	327	448	614	745	881
		Lat 38°05′55″, long 89°37′22″, in NW¼ sec.14, T.5	291	517	682	895	1,060	1,230
		S., R.5 W., Randolph County.	192	362	500	687	828	985
290	*05595550	Marys River tributary at Chester, Ill.	270	385	456	541	601	659
		Lat 37°55′27″, long 89°48′26″, in NE¼NW¼ sec.18,	–	–	–	–	–	–
		T.7 S., R.6 W., Randolph County.	–	–	–	–	–	–
291	05595800	Sevenmile Creek near Mt. Vernon, Ill.	964	1,380	1,640	1,950	2,170	2,370
		Lat 38°19′10″, long 88°50′50″, in NW¼SW¼ sec.26,	1,260	2,160	2,810	3,630	4,280	4,900
		T.2 S., R.3 E., Jefferson County.	1,020	1,520	1,880	2,330	2,630	2,990
292	05596000	Big Muddy River near Benton, Ill.	7,800	14,300	19,200	25,700	30,800	36,000
		Lat 37°59′40″, long 88°58′30″, in NE¼NW¼ sec.22,	5,580	8,990	11,400	14,300	16,600	18,700
		T.6 S., R.2 E., Franklin County.	7,450	13,400	17,600	22,900	27,300	31,200
293	05596100	Andy Creek tributary at Valier, Ill.	256	452	594	782	927	1,070
		Lat 38°01′15″, long 89°02′40″, in NW¼NE¼ sec.12,	210	374	494	649	773	893
		T.6 S., R.1 E., Franklin County.	247	436	570	745	884	1,020
294	05597000	Big Muddy River at Plumfield, Ill.	7,630	13,200	16,800	21,200	24,200	27,100
		Lat 37°54′05″, long 89°00′50″, in NW¼ sec.20, T.7	7,380	11,800	15,000	18,600	21,600	24,400
		S., R.2 E., Franklin County.	7,610	13,100	16,700	20,900	24,000	26,800
295	*05597450	Crab Orchard Creek tributary near Pittsburg, Ill.	226	286	321	360	386	410
		Lat 37°46′18″, long 88°47′52″, in SW¼NW¼ sec.5,	–	–	–	–	–	–
		T.9 S., R.4 E., Williamson County.	–	–	–	–	–	–
296	05597500	Crab Orchard Creek near Marion, Ill.	1,450	2,280	2,830	3,520	4,030	4,530
		Lat 37°43′52″, long 88°53′21″, in SW¼SW¼ sec.16,	1,440	2,430	3,140	4,020	4,730	5,400
		T.9 S., R.3 E., Williamson County.	1,450	2,300	2,880	3,610	4,160	4,710

Table 1.—T-year peak discharges at gaging stations, in cubic feet per second——Continued

Map No.	Station No.	Station Name and Location	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}
297	05599000	Beaucoup Creek near Matthews, Ill.	4,850	9,170	12,500	17,100	20,700	24,500
		Lat 37°58′00″, long 89°21′00″, in SW¼ sec.29, T.6 S.,	4,780	7,790	9,930	12,500	14,500	16,500
		R.2 W., Perry County.	4,840	9,000	12,100	16,200	19,500	22,700
298	05599500	Big Muddy River at Murphysboro, Ill.	12,400	20,900	26,700	33,800	39,000	44,000
		Lat 37°44′55″, long 89°20′45″, in SE¼ sec.8, T.9 S.,	14,400	22,700	28,500	35,300	40,800	46,000
		R.2 W., Jackson County.	12,600	21,000	26,900	34,000	39,200	44,300
299	05599560	Clay Lick Creek near Makanda, Ill.	830	1,360	1,730	2,200	2,550	2,890
		Lat 37°36′00″, long 89°14′25″, in SW¼ sec.32, T.10	437	781	1,030	1,360	1,620	1,870
		S., R.1 W., Jackson County.	730	1,220	1,530	1,930	2,250	2,530
300	*05599580	Big Muddy River tributary near Gorham, Ill.	40	67	86	111	130	149
		Lat 37°40′21″, long 89°28′49″, in NW¼NE¼ sec.7,	—	—	—	—	—	—
		T.10 S., R.3 W., Jackson County.	—	—	—	—	—	—
301	05599640	Green Creek tributary near Jonesboro, Ill.	256	395	487	600	683	763
		Lat 37°27′55″, long 89°18′40″, in NE¼NE¼ sec.22,	188	345	460	613	735	855
		T.12 S., R.2 W., Union County.	243	386	481	603	695	786
302	05599800	Orchard Creek near Fayville, Ill.	63	100	125	156	178	200
		Lat 37°11′35″, long 89°24′35″, in SE¼SW¼ sec.23,	71	133	179	240	290	338
		T.15 S., R.3 W., Alexander County.	65	107	139	180	209	243
303	05600000	Big Creek near Wetaug, Ill.	2,250	2,900	3,280	3,710	4,000	4,270
		Lat 37°19′00″, long 89°07′55″, in SW¼ sec.5, T.14	1,700	2,900	3,750	4,820	5,680	6,500
		S., R.1 E., Pulaski County.	2,180	2,900	3,340	3,860	4,220	4,590

Table 2.—Selected watershed and statistical characteristics for unregulated rural gaging stations

Years of record: Years of annual peak-flow data.

A is the drainage area, in square miles, that contributes directly to surface runoff. S is the main channel slope, in feet per mile, determined between the 10 percent and 85 percent distance along the channel. I is the 24-hour 2-year rainfall intensity, in inches. Af is the areal factor.

Mean, standard deviation, station skew, and weighted skew are log-Pearson Type III statistics used in determining the station flood frequency curve in table 1.

Where the maximum flood at a gaging station exceeds the Q_{100} determined from the weighted frequency curve, it is shown as a ratio to the weighted Q_{100} and noted with an asterisk, *.

Map No.	Station No.	Years of Record	A	S	I	Af	Log-Pearson Type III Statistics, in log units				Maximum flood		
							Mean	Standard Deviation	Station Skew	Weighted Skew	Water Year	Discharge (ft^3/s)	R.I. (years)
1	03336100	20	1.05	21.01	3.0	1.11	2.0280	0.3157	−0.7260	−0.4000	1959	249	9
2	03336500	26	35.0	6.92	3.0	1.11	3.2326	.2593	.0250	−.3940	1968	5,160	85
3	03336900	17	134	5.49	3.0	1.11	3.4057	.2303	.2030	−.4000	1968	6,860	41
5	03337500	39	68.0	2.59	3.0	1.11	3.0876	.2543	−.4920	−.4170	1964	4,080	*1.0
6	03338000	30	340	3.01	3.0	1.11	3.5456	.2596	−.8050	−.4270	1964	10,100	37
7	03338100	17	2.20	15.81	3.0	1.11	2.2440	.3911	−1.5490	−.4000	1968	504	10
8	03338500	19	958	3.12	3.0	1.11	3.9243	.2794	.1820	−.4000	1943	36,000	*1.2
9	03338800	20	1.31	33.21	3.0	1.11	2.4620	.2980	.3070	−.4000	1974	1,600	*1.6
10	03339000	53	1,290	3.22	3.0	1.11	4.0976	.2607	−.5270	−.4470	1939	48,700	*1.2
11	03341700	15	1.08	44.35	3.1	1.11	2.2634	.2420	.6730	−.4000	1961	511	31
12	03341900	20	.04	52.80	3.2	1.11	1.2426	.3375	−.5280	−.4000	1974	48	12
13	03343400	15	186	2.96	3.1	1.11	3.4516	.2310	−1.1750	−.4000	1974	6,230	15
14	03344000	11	919	1.53	3.1	1.11	3.9294	.2318	.2040	−.4000	1973	18,200	18
15	03344250	20	.08	10.51	3.2	1.11	1.3220	.2480	.2260	−.4000	1974	68	*1.0
16	03344425	16	.07	97.15	3.2	1.11	1.4047	.3798	.1820	−.4000	1974	112	28
17	03344500	25	7.61	15.73	3.2	1.11	2.9264	.3347	−.7880	−.4000	1961	3,500	85
18	03345500	64	1,516	1.58	3.2	1.11	4.1294	.2757	−1.3610	−.2482	1950	44,800	51
19	03346000	35	319	4.33	3.2	1.11	3.8119	.4113	−1.3790	−.5310	1950	27,100	28
20	03378000	35	228	2.85	3.3	1.11	3.4183	.2215	−1.3880	−.5320	1961	7,500	68
21	03378650	17	1.62	19.59	3.3	1.11	2.3590	.2973	.3380	−.4000	1970	930	*1.0

Table 2.—Selected watershed and statistical characteristics for unregulated rural gaging stations——Continued

Map No.	Station No.	Years of Record	A	S	I	Af	Log-Pearson Type III Statistics, in log units				Maximum flood		
							Mean	Standard Deviation	Station Skew	Weighted Skew	Water Year	Discharge (ft^3/s)	R.I. (years)
22	03378900	10	745	2.66	3.3	1.11	4.0042	0.2644	−0.1400	−0.4000	1967	24,000	16
23	03378980	17	.43	73.61	3.2	1.11	2.1480	.3130	−.4770	−.4000	1971	409	19
24	03379500	61	1,131	2.01	3.3	1.11	4.0903	.3214	−.3420	−.3720	1950	47,000	49
25	03379650	20	1.62	36.06	3.3	1.11	2.6350	.2480	.5260	−.4000	1961	1,550	*1.1
26	03380300	20	.08	98.74	3.4	1.11	1.6330	.2960	−.2010	−.4000	1961	152	38
27	03380350	10	208	2.78	3.3	1.11	3.7020	.3526	−.0100	−.4000	1968	19,000	71
28	03380400	12	1.13	36.06	3.4	1.11	2.3410	.2629	.2280	−.4000	1961	570	16
29	03380450	20	.43	87.65	3.4	1.11	2.1560	.2670	−.4250	−.4000	1975	323	10
30	03380475	16	97.2	4.07	3.4	1.11	3.5760	.2463	.9860	−.4000	1961	17,100	*1.5
31	03380500	58	464	1.90	3.4	1.11	3.8935	.3068	−.3860	−.3940	1961	51,000	*1.6
32	03381500	36	3,102	1.16	3.3	1.11	4.1419	.2349	−.1140	−.3580	1961	46,900	*1.0
33	03381600	16	.16	89.76	3.3	1.11	1.9710	.2520	1.1180	−.4000	1974	484	*1.5
34	03382025	17	.52	75.50	3.5	.87	2.4475	.1521	−.3500	−.3500	1969	563	50
35	03382100	10	147	4.26	3.5	.87	3.4111	.1763	−2.1870	−.3500	1969	3,640	3
37	03382520	13	1.10	28.25	3.4	.87	2.1857	.3528	.1720	−.3500	1969	695	57
38	03385000	26	19.1	21.44	3.5	.87	3.3458	.2419	−.1250	−.3470	1973	6,400	68
39	03385500	21	1.05	145.20	3.5	.87	2.7980	.2060	−.5760	−.3500	1958	1,500	46
41	03612000	53	244	2.69	3.5	.87	3.5665	.2692	−.3550	−.3520	1935	9,630	20
42	03612200	20	.27	140.98	3.5	.87	2.1350	.2530	.1790	−.3500	1967	392	32
43	03614000	14	1.95	23.87	3.6	.87	2.6427	.1680	−.4060	−.3500	1966	754	14
44	04087300	17	1.50	34.32	2.7	1.11	1.9084	.3083	.6080	−.4000	1969	355	*1.0
45	04087400	14	5.04	21.67	2.6	1.11	2.3058	.3788	−.5170	−.4000	1969	940	*1.1
46	05415000	36	128	11.32	3.0	1.11	3.7256	.2374	.9420	−.2390	1969	29,700	*1.8
47	05415500	30	17.6	37.28	3.0	1.11	3.3000	.3820	.3420	−.3510	1947	16,600	*1.6
48	05418750	15	1.93	35.20	3.0	1.11	2.3093	.3225	−.5440	−.4000	1974	520	10
49	05418800	20	.86	157.87	3.0	1.11	2.3780	.2790	−.1770	−.4000	1965	862	64
50	05418980	8	1.55	96.18	3.0	1.11	2.3395	.3739	.9570	−.4000	1973	1,220	74
51	05419000	41	247	10.93	3.0	1.11	3.7332	.2163	−.1770	−.3520	1946	12,000	21
52	05420000	35	230	6.55	3.0	1.11	3.5505	.2758	−.1230	−.3630	1946	11,600	46
53	05430500	61	3,338	.74	2.8	1.11	3.7855	.2011	−.6660	−.5280	1929	13,000	25

Table 2.—Selected watershed and statistical characteristics for unregulated rural gaging stations——Continued

Map No.	Station No.	Years of Record	A	S	I	Af	Log-Pearson Type III Statistics, in log units				Maximum flood		
							Mean	Standard Deviation	Station Skew	Weighted Skew	Water Year	Discharge (ft^3/s)	R.I. (years)
54	05431500	36	202	2.68	2.8	1.11	3.3103	0.3795	−0.1360	−0.3610	1973	16,500	*1.5
55	05434500	36	1,034	2.27	2.9	1.11	3.7614	.2423	−.2890	−.3882	1969	15,100	29
56	05435000	24	1.31	40.90	3.0	1.11	1.9891	.4862	−.4780	−.4000	1974	698	41
57	05435500	62	1,326	2.01	3.0	1.11	3.7808	.2498	−.0880	−.2460	1929	18,400	44
58	05435650	15	1.95	29.36	3.0	1.11	2.4118	.2626	−1.3100	−.4000	1974	660	23
59	05436500	61	523	3.18	2.9	1.11	3.5489	.3313	−.3430	−.3720	1915	14,800	55
60	05436900	15	.55	97.11	2.9	1.11	1.7324	.3505	.2260	−.4000	1969	187	12
61	05437000	32	2,550	2.01	2.9	1.11	3.9119	.2078	−.3450	−.3950	1959	16,600	12
62	05437500	46	6,363	.84	2.7	1.11	4.1698	.1977	−.2990	−.3720	1916	32,500	41
63	05437600	15	2.21	40.26	2.8	1.11	2.1080	.3308	−.7860	−.4000	1974	308	7
64	05437950	11	14.4	7.38	2.7	1.11	2.1021	.0996	.0070	−.4000	1972	192	4
65	05438250	14	85.1	5.72	2.8	1.11	3.0094	.3184	−1.2360	−.4000	1973	3,020	18
66	05438300	15	.84	87.34	2.8	1.11	1.8942	.2369	.5970	−.4000	1972	180	10
67	05438500	36	538	4.59	2.8	1.11	3.5321	.3176	−.2480	−.3780	1943	10,300	18
68	05438850	20	1.67	28.72	2.9	1.11	2.0832	.3634	−.8810	−.4000	1959	393	14
69	05439500	36	387	2.27	2.8	1.11	3.5517	.2498	−.7490	−.4510	1973	8,460	24
70	05439550	17	1.71	53.75	2.8	1.11	2.0430	.4895	−.2770	−.4000	1971	452	11
71	05440000	36	1,099	4.07	2.8	1.11	3.8263	.2820	−.4070	−.4010	1946	16,400	14
72	05440500	36	117	6.34	2.9	1.11	3.3286	.3630	−.9450	−.4800	1951	6,100	12
73	05440650	17	1.00	33.16	2.9	1.11	1.8905	.3158	−.0020	−.4000	1971	297	35
74	05440900	20	.15	144.14	3.0	1.11	1.7465	.3580	.4650	−.4000	1958	212	26
75	05441000	36	103	10.45	2.9	1.11	3.3959	.3872	−.7890	−.4520	1972	7,950	14
76	05441500	10	8,205	.95	2.8	1.11	4.3276	.2242	.3380	−.4000	1946	45,500	21
77	05442000	12	116	5.17	2.9	1.11	3.0963	.1702	.3210	−.4000	1951	2,630	12
78	05443500	61	8,755	1.00	2.8	1.11	4.3592	.2330	−.7740	−.5790	1973	59,700	64
79	05444000	36	146	4.28	3.0	1.11	3.4694	.2631	−1.0640	−.4970	1974	6,770	16
80	05444100	14	1.42	60.19	3.0	1.11	2.4182	.3086	−.3830	−.4000	1965	832	30
81	05445500	32	158	3.91	3.0	1.11	3.3474	.1813	.0090	−.3670	1946	5,770	98
82	05446500	36	9,551	1.11	2.9	1.11	4.3347	.2145	−.3630	−.3950	1948	46,200	16
83	05446950	15	.53	86.23	3.0	1.11	1.9600	.4337	.3870	−.4000	1967	493	35

Table 2.—Selected watershed and statistical characteristics for unregulated rural gaging stations—Continued

Map No.	Station No.	Years of Record	A	S	I	Af	Log-Pearson Type III Statistics, in log units				Maximum flood		
							Mean	Standard Deviation	Station Skew	Weighted Skew	Water Year	Discharge (ft^3/s)	R.I. (years)
84	05447000	36	201	3.85	2.9	1.11	3.3990	0.2589	−1.3310	−0.5240	1955	6,120	20
85	05447050	14	4.95	20.91	3.0	1.11	2.1264	.3137	−.8010	−.4000	1969	431	11
87	05447350	15	1.22	32.52	3.1	1.11	2.2899	.3416	−.5330	−.4000	1967	890	*1.0
88	05447500	39	1,003	2.53	3.0	1.11	3.7349	.2049	−1.0450	−.5200	1974	12,100	22
89	05448000	36	62.4	7.44	3.2	1.11	3.4215	.3565	−.4460	−.4070	1973	9,300	26
90	05448050	20	.22	67.06	3.2	1.11	1.5520	.3820	.1740	−.4000	1967	163	24
91	05466000	35	155	5.07	3.2	.85	3.4762	.2312	−1.0970	−.4930	1951	8,910	*1.0
92	05466500	41	445	1.69	3.2	.85	3.5747	.2494	−.1480	−.3460	1973	18,000	*1.5
93	05467000	41	183	3.59	3.2	.85	3.3164	.2409	−.1130	−.3390	1973	8,900	*1.3
94	05467500	34	151	4.22	3.2	.85	3.3485	.2744	.0500	−.3460	1950	8,250	90
95	05468000	11	67.1	5.02	3.2	.85	3.0302	.1488	−.7910	−.4000	1950	1,740	6
96	05468500	35	130	4.49	3.2	.85	3.3204	.3645	−.2800	−.3840	1956	8,260	30
97	05469000	41	432	3.96	3.2	.85	3.6730	.2540	−.0920	−.3340	1950	16,500	*1.0
98	05469500	36	82.9	6.12	3.2	.85	3.2131	.3563	−.4400	−.4050	1973	9,100	*1.1
99	05469750	20	.26	28.78	3.2	.85	1.5900	.4020	−1.4800	−.4000	1958	182	35
100	05495200	20	1.45	34.48	3.3	1.11	2.5990	.3190	−.5460	−.4000	1958	1,110	21
101	05495500	32	349	3.70	3.3	1.11	3.9069	.2827	−.4370	−.4030	1951	21,200	22
102	05496900	20	.50	105.60	3.3	1.11	2.4050	.2980	−.6690	−.4000	1960	616	13
103	05501500	14	.32	66.53	3.4	1.11	2.2096	.4144	−.3770	−.4000	1962	796	59
104	05502020	19	40.9	19.75	3.4	1.11	3.6285	.2063	−.5500	−.4000	1956	8,000	14
105	05502040	36	72.7	15.00	3.4	1.11	3.7440	.3057	−.7750	−.4550	1944	15,000	19
106	05502120	20	.78	78.67	3.4	1.11	2.5530	.2940	−.7100	−.4000	1966	1,330	88
107	05512500	36	39.4	11.25	3.4	1.11	3.6413	.3333	−.7990	−.4580	1965	12,600	21
108	05513000	36	161	7.02	3.4	1.11	3.7877	.3432	−.7700	−.4540	1946	23,500	44
109	05513200	20	1.20	122.50	3.5	1.11	2.4530	.3950	.3230	−.4000	1960	1,280	23
110	05518000	53	1,779	.90	2.9	1.11	3.6002	.1094	−.7440	−.5280	1928	7,200	68
111	05519500	22	54.7	2.30	2.9	1.11	2.9542	.2508	−1.3760	−.4000	1954	1,840	12
112	05520000	31	220	2.60	3.0	1.11	3.2321	.0847	−1.5780	−.4790	1975	2,150	4
113	05520500	61	2,294	.90	2.8	1.11	3.7775	.1442	−.8670	−.6240	1950	10,100	20
114	05524500	27	449	2.00	2.7	1.11	3.4090	.1670	−.2610	−.3960	1958	5,930	*1.0

Table 2.–Selected watershed and statistical characteristics for unregulated rural gaging stations––Continued

Map No.	Station No.	Years of Record	A	S	I	Af	Log-Pearson Type III Statistics, in log units				Maximum flood		
							Mean	Standard Deviation	Station Skew	Weighted Skew	Water Year	Discharge (ft^3/s)	R.I. (years)
115	05525000	31	686	1.11	2.9	1.11	3.5331	0.1916	0.2530	−0.3480	1958	10,400	*1.1
116	05525050	17	10.2	8.34	2.9	1.11	2.3790	.4424	.4440	−.4000	1957	1,950	*1.1
117	05525500	27	446	4.86	2.9	1.11	3.7845	.2815	−.0770	−.3910	1951	22,900	*1.1
118	05526000	52	2,091	.69	2.9	1.11	4.0649	.2117	−.2927	−.3610	1913	34,000	*1.1
119	05526150	20	.19	56.50	2.8	1.11	1.4890	.4740	.2280	−.4000	1957	233	97
120	05526500	26	12.1	11.93	2.9	1.11	2.1920	.3484	.6410	−.3860	1970	1,710	*1.8
121	05527050	17	.80	29.67	2.8	1.11	2.0060	.3540	.1210	−.4000	1957	786	*1.8
122	05527500	61	5,150	1.27	2.8	1.11	4.3248	.2137	−.1130	−.2620	1957	75,900	*1.3
123	05527800	15	123	1.76	2.7	1.11	2.7294	.3420	−.7400	−.4000	1974	1,690	18
124	05527840	14	145	1.42	2.7	1.11	2.8287	.3601	−1.2240	−.4000	1974	1,730	10
125	05528000	29	232	1.27	2.7	1.11	3.0566	.2781	−1.0360	−.4250	1960	3,070	27
129	05529000	35	360	1.11	2.7	1.11	3.3077	.2109	−.5439	−.4192	1938	5,000	78
147	05536190	31	70.7	7.40	3.2	1.11	3.0970	.2022	.0930	−.3610	1959	2,670	12
159	05537500	25	20.9	7.81	2.8	1.11	2.7650	.3201	.4350	−.4000	1955	3,160	*1.3
161	05539000	34	107	7.55	2.8	1.11	3.4476	.2792	.6843	−.3277	1902	16,700	*1.7
164	05539950	15	8.81	6.32	2.8	.66	2.1702	.2474	−.0470	−.4000	1972	888	*1.9
166	05540140	15	3.03	25.99	2.8	.66	1.8180	.3664	−.6660	−.4000	1972	204	10
168	05540500	35	324	4.38	2.8	.66	3.5516	.2384	.3000	−.3070	1955	12,000	*1.2
169	05541750	17	4.52	6.55	2.9	1.11	1.9530	.3010	−1.5360	−.4000	1968	163	4
170	05542000	36	455	4.33	2.9	1.11	3.8510	.3058	−1.1340	−.5080	1958	17,600	15
172	05546500	36	868	1.11	2.7	.66	3.4213	.2061	.2040	−.3280	1960	7,520	*1.1
173	05548150	13	13.8	16.10	2.8	.66	2.2827	.1389	−.4210	−.4000	1971	315	6
177	05549900	20	.07	115.10	2.8	.66	1.1698	.3546	−.1130	−.4000	1972	59	47
179	05550450	15	16.7	11.93	2.8	.66	2.1743	.3079	−.6270	−.4000	1967	410	10
180	05550500	24	35.2	9.08	2.8	.66	2.5329	.1838	.6600	−.4000	1973	896	67
181	05551200	15	51.7	13.31	2.8	.66	2.9003	.2715	−.8040	−.4000	1971	1,620	9
183	05551650	15	2.11	28.83	2.8	.66	1.7358	.4267	.7230	−.4000	1970	346	66
184	05551700	15	70.2	5.60	2.8	.66	2.7713	.2366	−.7260	−.4000	1974	1,320	14
185	05551800	15	.45	87.12	2.9	.66	1.9430	.3780	−.0040	−.4000	1975	304	28
187	05554000	33	186	5.39	2.9	1.11	3.3145	.2350	−.2750	−.3920	1970	4,550	13

Table 2.—Selected watershed and statistical characteristics for unregulated rural gaging stations——Continued

Map No.	Station No.	Years of Record	A	S	I	Af	Log-Pearson Type III Statistics, in log units				Maximum flood		
							Mean	Standard Deviation	Station Skew	Weighted Skew	Water Year	Discharge (ft^3/s)	R.I. (years)
188	05554500	34	579	1.11	3.0	1.11	3.6558	0.2374	−0.0059	−0.3737	1951	13,600	96
189	05554600	17	.16	60.72	3.0	1.11	1.7360	.2900	−.8160	−.4000	1965	163	32
190	05555000	15	1,084	1.27	3.0	1.11	3.8766	.2523	−.3800	−.4000	1920	17,100	18
191	05555300	45	1,251	1.37	3.0	1.11	4.0177	.2724	−.2670	−.3640	1958	33,500	67
192	05555400	20	.14	50.37	3.0	1.11	1.4580	.4480	.5800	−.4000	1958	176	50
193	05555775	13	.36	24.55	2.9	.66	1.6038	.3157	−.8230	−.4000	1960	98	16
194	05556500	39	196	6.07	3.0	1.11	3.5957	.3113	−.9280	−.4980	1974	12,500	32
195	05557000	39	86.7	9.03	3.0	1.11	3.4294	.3260	.0810	−.3100	1974	20,100	*1.6
196	05557100	20	.33	97.15	3.0	1.11	1.8980	.3440	.1080	−.4000	1973	261	18
197	05557500	38	99.0	12.72	3.0	1.11	3.3541	.2817	−.5180	−.4210	1938	6,200	19
198	05558000	11	485	6.28	3.0	1.11	3.8952	.2054	−.1680	−.4000	1951	18,000	25
199	05558050	20	.03	228.62	3.0	1.11	1.3580	.3320	.1150	−.4000	1958	122	*1.1
200	05558075	20	.22	139.39	3.0	1.11	1.7694	.3794	.8780	−.4000	1958	372	*1.1
201	05558500	26	56.2	10.24	3.0	1.11	3.2409	.2777	.2130	−.3920	1970	6,930	*1.1
202	05559000	28	5.66	53.86	3.1	.85	2.8909	.2562	−.5660	−.4070	1974	1,940	24
203	05559500	31	115	6.07	3.0	.85	3.3369	.2257	.2257	−.3770	1954	5,750	52
206	05561000	22	11.2	39.86	3.2	.85	2.7196	.3838	−.4130	−.4000	1968	1,860	13
209	05563000	31	119	10.93	3.2	1.11	3.8080	.3253	.1280	−.3580	1967	27,500	*1.0
210	05563100	20	.07	76.03	3.2	1.11	1.4330	.3800	.1060	−.4000	1959	246	*1.6
211	05563500	33	297	7.50	3.2	1.11	3.8543	.2822	.3850	−.3270	1974	48,500	*1.8
212	05564400	18	49.0	5.25	3.1	.85	2.8673	.2109	−.1100	−.4000	1959	1,600	12
213	05564500	25	53.1	4.91	3.0	.85	2.9536	.3073	−.9520	−.4000	1947	3,900	*1.1
214	05565000	20	9.81	11.88	3.0	.85	2.6562	.4178	−.9890	−.4000	1951	1,690	20
215	05566000	23	6.30	11.14	3.0	.85	2.2140	.3710	1.3220	−.4000	1951	1,470	*1.6
216	05566500	26	30.5	4.54	3.0	.85	2.7118	.2959	1.4830	−.3750	1951	5,300	*2.5
217	05567000	26	93.9	4.22	3.0	.85	3.2596	.2883	.2740	−.4000	1951	10,900	*1.7
218	05567500	31	767	2.27	3.0	.85	3.8899	.2559	.3860	−.3370	1951	36,000	*1.5
219	05567800	12	.98	30.99	3.2	.85	2.2271	.3707	−.9180	−.4000	1968	446	12
220	05568000	53	1,089	2.48	3.1	.85	3.8759	.2714	.6560	−.0060	1951	31,000	92
223	05568800	16	62.7	6.44	3.1	.85	3.1490	.2672	1.1920	−.4000	1974	6,540	*1.3

Table 2.—Selected watershed and statistical characteristics for unregulated rural gaging stations——Continued

Map No.	Station No.	Years of Record	A	S	I	Af	Log-Pearson Type III Statistics, in log units				Maximum flood		
							Mean	Standard Deviation	Station Skew	Weighted Skew	Water Year	Discharge (ft^3/s)	R.I. (years)
224	05568850	15	1.00	37.86	3.2	0.85	2.0051	0.3881	−0.6190	−0.4000	1975	391	19
225	05569500	33	1,062	2.27	3.2	.85	4.0325	.2644	.6800	−.2850	1974	41,000	*1.1
226	05569825	20	4.06	24.39	3.2	.85	2.5910	.3298	−.3240	−.4000	1967	1,460	46
227	05570000	59	1,636	1.98	3.2	.85	4.0737	.2315	−.0080	−.2220	1924	37,300	95
228	05571000	28	362	3.59	3.0	.85	3.6116	.2943	−.0950	−.3880	1956	14,600	*1.2
229	05572000	67	550	2.75	3.0	.85	3.6979	.2949	−.3240	−.3580	1927	19,000	84
230	05572100	20	.10	34.11	3.1	.85	1.4620	.2890	−.2080	−.4000	1958	64	11
231	05572500	25	774	2.21	3.1	.85	3.7538	.2566	.4140	−.4000	1974	16,000	37
232	05574000	25	11.0	18.80	3.3	.85	3.0215	.3596	.9300	−.4000	1957	8,600	*1.7
233	05574500	26	276	2.01	3.2	.85	3.5515	.3345	−.9210	−.4070	1957	13,000	45
234	05575500	54	562	2.01	3.3	.85	3.6487	.3124	−.1350	−.2980	1957	21,500	*1.1
235	05576000	26	867	1.32	3.3	.85	3.6877	.3188	−.4190	−.4000	1957	18,100	42
236	05576500	63	2,618	1.48	3.2	.85	4.1307	.3109	−1.2770	−.8440	1943	68,700	*1.5
237	05577500	28	107	5.39	3.3	.85	3.1684	.3831	−.3280	−.3970	1960	6,750	33
239	05577700	20	1.50	40.13	3.3	.85	2.3236	.3006	−.3450	−.4000	1958	530	12
240	05578500	38	335	2.59	3.1	.85	3.5683	.3611	.1240	−.3090	1968	24,500	*1.3
241	05579500	28	214	4.65	3.2	.85	3.2828	.3944	.0748	−.3810	1943	29,000	*2.3
242	05579750	18	3.06	21.75	3.1	.85	2.6170	.2968	.6090	−.4000	1956	2,400	*1.7
243	05580000	28	227	6.23	3.1	.85	3.5675	.2906	.2710	−.3730	1973	15,100	*1.0
244	05580500	31	306	5.12	3.2	.85	3.6053	.2841	.1170	−.3590	1974	14,800	69
246	05581500	31	333	5.76	3.2	.85	3.6496	.2645	.5410	−.3250	1974	26,800	*1.6
247	05582000	34	1,804	2.22	3.2	.85	4.0590	.2825	−.0710	−.3610	1943	41,200	72
248	05582200	20	.94	23.76	3.3	.85	2.1230	.4040	−.0760	−.4000	1965	1,500	*2.0
249	05582500	26	26.5	2.16	3.3	.85	2.2545	.3279	−.3710	−.4000	1974	508	9
250	05583000	58	5,093	1.27	3.2	.85	4.2995	.3111	−.5180	−.4520	1943	123,000	*1.5
251	05584400	15	26.3	5.76	3.3	.85	2.7613	.3012	−.2320	−.4000	1961	1,650	14
252	05584450	15	.60	91.87	3.3	.85	2.3214	.2704	−.5800	−.4000	1961	539	21
253	05584500	31	655	3.70	3.3	.85	3.8730	.3114	−.1780	−.3820	1970	27,000	45
255	05585000	55	1,293	1.85	3.3	.85	3.9018	.2425	−.4540	−.4220	1970	24,100	70
256	05585220	20	3.58	27.24	3.3	1.11	2.5650	.3900	−.4430	−.4000	1958	1,010	8

Table 2.—Selected watershed and statistical characteristics for unregulated rural gaging stations—Continued

Map No.	Station No.	Years of Record	A	S	I	Af	Log-Pearson Type III Statistics, in log units				Maximum flood		
							Mean	Standard Deviation	Station Skew	Weighted Skew	Water Year	Discharge (ft^3/s)	R.I. (years)
258	05585700	20	0.15	48.58	3.3	0.85	1.5070	0.3270	−0.3150	−0.4000	1961	74	7
259	05586000	26	29.1	9.03	3.3	1.11	2.8820	.4350	−1.0270	−.4080	1970	3,320	16
260	05586200	20	.49	131.47	3.4	1.11	2.4692	.3141	−.8280	−.4000	1961	730	12
261	05586350	12	1.82	53.86	3.4	1.11	2.5821	.3698	−.6060	−.4000	1966	1,130	11
262	05586500	25	2.30	24.29	3.4	1.11	2.2530	.3860	−.0880	−.4000	1957	1,700	*1.5
263	05586800	16	61.1	11.30	3.3	1.11	3.3633	.4008	−.0630	−.4000	1966	11,900	54
264	05586850	20	.02	63.36	3.4	1.11	1.1250	.2250	.3740	−.4000	1973	42	82
265	05587000	48	868	2.32	3.4	1.11	3.9301	.3568	−.6290	−.4700	1943	40,000	70
266	05587850	20	.45	42.50	3.4	1.11	2.2220	.2772	−.3810	−.4000	1958	791	*1.3
267	05588000	35	36.7	7.92	3.5	1.11	3.2613	.3494	.1200	−.3310	1946	9,340	100
268	05589500	37	22.6	11.09	3.5	1.11	3.2814	.3187	−.0860	−.3500	1957	10,200	*1.2
270	05590000	30	12.4	17.16	3.0	1.11	2.5541	.3015	.3550	−.3500	1968	1,490	58
271	05590400	11	109	2.46	3.1	1.11	3.2136	.2054	−.6020	−.4000	1974	3,310	12
272	05590500	11	126	2.22	3.1	1.11	3.2763	.2721	−.1700	−.4000	1959	4,400	14
273	05591500	25	8.05	5.23	3.2	1.11	2.4408	.3945	−1.4690	−.4000	1974	1,460	56
274	05591750	15	.70	18.32	3.2	.85	1.6585	.2802	−.7240	−.4000	1974	118	10
275	[a] 05592000	34	1,054	1.43	3.1	1.11	3.9279	.3480	−1.1630	−.4920	1957	25,900	18
276	05592025	20	.20	63.89	3.2	1.11	2.0700	.3070	.0330	−.4000	1960	450	*1.0
277	05592300	17	47.9	6.60	3.3	1.11	3.5027	.2870	−.7030	−.4000	1970	7,480	20
278	[a] 05592500	59	1,940	1.37	3.2	1.11	4.1119	.2948	−.2590	−.3380	1957	62,700	*1.2
279	05592700	20	.14	27.09	3.3	1.11	1.8334	.1670	−.0430	−.4000	1957	132	34
280	[b] 05593000	44	2,719	1.27	3.2	1.11	4.1103	.3567	−.9730	−.5450	1943	54,400	52
281	05593600	15	17.3	4.28	3.3	1.11	2.9423	.2897	−.5360	−.4000	1973	2,140	17
282	05593700	13	.34	34.06	3.3	1.11	2.1622	.1965	.1610	−.4000	1966	356	78
283	05593900	12	55.5	5.54	3.3	1.11	3.3471	.2545	−.2820	−.4000	1967	5,910	32

[a] Regulated since 1969 by Shelbyville Reservoir.

[b] Regulated since 1967 by Carlyle Reservoir.

Table 2.–Selected watershed and statistical characteristics for unregulated rural gaging stations––Continued

Map No.	Station No.	Years of Record	A	S	I	Af	Log-Pearson Type III Statistics, in log units				Maximum flood		
							Mean	Standard Deviation	Station Skew	Weighted Skew	Water Year	Discharge (ft^3/s)	R.I. (years)
284	05594000	35	735	2.32	3.4	1.11	3.9305	0.3402	–0.5740	–0.4230	1943	52,000	*1.3
285	05594200	17	1.90	17.16	3.5	1.11	2.5430	.2984	.1690	–.4000	1968	966	22
287	[c] 05595000	46	5,181	1.11	3.3	1.11	4.3483	.3235	–.1810	–.3390	1943	83,000	36
288	05595500	23	17.8	9.77	3.5	1.11	3.1621	.3552	.3440	–.3500	1968	7,760	*1.1
289	05595510	14	1.22	35.22	3.5	1.11	2.2111	.3552	.6930	–.3500	1969	777	39
291	05595800	15	21.1	14.52	3.4	.87	2.9728	.1949	1.1830	–.3500	1961	2,530	40
292	05596000	25	502	1.80	3.4	.87	3.8731	.3304	.2720	–.3500	1961	38,600	*1.2
293	05596100	17	1.03	39.02	3.5	.87	2.3900	.3100	–.3320	–.3500	1970	835	39
294	[d] 05597000	60	794	1.53	3.4	.87	3.8497	.3142	–.9610	–.6350	1961	42,900	*1.6
296	05597500	24	31.7	8.08	3.5	.87	3.1470	.2461	–.2810	–.3500	1961	3,500	22
297	05599000	30	292	2.64	3.5	.87	3.6676	.3453	.1280	–.3180	1961	18,800	43
298	[d] 05599500	43	2,162	1.00	3.5	.87	4.0701	.2928	–.9560	–.4950	1961	33,300	23
299	05599560	16	1.94	55.32	3.6	.87	2.9034	.2698	.9040	–.3500	1969	3,000	*1.2
301	05599640	20	.43	111.94	3.6	.87	2.3950	.2360	–.6020	–.3500	1965	605	25
302	05599800	12	.09	186.91	3.6	.87	1.7840	.2549	.2910	–.4000	1961	148	12
303	05600000	34	32.2	11.30	3.5	.87	3.3447	.1378	–.2710	–.3420	1943	7,200	*1.6

[c] Regulated since 1967 by upstream reservoirs.

[d] Regulated since 1970 by Rend Lake.

Table 3.—Accuracy of estimating equations,
$Q_T = a\ A^b\ S^c\ (I - 2.5)^d\ Af$

Recurrence interval, in years	Standard error of estimate, in percent	Equivalent years of record
2	34.5	4
5	34.5	4
10	36.2	5
25	38.8	6
50	40.9	6
100	42.8	7
500	46.9	7

* U.S. GOVERNMENT PRINTING OFFICE: 1978—752-399